Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 1 of 48

# Exhibit 5

#### Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 2 of 48

Page 1 1 UNITED STATES DISTRICT COURT 2 NORTHERN DISTRICT OF CALIFORNIA 3 \_\_\_\_\_ ) IN RE: ROUNDUP PRODUCTS ) MDL No. 2741 4 LIABILITY LITIGATION ) Case No. 16-md-02741-VC 5 ) -----) 6 ) This document relates to: ) 7 ) ALL ACTIONS ) 8 ) 9 10 11 12 13 14 15 VIDEOTAPED DEPOSITION OF DR. CHADI NABHAN 16 Rosemont, Illinois 17 Monday, January 15, 2018 18 19 20 21 22 23 Reported by: <sup>24</sup> PAULA CAMPBELL, CSR, RDR, CRR, CRC 25 JOB NO. 136021

#### Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 3 of 48

	Page 2	Page	e 4
1		1 I N D E X	
2		2	
3		<sup>3</sup> WITNESS EXAMINATION BY PA	AGE
4		<sup>4</sup> DR. CHADI NABHAN MR. GRIFFIS 6,	, 113
5		<sup>5</sup> MR. LITZENBURG 111	
6		6	
7	January 15, 2018	7EXHIBITS	
8	8:53 A.M.	8 PAGE LINE	
9		<sup>9</sup> Exhibit 29-1 Supplemental Report of 6 15	
10		<sup>10</sup> Dr. Chadi Nabhan, M.D.,	
11	Videotaped discovery deposition of	<sup>11</sup> Pursuant to PTO N. 34	
12	DR. CHADI NABHAN, held at CROWNE PLAZA CHICAGO	<sup>12</sup> and In Support of	
13	O'HARE, 5440 North River Road, Rosemont,	<sup>13</sup> General Causation on	
14	Illinois, pursuant to notice before Paula	<sup>14</sup> Behalf of Plaintiffs	
15	Campbell, CSR, RDR, CRR, CRC.	<sup>15</sup> Exhibit 29-2 article entitled, 6 21	
16		<sup>16</sup> "Glyphosate Use and	
17		<sup>17</sup> Cancer Incidence in the	
18		<sup>18</sup> Agricultural Health	
19		<sup>19</sup> Study"	
20		20Exhibit 29-3Monsanto Company's73	
21		<sup>21</sup> Notice to Take Oral and	
22		22 Videotaped Deposition of	
23		<sup>23</sup> Dr. Chadi Nabhan	
24		24Exhibit 29-4malathion monograph9223	
25		25	
	Page 3	Page	e 5
1	A P P E A R A N C E S:	<sup>1</sup> VIDEOGRAPHER: And good morning. This	s is
2	THE MILLER FIRM	<sup>2</sup> the start of tape labeled number one of the	
3	Attorneys for the Plaintiffs and the witness	<sup>3</sup> videotaped deposition of Dr. Chadi Nabhan taken	n
4	180 Railroad Avenue	<sup>4</sup> in the matter of In re: Roundup Products	
5	Orange, Virginia 22960	<sup>5</sup> Liability Litigation in the United States	
б	BY: TIMOTHY LITZENBURG, ESQ.	<sup>6</sup> District Court for the Northern District of	
7		<sup>7</sup> California, bearing Case Number 16-MD-02741-	VC.
8		<sup>8</sup> This deposition is being held at the Crowne	
9	HOLLINGSWORTH, LLP	<sup>9</sup> Plaza Chicago O'Hare Hotel, at 5440 North Rive	r
10	Attorneys for the Defendant Monsanto Company	<sup>10</sup> Road in Rosemont, Illinois, 60018, on Monday,	
11	1350 I Street, N.W.	<sup>11</sup> January 15th, 2018, at approximately 8:53 A.M.	
12	Washington, D.C. 20005	<sup>12</sup> My name is Robert Zellner from TSG	
13	BY: KIRBY T. GRIFFIS, ESQ.	<sup>13</sup> Reporting, Inc., and I am the legal video	
14	STEPHANIE SALEK, ESQ.	<sup>14</sup> specialist. And the court reporter is Paula	
15		<sup>15</sup> Campbell, also in association with TSG	
16		<sup>16</sup> Reporting.	
17	ALSO PRESENT:	17         And will counsel please introduce	
18	Robert Zellner, Videographer	<sup>18</sup> yourselves for the record.	
19		<sup>19</sup> MR. LITZENBURG: Tim Litzenburg for the	
20		<sup>20</sup> plaintiff and the witness.	
21 22		<sup>21</sup> MR. GRIFFIS: Kirby Griffis of	
		<ul> <li>Hollingsworth, LLP, for Monsanto.</li> <li>MS, SALEK, Stephenic Scheleform</li> </ul>	
23 24		<ul> <li><sup>23</sup> MS. SALEK: Stephanie Salek from</li> <li><sup>24</sup> Hollingsworth LLP for Monsanto</li> </ul>	
24 25		<ul> <li>Hollingsworth, LLP for Monsanto.</li> <li>VIDEOGRAPHER: Thank you.</li> </ul>	
23		VIDEOGRAFIER. HIAIK you.	

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 4 of 48

		Î
	Page 6	Page 8
1	And will the court reporter please swear in	<sup>1</sup> chance to read that. I read Dr. Jamison's
2	the witness.	<sup>2</sup> deposition as well, and I read two documents, one by
3	REPORTER: Would you please raise your	<sup>3</sup> Dr. Ritz and one by Dr. Mucci that was provided to
4	right hand.	<sup>4</sup> me by counsel.
5	C H A D I N A B H A N,	<sup>5</sup> Q. Those were expert reports?
6	called as a witness, having been duly sworn,	<sup>6</sup> A. Yes.
7	was examined and testified as follows:	7 Q. Anything else, sir?
8	EXAMINATION	<sup>8</sup> A. No.
9	BY MR. GRIFFIS:	<sup>9</sup> Q. So you mentioned some previous papers, such
10	Q. Good morning, sir.	<sup>10</sup> as DeRoos 2005, which we discussed at your prior
11	A. Good morning.	deposition. Other than that, the only new things
12	Q. We've met one time, and that was at your	<sup>12</sup> that you have reviewed since your last deposition
13	previous deposition; is that right?	<sup>13</sup> concerning glyphosate and non-Hodgkin lymphoma or
14	A. Correct.	<sup>14</sup> glyphosate alone or non-Hodgkin lymphoma alone are <sup>15</sup> the Journal of National Cancer Institute's study
15 16	(Exhibit 29-1 marked for identification.)	the southar of Hatford Cancer Institute's study
	Q. I have marked as Exhibit 1 and these	2010, the editorial comment by Enzabeth Ford [sie],
17 18	exhibits that I'm about to describe are in front of	and depositions of Dis. Redgut and Jamison and
19	you, sir Exhibit 1 your supplemental expert	<ul> <li>expert reports of Dr. Ritz and Mucci; is that</li> <li>correct?</li> </ul>
20	report; correct? A. Correct.	20 A. Correct.
21	(Exhibit 29-2 marked for identification.)	21Q. The publication that is Exhibit 2, sir, the
22	Q. As Exhibit 2, an article by Andreotti and	<sup>22</sup> Journal of the National Cancer Institute 2018
23	others appearing in the Journal of the National	<ul> <li><sup>23</sup> publication, how did that come to your attention?</li> </ul>
24	Cancer Institute in 2018 entitled "Glyphosate Use	A. I actually do get a table of contents for a
25	and Cancer Incidence in the Agricultural Health	<sup>25</sup> lot of the oncology-specific journals that I
	and cancer merdence in the Agricultural ficatur	for or the oneology spectric journals that I
	Page 7	Page 9
1	Study"; correct?	
1 2	Study"; correct? A. Correct.	
	•	<sup>1</sup> through my e-mail, and then it was also provided to
2	A. Correct.	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> </ul>
2 3	A. Correct. (Exhibit 29-3 marked for identification.)	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> </ul>
2 3 4 5 6	<ul><li>A. Correct. (Exhibit 29-3 marked for identification.)</li><li>Q. And as Exhibit 3, the notice of this</li></ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> </ul>
2 3 4 5 6 7	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> </ul>
2 3 4 5 6 7 8	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> </ul>
2 3 5 6 7 8 9 10	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition. What have you brought in response to that,</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition. What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print. I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that was written in the journal at the same time, written</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> <li>your last deposition at some length your methodology</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that was written in the journal at the same time, written by Elizabeth Ward, and I've refreshed my mind with</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> <li>your last deposition at some length your methodology</li> <li>and your process for evaluating scientific</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that was written in the journal at the same time, written by Elizabeth Ward, and I've refreshed my mind with the previous papers that we discussed at the</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> <li>your last deposition at some length your methodology</li> <li>and your process for evaluating scientific</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that was written in the journal at the same time, written by Elizabeth Ward, and I've refreshed my mind with the previous papers that we discussed at the previous deposition, specifically the DeRoos study</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> <li>your last deposition at some length your methodology</li> <li>and your process for evaluating scientific</li> <li>literature.</li> <li>Did you apply the same process and</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that was written in the journal at the same time, written by Elizabeth Ward, and I've refreshed my mind with the previous papers that we discussed at the previous deposition, specifically the DeRoos study from 2005. That's about it.</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> <li>your last deposition at some length your methodology</li> <li>and your process for evaluating scientific</li> <li>literature.</li> <li>Did you apply the same process and</li> <li>methodology in reviewing this article that you</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. Correct. (Exhibit 29-3 marked for identification.)</li> <li>Q. And as Exhibit 3, the notice of this deposition; correct?</li> <li>A. Correct.</li> <li>Q. Have you seen the notice of deposition before, sir?</li> <li>A. I have.</li> <li>Q. It asks you to provide us with documents that you have reviewed regarding glyphosate and non-Hodgkin lymphoma, or either of those, since our last deposition.</li> <li>What have you brought in response to that, sir?</li> <li>A. Actually, I don't have anything in print.</li> <li>I've reviewed the paper, the that you have, which is Exhibit 2. I reviewed the editorial comment that was written in the journal at the same time, written by Elizabeth Ward, and I've refreshed my mind with the previous papers that we discussed at the previous deposition, specifically the DeRoos study</li> </ul>	<ul> <li>through my e-mail, and then it was also provided to</li> <li>me by counsel. But I have learned about it because</li> <li>I have I get table of contents for about 20</li> <li>journals that whenever something is is out</li> <li>oncology related, I get notified.</li> <li>Q. When you received the table of contents</li> <li>mentioning this article, did you retrieve it and</li> <li>read it then?</li> <li>A. Not all of the journals I can get the</li> <li>actual full article. I get the abstracts usually,</li> <li>so I wasn't able to immediately retrieve it, but</li> <li>then subsequently I did.</li> <li>Q. How long did you spend reviewing this</li> <li>article?</li> <li>A. I did not keep track of the number of</li> <li>hours. I would say maybe about two hours, give and</li> <li>take.</li> <li>Q. And did you you know, we discussed at</li> <li>your last deposition at some length your methodology</li> <li>and your process for evaluating scientific</li> <li>literature.</li> <li>Did you apply the same process and</li> <li>methodology in reviewing this article that you</li> </ul>

	Page 10	Page 12
1	lymphoma?	<sup>1</sup> Institute 2018 study to be an improvement and an
2	A. Of course.	<ul> <li><sup>2</sup> expansion on the DeRoos 2005 data?</li> </ul>
3	Q. And how would you describe the process that	<sup>3</sup> A. It's an expansion because it reports on
4	you used to weigh this new study in forming opinions	<sup>4</sup> longer follow-up and additional cases that have been
5	about glyphosate causation?	<sup>5</sup> reported, as you are well know. You can't really
6	A. I'm not sure I understand the question.	<sup>6</sup> improve on it because the study is what the study
7	How do I describe the process?	<ul> <li><sup>7</sup> is. It's been designed in the '90s, and you can't</li> </ul>
8	Q. Yes.	<sup>8</sup> improve on a study design. I have a lot of
9	A. It's similar to the process I apply to any	<ul> <li><sup>9</sup> reservations about the study design that was done.</li> </ul>
10	scientific article with that I have an interest	<sup>10</sup> So you can't improve on that. It's already done.
11	in. I read the paper. I try to understand the	11     Q. In as a piece of evidence that you are
12	conclusions, and try to understand what	<sup>12</sup> weighing in deciding whether glyphosate-containing
13	methodologies were applied to each of these	<sup>13</sup> substances can cause non-Hodgkin lymphoma, do you
14	conclusions, and I form an opinion.	<sup>14</sup> give more weight to the NCI 2018 study or to the
15	Q. How informative do you consider the 2018	<sup>15</sup> DeRoos 2005 study?
16	National Cancer Institute study to be with regard to	<sup>16</sup> A. I would give more weight to the NC the
17	the issue of whether glyphosate-containing	<sup>17</sup> JNCI article, because it is obviously longer
18	substances can cause non-Hodgkin lymphoma?	<sup>18</sup> follow-up and there are more cases, so I think it
19	A. Well, I always applaud any study that	<sup>19</sup> makes sense to take the data that is coming in this
20	provides long-term follow-ups. I mean, I think this	<ul> <li>article as an update, and it has more weight because</li> </ul>
21	is really critical in oncology and in the	<sup>21</sup> there are more cases.
22	literature. There are many studies that usually are	22 Q. And in what ways does the 2018 NCI data
23	done, and you actually don't get any updated	<sup>23</sup> improve on the data from 2005?
24	literature and so forth. But it did not add	A. Longer follow-up. The longer follow-up and
25	anything that rather unusual or did not really	<sup>25</sup> the additional cases that have been reported.
	anything that father unusual of the not really	the additional cases that have been reported.
	Page 11	Page 13
1		
1 2	change anything pertaining to the body of	
	change anything pertaining to the body of literature, but it's good that there is a longer	<ol> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> </ol>
2	change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.	<ol> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> </ol>
2 3	change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so. Q. So there was a previous article that we	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> </ul>
2 3 4	change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.	<ol> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> </ol>
2 3 4 5	change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so. Q. So there was a previous article that we talked about, the DeRoos 2005 study	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> </ul>
2 3 4 5	<ul><li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li><li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li><li>A. Correct.</li></ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> </ul>
2 3 4 5 6 7	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> </ul>
2 3 4 5 6 7 8	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> </ul>
2 3 4 5 7 8 9	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> </ul>
2 3 5 6 7 8 9 10	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS.</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS. It is ongoing, so I don't believe this would be the</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> <li>your original opinion stated in your original expert</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS. It is ongoing, so I don't believe this would be the last paper coming out.</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> <li>your original opinion stated in your original expert</li> <li>report that glyphosate causes non-Hodgkin lymphoma?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS. It is ongoing, so I don't believe this would be the last paper coming out.</li> <li>Q. You know that the there are multiple</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> <li>your original opinion stated in your original expert</li> <li>report that glyphosate causes non-Hodgkin lymphoma?</li> <li>A. It does not weaken it at all.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS. It is ongoing, so I don't believe this would be the last paper coming out.</li> <li>Q. You know that the there are multiple publications from this same set of data on issues other than glyphosate and non-Hodgkin lymphoma; correct?</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> <li>your original opinion stated in your original expert</li> <li>report that glyphosate causes non-Hodgkin lymphoma?</li> <li>A. It does not weaken it at all.</li> <li>Q. Why doesn't it weaken it at all?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study</li> <li>A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS. It is ongoing, so I don't believe this would be the last paper coming out.</li> <li>Q. You know that the there are multiple publications from this same set of data on issues other than glyphosate and non-Hodgkin lymphoma; correct?</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> <li>your original opinion stated in your original expert</li> <li>report that glyphosate causes non-Hodgkin lymphoma?</li> <li>A. It does not weaken it at all?</li> <li>Q. Why doesn't it weaken it at all?</li> <li>A. It doesn't add any information. It just</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>change anything pertaining to the body of literature, but it's good that there is a longer follow-up. I applaud the authors for doing so.</li> <li>Q. So there was a previous article that we talked about, the DeRoos 2005 study A. Correct.</li> <li>Q which reflected the early report of data from the same set of data; correct?</li> <li>A. Correct.</li> <li>Q. And this is the follow-up that you were just referring to; correct?</li> <li>A. Yeah. This is the follow-up, and as I said, I always applaud and I enjoy the fact that authors and scientists look at follow-up data because there is much in the literature where you don't see a lot of follow-up. And I believe there would be additional papers, follow-up on the AHS. It is ongoing, so I don't believe this would be the last paper coming out.</li> <li>Q. You know that the there are multiple publications from this same set of data on issues other than glyphosate and non-Hodgkin lymphoma; correct?</li> </ul>	<ul> <li>That's pretty much it.</li> <li>Q. You would agree that this is a piece of</li> <li>evidence that weighs against causation; correct?</li> <li>A. It is a piece of evidence that suggests no</li> <li>causation between glyphosate and non-Hodgkin</li> <li>lymphoma, which I don't agree with.</li> <li>Q. So you agree that it is a piece of evidence</li> <li>against causation, but you disagree overall with</li> <li>that conclusion that there is no causation; is that</li> <li>accurate?</li> <li>A. I do disagree with the conclusion, yes.</li> <li>Q. And the rest of what I said is accurate as</li> <li>well; correct?</li> <li>A. Yes.</li> <li>Q. As a piece of evidence against a causal</li> <li>connection between glyphosate-containing substances</li> <li>and non-Hodgkin lymphoma, how much does this weaken</li> <li>your original opinion stated in your original expert</li> <li>report that glyphosate causes non-Hodgkin lymphoma?</li> <li>A. It does not weaken it at all?</li> <li>Q. Why doesn't it weaken it at all?</li> <li>A. It doesn't add any information. It just</li> <li>adds longer follow-up to a previously done study.</li> </ul>

	Page 14		Page 16
1	Q. Okay. Could you explain, please, what you	1	conclusions, but I don't dismiss it.
2	mean by "adding no additional scientific	2	Q. What information, data, or conclusions in
3	information" between the DeRoos 2005 data and the	3	the NCI 2018 study do you consider to be reliable?
4	NCI 2018 data?	4	A. As I said, the the way the Agricultural
5	A. So the JNCI paper basically adds longer	5	Health Study has been set to look at the incidence
6	follow-up. So the follow-up now is through 2012 for	6	of cancer and pesticides, including glyphosate, and
7	North Carolina and 2013 for Iowa. So that's really	7	from these cancers, non-Hodgkin lymphoma, has been
8	what it adds. And it is rather predictable and	8	established several decades ago. So that's not
9	expected with longer follow-up you will have more	9	going to change, the way the study is designed and
10	cases reported of cancer in general, non-Hodgkin	10	the way the study is conducted. All what we are
11	lymphoma.	11	going to see is additional follow-up and additional
12	That's really all what this study adds. It	12	cases and additional things that are reported with
13	doesn't change the way the study was designed, it	13	longer follow-up.
14	doesn't change the drop of follow-up questionnaires,	14	So what the JNCI paper adds is that, with
15	it doesn't change the fundamental flaws that exist	15	longer follow-up, this is what we have seen in terms
16	in the Agricultural Health Study that were present	16	of additional cases, and the conclusions of this
17	previously in the DeRoos study.	17	particular paper mirrors the conclusions of the
18	Q. I'm just trying to understand fully the	18	DeRoos paper. There are no really differences in
19	difference between your statement that this this	19	conclusions, the way I read this paper. Basically,
20	has more weight than DeRoos 2005, given the	20	the conclusions of this paper are rather similar to
21	additional follow-up, but adds nothing of scientific	21	the conclusions of the 2005 paper.
22	value. Could you explain what you mean, please?	22	Q. What size epidemiological study would it
23	A. What I mean by "more weight" is when you	23	take to shake your conviction that
24	have a longer follow-up study or you have additional	24	glyphosate-containing substances cause non-Hodgkin
25	study that reports on the actual trial itself, you	25	lymphoma?
			. –
	Page 15		Page 17
1	will take the output or you would take the results	1	MR. LITZENBURG: Objection to form.
2	will take the output or you would take the results of the latest follow-up, and it basically, you	2	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually
2 3	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any	2 3	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing
2 3 4	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.	2 3 4	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I
2 3 4 5	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we	2 3 4 5	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the
2 3 4 5 6	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we continue to evaluate the Agricultural Health Study,	2 3 4 5 6	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's
2 3 4 5 6 7	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a	2 3 4 5 6 7	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that
2 3 4 5 6 7 8	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would	2 3 4 5 6 7 8	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision.
2 3 4 5 6 7 8 9	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that	2 3 4 5 6 7 8 9	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a
2 3 4 5 6 7 8 9 10	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future	2 3 4 5 6 7 8 9 10	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions
2 3 4 5 6 7 8 9 10	will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer. In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.	2 3 4 5 6 7 8 9 10 11	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study.
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 12	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS:
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right.
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define "value." I believe anything in the literature does</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion, without knowing about this because it didn't exist
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define "value." I believe anything in the literature does bring some kind of value, and I think we we just</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion, without knowing about this because it didn't exist yet, that glyphosate caused non-Hodgkin lymphoma;
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define "value." I believe anything in the literature does bring some kind of value, and I think we we just have to take this in the context of other</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion, without knowing about this because it didn't exist yet, that glyphosate caused non-Hodgkin lymphoma; correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define "value." I believe anything in the literature does bring some kind of value, and I think we we just have to take this in the context of other epidemiologic evidence and other body of literature</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion, without knowing about this because it didn't exist yet, that glyphosate caused non-Hodgkin lymphoma; correct? A. Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define "value." I believe anything in the literature does bring some kind of value, and I think we we just have to take this in the context of other epidemiologic evidence and other body of literature that exists. I don't dismiss anything that is</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion, without knowing about this because it didn't exist yet, that glyphosate caused non-Hodgkin lymphoma; correct? A. Correct. Q. What size new epidemiology study would it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>will take the output or you would take the results of the latest follow-up, and it basically, you don't need to go back and take a look at DeRoos any longer.</li> <li>In other words, in the future, as we continue to evaluate the Agricultural Health Study, nobody's going, in my opinion, to go back and take a look at DeRoos study any more in 2005. Why would they? We have now an update in 2018, so that becomes the benchmark at which you compare future updates against. That's what I mean.</li> <li>Q. Okay. In your opinion, is this study so flawed I know we'll be talking about some of the flaws that you believe exist in the study later is it so flawed that it isn't of any value in assessing whether glyphosate-containing substances can cause non-Hodgkin lymphoma?</li> <li>A. Well, it really depends how you define "value." I believe anything in the literature does bring some kind of value, and I think we we just have to take this in the context of other epidemiologic evidence and other body of literature</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. LITZENBURG: Objection to form. A. So there is no such a thing. You actually have to define this a priori. Prior to designing the study, you have to decide, what what am I looking for, how do I design the study, what are the number of subjects I'm actually looking at, what's the power of the study, et cetera, and you make that decision. I'm not an epidemiologist or a statistician, but you don't make these decisions actually after the fact. You actually make these decisions in the process when you design a study. BY MR. GRIFFIS: Q. Well, you came to this after the fact. A. Right. Q. You are not an epidemiologist. You weren't designing a study. You were looking at studies that had been published, and you came to a conclusion, without knowing about this because it didn't exist yet, that glyphosate caused non-Hodgkin lymphoma; correct? A. Correct.

	Page 18	Page 20
1	conviction because, you know, short of doing the	1 Q. On Page 7, sir.
2	randomized control trials where you expose some	$^{2}$ A. Okay.
3	subjects to glyphosate and others to no glyphosate	<sup>3</sup> Q. Let's go to the last paragraph, "In
4	and demonstrate that the subjects who received	4 conclusion, we found no evidence of an association
5	glyphosate do not have non-Hodgkin lymphoma, similar	<sup>5</sup> between glyphosate use and risk of any solid tumors
6	to the folks who don't receive glyphosate, and	<ul> <li><sup>6</sup> or lymphoid malignancies, including NHL and its</li> </ul>
7	that's obviously a trial that cannot and should not	<ul> <li><sup>7</sup> subtypes."</li> </ul>
8	be performed.	<sup>8</sup> As we discussed, that accurately describes
9	So the body of evidence so far that I have	<sup>9</sup> the conclusions of the NCI 2018 study; correct?
10	reviewed is convincing that there is a causation and	<sup>10</sup> A. That accurately describes the conclusions
11	an association between glyphosate and non-Hodgkin	<sup>11</sup> that you just read, yes.
12	lymphoma. This is an update of a previously	<sup>12</sup> Q. You read the deposition of Dr. Neugut, you
13	published trial in 2005 that I have took under full	<sup>13</sup> said?
14	consideration when I reviewed the body of literature	<sup>14</sup> A. I did.
15	before.	<sup>15</sup> Q. Do you agree with Dr. Neugut that and
16	Q. So it's your view that this is something	<sup>16</sup> Dr. Neugut is an epidemiology expert that has been
17	that you have previously essentially this is	<sup>17</sup> named by the plaintiffs; correct?
18	something that you have previously considered since	$^{18}$ A. Yes, he is.
19	it's an expansion of data from an article that you	<sup>19</sup> Q. You agree with him that the Journal of the
20	previously considered; is that fair?	<sup>20</sup> National Cancer Institute is one of the most highly
21	A. That is correct.	<sup>21</sup> respected journals in the world?
22	Q. Turn to Exhibit 2, sir, which is the	<sup>22</sup> MR. LITZENBURG: Object to form.
23	National Cancer Institute 2018 study. I want to ask	A. I I actually don't think that JNC I
24	you about some specific things therein.	<sup>24</sup> mean, it's a good journal. I don't think it's one
25	First, I'm in the abstract, the	<sup>25</sup> of the most highly respected journals in the world.
	<b>D</b> 10	Daga 21
	Page 19	Page 21
1	conclusions. Do you see that?	<sup>1</sup> I think there are a lot of papers that get published
2	conclusions. Do you see that? A. I do.	<ol> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> </ol>
2 3	<ul><li>conclusions. Do you see that?</li><li>A. I do.</li><li>Q. "In this large, prospective cohort study,</li></ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> </ul>
2 3 4	<ul><li>conclusions. Do you see that?</li><li>A. I do.</li><li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and</li></ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> </ul>
2 3 4 5	<ul><li>conclusions. Do you see that?</li><li>A. I do.</li><li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall,</li></ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> </ul>
2 3 4 5 6	<ul><li>conclusions. Do you see that?</li><li>A. I do.</li><li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes."</li></ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> </ul>
2 3 4 5 6 7	<ul><li>conclusions. Do you see that?</li><li>A. I do.</li><li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes."</li><li>Did I read that right?</li></ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> </ul>
2 3 4 5 6 7 8	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes."</li> <li>Did I read that right?</li> <li>A. You did.</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes."</li> <li>Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> </ul>
2 3 4 5 6 7 8 9 10	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study,</li> <li>no association was apparent between glyphosate and</li> <li>any solid tumors or lymphoid malignancies overall,</li> <li>including NHL and its subtypes."</li> <li>Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports</li> <li>what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the</li> <li>"Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology.</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology.</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and multiple myeloma."</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology.</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> <li>mistakenly what it is. I would need to search and</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and multiple myeloma." I read that correctly?</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology.</li> <li>BY MR. GRIFFIS:</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> <li>mistakenly what it is. I would need to search and</li> <li>see what the top 5 percent. I'm sure it's in the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and multiple myeloma." I read that correctly?</li> <li>A. You read it correctly.</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology.</li> <li>BY MR. GRIFFIS:</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> <li>mistakenly what it is. I would need to search and</li> <li>see what the top 5 percent. I'm sure it's in the</li> <li>public domain.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and multiple myeloma." I read that correctly?</li> <li>A. You read it correctly.</li> <li>Q. And that accurately describes the findings</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology.</li> <li>BY MR. GRIFFIS:</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> <li>mistakenly what it is. I would need to search and</li> <li>see what the top 5 percent. I'm sure it's in the</li> <li>public domain.</li> <li>Q. The peer reviewers of the JNCI apply a</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and multiple myeloma." I read that correctly?</li> <li>A. You read it correctly.</li> <li>Q. And that accurately describes the findings of the NCI 2018 study; correct?</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> <li>mistakenly what it is. I would need to search and</li> <li>see what the top 5 percent. I'm sure it's in the</li> <li>public domain.</li> <li>Q. The peer reviewers of the JNCI apply a</li> <li>rigorous peer review; correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>conclusions. Do you see that?</li> <li>A. I do.</li> <li>Q. "In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes." Did I read that right?</li> <li>A. You did.</li> <li>Q. And that was that accurately reports what they found in the NCI 2018 study; correct?</li> <li>A. That reports their conclusions, correct.</li> <li>Q. Page 5, sir, first sentence under the "Discussion" section: "In this updated evaluation of glyphosate use and cancer risk in a large prospective study of pesticide applicators, we observed no associations between glyphosate use and overall cancer risk or with total lymphohematopoietic cancers, including NHL and multiple myeloma." I read that correctly?</li> <li>A. You read it correctly.</li> <li>Q. And that accurately describes the findings</li> </ul>	<ul> <li>I think there are a lot of papers that get published</li> <li>there that I have problems with, but it does have a</li> <li>high impact factor, and it's definitely one of the</li> <li>very good oncology journals that we view highly. I</li> <li>think "in the world" is stretching it.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You do do you agree with Dr. Neugut that</li> <li>the Journal of the National Cancer Institute's</li> <li>impact factor is routinely among the top 5 percent</li> <li>of all oncology journals in the world?</li> <li>MR. LITZENBURG: Object to form.</li> <li>A. In oncology.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You agree with that?</li> <li>A. It is in the top I actually don't have</li> <li>the actual I will have to look it up. I'm not</li> <li>sure top 5 percent, top 10 percent, but it has a</li> <li>high impact factor. I don't want to state</li> <li>mistakenly what it is. I would need to search and</li> <li>see what the top 5 percent. I'm sure it's in the</li> <li>public domain.</li> <li>Q. The peer reviewers of the JNCI apply a</li> <li>rigorous peer review; correct?</li> </ul>

	Page 22	Page 24
1	or other papers.	<sup>1</sup> Department of Epidemiology at the University of
2	Q. And JNCI has a reputation for rigorous peer	<sup>2</sup> Iowa.
3	review like other top journals; right?	<sup>3</sup> A. And Public Health in Philadelphia.
4	A. I don't know what peer review process they	4 Q. And Public Health in Philadelphia
5	have. I don't peer review for them. I peer review	<sup>5</sup> respectively; correct?
6	for other journals, but I'm not sure what the peer	<sup>6</sup> A. Correct.
7	review process that exists at the JNCI.	7 Q. The bottom line of the first page, sir,
8	Q. You haven't been asked to peer review for	<ul> <li><sup>8</sup> says, "Published by Oxford University Press 2017.</li> </ul>
9	JNCI?	<sup>9</sup> This work is written by U.S. Government employees
10	A. I'm not a peer reviewer for JNCI, no.	<sup>10</sup> and is in the public domain in the U.S." Correct?
11	Q. Take a look at the authors for Exhibit 2,	11     A. Yes, correct.
12	sir.	12     Q. There are no industry authors or
13	A. Sure.	<sup>13</sup> affiliations for this study; correct?
14	Q. And you see that under the listing of	A. There are no industry authors or
15	authors there is "Affiliation of authors"?	<sup>15</sup> affiliations. I have not looked at any conflict of
16	A. I see that, yes.	<sup>16</sup> interest of these authors, but I'm not aware of any.
17	Q. And by using their by designating them	<sup>17</sup> Q. At the end, sir, there is a statement about
18	with initials, they show which branches and	<sup>18</sup> funding; correct?
19	subbranches of the National Cancer Institute a	<sup>19</sup> A. What page?
20	number of the authors belong to.	$^{20}$ Q. It's Page 7.
21	Do you see that?	21 A. Yeah, I see that.
22	A. I see that.	Q. "This work was supported by the Intramural
23	Q. And do you see that one, two, three, four,	<ul> <li>Research Program of the National Institutes of</li> </ul>
24	five, six, seven, eight of the authors work at the	<sup>24</sup> Health, National Cancer Institute, Division of
25	National Cancer Institute?	<sup>25</sup> Cancer Epidemiology and Genetics, National Institute
		I
	Page 23	Page 25
1	Page 23 A. I haven't counted. I'll take your word for	Page 25 <sup>1</sup> of Environmental Health Science, the Iowa Cancer
1 2		
	A. I haven't counted. I'll take your word for	<sup>1</sup> of Environmental Health Science, the Iowa Cancer
2	A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four,	<ol> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> </ol>
2 3	A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> </ul>
2 3 4	A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> </ul>
2 3 4 5	A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> </ul>
2 3 4 5 6	A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> </ul>
2 3 4 5 6 7	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> </ul>
2 3 4 5 6 7 8	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> <li>why is formerly.</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> </ul>
2 3 4 5 7 8 9	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> <li>why is formerly.</li> <li>A. Okay.</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> <li>why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> <li>why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and</li> <li>Genetics, National Cancer Institute, so those eight</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> <li>why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and</li> <li>Genetics, National Cancer Institute, so those eight</li> <li>are National Cancer Institute employees or former</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Do you agree that National Institutes of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A. I haven't counted. I'll take your word for</li> <li>it. I'm I'm sure you did, one, two, three, four,</li> <li>five, six at the Occupational and Environmental</li> <li>Epidemiology Branch, and that's six, and then seven</li> <li>is the Division of Statistics at the NCI. I think</li> <li>seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and</li> <li>Environmental Epidemiology Branch, over on the next</li> <li>line, Michael Alavanjas, who is deceased, which is</li> <li>why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and</li> <li>Genetics, National Cancer Institute, so those eight</li> <li>are National Cancer Institute employees or former</li> <li>employees due to deceased?</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> <li>Q. And then two more are with the National</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> <li>funding for a study that the NIH views important.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> <li>Q. And then two more are with the National Institutes of Health, a epidemiology branch,</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> <li>funding for a study that the NIH views important.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> <li>Q. And then two more are with the National Institutes of Health, a epidemiology branch, National Institute of Environmental Health Sciences</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> <li>funding for a study that the NIH views important.</li> <li>You don't know what data you will generate from the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> <li>Q. And then two more are with the National Institutes of Health, a epidemiology branch, National Institute of Environmental Health Sciences at the National Institutes of Health?</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> <li>funding for a study that the NIH views important.</li> <li>You don't know what data you will generate from the</li> <li>funding, because when you fund a study, you don't</li> <li>really know what you are going to come with the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> <li>Q. And then two more are with the National Institutes of Health, a epidemiology branch, National Institute of Environmental Health Sciences at the National Institutes of Health?</li> <li>A. I see that, yes, DPS and CGP.</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> <li>funding for a study that the NIH views important.</li> <li>You don't know what data you will generate from the</li> <li>funding, because when you fund a study, you don't</li> <li>really know what you are going to come with the</li> <li>study. You just decide on funding the study upon</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. I haven't counted. I'll take your word for it. I'm I'm sure you did, one, two, three, four, five, six at the Occupational and Environmental Epidemiology Branch, and that's six, and then seven is the Division of Statistics at the NCI. I think seven, as you said you said seven?</li> <li>Q. And then formerly of Occupational and Environmental Epidemiology Branch, over on the next line, Michael Alavanjas, who is deceased, which is why is formerly.</li> <li>A. Okay.</li> <li>Q. Division of Cancer Epidemiology and Genetics, National Cancer Institute, so those eight are National Cancer Institute employees or former employees due to deceased?</li> <li>A. Okay. I mean, do you want me to count them? I'm fine. It could be seven, it could be eight. I see the majority of the authors are affiliated with the National Cancer Institute.</li> <li>Q. And then two more are with the National Institutes of Health, a epidemiology branch, National Institute of Environmental Health Sciences at the National Institutes of Health?</li> </ul>	<ul> <li>of Environmental Health Science, the Iowa Cancer</li> <li>Registry, and Iowa's Holden Comprehensive Cancer</li> <li>Center, as well as the NIEHS-funded Environmental</li> <li>Health Sciences Research Center at the University of</li> <li>Iowa." Correct?</li> <li>A. Correct.</li> <li>Q. So it's all government funding, mostly</li> <li>federal government funding, to the National</li> <li>Institutes of Health; correct?</li> <li>A. Yes, this information is not new. I mean,</li> <li>this has been the case since the inception of the</li> <li>Agricultural Health Study. There's nothing new</li> <li>here.</li> <li>Q. Do you agree that National Institutes of</li> <li>Health funding means that high standards and best</li> <li>practices are used to ensure that the data is</li> <li>accurate?</li> <li>A. It doesn't ensure the data is accurate. It</li> <li>just basically all what it does, it provides</li> <li>funding for a study that the NIH views important.</li> <li>You don't know what data you will generate from the</li> <li>funding, because when you fund a study, you don't</li> <li>really know what you are going to come with the</li> </ul>

	Page 26		Page 28
1		1	
2	public domain.	2	A. It was compelling to the peers that
	And that's what the NCI and the NIH did.		reviewed this paper that they wanted this to be
3	They funded the study and because of interests,	3	published. That's what you can tell from a peer
4	obviously, to the general public.	4	review process.
5	Q. Have you had an NIH-funded study before?	5	Q. By the way, do you know we had some
6	A. No, I'm not a basic scientist. They do	6	discussion at your prior deposition about the IARC
7	more for basic science.	7	Monograph being published in the Lancet. Do you
8	Q. I'm going to ask the question again,	8	know if IARC Monographs, when they're published in
9	because I think you focused on the conclusions and	9	Lancet are published there just by arrangement
10	whether the conclusions are accurate.	10	automatically or if there is actually a peer
11	A. Sure.	11	reviewed process first?
12	Q. My question is this, sir: Do you agree	12	A. I don't know, but I believe there is
13	that NIH funding and perhaps you don't know, but	13	actually a peer review.
14	do you agree that NIH funding means that high	14	Q. Based on
15	standards and best practices are used to ensure that	15	A. I don't I don't think there is any paper
16	data is accurate?	16	that gets into Lancet without peer review.
17	A. Yes.	17	Q. And what
18	Q. We talked the let's talk for a moment	18	A. I review for Lancet Haematology, and I'm
19	about peer review with regard to this study, sir.	19	not aware I mean, the Lancet there's no to
20	Peer review this went through a peer	20	my knowledge, there is no paper that gets published
21	review process, which means that it has been	21	in any of these journals without a review, JNCI or
22	reviewed by experts in the field in order to be	22	Lancet or Lancet Oncology or whatever it is. All of
23	accepted for publication; correct?	23	these are peer review. And I'm a peer reviewer for
24	A. Yes.	24	Lancet Haematology, so I know for a fact that all of
25	Q. The authors that we just reviewed are	25	these things get reviewed.
	<b>,</b>		
	Page 27		Page 29
1		1	
1 2	themselves epidemiology experts, and this would have	1 2	Whether there's an arrangement between
	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology		Whether there's an arrangement between you know, you could say the same for this, whether
2	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?	2	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the
2 3	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct? A. I presume so. I'm not really sure who	2 3	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get
2 3 4	<ul><li>themselves epidemiology experts, and this would have</li><li>been reviewed by peers who understand epidemiology</li><li>as well; correct?</li><li>A. I presume so. I'm not really sure who</li><li>reviewed the paper. I think it's again, we just</li></ul>	2 3 4	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not
2 3 4 5	<ul><li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li><li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is</li></ul>	2 3 4 5	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other
2 3 4 5	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct? A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who	2 3 4 5 6	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to
2 3 4 5 6 7	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct? A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really	2 3 4 5 6 7	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that.
2 3 4 5 6 7 8	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct? A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.	2 3 4 5 6 7 8	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay.
2 3 5 6 7 8 9	themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct? A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it. Q. The body of evidence was robust enough that	2 3 4 5 6 7 8 9	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know.
2 3 4 5 6 7 8 9 10	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they</li> </ul>	2 3 4 5 6 7 8 9 10	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether
2 3 4 5 6 7 8 9 10 11	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> </ul>	2 3 4 5 6 7 8 9 10 11	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 12 13	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers that reviewed this paper found merit that it it</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer review process or their arrangements with IARC?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers that reviewed this paper found merit that it it is worthy of publication in the JNCI. That's really</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer review process or their arrangements with IARC? A. The basis of that, that any journal out
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers that reviewed this paper found merit that it it is worthy of publication in the JNCI. That's really all that means.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer review process or their arrangements with IARC? A. The basis of that, that any journal out there usually have this as a particular standard.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers that reviewed this paper found merit that it it is worthy of publication in the JNCI. That's really all that means.</li> <li>Q. You would agree that the body of evidence</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer review process or their arrangements with IARC? A. The basis of that, that any journal out there usually have this as a particular standard. There's no reason to believe that the Lancet would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers that reviewed this paper found merit that it it is worthy of publication in the JNCI. That's really all that means.</li> <li>Q. You would agree that the body of evidence was robust enough that the peer reviewers accepted</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Whether there's an arrangement betweenyou know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that.</li> <li>Q. Okay.</li> <li>A. We don't know.</li> <li>Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review?</li> <li>A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said.</li> <li>Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer review process or their arrangements with IARC?</li> <li>A. The basis of that, that any journal out there usually have this as a particular standard. There's no reason to believe that the Lancet would deviate from the standard.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>themselves epidemiology experts, and this would have been reviewed by peers who understand epidemiology as well; correct?</li> <li>A. I presume so. I'm not really sure who reviewed the paper. I think it's again, we just don't know who reviewed it, but your presumption is probably accurate, that it will be sent to folks who understand the field, but we just don't know really who peer reviewed it.</li> <li>Q. The body of evidence was robust enough that it was accepted by the peer reviewers, whoever they were; correct?</li> <li>A. So acceptance of papers in the literature does not always necessarily reflect that the paper has no flaws or has or the body of evidence is irrefutable. There are many journals and many articles.</li> <li>So what this means, when a paper like this is accepted in the JNCI, it means that the reviewers that reviewed this paper found merit that it it is worthy of publication in the JNCI. That's really all that means.</li> <li>Q. You would agree that the body of evidence</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Whether there's an arrangement between you know, you could say the same for this, whether there's an arrangement between these authors and the JNCI where you expedite things and just get published and just do a peer review, which is not the same peer review that you would do for other papers, I'm not aware. I don't think we need to speculate that. Q. Okay. A. We don't know. Q. So just to be clear, you don't know whether IARC has an arrangement with Lancet that their publications are deemed peer reviewed internally and don't go through an additional Lancet peer review? A. What I have said is I don't believe any paper gets published in Lancet without being subjected to a peer review. That's what I' said. Q. But the basis okay. But the basis for that is not inside knowledge about the Lancet's peer review process or their arrangements with IARC? A. The basis of that, that any journal out there usually have this as a particular standard. There's no reason to believe that the Lancet would

	Page 30		Page 32
1		1 any paper that gets submitted for r	_
2	for example, just to give you just an example, the	<ul> <li>any paper that gets submitted for p</li> <li>should not know who wrote it or the</li> </ul>	-
3	paper was received for the first time on	should not know who wrote it of th	
4	August 22nd, 2017, when you look at the bottom. It was revised less than four weeks later. And as a	the dutions. So us a peer then, wh	•
5		the paper, you don't get blased by,	
6	peer reviewer for over 12 journals, for a journal	is nom a presugious place and unit	s name is great,
7	like the JNCI to have this reviewed and peer	so it must be a good paper.	
8	reviewed and submitted back in less than four weeks	Dut this is not the way things	0 0
9	is rather unusual for a rigorous peer review, and	so fight now you get decess for the	
10	then it was accepted within two weeks on	autions names and arrindroms and	
11	October 6th, 2017.	so whatever these authors de	
12	So I don't know how rigorous the peer	connict of interest is usually uvan	
13	review was here, but I can tell from you a Lancet	peers to rook at and make their ow	
14	perspective, it's very rigorous, and it's very	Q. Do they do peer reviewer	
15	difficult to get a paper in Lancet. The same should	whether the authors are free of that	
15	apply for JNCI, but I don't know what kind of	71. When I peer review, I usual	
	arrangement was here for a paper to be published in	sure - I don't know whether the p	
17	less than four weeks that has thousands of cases and	<ul> <li>this paper did. I don't know. I don</li> <li>reviewed it</li> </ul>	n't know who
18	so forth. So I don't know.	Te viewed it.	
19	Q. You would be equally skeptical if the	Q. Do peer review do the pe	
20	Lancet publication was that fast or faster; right?	20 peer reviewers of JNCI have looke 21 conclusions were actually support.	
21	A. I think if I'm going to put my skepticism	conclusions were actually support	ed by the evidence
22	hat, I could be skeptical about any paper, when I	that was provided.	
23	usually look at the received and revised. But I	A. Again, I don't know what th	
24	would maintain the hope that all of these journals,	It's hard for me to speculate what t	-
25	JNCI, Lancet, and all of them, maintain the peer	the peers that reviewed this paper,	who I don't know
	Page 31		Page 33
1	review process, the rigorous process, because if I'm	<sup>1</sup> who they are, what they looked at a	
0			and how they
2	going to wear my skepticism hat. I would be skeptic		
3	going to wear my skepticism hat, I would be skeptic about this one as well, in terms of peer review, and	<sup>2</sup> reached the conclusion of publishin	ng or rejecting or
	about this one as well, in terms of peer review, and	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> </ul>	ng or rejecting or w who they
3	about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> </ul>	ng or rejecting or w who they that they
3 4	about this one as well, in terms of peer review, and	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> </ul>	ng or rejecting or w who they that they
3 4 5	about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't know</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> </ul>	ng or rejecting or w who they that they paper, and I
3 4 5 6	about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed. Q. So you're not going to wear your skeptic	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony
3 4 5 6 7	about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed. Q. So you're not going to wear your skeptic hat for either one of them?	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony
3 4 5 7 8	<ul><li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li><li>Q. So you're not going to wear your skeptic hat for either one of them?</li><li>A. No, I won't.</li></ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony
3 4 5 7 8 9	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you youn</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC
3 4 5 7 8 9 10	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC
3 4 5 7 8 9 10 11	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC
3 4 5 7 8 9 10 11 12	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC
3 4 5 7 8 9 10 11 12 13	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually
3 4 5 7 8 9 10 11 12 13 14	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you youn</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the
3 4 5 7 8 9 10 11 12 13 14 15	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you youn</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free
3 4 5 7 8 9 10 11 12 13 14 15 16	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC t it applies to ew, you actually ther the authors were free ons actually were
3 4 5 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were provide."
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a lot of peer reviews, you know, all what you can look</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> <li>supported by the evidence that they</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were y provide." ng the Lancet
3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a lot of peer reviews, you know, all what you can look at is the declared conflict of interest, and, you</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> <li>supported by the evidence that they</li> <li>That's your testimony regarding</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were y provide." ng the Lancet
3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a lot of peer reviews, you know, all what you can look at is the declared conflict of interest, and, you know, oftentimes, you know, it's really tough to</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you youn</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> <li>supported by the evidence that they</li> <li>That's your testimony regarding</li> <li>peer review of the IARC Monograp</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were y provide." ng the Lancet oh. Does that apply
3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a lot of peer reviews, you know, all what you can look at is the declared conflict of interest, and, you know, oftentimes, you know, it's really tough to know all of these conflicts. But we try not to take</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you youn</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> <li>supported by the evidence that they</li> <li>That's your testimony regarding</li> <li>peer review of the IARC Monograp</li> <li>just as well?</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were y provide." ng the Lancet oh. Does that apply
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a lot of peer reviews, you know, all what you can look at is the declared conflict of interest, and, you know, oftentimes, you know, it's really tough to know all of these conflicts. But we try not to take it into consideration when we review the papers.</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> <li>supported by the evidence that they</li> <li>That's your testimony regarding</li> <li>peer review of the IARC Monograpion</li> <li>A. That should be the case for a</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were y provide." ng the Lancet oh. Does that apply
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>about this one as well, in terms of peer review, and I'm I'm not going to go there, because I believe this was peer reviewed and the other one was peer reviewed.</li> <li>Q. So you're not going to wear your skeptic hat for either one of them?</li> <li>A. No, I won't.</li> <li>Q. When they did the peer review of the NCI 2018 paper, the peer reviewers would have actually looked at the hypothesis being explored; correct?</li> <li>A. Yes, of course.</li> <li>Q. And they would have looked at whether the authors were free of bias; correct?</li> <li>A. Well, that's actually a tough thing, to be honest. And, again, as as somebody who does a lot of peer reviews, you know, all what you can look at is the declared conflict of interest, and, you know, oftentimes, you know, it's really tough to know all of these conflicts. But we try not to take it into consideration when we review the papers. And I can tell you, I've advocated for</li> </ul>	<ul> <li>reached the conclusion of publishin</li> <li>revising it and so forth. I don't kno</li> <li>are. I don't know what the process</li> <li>implemented. I did not review the</li> <li>don't know who reviewed it.</li> <li>Q. Okay. Let me read you your</li> <li>regarding the Lancet peer review of</li> <li>Monograph.</li> <li>A. Sure.</li> <li>Q. And tell me if you think that</li> <li>this peer review as well.</li> <li>A. Go ahead.</li> <li>Q. "So when you do a peer revi</li> <li>have to look at the hypothesis, whe</li> <li>methodology is sound, whether the</li> <li>of bias, and whether their conclusion</li> <li>supported by the evidence that they</li> <li>That's your testimony regarding</li> <li>peer review of the IARC Monograping</li> <li>A. That should be the case for a</li> <li>for any journal, whether it's Lancet</li> </ul>	ng or rejecting or w who they that they paper, and I r testimony f the IARC it applies to ew, you actually ther the authors were free ons actually were provide." ng the Lancet oh. Does that apply any peer review , JNCI, JCO.

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 11 of 48

	Page 34		Page 36
1	Exhibit 2, the JNCI 2018 study; correct?	1	us know how how powerful the paper they want in
2	A. It should apply, yes, but what you asked	2	order for us to approve it.
3	me, did it apply, and I said I don't know. But it	3	They also most journals will tell you
4	should apply for any peer review process. I agree	4	what the audience that they want. So for some of
5	with that hundred percent.	5	the journals I review for, they say, we want this to
6	Q. So it should apply, but you don't know if	6	apply for the general medical audience, not just
7	it did apply to JNCI. You also don't know if it did	7	oncologists, not just epidemiologists. So if you
8	apply to Lancet; right?	8	are a primary care physician you would be
9	A. Absolutely. But, I mean, again, like I	9	interested. And other journals say, we want
10	said, I'm trying not to wear my skepticism hat here,	10	something that is practice changing, something
11	and I would believe that, for the most part, these	11	fundamental.
12	papers get reviewed, and the reviewers, if they find	12	So you will have to know, you know, from
13	merit to the publication, they will accept. If they	13	the editor in chief usually and the editorial board
14	don't, they will reject. And that's really all what	14	what they are looking for, and if that's what they
15	we can say. We just don't know who they are and how	15	are looking for, I see no reason for it not to be
16	rigorous their review process was.	16	published in the JNCI. I would have approved it.
17	Q. Had you been asked to peer review this	17	Q. Okay. So I'm just going back to the
18	paper, would you have passed it for publication?	18	standards for peer review. You were talking about
19	A. Yes. It would be a conflict of interest.	19	you being a peer reviewer at your last deposition
20	Yes, I would have not reviewed.	20	and the standards that should be applied, you don't
21	Q. Let's say you had no conflict of interest.	21	know if they were applied by particular peer
22	Would you have approved it for publication?	22	reviews, but presumably you follow your own
23 24	A. I mean, I think this would be published	23 24	standards in peer review?
24	somewhere. Every paper has a journal, and every	24	A. Yeah, sure.
25	journal has to have papers. It's a matter whether	23	Q. So in saying that this should be approved
		1	
	Page 35		Page 37
1		1	
1 2	you think this is a JNCI or a JCO or some other less	1 2	for publication, you actually looked at the
			for publication, you actually looked at the hypothesis, at whether the authors were free of
2	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a	2	for publication, you actually looked at the
2 3	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.	2 3	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were
2 3 4	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be	2 3 4	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct? A. Yes, I would look at that. I mean, just
2 3 4 5	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I	2 3 4 5	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?
2 3 4 5 6 7 8	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a	2 3 4 5 6 7 8	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct? A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm
2 3 4 5 6 7 8 9	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little	2 3 4 5 6 7 8 9	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct? A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think
2 3 4 5 6 7 8 9 10	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe	2 3 4 5 6 7 8 9 10	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct? A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's
2 3 4 5 6 7 8 9 10 11	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific	2 3 4 5 6 7 8 9 10 11	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct? A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.
2 3 4 5 6 7 8 9 10 11 12	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of	2 3 4 5 6 7 8 9 10 11 12	for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct? A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine. Q. Yes, sir. And you have reviewed it, and
2 3 4 5 6 7 8 9 10 11 12 13	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had	2 3 4 5 6 7 8 9 10 11 12 12 13	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published. Q. Would you have approved it for publication	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study. So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication. The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published. Q. Would you have approved it for publication in JNCI?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.</li> <li>So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication.</li> <li>The question that I usually look at,</li> <li>whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.</li> <li>Q. Would you have approved it for publication in JNCI?</li> <li>A. The thing that the reason I don't know</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a longer follow-up. But all I said is, with longer</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.</li> <li>So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication.</li> <li>The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.</li> <li>Q. Would you have approved it for publication in JNCI?</li> <li>A. The thing that the reason I don't know how to answer this because I you know, for the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a longer follow-up. But all I said is, with longer follow-up, it is appropriate to report on additional</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.</li> <li>So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication.</li> <li>The question that I usually look at, whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.</li> <li>Q. Would you have approved it for publication in JNCI?</li> <li>A. The thing that the reason I don't know how to answer this because I you know, for the journals that I review for, I know exactly a priori</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a longer follow-up. But all I said is, with longer follow-up, it is appropriate to report on additional public and additional data and so forth.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.</li> <li>So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication.</li> <li>The question that I usually look at,</li> <li>whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.</li> <li>Q. Would you have approved it for publication in JNCI?</li> <li>A. The thing that the reason I don't know how to answer this because I you know, for the journals that I review for, I know exactly a priori the type of papers that they want, so I think the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a longer follow-up. But all I said is, with longer follow-up, it is appropriate to report on additional public and additional data and so forth.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.</li> <li>So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication.</li> <li>The question that I usually look at,</li> <li>whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.</li> <li>Q. Would you have approved it for publication in JNCI?</li> <li>A. The thing that the reason I don't know how to answer this because I you know, for the journals that I review for, I know exactly a priori the type of papers that they want, so I think the JNCI would tell usually the reviewers that we want</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a longer follow-up. But all I said is, with longer follow-up, it is appropriate to report on additional public and additional data and so forth.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>you think this is a JNCI or a JCO or some other less specialized type of paper, because to me this is a follow-up data on a previous study.</li> <li>So, yes, I think the follow-up should be published. I'm I would be very supportive I would have approved it for publication.</li> <li>The question that I usually look at,</li> <li>whether this type of paper should be published in a journal like the JNCI, because the JNCI has a little broader spectrum in terms of the audience, or maybe a more specialized journal, like more of a specific epidemiology journal, specific environmental type of journal. That would be the thing I would have had to think about when deciding, but I do believe it should be published, absolutely. With this long follow-up, I think it should be published.</li> <li>Q. Would you have approved it for publication in JNCI?</li> <li>A. The thing that the reason I don't know how to answer this because I you know, for the journals that I review for, I know exactly a priori the type of papers that they want, so I think the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>for publication, you actually looked at the hypothesis, at whether the authors were free of bias, and whether their conclusions actually were supported by the evidence that they provide; correct?</li> <li>A. Yes, I would look at that. I mean, just because the study is negative, it doesn't and I disagree with the conclusion, it doesn't mean I'm going to say it can't be published. I I think it's a very good to have a healthy debate. It's fine.</li> <li>Q. Yes, sir. And you have reviewed it, and you agree that the hypothesis is sound, the authors are free of bias, and the conclusions are supported by the evidence provided; correct?</li> <li>A. I never said the hypothesis is sound. In fact, I said there are so many flaws in this study that did not really change just because you have a longer follow-up. But all I said is, with longer follow-up, it is appropriate to report on additional public and additional data and so forth.</li> </ul>

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 12 of 48

	Dogo 29	Dage 40
	Page 38	Page 40
1	study. That's what you did.	<sup>1</sup> A. That's correct.
2	Q. Do you	<sup>2</sup> Q. "Second, the study essentially ended in
3	A. Just	<sup>3</sup> 2001, not accounting for the more expanded and
4	Q. Do you agree or disagree, sir, that the	<sup>4</sup> increased use of glyphosate after that year."
5	conclusions given in the NCI 2018 study are	<sup>5</sup> correct?
6	supported by the evidence provided?	<sup>6</sup> A. Correct.
7	A. The authors' conclusions are supported by	<sup>7</sup> Q. "Third, and most importantly," you write,
8	the evidence that they actually showed. The	<sup>8</sup> "significant dropout rate in study participants
9	evidence has a lot of flaws, and subsequently the	<sup>9</sup> where follow-up and full interviews were completed
10	conclusions will have a lot of problems. But, yes,	<sup>10</sup> for only 63 percent of individuals." Correct?
11 12	their conclusions is supported by the evidence that	11 A. Correct.
	they evaluated.	Q. Additionally, the Arris study relied on
13	Q. Looking at Exhibit 1, sir, your	sen reporting, when certainly resulted in some
14 15	supplemental expert report.	additional iniserassification of exposure ase.
16	A. Okay.	concer.
17	Q. In the first sentence of the analysis	A. Concet.
18	you have an introductory paragraph, which I'm	Q. And Eastly, in the authors own admission,
19	omitting the first sentence of your analysis, you	there was an increased risk of indupie invertina with
20	write, "I have read and analyzed this publication, and my overall opinion remains unchanged." Correct?	<ul> <li>glyphosate exposure." Correct?</li> <li>A. Correct, and acute leukemia as well.</li> </ul>
21	A. Correct.	21     Q. And the last one isn't a flaw in the study;
22	Q. Did your reading an analysis of this	22 correct?
23	publication, was that as in depth as it would be for	<sup>23</sup> A. Say again? I'm sorry.
24	a peer review?	24Q. You don't consider the last one to be a
25	A. Of course. I don't have to make the	<sup>25</sup> methodological flaw in the study; correct?
	A. Of course. I don't have to make the	includological naw in the study, concert.
	Page 39	Page 41
1	decision whether it's accepted or rejected. It's	<sup>1</sup> A. It's not a methodological flaw, no.
2	already published.	<sup>2</sup> Q. It is instead a point in favor of
3	Q. But the process that you went through in	<sup>3</sup> glyphosate-containing substances causing some type
4	reading and analyzing it was as thorough as the	<sup>4</sup> of cancer; right?
5	process that you would go through in reviewing a	<sup>5</sup> A. Correct.
б	draft for a publication; is that right?	<sup>6</sup> Q. As far as the one that you have identified
7	A. Yes, similar and similar to the body of	<sup>7</sup> as most important, the significant dropout rate,
8	literature I reviewed that we discussed in my	<sup>8</sup> would you please explain why you consider that to be
9	previous deposition.	<sup>9</sup> a flaw?
10	Q. You say, "There are several flaws in this	<sup>10</sup> A. You basically have missing data for
11	study that challenges the recent conclusions stated	<sup>11</sup> 40 percent almost 40 percent of individuals. I
12	by Andreotti, et al." Correct?	<sup>12</sup> mean, so I mean, it's very difficult, rather
13	A. It should have been "challenge," but, yes,	<sup>13</sup> impossible, to make a sound conclusion on a study
14	that is it.	that was powered with the assumption that you need
15	Q. And this is the complete list of flaws that	<sup>15</sup> to have all of these patients enrolled and <sup>16</sup> reporting and then 40 percent you don't have enough
16 17	you believe exist in this study; correct?	reporting, and then to percent you don't have chough
18	A. As I was able to discern.	information on.
19	Q. You don't have any other in mind right now;	So it's very difficult for file, us i sit
20	right? A. Not at this point.	<ul> <li>here, to figure out, how would you actually reach a</li> <li>conclusion when you don't have information proper</li> </ul>
20	*	<ul> <li>20 conclusion when you don't have information proper</li> <li>21 information for for that many patients.</li> </ul>
22	Q. Okay. We'll run through them, and then we will talk about them.	22 Q. Do you know the process that was used to
23	The first one was that the study was	<sup>23</sup> address that issue?
24	restricted to two states, North Carolina and Iowa,	A. When I looked at the paper, they talked
25	not representing other states; correct?	<sup>25</sup> about, you know, imputation of data, which, again,
	not representing outer states, context.	

	Page 42		Page 44
1		1	
1	I'm not an epidemiologist, but I don't believe that	1	study design. That's fine. It's great. But as a
2	this is an appropriate way of you're simply	2	clinician, when I have to take this into account,
3	guessing, I mean, pretty much. Imputation, to me,	3	it's very difficult to take it into account because
4	is you're trying to guess the data on 40 percent,	5	you have a lot of missing information.
5	almost 40 percent of folks we don't have information		If you take any type of trial in the
6 7	on. That's really what it is. It's just a fancier	6 7	oncology literature and you say, we've lost data on
	word for statistics statisticians to use who are		40 percent of patients, and these are the results,
8	doing imputation of data.	8	you will have a lot of eyebrows raised trying to
9	But at the end of the day, you're really	9	figure out how you can reach a conclusion with that
10	guessing, and you're trying to fill in the blanks.	10	many dropout rate.
11	And maybe if you're filling the blanks for	11	Again, I recognize there are other
12	5 percent, 7 percent of the folks that you did not	12	statistical methods to remedy all of these things.
13	have a follow-up, I would be tolerant of that. But	13	What I'm saying is, I don't agree with them because
14	when you're close to 40 percent, that's really	14	somehow the authors or the scientists or the folks
15	stretching it.	15	who are in charge of the AHS should have figured out
16	So whatever methodology, imputation, not	16	a way to assure low dropout rate, more follow-up,
17	imputation, it doesn't matter to me. If you have	17	more rigorous follow-up. That's really where the
18	40 percent that you are missing, and you are trying	18	rigor is, in the design of the study and how you
19	to fill in the blanks, it's just not going to	19	conduct the study, not after the fact.
20	resonate with me as a scientist and as a lymphoma	20	Q. So do you believe that imputation makes
21	specialist.	21	studies invalid for your consideration, regardless
22	Q. And you believe that the conclusions of the	22	of how rigorous or reliable epidemiologists believe
23	NCI 2018 study irrevocably depend upon the	23	imputation to be?
24	imputations of that missing data; correct?	24	A. I may not agree with what epidemiologists
25	A. Well, I think a lot of the conclusion is	25	come up with because I'm a clinician ultimately, and
	Page 43		Page 45
1	dependable on that, yes.	1	
2	Q. And if there was a portion that didn't	2	I will have to figure out how to counsel patients based on the available body of the literature.
3	depend on that, you would have no objection to that	3	What I said I didn't say it would be
4	conclusion; right?	4	invalid. I would say it makes any study
5	A. I would again, I would look at it. I	5	significantly less powerful. I am fully aware that
6	mean, I realize that they did a lot of analysis for	6	imputation is actually a statistical methodology and
7	folks who had the follow-up and other individuals	7	it does exist and people do it, so I can't dismiss a
8	who did not have the follow-up, and they tried to do	8	particular methodology that is being done by my
9	the imputation and they did the analysis only for	9	colleagues, whether they are statisticians or
10	patients who they had the information on. So I'm	10	epidemiologists.
11	fully aware of all of the analysis that they did.	11	What I said is when I see that process
12	And, again, it's what I said is that the	12	being applied to 40 percent, then I have issues with
13	missing data and the is not going to be, in my	13	that, and I question the significance of it. And I
14	mind, remedied by the imputation of data. You	14	don't know what the threshold where I don't have a
15	probably have to ask a lot of statisticians and	15	significance, but, you know, 5 to 10 percent, maybe
16	epidemiologists of this. But as a clinician, when	16	I have some tolerance to that. But 40 percent is
17	you tell me you have 40 percent missing and you did	17	too much for me to accept any type of a statistical
18	whatever you did to fill in the blanks, you've lost	18	method that tries to guess data because similar I
19	me as a clinician.	19	mean, again, you are guessing data and trying to
20	Q. Okay. So analyzing imputation and whether	20	fill in the blanks.
21	it can accurately fill gaps in data is beyond you?	21	Q. So at 40 percent it's actually
22	A. It's like funny accounting. You can always	22	A. 37 percent.
23	make the spreadsheet look nice. So, again,	23	Q 37 percent.
24	statisticians will have ways to try to figure out,	24	A. We are just saying 40 percent.
25	how can we actually remedy a flaw in a particular	25	Q. At 37 percent, you don't care what the
		1	

	Page 46	Page 48
1	epidemiologists have to say about the reliability of	<sup>1</sup> buzz word, it's a math formula and all of these
2	imputation or what the studies say about the	<sup>2</sup> things.
3	reliability of the AHS imputation process. It's not	<sup>3</sup> But at the end of the day, you are trying
4	good enough for you; is that what is that a fair	4 to basically guess. It's trying to guess to try to
5	description?	<ul> <li><sup>5</sup> fill in the blanks of information that is missing.</li> </ul>
6	A. I didn't say I don't care. I said I	<ul> <li>Maybe there's a math formula and all of this, but</li> </ul>
7	don't I believe the clinical significance of any	<ul> <li><sup>7</sup> but, ultimately, it is guessing.</li> </ul>
8	type of a study that has missing data of 37 percent	<sup>8</sup> You don't have the primary data. That's
9	or 40 percent is very questionable, and whatever	<ul> <li><sup>9</sup> what I'm trying to say. You actually do not have</li> </ul>
10	process you try to do as a statistician or as an	<sup>10</sup> the data. So you try to figure out how to fill in
11	epidemiologist to remedy that is going to be	<sup>11</sup> the blanks, so whatever method you do, it does not
12	questionable for me as a clinician because you are	<sup>12</sup> take away from the fact that you didn't have the
13	ultimately guessing the data based on data of	<sup>13</sup> data. Do you have the data on these 37 percent?
14	others.	14 No.
15	I mean, if you try to simplify to a layman	<sup>15</sup> Q. Do you agree with Dr. Neugut? You read his
16	person, what is imputation? It's guessing. I mean,	<sup>16</sup> deposition. Do you agree with Dr. Neugut that
17	at the end of the day, I'm not an epidemiologist or	<sup>17</sup> imputation is a standard and valuable method for
18	a statistician, so I have to explain things to	<sup>18</sup> dealing with unreported data in epidemiology
19	myself to understand them. Imputation of data is	<sup>19</sup> studies?
20	you take the data that's available for other folks	<sup>20</sup> A. I agree with that definition because that's
21	that you have data on and you try to guess data for	<sup>21</sup> what they try to do in epidemiology study, but just
22	people you don't have data on. How rigorous is	recall, we are talking 37 percent that is missing
23	that? It's not rigorous.	<sup>23</sup> here.
24	So, again, for somebody who treats patients	<sup>24</sup> Q. Do you agree with Dr. Neugut that that
25	and who have treated patients, that's really where I	<ul> <li><sup>25</sup> level of unreported data is comparable to very</li> </ul>
	and who have dealed patients, that is really where I	
	Page 47	Page 49
1	Page 47 question the type of methodology that's being done	Page 49 <sup>1</sup> reliable studies that have been done and relied on
1 2		
	question the type of methodology that's being done	<sup>1</sup> reliable studies that have been done and relied on
2	question the type of methodology that's being done to remedy the information.	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> </ul>
2 3	<ul><li>question the type of methodology that's being done to remedy the information.</li><li>Q. You understand that there's a mathematical</li></ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> </ul>
2 3 4	<ul><li>question the type of methodology that's being done to remedy the information.</li><li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on</li></ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> </ul>
2 3 4 5	<ul><li>question the type of methodology that's being done to remedy the information.</li><li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li></ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> </ul>
2 3 4 5 6	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on</li> <li>A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> </ul>
2 3 4 5 6 7	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> </ul>
2 3 5 6 7 8 9 10	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot Q. They apply a mathematical formula?</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> <li>down the top paragraph.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> <li>down the top paragraph.</li> <li>A. Under "Statistical Analysis"?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do you know there is</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>G on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> <li>down the top paragraph.</li> <li>A. Under "Statistical Analysis"?</li> <li>Q. No, above that one.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do you know there is</li> <li>A. I can evaluate as a clinician, okay? I'm</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> <li>down the top paragraph.</li> <li>A. Under "Statistical Analysis"?</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do you know there is</li> <li>A. I can evaluate as a clinician, okay? I'm not an epidemiologist, nor am I a statistician. But</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>G on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> <li>down the top paragraph.</li> <li>A. Under "Statistical Analysis"?</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> <li>Q. "For participants who did not complete the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do you know there is</li> <li>A. I can evaluate as a clinician, okay? I'm not an epidemiologist, nor am I a statistician. But as a clinician, as I told you, if you need to</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> <li>Q. "For participants who did not complete the</li> <li>follow-up questionnaire, 37 percent," do you see</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do you know there is</li> <li>A. I can evaluate as a clinician, okay? I'm not an epidemiologist, nor am I a statistician. But as a clinician, as I told you, if you need to explain what imputation to a patient or a family</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q and I'm about three quarters of the way</li> <li>down the top paragraph.</li> <li>A. Under "Statistical Analysis"?</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> <li>Q. "For participants who did not complete the</li> <li>follow-up questionnaire, 37 percent," do you see</li> <li>that?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>question the type of methodology that's being done to remedy the information.</li> <li>Q. You understand that there's a mathematical formula which is adjusted and tweaked based on A. I'm pretty I'm pretty sure.</li> <li>Q based on empirical sampling of the data?</li> <li>A. Pretty sure, a lot of math and a lot of squares and roots and all of these things. Like I said, like funny accounting.</li> <li>Q. And you understand that nobody guesses anything?</li> <li>A. There's a lot</li> <li>Q. They apply a mathematical formula?</li> <li>A. There's a lot of guessing.</li> <li>Q. How do you know?</li> <li>A. In imputation, there's a lot of guessing.</li> <li>I mean</li> <li>Q. Sir, you just explained you don't know how to evaluate imputation as an epidemiologist. How do you know there is</li> <li>A. I can evaluate as a clinician, okay? I'm not an epidemiologist, nor am I a statistician. But as a clinician, as I told you, if you need to</li> </ul>	<ul> <li>reliable studies that have been done and relied on</li> <li>by clinicians in the field?</li> <li>A. I can't comment on that, because I have not</li> <li>reviewed all of that.</li> <li>Q. Have you started seeing patients since our</li> <li>last deposition, sir?</li> <li>A. I'm not seeing patients now because of my</li> <li>travel schedule, but I have a couple of things that</li> <li>I'm exploring.</li> <li>Q. How long has it been since you've seen</li> <li>patients?</li> <li>A. Sixteen months.</li> <li>Q. In Exhibit 2, sir, the NCI 2018 report</li> <li>A. Okay.</li> <li>Q on Page 2, I'm in the second column</li> <li>A. Okay.</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> <li>Q. No, above that one.</li> <li>A. Okay.</li> <li>Q. "For participants who did not complete the</li> <li>follow-up questionnaire, 37 percent," do you see</li> </ul>

#### Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 15 of 48

	Case 3:16-md-02741-VC Document 2		
	Page 50		Page 52
1	Q. Okay. "For participants who did not	1	the process is. All what I need to know is you lost
2	complete the follow-up questionnaire, 37 percent, a	2	data on 37 to 40 percent of folks.
3	data-driven multiple imputation procedure was used	3	Q. Okay. So just once you hear that the data
4	to impute pesticide use since enrollment."	4	has been lost on 37 to 40 percent, that's enough for
5	Did I read that correctly?	5	you?
6	A. You read it correctly.	6	A. That's more than enough, yes.
7	Q. Do you know what "multiple imputation" is?	7	Q. And is that enough for you to discount a
8	A. I presume it's several formulas that, you	8	study entirely and not give it any weight, sir?
9	know, you use the second formula based on the output	9	A. As I said, the study is published. It's
10	of the first formula, and so forth.	10	been published before, several other manuscripts
11	Q. I presume you've never done imputation	11	from the AHS have been published, as you said in the
12	yourself or reviewed or assessed imputation	12	beginning. So it doesn't mean again, it
13	yourself; is that right?	13	becomes it's a weakness of the study, it's a flaw
14	A. That's right, I have not.	14	of a study.
15	Q. Under "Statistical Analysis," I'm about	15	Sadly, every study has strengths and
16	nine or ten lines down, "We use Poisson regression."	16	weaknesses, and so we can't we can't dismiss the
17	Do you see that sentence?	17	fact that this is a major weakness of this study. I
18	A. I see that, yes.	18	don't dismiss it, because I don't dismiss anything
19	Q. "We use Poisson regression to calculate	19	in the body of literature, but I may it will make
20	incidence rate ratios and 95 percent confidence	20	me question and have issues with the conclusions of
21	intervals and Proc Mianalyze," that's a computer	21	this particular study.
22	program, "to obtain the appropriate variants for the	22	Q. It causes let's put it this way, sir, I
23	imputed data."	23	understand you said that you would approve it for
24	And then there's a Statistics Institute	24	publication
25	citation for Proc Mianalyze.	25	A. Uh-hum.
	Page 51		Page 53
1		1	
1 2	Page 51 Are you able to explain that description of the imputation procedure, sir?	1 2	Page 53 Q and that the conclusions of the authors were supported by the evidence that they provided,
	Are you able to explain that description of		Q and that the conclusions of the authors
2	Are you able to explain that description of the imputation procedure, sir?	2	Q and that the conclusions of the authors were supported by the evidence that they provided,
2 3	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that	2 3	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its
2 3 4	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no.	2 3 4	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm
2 3 4 5	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that	2 3 4 5	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you
2 3 4 5 6	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which	2 3 4 5 6	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.
2 3 4 5 6 7	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout	2 3 4 5 6 7	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma. And as to that analysis, your own analysis
2 3 4 5 6 7 8 9	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I	2 3 4 5 6 7 8 9 10	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma. And as to that analysis, your own analysis of the weight of the evidence, you've given no
2 3 4 5 6 7 8 9 10 11	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing.	2 3 4 5 6 7 8 9 10 11	Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma. And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?
2 3 4 5 6 7 8 9 10 11 12	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all;</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing, but you've lost me when you say 37 to 40 percent of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> <li>Q. Page 3 of 8, and I'm looking at the first</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing, but you've lost me when you say 37 to 40 percent of folks you lost the primary data on.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> <li>Q. Page 3 of 8, and I'm looking at the first full paragraph on this page, the full paragraph</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing, but you've lost me when you say 37 to 40 percent of folks you lost the primary data on. So, yes, I applaud you for trying to remedy	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> <li>Q. Page 3 of 8, and I'm looking at the first full paragraph on this page, the full paragraph above "Results, and here they're discussing some of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing, but you've lost me when you say 37 to 40 percent of folks you lost the primary data on. So, yes, I applaud you for trying to remedy this, and there's probably a lot of methodology to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> <li>Q. Page 3 of 8, and I'm looking at the first full paragraph on this page, the full paragraph above "Results, and here they're discussing some of the procedures that they used to assess whether</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing, but you've lost me when you say 37 to 40 percent of folks you lost the primary data on. So, yes, I applaud you for trying to remedy this, and there's probably a lot of methodology to do so. It does not take away from the fact that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> <li>Q. Page 3 of 8, and I'm looking at the first full paragraph on this page, the full paragraph above "Results, and here they're discussing some of the procedures that they used to assess whether imputation changed or didn't change the outcome of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Are you able to explain that description of the imputation procedure, sir? A. I'm unable to explain that that particular procedure, no. Q. I assume you don't have a criticism of that particular procedure because you don't understand it; is that fair? A. So my criticism let me rephrase which was very, very clear. My criticisms are the dropout and the loss of follow-up. That's that's what I was critiquing. In any study, when you don't have data on 37 percent primary data, on 37 percent of study participants, that's the biggest critique. And what I said, whatever process you do to remedy this, whether imputation or something else, I have a problem with as a clinician. I may not know exactly what the procedure is or the process you're doing, but you've lost me when you say 37 to 40 percent of folks you lost the primary data on. So, yes, I applaud you for trying to remedy this, and there's probably a lot of methodology to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q and that the conclusions of the authors were supported by the evidence that they provided, and so on, you approve you approve of its existence. But I'm asking you something else. I'm asking you about your own personal analysis that you made as to whether the evidence supports the conclusion that glyphosate-containing substances cause non-Hodgkin lymphoma.</li> <li>And as to that analysis, your own analysis of the weight of the evidence, you've given no weight to this study; is that right?</li> <li>A. I've given it weight that it exists, but it didn't change my opinion, because all what this did is it's reported an additional ten years of follow-up for an already flawed study.</li> <li>Q. It didn't change your opinion at all; right?</li> <li>A. Of course not.</li> <li>Q. Page 3 of 8, and I'm looking at the first full paragraph on this page, the full paragraph above "Results, and here they're discussing some of the procedures that they used to assess whether</li> </ul>

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 16 of 48

		1	
	Page 54	Page 56	5
1	Q. It says, "In addition, we conducted	<sup>1</sup> A. You "in primary analyses, we include	
2	sensitivity analyses to evaluate the impact of	<sup>2</sup> exposure" that's what you're talking about?	
3	including additional exposure information," i.e.,	<sup>3</sup> Q. Yeah, in that paragraph.	
4	imputation; right?	<sup>4</sup> A. Yes, I see the paragraph.	
5	A. Yes.	<sup>5</sup> Q. And in that paragraph they describe, again,	
б	Q. "First, we calculated risk estimates	<sup>6</sup> all three of the sensitivity checks that they used	
7	including cancer incidence data for the complete	<sup>7</sup> to assess the imputation procedure; right?	
8	follow-up period with only exposure information	<sup>8</sup> A. I think they just repeat the same. I'm not	
9	collected at enrollment." Right?	<sup>9</sup> sure how I'm not sure how much in depth they	
10	A. I see that, yes.	<sup>10</sup> describe it. They talk about conducting several	
11	Q. So what that means, sir, is that they	<sup>11</sup> sensitivity analyses, evaluating the impact of	
12	there were two questionnaires that were done in this	<sup>12</sup> including exposure data, et cetera. So they did	
13	study, and the dropout that you are criticizing	<sup>13</sup> repeat what they said to conclude the results. I	
14	happened between the first questionnaire and the	<sup>14</sup> see that.	
15	second questionnaire; right?	<sup>15</sup> Q. Well, they assessed the data for based	
16	A. Yes, the first questionnaire was done at	<sup>16</sup> just on information collected from the first	
17	enrollment.	<sup>17</sup> questionnaire. They assessed the data for people	
18	Q. And 37 percent of people who answered the	<sup>18</sup> who answered just for people who answered both	h
19	first questionnaire did not answer the second;	<sup>19</sup> questionnaires, and they truncated the follow-up	
20	correct?	<sup>20</sup> period to 2005. Three different checks on the data	;
21	A. Correct.	<sup>21</sup> correct?	
22	Q. So the first thing that they did to	A. I see that, yes.	
23	check as a check on the imputation procedure was	Q. And what they reported for all three is	
24 25	to run all the numbers and the data just with the	that they still found no association between slyphosate-containing substances and non-Hodgkin	
23	people who completed both questionnaires; correct?	<sup>25</sup> glyphosate-containing substances and non-Hodgkin	n
	Page 55	Page 57	7
1	Page 55	Page 57	7
1	A. I see that.	<sup>1</sup> lymphoma; correct?	7
2	<ul><li>A. I see that.</li><li>Q. The second thing that they did is, "We</li></ul>	<ol> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> </ol>	7
2 3	<ul><li>A. I see that.</li><li>Q. The second thing that they did is, "We examined associations excluding imputed exposure</li></ul>	<ol> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> </ol>	
2	<ul><li>A. I see that.</li><li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who</li></ul>	<ol> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> </ol>	
2 3 4	A. I see that. Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up	<ol> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> </ol>	
2 3 4 5	A. I see that. Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> </ul>	
2 3 4 5	A. I see that. Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires." That's the one I just described; right?	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> </ul>	
2 3 4 5 6 7	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned,</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> </ul>	
2 3 4 5 6 7 8	A. I see that. Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires." That's the one I just described; right?	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> </ul>	
2 3 4 5 7 8 9	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> </ul>	
2 3 5 7 8 9 10	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> </ul>	st
2 3 4 5 6 7 8 9 10 11	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgking</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than exist</li> <li>in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>N. If you put all the epidemiology data that</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> <li>Q. If you put all the epidemiology data that</li> <li>you rely on together, there are fewer exposed cases</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> <li>Q. If you turn to Page 4, sir. I'm in</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> <li>Q. If you put all the epidemiology data that</li> <li>you rely on together, there are fewer exposed cases</li> <li>than for any of these sensitivity checks alone;</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> <li>Q. If you turn to Page 4, sir. I'm in Column 1.</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> <li>Q. If you put all the epidemiology data that</li> <li>you rely on together, there are fewer exposed cases</li> <li>than for any of these sensitivity checks alone;</li> <li>correct?</li> </ul>	st
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> <li>Q. If you turn to Page 4, sir. I'm in Column 1.</li> <li>A. Okay.</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> <li>Q. If you put all the epidemiology data that</li> <li>you rely on together, there are fewer exposed cases</li> <li>than for any of these sensitivity checks alone;</li> <li>correct?</li> <li>A. I really have to do the math. Honestly, I</li> </ul>	n
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> <li>Q. If you turn to Page 4, sir. I'm in Column 1.</li> <li>A. Okay.</li> <li>Q. In the long paragraph starting "in primary</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> <li>Q. If you put all the epidemiology data that</li> <li>you rely on together, there are fewer exposed cases</li> <li>than for any of these sensitivity checks alone;</li> <li>correct?</li> <li>A. I really have to do the math. Honestly, I</li> <li>don't know. But if somebody has done the math and</li> </ul>	n
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> <li>Q. If you turn to Page 4, sir. I'm in Column 1.</li> <li>A. Okay.</li> <li>Q. In the long paragraph starting "in primary analyses," they describe all three of these</li> </ul>	<ul> <li>lymphoma; correct?</li> <li>A. That's what they found.</li> <li>Q. And all three of those sensitivity checks</li> <li>involved more data and more exposed cases than existing in the rest of the case control epidemiology,</li> <li>correct, put together?</li> <li>A. It's more than the DeRoos trial, the</li> <li>update, yes. This is more of the update.</li> <li>Q. I'm not talking about the DeRoos. I'm</li> <li>talking about the case control studies like Eriksson</li> <li>that you rely on for your conclusion that</li> <li>glyphosate-containing substances cause non-Hodgkin</li> <li>lymphoma?</li> <li>A. I rely on more than just Eriksson. I rely</li> <li>on other things. I rely on Eriksson and other</li> <li>epidemiology data and the IARC and so forth. It's</li> <li>not just Eriksson.</li> <li>Q. If you put all the epidemiology data that</li> <li>you rely on together, there are fewer exposed cases</li> <li>than for any of these sensitivity checks alone;</li> <li>correct?</li> <li>A. I really have to do the math. Honestly, I</li> <li>don't know. But if somebody has done the math and</li> <li>this is what you came up with, there is no reason</li> </ul>	n
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. I see that.</li> <li>Q. The second thing that they did is, "We examined associations excluding imputed exposure data, thereby limiting analyses to participants who completed both the enrollment and follow-up questionnaires."</li> <li>That's the one I just described; right?</li> <li>A. I think that's the one you just mentioned, they actually calculated the data based on the folks who answered both.</li> <li>Q. And, "Finally, because the last exposure information was collected between 1999 and 2005, we truncated follow-up at 2005 to coincide with this exposure period." Correct?</li> <li>A. Correct.</li> <li>Q. So what they did in the last one is shortened the follow-up period to match with the questionnaire data that had been collected; correct?</li> <li>A. Yes.</li> <li>Q. If you turn to Page 4, sir. I'm in Column 1.</li> <li>A. Okay.</li> <li>Q. In the long paragraph starting "in primary</li> </ul>	1lymphoma; correct?2A. That's what they found.3Q. And all three of those sensitivity checks4involved more data and more exposed cases than exist5in the rest of the case control epidemiology,6correct, put together?7A. It's more than the DeRoos trial, the8update, yes. This is more of the update.9Q. I'm not talking about the DeRoos. I'm10talking about the case control studies like Eriksson11that you rely on for your conclusion that12glyphosate-containing substances cause non-Hodgkin13lymphoma?14A. I rely on more than just Eriksson. I rely15on other things. I rely on Eriksson and other16epidemiology data and the IARC and so forth. It's17not just Eriksson.18Q. If you put all the epidemiology data that19you rely on together, there are fewer exposed cases20than for any of these sensitivity checks alone;21A. I really have to do the math. Honestly, I23don't know. But if somebody has done the math and	n

	Page 58		Page 60
1	that math. I haven't I haven't done and looked	1	A. We don't we don't know. There's no
2	at all of the cases that were reported in all of the	2	reason. We don't know one way or the other. That's
3	papers I looked and compared the number of cases	3 4	my point about the guessing part. I mean, we are
4 5	here. It's not difficult to do, but I haven't done	5	already just the line of questioning back and
6	it.	6	forth, it just tells us we are trying to guess what
7	Q. Now, in doing an imputation in applying	7	happened.
8	an imputation formula, sir, an imputation formula would only bias results if the nonresponders, the	8	Q. All three of the sensitivity analyses that were performed in the JNCI 2018 article could
9	people who didn't respond to the second	9	themselves be published as a set of data that is
10	questionnaire who did respond to the first, if their	10	more powerful and robust and larger in volume than
11	exposure to glyphosate was systematically different	11	the entire body of case control studies that you
12	than the responders' exposure to glyphosate;	12	rely on; correct?
13	correct?	13	A. I think you this is you asked me this
14	A. I'm sorry. Can you repeat the question?	14	question before. I said I haven't done the count.
15	Q. Yes. When when there's a piece of	15	There's no reason for me to think it's not. If
16	missing data in an epidemiology study I will	16	you've done the count and you're accurate, then it's
17	start out more generally. When there is a piece of	17	probably right. I just have not counted this
18	missing data in a epidemiology study and that piece	18	myself.
19	is filled in somehow, it's only going to bias the	19	Q. So they looked at the data three different
20	results in a particular direction if the filling in	20	ways without imputation, and looking at that data
21	isn't random, doesn't contain random error.	21	all three of those ways without imputation yielded
22	Like, if you say, this person had one more	22	the same overall result, no association between
23	exposure day than he really had, and this person had	23	glyphosate-containing substances and non-Hodgkin
24	one less exposure day than he really had and you	24	lymphoma; correct?
25	make little mistakes that cancel out, it doesn't	25	A. That's what they found, yes.
	Page 59		Page 61
1	affect your final result. But if you tend to make	1	Q. So with regard to those sensitivity
2	mistakes all in the same direction, then it would	2	analyses and those conclusions that there was no
3	tend to affect your final result; right?	3	association between glyphosate-containing substances
4	A. Oh, I see I see what you're saying. I	4	and non-Hodgkin lymphoma, your imputation criticism
5	think if the I see what you're saying. I think	5	doesn't apply; right?
6	if the if the remedy, whatever that remedy which	6	A. How so? I'm confused how my again, let
7	I think we I already said I'm not a big fan of	7	me just repeat. I never critiqued any of the
8	any type of remedy when you have that high of a	8	processes that the epidemiologists or statisticians
9	dropout. But if the remedy is random, as you are	9	do, whether it's imputation or some other fancy
10	mentioning, it hopefully should even out that you	10	terminology.
11	don't have one bias towards one direction or	11	What I critiqued was specifically the high
12	another.	12	dropout rate in a study that is prospective, and I
13	Q. And in order to that's the difference	13	said, rigorous ways of assuring proper follow-up of
14 15	between differential and nondifferential A. Yes.	14 15	these folks that were enrolled should have been
16		16	applied if you want to reach the proper answer.
17	Q bias; right? To have differential bias, the probability	17	There is no reason to wait years until you get
18	of someone responding to the second questionnaire	18	questionnaires. It could be ways of having more
19	would have to be associated with their glyphosate	19	rigorous follow-up. I don't critique particular processes that
20	exposure and their health outcome; right?	20	I'm not fully familiar with or I don't apply as a
21	A. Yes.	21	clinician, but a dropout rate of that high is what I
22	Q. And there's no reason to suppose that	22	critiqued.
23	someone's likelihood of responding to the second	23	Q. Take a look, sir, at Page 4 of 8.
24	questionnaire is related to their exposure to	24	A. Yes.
25	glyphosate and their health outcome; correct?	25	Q. The first column.

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 18 of 48

	Page 62		Page 64
1	A. Yes.	1	associated with non-Hodgkin lymphoma, point estimate
2	Q. And I am let's go to the second batch of	2	below 1.0; correct?
3	numbers, just to orient yourself.	3	A. The confidence interval of 0.63 to 1.27.
4	A. Table 2?	4	That's where you're reading?
5	Q. No, sir. There are some numbers in that	5	Q. Yes.
6	paragraph.	6	A. Yes, I see that.
7	A. Okay. Sure, no problem.	7	Q. So, again, they found the same overall
8	Q. Confidence interval and so on. And above	8	result of no association between
9	that they describe their first sensitivity analysis.	9	glyphosate-containing substances and non-Hodgkin
10	They say, "We conducted several sensitivity	10	lymphoma and, again, without imputation; right?
11	analyses," and then the first one they describe is,	11	A. I see that.
12	"When restricted to exposure reported at	12	Q. So your imputation criticism doesn't apply
13	enrollment," i.e., to just the data collected in the	13	to that point estimate either; right?
14	first questionnaire, "the rate ratio and the highest	14	A. Not for this one, no.
15	exposure quartile was 0.82."	15	Q. And for the third, when they truncated the
16	A. Sorry, I don't know where he's reading.	16	follow-up period to 2005 to be concurrent with the
17	Where are you reading? Oh, the second paragraph,	17	latest exposure information, again, removing the
18	okay. I thought it's the first paragraph, okay.	18	need to do imputation, they found a relative risk
19	Q. Yes, sir. I will start over. "We	19	again spanning one with a point estimate of 1.04;
20	conducted several sensitivity analyses." That's	20	correct?
21	what we've been talking about	21	A. 1.04, yes, I see that.
22	A. Yes, yes.	22	Q. And the confidence interval was it was
23	Q for a little while now. And the first	23	not significant; correct, sir?
24	one they describe is, "When restricted to exposure	24	A. Crosses the one, yes.
25	reported at enrollment" in other words, the data	25	Q. Yes.
	reported a emonitorit monor words, are data		
	Page 63		Page 65
1	reported in the first questionnaire; correct?	1	So, again, we have the same overall outcome
2	A. Yes.	2	of no association between glyphosate-containing
3	Q "the patterns of risk were the same as	3	substances and non-Hodgkin lymphoma in this third
4	analyses that considered glyphosate use reported at	4	way of looking at the data without imputation;
5	enrollment and follow-up."	5	right?
б	So they found the same patterns without	6	A. As I said, this study has shown no
7	imputation restricting to the first questionnaire as	7	association mirroring the conclusions from the
8	with imputation; correct?	8	DeRoos study in '05. I am
9	A. Yes.	9	Q. So both with and without imputation, the
10		1.0	
	Q. And then they gave the data for that, which	10	NCI 2018 study shows no association between
11	Q. And then they gave the data for that, which is a confidence interval straddling one and a point	10	NCI 2018 study shows no association between glyphosate-containing substances and non-Hodgkin
11 12		11 12	glyphosate-containing substances and non-Hodgkin lymphoma; right?
	is a confidence interval straddling one and a point	11	glyphosate-containing substances and non-Hodgkin
12 13 14	is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma;	11 12	glyphosate-containing substances and non-Hodgkin lymphoma; right?
12 13	is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?	11 12 13 14 15	<ul><li>glyphosate-containing substances and non-Hodgkin</li><li>lymphoma; right?</li><li>A. The NCI study shows no association,</li><li>correct.</li><li>Q. That's with and without imputation; right?</li></ul>
12 13 14	<ul><li>is a confidence interval straddling one and a point</li><li>estimate of below one for non-Hodgkin lymphoma;</li><li>correct?</li><li>A. Yes.</li><li>Q. And that reported data does not involve</li><li>imputation; right?</li></ul>	11 12 13 14	<ul><li>glyphosate-containing substances and non-Hodgkin</li><li>lymphoma; right?</li><li>A. The NCI study shows no association,</li><li>correct.</li></ul>
12 13 14 15 16 17	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> </ul>	11 12 13 14 15 16 17	<ul><li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li><li>A. The NCI study shows no association, correct.</li><li>Q. That's with and without imputation; right?</li><li>A. With and without amputation imputation, sorry.</li></ul>
12 13 14 15 16 17 18	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't</li> </ul>	11 12 13 14 15 16 17 18	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your</li> </ul>
12 13 14 15 16 17 18 19	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> </ul>	11 12 13 14 15 16 17 18 19	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your</li> </ul>
12 13 14 15 16 17 18 19 20	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> <li>A. For this particular one, there was no</li> </ul>	11 12 13 14 15 16 17 18 19 20	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your criticisms. We just talked at some length about the</li> </ul>
12 13 14 15 16 17 18 19 20 21	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> <li>A. For this particular one, there was no imputation of the data, that's correct.</li> </ul>	11 12 13 14 15 16 17 18 19 20 21	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your criticisms. We just talked at some length about the third of your criticisms, imputation.</li> </ul>
12 13 14 15 16 17 18 19 20 21 22	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> <li>A. For this particular one, there was no imputation of the data, that's correct.</li> <li>Q. And, similarly, their second sensitivity</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your criticisms. We just talked at some length about the third of your criticisms, imputation.</li> <li>But the first criticism that you had of the</li> </ul>
12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> <li>A. For this particular one, there was no imputation of the data, that's correct.</li> <li>Q. And, similarly, their second sensitivity analysis, sir, where they limited the analysis to</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your criticisms. We just talked at some length about the third of your criticisms, imputation.</li> <li>But the first criticism that you had of the study was that the study at its core was restricted</li> </ul>
12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> <li>A. For this particular one, there was no imputation of the data, that's correct.</li> <li>Q. And, similarly, their second sensitivity analysis, sir, where they limited the analysis to the 34,698 participants who completed both</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your criticisms. We just talked at some length about the third of your criticisms, imputation.</li> <li>But the first criticism that you had of the study was that the study at its core was restricted to two states, North Carolina and Iowa; right?</li> </ul>
12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>is a confidence interval straddling one and a point estimate of below one for non-Hodgkin lymphoma; correct?</li> <li>A. Yes.</li> <li>Q. And that reported data does not involve imputation; right?</li> <li>A. I don't think it does, no.</li> <li>Q. So your criticism of imputation doesn't apply to that piece of data; right?</li> <li>A. For this particular one, there was no imputation of the data, that's correct.</li> <li>Q. And, similarly, their second sensitivity analysis, sir, where they limited the analysis to</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>glyphosate-containing substances and non-Hodgkin lymphoma; right?</li> <li>A. The NCI study shows no association, correct.</li> <li>Q. That's with and without imputation; right?</li> <li>A. With and without amputation imputation, sorry.</li> <li>Q. Your expert I'm going to go back to your expert report, sir, and the first of your criticisms. We just talked at some length about the third of your criticisms, imputation.</li> <li>But the first criticism that you had of the study was that the study at its core was restricted</li> </ul>

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 19 of 48

		1	
	Page 66		Page 68
1	Q. Do you believe that whether	1	that whether glyphosate causes non-Hodgkin's
2	glyphosate-containing substances caused NHL,	2	lymphoma varies by region?
3	non-Hodgkin lymphoma, varies by region?	3	A. It's not necessarily the region. It's
4	A. We don't know the answer to that.	4	really the practice patterns and how people utilize
5	Q. You think that it might vary by region?	5	the compound that may vary by region. I think you
6	A. We don't know the answer to that. What I	6	are mixing things.
7	said is that, you know, you have a study that is	7	So I don't know how farmers in Iowa are
8	done at two states out of so many other states. So	8	using glyphosate compared to farmers in South
9	it's I recognize the probably the prevalence	9	Carolina or in Florida or in Arkansas. So I think
10	of farmers and so forth, and that's why probably	10	the region is not necessarily just the fact, you
11	North Carolina and Iowa were selected. But it begs	11	have a lot of issues that may vary by region. It
12	the question, does this really represent everything	12	could be the training. It could be how people use
13	else across the U.S., and I don't believe we have an	13	PPEs, could be how folks understand the compound.
14	answer to that.	14	That you can you don't know. And we really can't
15	Q. The criticism that it only that it's	15	control for.
16	restricted to two states, North Carolina and Iowa,	16	So practice patterns of farmers and folks
17	is a valid criticism only if, whether Roundup causes	17 18	and people who apply pesticides in North Carolina
18 19	non-Hodgkin lymphoma varies by region; is that fair?	19	and Iowa may not apply to what people do at other
20	A. It's fair. And I said I don't we don't	20	states. And, hence, I don't know, you know, how
20	know the answer to that.	20	would you really make a conclusion based on the
22	Q. Okay.	22	study that just looks only at two states.
23	A. But I think it's it's, obviously, when	23	Q. Might the data from the Eriksson study in
24	you have something that is very restricted to two	24	Scandinavia be valid only in Scandinavia? A. I think you always have to look and ask
25	locations, you'll have to ask the question given the ubiquitous use of glyphosate across the U.S., so	25	yourself whether certain things that are done
	ubiquitous use of gryphosate across the 0.5., so		you sen whether certain timigs that are done
		1	
	Page 67		Page 69
1		1	
1 2	that's really why you have to ask that question.	1 2	outside the U.S. apply to the U.S., if something
	that's really why you have to ask that question. Q. Okay. I just		outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you
2	<ul><li>that's really why you have to ask that question.</li><li>Q. Okay. I just</li><li>A. It's not</li></ul>	2	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you
2 3	<ul><li>that's really why you have to ask that question.</li><li>Q. Okay. I just</li><li>A. It's not     (Unreportable cross-talk.)</li></ul>	2 3	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be
2 3 4	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used</li> </ul>	2 3 4	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a
2 3 4 5	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used only in North Carolina and Iowa. So if you are</li> </ul>	2 3 4 5	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature,
2 3 4 5	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used</li> </ul>	2 3 4 5 6	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a
2 3 4 5 6 7	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not <ul> <li>(Unreportable cross-talk.)</li> </ul> </li> <li>A. Glyphosate is glyphosate is not used only in North Carolina and Iowa. So if you are doing really a prospective study and you are looking</li> </ul>	2 3 4 5 6 7	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we
2 3 4 5 6 7 8	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes</li> </ul>	2 3 4 5 6 7 8	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at.
2 3 4 5 7 8 9	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A</li> </ul>	2 3 4 5 6 7 8 9	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the
2 3 5 6 7 8 9 10	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we</li> </ul>	2 3 4 5 6 7 8 9 10	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         </li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         varies by region?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do at other states, because some of this may again,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         varies by region?         A. Have I heard anyone say that?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do at other states, because some of this may again, related to training, to how you apply the pesticide,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         varies by region?         A. Have I heard anyone say that?         Q. Yes.         </li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do at other states, because some of this may again, related to training, to how you apply the pesticide, to the PPEs, et cetera, but I don't know off
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         varies by region?         A. Have I heard anyone say that?         Q. Yes.         A. No, I personally have not heard anyone say         a say         a substance provide the say         a say         a substance say         barder anyone say         barder         barder</li></ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do at other states, because some of this may again, related to training, to how you apply the pesticide, to the PPEs, et cetera, but I don't know off firsthand anything specific for the folks in those
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         varies by region?         A. Have I heard anyone say that?         Q. Yes.         A. No, I personally have not heard anyone say         that.         </li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do at other states, because some of this may again, related to training, to how you apply the pesticide, to the PPEs, et cetera, but I don't know off firsthand anything specific for the folks in those two states that may be different or similar to other
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>that's really why you have to ask that question.</li> <li>Q. Okay. I just</li> <li>A. It's not     (Unreportable cross-talk.)</li> <li>A. Glyphosate is glyphosate is not used     only in North Carolina and Iowa. So if you are     doing really a prospective study and you are looking     prospectively as to whether substance A causes     disease X, unless you have a reason that substance A     is only used in this particular location, why are we     restricting only in only in those two areas.         So, again, as somebody who is trying to         look at the entire body of evidence, I'm seeing here         that there is a substance that's being used across         all 50 states, but the study is only restricted to         two. So I need an explanation why only these two         and not others.         Q. The have you heard anyone suggest that         whether glyphosate causes non-Hodgkin lymphoma         varies by region?         A. Have I heard anyone say that?         Q. Yes.         A. No, I personally have not heard anyone say         a say         a substance provide the say         a say         a substance say         barder anyone say         barder         barder</li></ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	outside the U.S. apply to the U.S., if something done in the U.S. that is applied to Europe. So you look at the entire body of literature. And you don't you can't take one study and just be blinded to everything else. So I again, it's a matter of looking at the entire body of literature, not being selective at what type of literature we look at. Q. Do you know of anything about the population that was being studied in North Carolina and Iowa that would differ from other exposures in a way that would invalidate the results of this study as a general as reaching general conclusions about glyphosate and non-Hodgkin's lymphoma? A. I don't know anything specific for the farmers in North Carolina and Iowa. I explained to you, hopefully, what my issue is. It's not necessarily geography and so forth. It's what others do there that may not apply to folks that do at other states, because some of this may again, related to training, to how you apply the pesticide, to the PPEs, et cetera, but I don't know off firsthand anything specific for the folks in those

	Page 70	Page 72
1		
1	Q. And you know that the AHS AHS refers to	<ul> <li>that, please? What is the problem with the study</li> <li>ending in 2001?</li> </ul>
2 3	a large group of studies that has been generated by	
4	an ongoing research project? You understand that, sir?	<ul> <li><sup>3</sup> A. Well, if you look at the way the study is</li> <li><sup>4</sup> designed, it's really designed based on</li> </ul>
5	A. I do.	<ul> <li><sup>5</sup> questionnaires with the first question with the</li> </ul>
6	Q. And you know that there are multiple	<ul> <li><sup>6</sup> first questionnaire done when you actually enrolled</li> </ul>
7	publications from that group about the	<ul> <li>patients in ninety between '93 and '97, I</li> </ul>
8	characteristics of people in North Carolina and	<ul> <li><sup>8</sup> believe, and the first questionnaire looked at prior</li> </ul>
9	people in Iowa and about how they controlled for	<sup>9</sup> exposure from decades before. These again,
10	their exposures, their practices, their exposures to	<sup>10</sup> something that you've been exposed to 20 years or 30
11	other substances, their time spent on the farm,	<sup>11</sup> years ago and forth.
12	their exposure to other animals, PPE, their exposure	<sup>12</sup> The subsequent questionnaire was done in
13	to drift, et cetera, et cetera? Have you read those	<sup>13</sup> 1999 to 2005, and if I read correctly, they actually
14	papers, sir?	<sup>14</sup> asked specifically at exposure the year before, not
15	A. I have not seen all of these, no.	<sup>15</sup> necessarily for many times or 10 years or 15 years
16	Q. Do you know whether the large body of	<sup>16</sup> prior to that.
17	literature that's been generated about the AHS pool	<sup>17</sup> So the the pattern, you know, how can
18	of data suggests any flaws in relying on data from	<sup>18</sup> you control to how folks were exposed prospectively
19	two states, North Carolina and Iowa?	<sup>19</sup> to this substance? It's not really a constant. The
20	A. Not firsthand. I tried to explain, again,	<sup>20</sup> use of glyphosate has changed over the years. It
21	you know, the issue that I have with this particular	has increased significantly in the late '90s and
22	comment. I think it's pretty clear	<sup>22</sup> early 2000 and so forth. So there's really
23 24	Q. Okay.	<ul> <li>incremental use of the compound over these years,</li> <li>and this incremental use and changes in the way</li> </ul>
24 25	A what I said.	and this incremental use and changes in the way
20	Q. So you're flagging it as a possible	<sup>25</sup> people have been exposed to it is actually not
	Page 71	Page 73
1	weakness in the study without knowing of anything	
1 2	weakness in the study without knowing of anything specific that bears out those concerns: is that	<sup>1</sup> factored in how the questionnaire is addressing
	weakness in the study without knowing of anything specific that bears out those concerns; is that fair?	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> </ul>
2	specific that bears out those concerns; is that fair?	<ol> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> </ol>
2 3	specific that bears out those concerns; is that	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> </ul>
2 3 4	<ul><li>specific that bears out those concerns; is that fair?</li><li>A. Of course, I don't have anything</li></ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> </ul>
2 3 4 5	<ul><li>specific that bears out those concerns; is that fair?</li><li>A. Of course, I don't have anything specific</li></ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> </ul>
2 3 4 5 6 7 8	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> </ul>
2 3 4 5 7 8 9	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> </ul>
2 3 5 7 8 9 10	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by,</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> <li>A. So basically you're stopping you know,</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> <li>A. So basically you're stopping you know,</li> <li>you're stopping to look at what happened in terms of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> <li>A. So basically you're stopping you know,</li> <li>you're stopping to look at what happened in terms of</li> <li>exposure literally around almost the same time where</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific</li> <li>MR. LITZENBURG: Object to form.</li> <li>A but this is something that you</li> <li>it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen</li> <li>MR. LITZENBURG: Object to form.</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> <li>A. So basically you're stopping you know,</li> <li>you're stopping to look at what happened in terms of</li> <li>exposure literally around almost the same time where</li> <li>people are using are using it more.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> <li>A. So basically you're stopping you know,</li> <li>you're stopping to look at what happened in terms of</li> <li>exposure literally around almost the same time where</li> <li>people are using are using it more.</li> <li>Q. So 2000 the 2001 cutoff is right when</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> </ul>	<ul> <li>factored in how the questionnaire is addressing</li> <li>this.</li> <li>So it's not constant. Everything is</li> <li>actually changing, but you're really asking question</li> <li>only for the year before and you are doing this</li> <li>before the incremental the significant increase</li> <li>in use of glyphosate.</li> <li>Q. What's your understanding of when that</li> <li>significant bulge in use occurred?</li> <li>A. A lot has happened in the early 2000s in</li> <li>terms of the increase in use.</li> <li>Q. Okay. So your understanding</li> <li>A. So basically you're stopping you know,</li> <li>you're stopping to look at what happened in terms of</li> <li>exposure literally around almost the same time where</li> <li>people are using are using it more.</li> <li>Q. So 2000 the 2001 cutoff is right when</li> <li>the bulge began; is that your view?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Now, you said second, the second flaw that</li> </ul>	1factored in how the questionnaire is addressing2this.3So it's not constant. Everything is4actually changing, but you're really asking question5only for the year before and you are doing this6before the incremental the significant increase7in use of glyphosate.8Q. What's your understanding of when that9significant bulge in use occurred?10A. A lot has happened in the early 2000s in11terms of the increase in use.12Q. Okay. So your understanding13A. So basically you're stopping you know,14you're stopping to look at what happened in terms of15exposure literally around almost the same time where16people are using are using it more.17Q. So 2000 the 2001 cutoff is right when18the bulge began; is that your view?19A. Well, there is no such a thing as right
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Now, you said second, the second flaw that you identified in the study is that you said the</li> </ul>	1factored in how the questionnaire is addressing2this.3So it's not constant. Everything is4actually changing, but you're really asking question5only for the year before and you are doing this6before the incremental the significant increase7in use of glyphosate.8Q. What's your understanding of when that9significant bulge in use occurred?10A. A lot has happened in the early 2000s in11terms of the increase in use.12Q. Okay. So your understanding13A. So basically you're stopping you know,14you're stopping to look at what happened in terms of15exposure literally around almost the same time where16people are using are using it more.17Q. So 2000 the 2001 cutoff is right when18the bulge began; is that your view?19A. Well, there is no such a thing as right20where the bulge began. I think the early 2000s is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Now, you said second, the second flaw that you identified in the study is that you said the study essentially ended in 2001, not accounting for</li> </ul>	1factored in how the questionnaire is addressing2this.3So it's not constant. Everything is4actually changing, but you're really asking question5only for the year before and you are doing this6before the incremental the significant increase7in use of glyphosate.8Q. What's your understanding of when that9significant bulge in use occurred?10A. A lot has happened in the early 2000s in11terms of the increase in use.12Q. Okay. So your understanding13A. So basically you're stopping you know,14you're stopping to look at what happened in terms of15exposure literally around almost the same time where16people are using are using it more.17Q. So 2000 the 2001 cutoff is right when18the bulge began; is that your view?19A. Well, there is no such a thing as right20where the bulge began. I think the early 2000s is21as accurate as you can get.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Now, you said second, the second flaw that you identified in the study is that you said the</li> </ul>	1factored in how the questionnaire is addressing2this.3So it's not constant. Everything is4actually changing, but you're really asking question5only for the year before and you are doing this6before the incremental the significant increase7in use of glyphosate.8Q. What's your understanding of when that9significant bulge in use occurred?10A. A lot has happened in the early 2000s in11terms of the increase in use.12Q. Okay. So your understanding13A. So basically you're stopping you know,14you're stopping to look at what happened in terms of15exposure literally around almost the same time where16people are using are using it more.17Q. So 2000 the 2001 cutoff is right when18the bulge began; is that your view?19A. Well, there is no such a thing as right20where the bulge began. I think the early 2000s is21as accurate as you can get.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Now, you said second, the second flaw that you identified in the study is that you said the study essentially ended in 2001, not accounting for the more expanded and increased use of glyphosate</li> </ul>	1factored in how the questionnaire is addressing2this.3So it's not constant. Everything is4actually changing, but you're really asking question5only for the year before and you are doing this6before the incremental the significant increase7in use of glyphosate.8Q. What's your understanding of when that9significant bulge in use occurred?10A. A lot has happened in the early 2000s in11terms of the increase in use.12Q. Okay. So your understanding13A. So basically you're stopping you know,14you're stopping to look at what happened in terms of15exposure literally around almost the same time where16people are using are using it more.17Q. So 2000 the 2001 cutoff is right when18the bulge began; is that your view?19A. Well, there is no such a thing as right20okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>specific that bears out those concerns; is that fair?</li> <li>A. Of course, I don't have anything specific MR. LITZENBURG: Object to form.</li> <li>A but this is something that you it's it's glaring at you as a peer reviewer, as somebody who is looking at this, and it's hard to dismiss without trying to ask these questions.</li> <li>BY MR. GRIFFIS:</li> <li>Q. You don't know if it's been addressed by, for example, the statistical controls that were applied to other factors and other exposures?</li> <li>A. I have not seen MR. LITZENBURG: Object to form.</li> <li>A the particular remedy to these issues.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Now, you said second, the second flaw that you identified in the study is that you said the study essentially ended in 2001, not accounting for the more expanded and increased use of glyphosate after that year; correct?</li> </ul>	1factored in how the questionnaire is addressing2this.3So it's not constant. Everything is4actually changing, but you're really asking question5only for the year before and you are doing this6before the incremental the significant increase7in use of glyphosate.8Q. What's your understanding of when that9significant bulge in use occurred?10A. A lot has happened in the early 2000s in11terms of the increase in use.12Q. Okay. So your understanding13A. So basically you're stopping you know,14you're stopping to look at what happened in terms of15exposure literally around almost the same time where16people are using are using it more.17Q. So 2000 the 2001 cutoff is right when18the bulge began; is that your view?19A. Well, there is no such a thing as right20okay.21Q. Okay.22Q. Okay.23A. I mean, you can't say May 2000 versus

	Page 74	Page 76
1	significant increase in the use of glyphosate across	<sup>1</sup> MR. GRIFFIS: Let's take it now.
2	the country and in the world, and somehow you	<sup>2</sup> THE WITNESS: I'm okay. I'm just trying to
3	really your follow-up falls short of that in	<sup>3</sup> base my
4	2001. And even the questionnaire is actually asking	4 MR. GRIFFIS: Remind in ten minutes. We'll
5	only exposure just one year before.	<sup>5</sup> do it.
6	So if you had if you had a lot of	<sup>6</sup> THE WITNESS: need for the bathroom.
7	exposure if you are asking somebody, you know, at	<sup>7</sup> That's all.
8	a particular year, what was the exposure the year	<sup>8</sup> BY MR. GRIFFIS:
9	before, and they answer no, it doesn't account for	<sup>9</sup> Q. Take Exhibit 2, sir, the 2018 NCI study,
10	the exposure from three years before. It's	<sup>10</sup> and tell me where it says that the study essentially
11	it's the way the questions are being asked is	<sup>11</sup> ended in 2001.
12	completely would miss the point of significant high	<sup>12</sup> A. It's not the it's not ended. It's
13	exposure for some patients for some individuals,	<sup>13</sup> the the follow-up continues.
14	not patients.	<sup>14</sup> Q. Okay. I'm when I said "essentially
15	Q. So I understand that there's not a	<sup>15</sup> ended," I'm just quoting you from your
16	particular month that you point to as suddenly a	<sup>16</sup> A. Yeah.
17	bulge occurs, but 2001, that was an important year.	<sup>17</sup> Q supplemental expert report.
18	2002 was an important year, 2003? Is that what	<sup>18</sup> A. No, I think the follow-up the follow-up
19	you're telling us?	<sup>19</sup> continues. And, again, I believe there would be
20	A. I said the early 2000s.	<sup>20</sup> additional follow-ups and future publications from
21	Q. Okay. And what's your basis for that, sir?	the AHS study. This is not going to be the last
22	A. It's my research. When you look I mean,	<sup>22</sup> one.
23	again, a lot of this information, when you look to	<sup>23</sup> Q. Okay.
24	when the use of glyphosate and take a look on the	A. The follow I mean, you know
25	worldwide web and try to understand when it's being	Q. Show me show me what you see in this
	Page 75	Page 77
1	Page 75 used, it's lots of this is public information.	Page 77 <sup>1</sup> study that made you say, "Second, the study
1 2		
	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in	<sup>1</sup> study that made you say, "Second, the study
2	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in the literature and and the information that's	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> </ul>
2 3 4 5	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> </ul>
2 3 4 5 6	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> </ul>
2 3 4 5 6 7	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> </ul>
2 3 4 5 6 7 8	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased. Q. So you did a Google search and looked at one of the	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> </ul>
2 3 5 6 7 8 9	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased. Q. So you did a Google search and looked at one of the A. One of the searches	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> </ul>
2 4 5 7 8 9 10	used, it's lots of this is public information. Q. What resource did you rely on for this? A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased. Q. So you did a Google search and looked at one of the A. One of the searches Q links?	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches,</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at. And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have asked me</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper.</li> <li>A. I'll get back to this. I'll look at it at</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have asked me about in the deposition that we had before.</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> <li>paper.</li> <li>A. I'll get back to this. I'll look at it at</li> <li>the break, if that's okay. It's I don't want to</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at.</li> <li>And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have asked me about in the deposition that we had before.</li> <li>Q. Is it literature that you have provided to us</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> <li>paper.</li> <li>A. I'll get back to this. I'll look at it at</li> <li>the break, if that's okay. It's I don't want to</li> <li>read the entire paper right now and take about 10 or</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at. And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have provided to us, sir?</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> <li>paper.</li> <li>A. I'll get back to this. I'll look at it at</li> <li>the break, if that's okay. It's I don't want to</li> <li>read the entire paper right now and take about 10 or</li> <li>15 minutes.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at. And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have provided to us, sir?</li> <li>A. I provide you with everything that I looked</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> <li>paper.</li> <li>A. I'll get back to this. I'll look at it at</li> <li>the break, if that's okay. It's I don't want to</li> <li>read the entire paper right now and take about 10 or</li> <li>15 minutes.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at. And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have provided to us, sir?</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> <li>paper.</li> <li>A. I'll get back to this. I'll look at it at</li> <li>the break, if that's okay. It's I don't want to</li> <li>read the entire paper right now and take about 10 or</li> <li>15 minutes.</li> <li>Q. Is it is it the statement in the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>used, it's lots of this is public information.</li> <li>Q. What resource did you rely on for this?</li> <li>A. The worldwide web and what's going on in the literature and and the information that's been there in terms of when the use of glyphosate-containing compounds have increased.</li> <li>Q. So you did a Google search and looked at one of the</li> <li>A. One of the searches</li> <li>Q links?</li> <li>A. One of the searches was Google searches, and there is also some literature that I looked at. And the previous deposition, but I wasn't sure I didn't bring it with me. I didn't think we were going to discuss that today.</li> <li>Q. This is literature that you have provided to us, sir?</li> <li>A. That is something that you have provided to us, sir?</li> <li>A. I provide you with everything that I looked at, yes.</li> </ul>	<ul> <li>study that made you say, "Second, the study</li> <li>essentially ended in 2001," in your supplemental</li> <li>expert report.</li> <li>A. Yeah, I'll have to go in the I think on</li> <li>the NIH website and look at the AHS.</li> <li>Can I take a look at that? Can I look at</li> <li>the that's where I found it.</li> <li>Q. You may. I don't know how exactly.</li> <li>A. That's fine. That's fine. I'll look at</li> <li>it.</li> <li>Q. You didn't get that from this I mean,</li> <li>you told me what you looked at to get ready to</li> <li>generate your expert report.</li> <li>A. I understand.</li> <li>Q. And it didn't include that website. It was</li> <li>this paper. So I presumed you got it from this</li> <li>paper.</li> <li>A. I'll get back to this. I'll look at it at</li> <li>the break, if that's okay. It's I don't want to</li> <li>read the entire paper right now and take about 10 or</li> <li>15 minutes.</li> <li>Q. Is it is it the statement in the</li> <li>background, follow-up through 2001 in the abstract?</li> </ul>

#### Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 22 of 48

	Page 78		Page 80
1	I'll have to make sure that this was was it a	1	glyphosate bulge in the early 2000s that you were
2	typo I said 2005 or 2001? Is it okay if I table	2	describing; right?
3	this and just get back to you after the break?	3	A. They have collected data during some of
4	Q. Okay.	4	this bulge, yes.
5	A. I want to make sure I answer it for you.	5	Q. And do you know what impact it would have
6	MR. GRIFFIS: Okay. Why don't we take a	6	on the data to misallocate people's exposures based
7	break then.	7	on increased glyphosate use later when you don't
8	THE WITNESS: Okay.	8	know whether someone is going to end up in the group
9	VIDEOGRAPHER: Ending disc number one of	9	of people who develop non-Hodgkin's lymphoma or not?
10	the deposition of Dr. Chadi Nabhan. We are off	10	A. I'm not sure I understand the question. If
11	the record at 10:17 A.M.	11	you don't mind just
12	(Recess taken from 10:17 A.M. to	12	Q. Yes, sir. It's an epidemio
13	10:26 A.M.)	13	A simplifying it or
14	VIDEOGRAPHER: And beginning disc number	14	Q. It's an epidemiology question.
15	two of the deposition of Dr. Chadi Nabhan. We	15	A. Okay. Go ahead.
16	are back on the record at 10:26 A.M.	16	Q. You have a questionnaire that runs through
17	BY MR. GRIFFIS:	17	2005, collecting data on exposures through 2005, and
18	Q. Okay. Sir, you were going to look	18	you're suggesting the possibility that people's
19	something up for me, the basis for your opinion	19	exposures could shift after that date because of
20	that let me quote it correctly the basis for	20	changes in glyphosate use.
21	your opinion that the study, the NCI 2018 study	21	A. I mean, it always could shift throughout,
22	essential ended in 2001.	22	right, yes.
23	A. So, again, I didn't when I say "ended,"	23	Q. But if it shifts in a way that's the same
24	as I clarified earlier, the study is continuing, and	24	for the group of people who end up developing
25	as I said, you will have additional publications	25	non-Hodgkin's lymphoma, as it does for the group of
	Page 79		Page 81
1	coming out, and the JNCI paper will not, in my	1	people who don't end of developing non-Hodgkin's
2	opinion, be the last paper that comes from the AHS,	2	lymphoma, then it would not alter the
3	because it is ongoing.	3	epidemiological results; correct?
4	I think what I meant by "ended" is that	4	A. If the shift is similar, it probably would
5	the when you look at the original paper, the	5	have less likelihood to alter the epidemiology
6	DeRoos paper, when it's when it was originally	6	results.
7	published, they looked at I think the follow-up	7	Q. Do you know of any reason that the
8	at that time was until 2001.	8	likelihood of someone using glyphosate in the future
9	The follow-up of this study is until 2005	9	but not during the time of questionnaire two would
10	and the original questionnaire between 1993 to 1997	10	be associated with whether or not they develop
11	was probably the only questionnaire that was filled	11	non-Hodgkin's lymphoma later?
12	by most by most participants.	12	A. Well, it's a matter it's the
13	The 2001 here would more accurately	13	fundamental issue here is how you are going to
14	reflected as 2005, because that's really the	14	answer the questionnaire between 1999 and 2005.
15	follow-up of this particular study, as opposed to	15	That's really the fundamental question.
16	2001.	16	And I think, given the fact that you can't
17	Q. And 2001 is incorrect, it reflects the	17	control how people are answering the questions,
18	A. The DeRoos paper.	18	there's a lot of recall bias in answering these
19	Q the follow-up date from the DeRoos 2005	19	questions, and you're really answering the questions
20	paper and not the NCI 2018 paper?	20	only for just the immediate past before answering.
21	A. That's correct.	21	You're not answering for several years prior to
22	Q. The NCI 2018 paper, second questionnaire,	22	that.
23	went through 2005; right?	23	So it's just how you answer the questions.
24	A. Yes.	24	It's very possible that some folks might answer
		25	differently based on what they are doing, if they
25	Q. So they were collecting data well into the	25	unreferring based on what they are doing, if they

		1	
	Page 82		Page 84
1	have been if somebody is using a lot of other	1	study caused by the fact that people who are
2	pesticides, not necessarily glyphosate, they may	2	recalling one group of people who are recalling
3	assume that they are using also glyphosate versus	3	are in a different situation than another group of
4	somebody who is not using anything.	4	people who are recalling, the classic example of
5	So I think that's really the issue. It's	5	which is that when you are in a case-control study,
б	not about the follow-up is one possibility, but	6	people who have an illness that they believe may be
7	also the way folks answer the questions is	7	associated with an exposure are much more likely to
8	inherently depending on some other biases that are	8	recall those exposures
9	present in them. So it's answering the questions	9	A. That's correct.
10	that's really fundamentally issue fundamental	10	Q than people who are just going about
11	issue here.	11	their lives without suffering from any particular
12	Q. It sounds like you have identified a new	12	malady.
13	potential flaw in this NCI 2018 study that isn't in	13	A. That is one way of recall bias, absolutely.
14	your expert report, that people might fill out the	14	So if you have a disease you know, if you have a
15	questionnaires inconsistently?	15	disease in 2010 and you're being asked to remember
16	A. It's the recall bias, which is something we	16	if you got exposed to something, you are more likely
17	discussed about with the DeRoos study. It's it's	17	to remember that versus somebody who did not have
18	inherent in in most of these trial most of	18	the disease. That is one way.
19	these type of studies. It's difficult to to	19	And another way, in my opinion, is also
20	remedy, except, frankly, the only way to remedy	20	trying to recall everything that actually has
21	something like this is by having more frequent	21	have happened in the past that you may not remember.
22	questionnaires and just trying to either just	22	Q. The type of recall bias that I described is
23	have it requires a lot of resources to ask people	23	inherent to the same case-control studies that you
24	to fill a lot of these questionnaires more	24	rely on
25	consistently. But that's that's something that	25	A. Yes.
	Page 83		Page 85
1		1	
1 2	was present in DeRoos, still present here, because	1 2	Page 85 Q for your conclusions; right? A. I understand that.
	was present in DeRoos, still present here, because it's the same study. We talked about it before.		Q for your conclusions; right?
2	was present in DeRoos, still present here, because	2	<ul><li>Q for your conclusions; right?</li><li>A. I understand that.</li></ul>
2 3	<ul><li>was present in DeRoos, still present here, because</li><li>it's the same study. We talked about it before.</li><li>Q. Can you explain what "recall bias" means to</li></ul>	2 3	<ul><li>Q for your conclusions; right?</li><li>A. I understand that.</li><li>Q. In those case-control studies, like</li></ul>
2 3 4	<ul><li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li><li>Q. Can you explain what "recall bias" means to an epidemiologist?</li><li>A. You mean to a layman person?</li><li>Q. Tell me your definition of "recall bias."</li></ul>	2 3 4	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> </ul>
2 3 4 5	<ul><li>was present in DeRoos, still present here, because</li><li>it's the same study. We talked about it before.</li><li>Q. Can you explain what "recall bias" means to</li><li>an epidemiologist?</li><li>A. You mean to a layman person?</li></ul>	2 3 4 5	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> </ul>
2 3 4 5 6	<ul><li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li><li>Q. Can you explain what "recall bias" means to an epidemiologist?</li><li>A. You mean to a layman person?</li><li>Q. Tell me your definition of "recall bias."</li></ul>	2 3 4 5	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> </ul>
2 3 4 5 7 8 9	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most</li> </ul>	2 3 4 5 6 7	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what</li> </ul>	2 3 4 5 6 7 8 9 10	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to</li> </ul>	2 3 4 5 6 7 8 9 10 11	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to</li> <li>recall their exposure?</li> <li>A. In any case I think in any case-control</li> <li>studies, you will always have that possibility. I</li> <li>think we know that people who have a disease are</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to</li> <li>recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's an inherent limitation to case-control studies.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> <li>So recall bias is basically not having the precise answer. You're dependent on your memory to</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> <li>And cohort studies, like the NCI 2018 and</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> <li>So recall bias is basically not having the precise answer. You're dependent on your memory to answer a question, and you may be correct some of</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> <li>And cohort studies, like the NCI 2018 and the DeRoos 2005, don't have that particular problem</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> <li>So recall bias is basically not having the precise answer. You're dependent on your memory to answer a question, and you may be correct some of the times, and you may be wrong other times.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> <li>And cohort studies, like the NCI 2018 and the DeRoos 2005, don't have that particular problem because people are asked about their exposures</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> <li>So recall bias is basically not having the precise answer. You're dependent on your memory to answer a question, and you may be correct some of the times, and you may be wrong other times.</li> <li>Q. Okay. I'm going to suggest to you, sir,</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been</li> <li>incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to</li> <li>recall their exposure?</li> <li>A. In any case I think in any case-control</li> <li>studies, you will always have that possibility. I</li> <li>think we know that people who have a disease are</li> <li>more likely to remember something that has happened</li> <li>to them versus healthy volunteers. I think that's</li> <li>an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> <li>And cohort studies, like the NCI 2018 and</li> <li>the DeRoos 2005, don't have that particular problem</li> <li>because people are asked about their exposures</li> <li>before they develop any illness; correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> <li>So recall bias is basically not having the precise answer. You're dependent on your memory to answer a question, and you may be correct some of the times, and you may be wrong other times.</li> <li>Q. Okay. I'm going to suggest to you, sir, that that's wrong. Tell me if this rings a bell.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera <ul> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to recall their exposure?</li> <li>A. In any case I think in any case-control studies, you will always have that possibility. I think we know that people who have a disease are more likely to remember something that has happened to them versus healthy volunteers. I think that's an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> <li>And cohort studies, like the NCI 2018 and the DeRoos 2005, don't have that particular problem because people are asked about their exposures before they develop any illness; correct?</li> </ul> </li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>was present in DeRoos, still present here, because it's the same study. We talked about it before.</li> <li>Q. Can you explain what "recall bias" means to an epidemiologist?</li> <li>A. You mean to a layman person?</li> <li>Q. Tell me your definition of "recall bias."</li> <li>A. Well, you know, if you are being asked to to answer a question that about something that happened in the past, you may not have the most robust memory to remember all of the details of what happened a year before or even ten years before to provide the proper answers.</li> <li>If I asked you what you had for dinner ten days ago, you may not be able to answer that accurately, but your answer might be dependent on what you had dinner yesterday, and you may assume that this is very similar.</li> <li>So recall bias is basically not having the precise answer. You're dependent on your memory to answer a question, and you may be correct some of the times, and you may be wrong other times.</li> <li>Q. Okay. I'm going to suggest to you, sir,</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q for your conclusions; right?</li> <li>A. I understand that.</li> <li>Q. In those case-control studies, like</li> <li>Eriksson, et cetera</li> <li>A. Uh-hum.</li> <li>Q in those case-control studies, people</li> <li>were asked about their exposures after they already</li> <li>had non-Hodgkin's lymphoma, and they would have been</li> <li>incentivized to remember better than the healthy</li> <li>people, the healthy controls who were asked to</li> <li>recall their exposure?</li> <li>A. In any case I think in any case-control</li> <li>studies, you will always have that possibility. I</li> <li>think we know that people who have a disease are</li> <li>more likely to remember something that has happened</li> <li>to them versus healthy volunteers. I think that's</li> <li>an inherent limitation to case-control studies.</li> <li>Q. Yes, sir.</li> <li>And cohort studies, like the NCI 2018 and</li> <li>the DeRoos 2005, don't have that particular problem</li> <li>because people are asked about their exposures</li> <li>before they develop any illness; correct?</li> </ul>

	Page 86		Page 88
1		1	
2	that duration. And you're not accounting for that gap between questionnaire A and questionnaire B as	2	AHS that doesn't have that limitation. So I was describing to you the issue with the AHS that is
3	to what happened in terms of pattern of exposure to	3	different it's not a case control, but it has a
4	these individuals.	4	different limitation as a cohort study.
5	So, yes, in a cohort study that you are	5	Q. That's a totally different issue than
6	looking at prospectively, you ask the individuals	6	recall bias; right?
7	who are participating a priori, you ask them before	7	MR. LITZENBURG: Object to form.
8	it, what happened, and then you follow them	8	A. Okay. Well, we can talk about recall bias
9	prospectively. But in order for you to get proper	9	if you want.
10	conclusion, all of other factors for these	10	BY MR. GRIFFIS:
11	individuals have to be stable and constant. So	11	Q. Let's finish talking about recall bias.
12	nothing really is changing to get these meaningful	12	The other thing that you called "recall bias"
13	conclusions.	13	A. You are the one who moved to the other one.
14	And that's a big problem for epidemiology	14	Q. The other thing that you called "recall
15	study where you have a lot of exposures and external	15	bias," sir, was people not remembering correctly
16	factors because you can't really account for these	16	when they are given a questionnaire; right?
17	additional factors that folks are exposed to. And	17	A. Well, I think that's important when I talk
18	in this situation you can't really tell somebody	18	to a layman when I talk to a patient and I talk
19	that, now we ask you this question, no more exposure	19	to and I asked you, actually, whether we are
20	to glyphosate whatsoever until we talk to you in ten	20	describing to this a layman term. When I talk to a
21	years from now. You can't control to that,	21	patient and I see a patient and I say, you know,
22	especially in pesticide applicators and farmers.	22	have you been exposed to X, Y, and Z, from a patient
23	That's the big limitation when you are	23	perspective, they need to tell me based on their
24	talking to this cohort study, because you are unable	24	memory and their recollection.
25	to tell these cohort of individuals that you are	25	When they fill a questionnaire, when they
	Page 87		Page 89
1	studying that, from now on, after you've answered	1	come to the clinic and they are trying to fill a
2	this question, no incremental exposure is allowed,	2	questionnaire about their past history or past
3	and I'm going to follow you and see whether your	3	occupational hazard or past exposure, they rely on
4	prior exposure has led to disease or not.	4	their memory. From a patient perspective, that's
5	And that's not what happened in the AHS.	5	actually a recall. And if they don't really
6	I'm not sure how you can do it, frankly. It's not	6	remember appropriately, then it might be an issue.
7	really an issue that you can do practically. It	7	Q. Just not remembering well is an issue for
8	requires a lot of money and resources. So it's	8	questionnaires asked in case-control and cohort
9	really very difficult.	9	studies; right?
10	But if you want to talk science, that's the	10	A. Absolutely.
11	only way in a cohort study that you do it. At some	11	Q. Have you read the literature in which the
12	point in time, so in 1997 after you ask the first	12	AHS questionnaires were validated against objective
13	questionnaire, these individuals that answered the	13	data to test how accurate the recall of those
14	1993 to 1997 questionnaire, that's it, no more	14	pesticide applicators was about the pesticides that
15	exposure to anything after 1997. And now in 2018,	15	they applied?
16	20 years later, you go and see, based on your prior	16	A. I have not seen that literature. I would
17	exposure, prior to 1997, what happened to you.	17	probably look it up.
18	But we all know in this room between 1997	18	Q. Now, on the new issue that I believe you
19 20	and 2005 a lot of things changed for these	19	were identifying a moment ago that people's
20 21	individuals, and that's the problem.	20 21	exposures will not be remain fixed in between
21 22	Q. I want to get back to recall bias, because	21	questionnaires and so could vary from what they
22	that wasn't about recall bias.	23	reported at the time of the questionnaires, do you understand that the authors of the NCL 2018 paper
24	<ul><li>A. But that answer</li><li>Q. The other thing with recall bias</li></ul>	23	understand that the authors of the NCI 2018 paper took steps to adjust for and correct for that, sir?
25	A I was answering your comment about the	25	A. I think we together we read a lot of the
			is i think we together we read a lot of the
			Ç.

		-	
	Page 90		Page 92
1	statistical and sensitivity analysis that they did	1	Q. Now, I take it that at least part of the
2	and so forth, and I think you have to try to adjust	2	reason that you think that's a problem is because
3	for it. It just doesn't take away from the	3	of, people might not recall correctly?
4	limitation of it. I mean, and, again, this is not	4	A. Yes. That's what we talked about.
5	just an AHS specific limitation. This is really any	5	Q. Is that right?
б	prospective cohort limitation.	6	Okay. Is there anything else about it
7	Q. And like some of the other biases that	7	other than that people might not recall correctly?
8	we've been discussing today, it would only affect	8	A. No.
9	the results if people's exposures after filling out	9	Q. And all of the epidemiology studies that
10	the questionnaire were correlated with the	10	you rely on for your opinion that
11	particular a particular health outcome and not a	11	glyphosate-containing substances can cause
12	different particular health outcome?	12	non-Hodgkin's lymphoma, involved self-reporting;
13	A. Yes, of course. I mean, if it changed in a	13	right?
14	way that affects the health outcome and so forth,	14	A. Yes.
15	but but, again, as I said, this is not a	15	Q. So to the extent that that's a flaw in the
16	limitation just for the AHS study. This is a	16	NCI 2018 study, it's also a flaw in those studies;
17	limitation for a lot of these epidemiologic	17	right?
18	prospective cohort studies because you follow these	18	A. I think it's a flaw for most of the
19	individuals prospectively asking one question, but	19	epidemiology studies. It's very difficult to have
20	you are unable to stop that additional exposure from	20	an epidemiologic study without problems with
21	happening moving forward. It's impossible, given	21	self-reporting. That's the field of epidemiology.
22	the fact that these are farmers and pesticide	22	MR. GRIFFIS: Exhibit 4.
23	applicators. That's what they do.	23	(Exhibit 29-4 marked for identification.)
24	Q. Do you know never mind that question.	24	BY MR. GRIFFIS:
25	Do you know the difference between	25	Q. Sir, I've marked as Exhibit 4 the IARC
	Page 91		Page 93
1	differential bias and nondifferential bias, sir?	1	Working Group 122 112, rather, Monograph on
2	A. I think you just described it to me. The	2	Malathion.
3			ivialatinon.
	nondifferential, again, is if you if it's not	3	MR. LITZENBURG: He's not answering any
4	nondifferential, again, is if you if it's not going to affect the health outcome and the bias is	3 4	
4 5		4 5	MR. LITZENBURG: He's not answering any
	going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.	4	MR. LITZENBURG: He's not answering any questions about that. A. Why are we talking about malathion? BY MR. GRIFFIS:
5	going to affect the health outcome and the bias is almost equally distributed, then that's	4 5 6 7	MR. LITZENBURG: He's not answering any questions about that. A. Why are we talking about malathion? BY MR. GRIFFIS: Q. Sir, you understand that the IARC Working
5	<ul><li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li><li>Q. And people who are doing cohort studies have ways to assess whether they have differential</li></ul>	4 5 6 7 8	MR. LITZENBURG: He's not answering any questions about that. A. Why are we talking about malathion? BY MR. GRIFFIS:
5 6 7 8 9	<ul><li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li><li>Q. And people who are doing cohort studies</li></ul>	4 5 7 8 9	<ul><li>MR. LITZENBURG: He's not answering any questions about that.</li><li>A. Why are we talking about malathion?</li><li>BY MR. GRIFFIS:</li><li>Q. Sir, you understand that the IARC Working</li><li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions,</li></ul>
5 6 7 8 9 10	<ul><li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li><li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li><li>A. I think there are lots of statistical</li></ul>	4 5 7 8 9 10	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides,</li> </ul>
5 6 7 8 9 10 11	<ul><li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li><li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li></ul>	4 5 7 8 9 10	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> </ul>
5 6 7 8 9 10 11 12	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> </ul>	4 5 7 8 9 10 11 12	MR. LITZENBURG: He's not answering any questions about that. A. Why are we talking about malathion? BY MR. GRIFFIS: Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion? A. I understand that they looked at other
5 6 7 8 9 10 11 12 13	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the</li> </ul>	4 5 7 8 9 10 11 12 13	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> </ul>
5 6 7 8 9 10 11 12 13 14	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> </ul>	4 5 7 8 9 10 11 12 13 14	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some</li> </ul>
5 6 7 8 9 10 11 12 13 14 15	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> </ul>	4 5 7 8 9 10 11 12 13 14 15	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion</li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> </ul>	4 5 7 8 9 10 11 12 13 14 15 16	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications</li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we</li> </ul>	4 5 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in</li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the</li> </ul>	4 5 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. LITZENBURG: He's not answering any questions about that. A. Why are we talking about malathion? BY MR. GRIFFIS: Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion? A. I understand that they looked at other compounds as well as glyphosate, yes. Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph? MR. LITZENBURG: You don't have to answer
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in an attempt to get the information only from the</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> </ul> </li> <li>MR. LITZENBURG: You don't have to answer any questions about this, especially if you</li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in an attempt to get the information only from the folks who answered the questions.</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS:</li> <li>Q. Sir, you understand that the IARC Working Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> <li>MR. LITZENBURG: You don't have to answer any questions about this, especially if you haven't read it.</li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in an attempt to get the information only from the folks who answered the questions.</li> <li>Q. The fourth weakness that you the flaw</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> <li>MR. LITZENBURG: You don't have to answer any questions about this, especially if you haven't read it.</li> <li>A. I really don't remember.</li> </ul> </li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in an attempt to get the information only from the folks who answered the questions.</li> <li>Q. The fourth weakness that you the flaw you identified in the NCI 2018 study is that it</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> <li>MR. LITZENBURG: You don't have to answer any questions about this, especially if you haven't read it.</li> <li>A. I really don't remember.</li> </ul> </li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in an attempt to get the information only from the folks who answered the questions.</li> <li>Q. The fourth weakness that you the flaw you identified in the NCI 2018 study is that it relied on self-reporting; correct?</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> <li>MR. LITZENBURG: You don't have to answer any questions about this, especially if you haven't read it.</li> <li>A. I really don't remember.</li> </ul> </li> <li>BY MR. GRIFFIS: <ul> <li>Q. Turn to Page 9, sir.</li> </ul> </li> </ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>going to affect the health outcome and the bias is almost equally distributed, then that's nondifferential bias.</li> <li>Q. And people who are doing cohort studies have ways to assess whether they have differential biases and control for those; correct?</li> <li>A. I think there are lots of statistical methods in an attempt to control for some of these things, yes.</li> <li>Q. And do you know which ones were used in the NCI 2018 study?</li> <li>A. They</li> <li>Q. How effective they were?</li> <li>A. They did the sensitivity analysis that we talked about. They also looked at some of the patients that answered only both questionnaires in an attempt to get the information only from the folks who answered the questions.</li> <li>Q. The fourth weakness that you the flaw you identified in the NCI 2018 study is that it</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>MR. LITZENBURG: He's not answering any questions about that.</li> <li>A. Why are we talking about malathion?</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Sir, you understand that the IARC Working</li> <li>Group 112, when it did its analysis of glyphosate that you relied on in part for your conclusions, also did analyses of some other pesticides, including malathion?</li> <li>A. I understand that they looked at other compounds as well as glyphosate, yes.</li> <li>Q. And did you understand that they put some of their global analyses into the malathion monograph and said so in their overview publications rather than repeating them over and over again in each monograph?</li> <li>MR. LITZENBURG: You don't have to answer any questions about this, especially if you haven't read it.</li> <li>A. I really don't remember.</li> </ul> </li> </ul>

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 26 of 48

	Page 94	Page 96
1	before.	<sup>1</sup> Epidemiological Body of Data."
2	Q. Yes, sir.	<sup>2</sup> A. Okay. I see that.
3	Turn to Page 9 where they discuss the	<sup>3</sup> Q. "All of the studies" I'm in the second
4	Agricultural Health Study.	<sup>4</sup> paragraph, "All of the studies addressed historical
5	A. Sure.	<sup>5</sup> exposure to pesticides. Therefore, the use of
6	Q. Do you see that they said, "Great efforts	<sup>6</sup> biomarkers or monitoring data was not feasible at
7	were made in the Agricultural Health Study to assess	<sup>7</sup> the individual subject level. Almost all of the
8	exposure among agricultural pesticide applicators	<sup>8</sup> studies relied on self-reported data which, as
9	and their spouses. These questionnaires and	<sup>9</sup> discussed above, is reasonably reliable and valid
10	algorithms have been extensively described and have	<sup>10</sup> when applicators were reporting their own use, but
11	undergone several tests for reliability and accuracy	<sup>11</sup> may not be suitable for spouses or other farm
12	that have provided considerable insight into the	<sup>12</sup> workers, particularly those exposed by reentry."
13	quality of this exposure assessment"?	<sup>13</sup> Do you see that, sir?
14	A. I read that.	<sup>14</sup> A. I see that.
15	Q. Do you disagree with IARC's assessment	<sup>15</sup> Q. And you agree with me that pretty much all
16	there, sir?	<sup>16</sup> of the epidemiology studies that we have discussed
17	MR. LITZENBURG: Object to form.	<sup>17</sup> together at any time concerning glyphosate and
18	THE WITNESS: Sorry.	<sup>18</sup> non-Hodgkin's lymphoma rely on self-reported data;
19	MR. LITZENBURG: I was just objecting again	<sup>19</sup> right?
20	to a document that had nothing to do with the	A. Yes, it does.
21	topic at hand.	<sup>21</sup> Q. Do you agree with the IARC that such data
22	A. I don't necessarily disagree, but I have	<ul> <li>is reasonably reliable and valid when applicators</li> <li>were reporting their own use but might not be</li> </ul>
23 24	not seen what type of these tests that were that	were reporting then own use out hight not be
24	were applied, and that particular paragraph is not	suitable for others, as described here?
20	referenced. There is no reference. But I'm	A. I mean, for the most part, yeah. I mean,
	Page 95	Page 97
1		
1 2	Page 95 assuming they are going to expand on this in subsequent paragraphs.	
	assuming they are going to expand on this in	<sup>1</sup> to the extent possible, you probably would remember
2	assuming they are going to expand on this in subsequent paragraphs.	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> </ul>
2 3	assuming they are going to expand on this in subsequent paragraphs. BY MR. GRIFFIS:	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> </ul>
2 3 4	assuming they are going to expand on this in subsequent paragraphs. BY MR. GRIFFIS: Q. Yes	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> </ul>
2 3 4 5	assuming they are going to expand on this in subsequent paragraphs. BY MR. GRIFFIS: Q. Yes A. So I have no reason to doubt this	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> </ul>
2 3 4 5 6	assuming they are going to expand on this in subsequent paragraphs. BY MR. GRIFFIS: Q. Yes A. So I have no reason to doubt this statement. Q. Okay. Well, you do know, because we discussed it, that there are there were internal	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> </ul>
2 3 4 5 7 8 9	assuming they are going to expand on this in subsequent paragraphs. BY MR. GRIFFIS: Q. Yes A. So I have no reason to doubt this statement. Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> </ul>
2 3 5 6 7 8 9 10	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms,</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced</li> </ul>	<ul> <li>to the extent possible, you probably would remember more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> </ul> </li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> </ul>	<ul> <li>to the extent possible, you probably would remember more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> </ul> </li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> <li>A. I have not read, yes, correct.</li> </ul>	<ul> <li>to the extent possible, you probably would remember more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> <li>extensive work and they had working groups and they</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> <li>A. I have not read, yes, correct.</li> <li>Q. Okay.</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> <li>extensive work and they had working groups and they</li> <li>looked at the body of literature and genotoxicity</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> <li>A. I have not read, yes, correct.</li> <li>Q. Okay.</li> <li>A. But I have seen it referenced.</li> </ul>	<ul> <li>to the extent possible, you probably would remember more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> <li>extensive work and they had working groups and they</li> <li>looked at the body of literature and genotoxicity</li> <li>and everything to come up with the conclusion.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> <li>A. I have not read, yes, correct.</li> <li>Q. Okay.</li> <li>A. But I have seen it referenced.</li> <li>Q. On Page 11, sir, do you see at the bottom</li> </ul>	<ul> <li>to the extent possible, you probably would remember more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> <li>extensive work and they had working groups and they</li> <li>looked at the body of literature and genotoxicity</li> <li>and everything to come up with the conclusion.</li> <li>Q. Okay. What they are talking about what</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS: <ul> <li>Q. Yes</li> </ul> </li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> <li>A. I have not read, yes, correct.</li> <li>Q. Okay.</li> <li>A. But I have seen it referenced.</li> <li>Q. On Page 11, sir, do you see at the bottom of the first column, this is a section entitled</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> <li>extensive work and they had working groups and they</li> <li>looked at the body of literature and genotoxicity</li> <li>and everything to come up with the conclusion.</li> <li>Q. Okay. What they are talking about what</li> <li>the IARC is talking about here is not themselves,</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>assuming they are going to expand on this in subsequent paragraphs.</li> <li>BY MR. GRIFFIS:</li> <li>Q. Yes</li> <li>A. So I have no reason to doubt this statement.</li> <li>Q. Okay. Well, you do know, because we discussed it, that there are there were internal checks, the sensitivity analyses that were described within the NCI 2018 paper; correct?</li> <li>A. Yes.</li> <li>Q. And you also know that there are a large body, or a body anyway, of separate articles testing various aspects of the AHS model, their algorithms, their exposure assessments, et cetera, and that's a body of literature that you have seen referenced from time to time but haven't yourself read; is that right?</li> <li>A. I have not read, yes, correct.</li> <li>Q. Okay.</li> <li>A. But I have seen it referenced.</li> <li>Q. On Page 11, sir, do you see at the bottom</li> </ul>	<ul> <li>to the extent possible, you probably would remember</li> <li>more than the spouses would remember, but I think</li> <li>there were still some limitations that we talked</li> <li>about.</li> <li>Q. Okay. In the case of the NCI 2018 data,</li> <li>that would be applicators reporting their own use;</li> <li>right?</li> <li>A. That's correct.</li> <li>Q. The next the top of the next column, it</li> <li>says, "Apart from the AHS," that's the dataset from</li> <li>which NCI 2018 is drawn, "Apart from the AHS, few of</li> <li>the studies included expert review of the data or</li> <li>performed validity or reliability studies." Right?</li> <li>A. I read that.</li> <li>Q. Do you know if any of the epidemiology</li> <li>studies that you rely on that included expert review</li> <li>of the data were validity or reliability studies?</li> <li>A. I think the IARC, the IARC has done an</li> <li>extensive work and they had working groups and they</li> <li>looked at the body of literature and genotoxicity</li> <li>and everything to come up with the conclusion.</li> <li>Q. Okay. What they are talking about what</li> <li>the IARC is talking about here is not themselves,</li> </ul>

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 27 of 48

		1	
	Page 98		Page 100
1	That's what the header says there.	1	paragraph stub, but the first full paragraph there,
2	MR. LITZENBURG: You are not suggesting	2	about right in the middle of it, there's a sentence
3	this is about glyphosate; right? We are still	3	that says "methodological studies."
4	looking at the malathion document.	4	A. Yep, I see it.
5	MR. GRIFFIS: Sir, this is about	5	Q. Okay. "Methodological studies were
6	everything.	6	completed to assess the reliability and validity of
7	MR. LITZENBURG: You are suggesting this is	7	the pesticide information provided by the
8	about glyphosate?	8	applicators." Again, we are talking about the AHS
9	MR. GRIFFIS: Yes. The malathion was where	9	data, and they cite a couple of them there. Do you
10	they collected general conclusions and general	10	see that, sir?
11	analyses information.	11	A. I see that.
12	MR. LITZENBURG: So your suggestion when it	12	Q. So these are some of the outside studies,
13	says "other epidemiological studies," that's	13	not contained internally to NCI 2018, but some of
14	referring to glyphosate? In this Exhibit 4?	14	the outside studies that supported the data
15	MR. GRIFFIS: I've given you my answer.	15	analyses; right?
16	I'm not going to discuss it further with you.	16	A. I you know, I have to read the entire
17	MR. LITZENBURG: Okay. Again, object, and	17	124 I can't you can't just give me one small,
18	you don't have to answer any questions about	18	little three lines in one page in a document I
19	malathion or IARC's assessment of it.	19	haven't read and expect me to comment. I have no
20	BY MR. GRIFFIS:	20	comment on that.
21	Q. I won't ask you a single question about	21	Q. The imputation method for the AHS is
22	malathion, apart from the AHS. So do you know if	22	discussed at the bottom of Page 21; right?
23	any of the epidemiology studies that you relied on,	23	A. I see the word "imputation method," yes.
24 25	sir, any of the epidemiology studies that included	24 25	Q. And at the very end of this section, sir,
25	expert review of the data or included validity or	23	it says, "The working group considered the AHS to be
	Page 99		Page 101
1	Page 99	_	Page 101
1	reliability studies in support of themselves?	1	a highly informative study." Right?
2	reliability studies in support of themselves? A. I am not aware of of the expert's review	2	a highly informative study." Right? A. Yes, it's highly informative.
2 3	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked	2 3	<ul><li>a highly informative study." Right?</li><li>A. Yes, it's highly informative.</li><li>Q. And you agree with them?</li></ul>
2 3 4	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document	2 3 4	<ul><li>a highly informative study." Right?</li><li>A. Yes, it's highly informative.</li><li>Q. And you agree with them?</li><li>A. It is informative, yes.</li></ul>
2 3 4 5	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing	2 3 4 5	<ul><li>a highly informative study." Right?</li><li>A. Yes, it's highly informative.</li><li>Q. And you agree with them?</li><li>A. It is informative, yes.</li><li>Q. Do you agree with them that it's highly</li></ul>
2 3 4 5 6	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's	2 3 4 5 6	<ul><li>a highly informative study." Right?</li><li>A. Yes, it's highly informative.</li><li>Q. And you agree with them?</li><li>A. It is informative, yes.</li><li>Q. Do you agree with them that it's highly informative?</li></ul>
2 3 4 5 6 7	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire	2 3 4 5 6 7	<ul><li>a highly informative study." Right?</li><li>A. Yes, it's highly informative.</li><li>Q. And you agree with them?</li><li>A. It is informative, yes.</li><li>Q. Do you agree with them that it's highly informative?</li><li>A. It is informative. I've answered that.</li></ul>
2 3 4 5 6	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.	2 3 4 5 6 7 8	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly</li> </ul>
2 3 4 5 6 7 8	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion. MR. LITZENBURG: Do you have any more	2 3 4 5 6 7	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> </ul>
2 3 4 5 6 7 8 9	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion. MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would	2 3 4 5 6 7 8 9	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> </ul>
2 3 4 5 6 7 8 9 10	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion. MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.	2 3 4 5 6 7 8 9 10	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. It is informative.</li> <li>Q. Is it not highly informative?</li> </ul>
2 3 4 5 6 7 8 9 10 11	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion. MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down. MR. GRIFFIS: These are questions about	2 3 4 5 6 7 8 9 10 11	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion. MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. It is informative.</li> <li>Q. Is it not highly informative?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 12 13	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	reliability studies in support of themselves? A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion. MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down. MR. GRIFFIS: These are questions about Andreotti.	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in the left-hand column, the first column, in the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in the left-hand column, the first column, in the middle, I'm at a sentence starting "methodological</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> <li>A. Just to me, informative is the proper</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page</li> <li>I'm going to direct you to in this document in the left-hand column, the first column, in the middle, I'm at a sentence starting "methodological studies were completed."</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> <li>A. Just to me, informative. I don't like</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in the left-hand column, the first column, in the middle, I'm at a sentence starting "methodological studies were completed."</li> <li>Do you see that?</li> <li>A. One second.</li> <li>Q. Sure.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> <li>A. Just to me, informative is the proper way of saying something informative. I don't like using superlatives.</li> <li>Q. Do you understand, sir, that IARC classifies the evidence that they rely on, including</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in the left-hand column, the first column, in the middle, I'm at a sentence starting "methodological studies were completed."</li> <li>Do you see that?</li> <li>A. One second.</li> <li>Q. Sure.</li> <li>A. In the left column, you said?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> <li>A. Just to me, informative is the proper way of saying something informative. I don't like using superlatives.</li> <li>Q. Do you understand, sir, that IARC classifies the evidence that they rely on, including into the category of highly informative?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in the left-hand column, the first column, in the middle, I'm at a sentence starting "methodological studies were completed."</li> <li>Do you see that?</li> <li>A. One second.</li> <li>Q. Sure.</li> <li>A. In the left column, you said?</li> <li>Q. Left column, that in the first paragraph</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> <li>A. Just to me, informative is the proper way of saying something informative. I don't like using superlatives.</li> <li>Q. Do you understand, sir, that IARC classifies the evidence that they rely on, including into the category of highly informative?</li> <li>A. I do.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>reliability studies in support of themselves?</li> <li>A. I am not aware of of the expert's review or reliability studies, but have not looked specifically at that. And, again, this document that you provided looks like it's discussing specifically malathion, to my at least that's what it says, unless I'm confused. The entire document is malathion.</li> <li>MR. LITZENBURG: Do you have any more questions about Andreotti? Otherwise, I would say we ought to just shut it down.</li> <li>MR. GRIFFIS: These are questions about Andreotti.</li> <li>BY MR. GRIFFIS:</li> <li>Q. On Page 21, sir this is the last page I'm going to direct you to in this document in the left-hand column, the first column, in the middle, I'm at a sentence starting "methodological studies were completed."</li> <li>Do you see that?</li> <li>A. One second.</li> <li>Q. Sure.</li> <li>A. In the left column, you said?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>a highly informative study." Right?</li> <li>A. Yes, it's highly informative.</li> <li>Q. And you agree with them?</li> <li>A. It is informative, yes.</li> <li>Q. Do you agree with them that it's highly informative?</li> <li>A. It is informative. I've answered that.</li> <li>Q. Okay. Do you disagree that it's highly informative?</li> <li>A. It is informative.</li> <li>Q. Is it not highly informative?</li> <li>A. Define "highly informative" to me.</li> <li>Q. You have</li> <li>A. What's the difference between informative and highly informative?</li> <li>Q. Well, you wouldn't go along with "highly informative," sir, so what is the difference to you?</li> <li>A. Just to me, informative is the proper way of saying something informative. I don't like using superlatives.</li> <li>Q. Do you understand, sir, that IARC classifies the evidence that they rely on, including into the category of highly informative?</li> </ul>

	Page 102		Page 104
1	the IARC Monograph, sir?	1	in the highest category?
2	A. You are talking the monograph that we	2	A. I think that, frankly, would have more
3	discussed last deposition?	3	weight in my mind just well, more weight, in
4	Q. Yeah, and I'm not talking about the one	4	essence, that it was the first time it was reported
5	labeled "Glyphosate," but the preamble that applies	5	in a peer-reviewed literature. This one has the
6	to every monograph that they do.	6	more weight, it has more cases, and it's longer
7	A. I have reviewed the one that we discussed	7	follow-up. But the first time you report ever on a
8	at the last deposition. I didn't review it for	8	particular study is really when people are more
9	today, but I reviewed it for the last deposition.	9	interested in trying to understand what's the output
10	Q. Okay. Do you recall classification of	10	of that of that particular research.
11	A. It was classified	11	Q. So DeRoos 2005 would be in your top
12	Q things into various no. Do you	12	category because it's first?
13	recall classification of pieces of evidence into	13	A. Because it's the first time, but this one
14	categories	14	has, again, longer follow-up as well as more cases,
15	A. Yes.	15	so you can't really dismiss that. It's very
16	Q as to informativeness?	16	important.
17	A. Yes.	17	Q. The last flaw that you identified in your
18	Q. And that highly informative is their top	18	supplemental expert report is and we agreed that
19	category?	19	it wasn't a flaw so much as a point that you were
20	A. I I you asked me. I said I don't	20	making.
21	usually I mean, we have a lot in the	21	A. Yes.
22	literature, sometimes you have to divide the	22	Q that there was an increased risk of
23	evidence based on certain categories based on	23	multiple myeloma with glyphosate exposure?
24	highly, less, and so forth. You asked my opinion,	24	A. And acute leukemia that the authors talk
25	did I personally, Chadi Nabhan does not like to	25	about.
	and I personally, chad I tuohan does not like to		
	Page 103		Page 105
1	Page 103	1	Page 105
1	use superlatives. That's all.	1	Q. Would you show me where the increased risk
2	use superlatives. That's all. Q. Right. So	2	Q. Would you show me where the increased risk of multiple myeloma in that statement is?
2 3	use superlatives. That's all. Q. Right. So A. That's all I said.	2 3	<ul><li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li><li>A. I think the authors talked about two</li></ul>
2 3 4	use superlatives. That's all. Q. Right. So A. That's all I said. Q. And I'm trying to help you not need to.	2 3 4	<ul><li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li><li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is</li></ul>
2 3 4 5	use superlatives. That's all. Q. Right. So A. That's all I said. Q. And I'm trying to help you not need to. I'm just reminding you about this fact about IARC,	2 3 4 5	<ul><li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li><li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for</li></ul>
2 3 4	use superlatives. That's all. Q. Right. So A. That's all I said. Q. And I'm trying to help you not need to. I'm just reminding you about this fact about IARC, that they do use that superlative for their highest	2 3 4 5 6	<ul><li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li><li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li></ul>
2 3 4 5 6 7	use superlatives. That's all. Q. Right. So A. That's all I said. Q. And I'm trying to help you not need to. I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.	2 3 4 5 6 7	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the</li> </ul>
2 3 4 5 6 7 8	use superlatives. That's all. Q. Right. So A. That's all I said. Q. And I'm trying to help you not need to. I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on. A. I'm aware.	2 3 4 5 6 7 8	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases</li> </ul>
2 3 4 5 7 8 9	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word</li> </ul>	2 3 4 5 6 7 8 9	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let</li> </ul>
2 3 6 7 8 9 10	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word</li> <li>"highly," would you put the NCI 2018 study into your</li> </ul>	2 3 4 5 6 7 8 9 10	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word</li> <li>"highly," would you put the NCI 2018 study into your top category, your most influential category, as a</li> </ul>	2 3 4 5 6 7 8 9 10 11	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	use superlatives. That's all. Q. Right. So A. That's all I said. Q. And I'm trying to help you not need to. I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on. A. I'm aware. Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?	2 3 4 5 6 7 8 9 10 11 12	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 12	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I</li> </ul>	2 3 4 5 7 8 9 10 11 12 13 14	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word</li> <li>"highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word</li> <li>"highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma. And then the association for NHL was not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma. And then the association for NHL was not meaningfully changed where multiple myeloma was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study. So it's hard for me to put this at the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.</li> <li>And then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study.</li> <li>So it's hard for me to put this at the highest evidence. It's not reporting any new</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma. And then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study.</li> <li>So it's hard for me to put this at the highest evidence. It's not reporting any new evidence. It's not a new study. It doesn't really</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.</li> <li>And then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not statistically significant, but they observed an</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word</li> <li>"highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study.</li> <li>So it's hard for me to put this at the highest evidence. It's not reporting any new evidence. It's not a new study. It doesn't really add anything except giving me additional years of</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.</li> <li>Mnd then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not statistically significant, but they observed an increased risk of acute myeloid leukemia among</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study.</li> <li>So it's hard for me to put this at the highest evidence. It's not a new study. It doesn't really add anything except giving me additional years of follow-up and additional cases. So I'm not really</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Would you show me where the increased risk of multiple myeloma in that statement is? A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you. So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma. And then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not statistically significant, but they observed an increased risk of acute myeloid leukemia among applicators in the highest quartile of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study. So it's hard for me to put this at the highest evidence. It's not reporting any new evidence. It's not a new study. It doesn't really add anything except giving me additional years of follow-up and additional cases. So I'm not really sure why I would give it the highest category</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.</li> <li>And then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not statistically significant, but they observed an increased risk of acute myeloid leukemia among applicators in the highest quartile of intensity-weighted glyphosate use compared to never</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study.</li> <li>So it's hard for me to put this at the highest evidence. It's not reporting any new evidence. It's not a new study. It doesn't really add anything except giving me additional years of follow-up and additional cases. So I'm not really sure why I would give it the highest category possible.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.</li> <li>Mnd then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not statistically significant, but they observed an increased risk of acute myeloid leukemia among applicators in the highest quartile of intensity-weighted glyphosate use compared to never users.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>use superlatives. That's all.</li> <li>Q. Right. So</li> <li>A. That's all I said.</li> <li>Q. And I'm trying to help you not need to.</li> <li>I'm just reminding you about this fact about IARC, that they do use that superlative for their highest level of evidence that they rely on.</li> <li>A. I'm aware.</li> <li>Q. So would you without using the word "highly," would you put the NCI 2018 study into your top category, your most influential category, as a piece of evidence like IARC did?</li> <li>A. So, personally, I would not, because it's a follow-up study to a previously reported study. I mean, I think I've said that probably about ten times so far. This is a follow-up study with longer follow-up on a previously reported study. So it's hard for me to put this at the highest evidence. It's not reporting any new evidence. It's not a new study. It doesn't really add anything except giving me additional years of follow-up and additional cases. So I'm not really sure why I would give it the highest category</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Would you show me where the increased risk of multiple myeloma in that statement is?</li> <li>A. I think the authors talked about two diseases. One is acute myeloid leukemia, and one is multiple myeloma. I will try to research that for you.</li> <li>So I think under in Page 3/8 under the results, they go over the various type of diseases that they actually have, and they talk about let me just read that for you. One second. Where is the I think they add they add non-Hodgkin lymphoma there was also no evidence for association with NHL or any NHL subtypes, the rate ratio in the top exposure quartile was 0.87 for NHL and 0.87 for myeloma.</li> <li>And then the association for NHL was not meaningfully changed where multiple myeloma was excluded, and then they talk about acute myeloid leukemia. They do acknowledge it was not statistically significant, but they observed an increased risk of acute myeloid leukemia among applicators in the highest quartile of intensity-weighted glyphosate use compared to never</li> </ul>

# Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 29 of 48

	Page 106		Page 108
1	multiple myeloma with glyphosate	1	A. Yes.
2	A. It's acute myeloid leukemia.	2	Q. And for four quartiles it shows the point
3	Q. Okay. You were wrong about the multiple	3	estimates and confidence intervals, for quartiles 1
4	myeloma in the NCI 2018?	4	through 3, their point estimates are below 1, and
5	A. I think I meant to said "acute myeloid	5	it's exactly 1 for the fourth quartile, and all of
6	leukemia." I'm sorry.	6	it is not significant; right?
7	Q. Okay. Do you claim that glyphosate causes	7	A. That's correct.
8	acute myeloid leukemia?	8	Q. And the similar pattern of spanning the
9	A. No, I don't think you can claim that. I	9	confidence interval and showing no significant
10	think you could say you could say that there was	10	association with most of the point estimates being
11	a trend for increased acute myeloid leukemia,	11	below 1.0 applies to Hodgkin lymphoma, non-Hodgkin
12	although that trend was not statistically	12	lymphoma in general, B-cell non-Hodgkin lymphoma,
13	significant. So it's I think additional studies	13	chronic lymphocytic lymphoma, diffuse large B-cell
14	might be needed just to better understand whether	14	lymphoma, marginal-zone lymphoma, follicular
15	there is really increases for acute myeloid	15	lymphoma, and multiple myeloma; right?
16	leukemia, but this the NCI study is not	16	A. Yes.
17	conclusive about the association between glyphosate	17	Q. The non-Hodgkin lymphoma T-cell is also not
18	and acute myeloid leukemia.	18	significant with a P trend of .31, although there
19	Q. On Table 2, sir	19	the point estimates are vary from the previous
20	A. Of of the study?	20	set, they are above 1; right?
21	Q. Of Exhibit 2, yes, the NCI 2018.	21	A. Say again the last.
22	A. Okay.	22	Q. Yes.
23	Q. Table 2 is one of the tables giving the	23	The non-Hodgkin lymphoma T-cell
24	results in numerical form; correct?	24	A. Uh-huh.
25	A. I see that, yeah.	25	Q. First of all, there is not very many cases
	Page 107		Page 109
1	Q. For all cancers, there was no association,	1	for non-Hodgkin lymphoma T-cell compared to some of
2	P values were just above and just below 1.0 for all	2	these others; right?
3	quartiles, and the P trend was .91; correct?	3	A. Right, there is nothing.
4	A. Yes, the risk ratio was yeah, I see	4	Q. And the P trend is .31, showing no
5	that.	5	significant trend; correct?
б	Q. Okay. So it showed no association the	6	A. Correct.
7	NCI 2018 showed no association for all cancers	7	Q. And the confidence the point estimates
8	grouped together; right?	8	here are 1 for no exposure for the first M, which is
9	A \$7	9	
	A. Yes.		the first half of the data they had to use halves
10	Q. And what is a P trend?	10	because there was so little data the point
11	<ul><li>Q. And what is a P trend?</li><li>A. It's just how the P is changing compared to</li></ul>	10 11	because there was so little data the point estimate is 4.25, the confidence interval spans 1,
11 12	<ul><li>Q. And what is a P trend?</li><li>A. It's just how the P is changing compared to the quartiles.</li></ul>	10 11 12	because there was so little data the point estimate is 4.25, the confidence interval spans 1, and the point estimate goes down for the higher
11 12 13	<ul><li>Q. And what is a P trend?</li><li>A. It's just how the P is changing compared to the quartiles.</li><li>Q. And it's a way of measuring multiple</li></ul>	10 11 12 13	because there was so little data the point estimate is 4.25, the confidence interval spans 1, and the point estimate goes down for the higher exposed group to 1.53, and, again, the confidence
11 12 13 14	<ul><li>Q. And what is a P trend?</li><li>A. It's just how the P is changing compared to the quartiles.</li><li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple</li></ul>	10 11 12 13 14	because there was so little data the point estimate is 4.25, the confidence interval spans 1, and the point estimate goes down for the higher exposed group to 1.53, and, again, the confidence interval spans 1. That's a nonsignificant finding;
11 12 13 14 15	<ul><li>Q. And what is a P trend?</li><li>A. It's just how the P is changing compared to the quartiles.</li><li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li></ul>	10 11 12 13 14 15	because there was so little data the point estimate is 4.25, the confidence interval spans 1, and the point estimate goes down for the higher exposed group to 1.53, and, again, the confidence interval spans 1. That's a nonsignificant finding; right?
11 12 13 14 15 16	<ul><li>Q. And what is a P trend?</li><li>A. It's just how the P is changing compared to the quartiles.</li><li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li><li>A. Sure, right.</li></ul>	10 11 12 13 14 15 16	because there was so little data the point estimate is 4.25, the confidence interval spans 1, and the point estimate goes down for the higher exposed group to 1.53, and, again, the confidence interval spans 1. That's a nonsignificant finding; right? A. Correct.
11 12 13 14 15 16 17	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered</li> </ul>	10 11 12 13 14 15 16 17	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> </ul>
11 12 13 14 15 16 17 18	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> </ul>	10 11 12 13 14 15 16 17 18	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> </ul>
11 12 13 14 15 16 17 18 19	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> </ul>	10 11 12 13 14 15 16 17 18 19	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> </ul>
11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> <li>Q. Okay. Let's skip over a bunch of solid</li> </ul>	10 11 12 13 14 15 16 17 18 19 20	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> <li>Q. Yeah.</li> </ul>
11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> <li>Q. Okay. Let's skip over a bunch of solid tumors here and go to lymphohematopoietic cancer.</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> <li>Q. Yeah.</li> <li>Acute myeloid leukemia, as we discussed, is</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> <li>Q. Okay. Let's skip over a bunch of solid tumors here and go to lymphohematopoietic cancer. It's on the next page.</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> <li>Q. Yeah.</li> <li>Acute myeloid leukemia, as we discussed, is</li> <li>not a significant finding, but they suggested that</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> <li>Q. Okay. Let's skip over a bunch of solid tumors here and go to lymphohematopoietic cancer.</li> <li>It's on the next page.</li> <li>A. Okay.</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> <li>Q. Yeah.</li> <li>Acute myeloid leukemia, as we discussed, is</li> <li>not a significant finding, but they suggested that</li> <li>it was a possible trend to be looked at in future</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> <li>Q. Okay. Let's skip over a bunch of solid tumors here and go to lymphohematopoietic cancer.</li> <li>It's on the next page.</li> <li>A. Okay.</li> <li>Q. So the lymphohematopoietic groups together</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> <li>Q. Yeah.</li> <li>Acute myeloid leukemia, as we discussed, is</li> <li>not a significant finding, but they suggested that</li> <li>it was a possible trend to be looked at in future</li> <li>studies, and you agreed with that; is that correct?</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. And what is a P trend?</li> <li>A. It's just how the P is changing compared to the quartiles.</li> <li>Q. And it's a way of measuring multiple confidence intervals at once, to put it in simple terms; right?</li> <li>A. Sure, right.</li> <li>Q. And it needs to be .05 to be considered statistically significant; right?</li> <li>A. Yes.</li> <li>Q. Okay. Let's skip over a bunch of solid tumors here and go to lymphohematopoietic cancer.</li> <li>It's on the next page.</li> <li>A. Okay.</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>because there was so little data the point</li> <li>estimate is 4.25, the confidence interval spans 1,</li> <li>and the point estimate goes down for the higher</li> <li>exposed group to 1.53, and, again, the confidence</li> <li>interval spans 1. That's a nonsignificant finding;</li> <li>right?</li> <li>A. Correct.</li> <li>Q. And that one is not broken down further</li> <li>into further subtypes of T-cell lymphomas; right?</li> <li>A. There's not enough cases.</li> <li>Q. Yeah.</li> <li>Acute myeloid leukemia, as we discussed, is</li> <li>not a significant finding, but they suggested that</li> <li>it was a possible trend to be looked at in future</li> </ul>

#### Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 30 of 48

	Page 110		Page 112
1	Q. You have claimed, sir, that since we're	1	A. Page 7?
2	looking at this subtype breakdown here on Table 2,	2	Q. 107.
3	and you, of course, are claiming to be an expert on	3	A. Oh, 107.
4	non-Hodgkin lymphoma, you've even been designated in	4	Q. Sorry.
5	a letter naming your area of expertise as	5	A. Okay.
б	non-Hodgkin lymphoma in this case. Do you claim to	6	Q. And can you tell us what IARC's assessment
7	be an expert on any particular subtype of	7	overall of malathion was in Section 6.3?
8	non-Hodgkin lymphoma?	8	A. "Malathion is probably carcinogenic to
9	A. All of them.	9	humans (Group 2A)."
10	Q. And you know that there are people there	10	Q. Okay. And that is the assessment that
11	are oncologists who treat non-Hodgkin lymphoma who	11	glyphosate received as well; is that correct?
12	specialize in particular subtypes; correct?	12	A. It is.
13	A. Very rare. Very rare. Some folks just do	13	Q. Okay. And then if you look a couple pages
14	T-cells, some folks do B-cells. But for the most	14	back, let's start on Page 103.
15	part, if you are going to do non-Hodgkin lymphoma,	15	A. Okay.
16	you do non-Hodgkin and Hodgkin, otherwise you can't	16	Q. Now, this document was given to you today,
17	have a practice.	17	and counsel for Monsanto showed you some showed
18	Q. Okay. So your practice is non-Hodgkin plus	18	you some positive comments about the AHS; would you
19	Hodgkin?	19	say that's fair?
20	A. Lymphoma.	20	A. Yes.
21	Q. And all subtypes?	21	Q. Okay. And then Page 103, it says that the
22	A. Both of them are lymphomas.	22	AHS did not find an increase in the relative risk of
23	Q. And there are people who specialize in just	23	non-Hodgkin lymphoma forever versus never use of
24	marginal-zone lymphoma or something, but they	24	malathion, the second-to-last paragraph.
25	would	25	Do you see that?
	would		Do you see mar.
	Page 111		Page 113
1	A. Very, very, very rare.	1	A. I see that.
2	Q. You would find them at a major university	2	Q. Flipping it over to Page 104, the last
3	or referral center?	3	sentence before Section 5.2.2, it says, no excess
4	A. Extremely I mean, and they will have to	4	occurred in the Agricultural Health Study cohort; is
5	have a lot of funding to be able to do that, because	5	that right?
6	there's not enough cases to have a practice.	6	A. Yes.
7	MR. GRIFFIS: Okay. Give me two minutes to	7	Q. And, nonetheless, IARC saw fit to call this
8	see if that's it. I'm either done or almost	8	pesticide a probable human carcinogen; right?
9	done.	9	A. Yes.
10	VIDEOGRAPHER: Going off the record at	10	MR. LITZENBURG: Okay. Nothing further,
11	11:04 A.M.	11	thanks.
12	(Recess taken from 11:04 P.M. to	12	MR. GRIFFIS: Okay.
13	11:05 P.M.)	13	FURTHER EXAMINATION
14	VIDEOGRAPHER: We are we are back on the	14	BY MR. GRIFFIS:
15	record at 11:05 A.M.	15	Q. Malathion, Page 7, sir.
16	MR. GRIFFIS: All right. Thank you for	16	A. Okay.
	your time, Dr. Nabhan. I pass the witness.	17	Q. Do you see that's headed Section 1.4.2,
17	your time, D1. Naonan. 1 pass the witness.		-
17 18	EXAMINATION	18	"Exposure Assessment"?
	•	18 19	"Exposure Assessment"? A. Yes, I see that.
18	EXAMINATION BY MR. LITZENBURG:		•
18 19	EXAMINATION	19	A. Yes, I see that.
18 19 20	EXAMINATION BY MR. LITZENBURG: Q. I just have a couple questions about this monograph about malathion.	19 20	<ul><li>A. Yes, I see that.</li><li>Q. And it reads, "This section summarizes the</li></ul>
18 19 20 21	EXAMINATION BY MR. LITZENBURG: Q. I just have a couple questions about this	19 20 21	<ul><li>A. Yes, I see that.</li><li>Q. And it reads, "This section summarizes the exposure assessment and assignment for</li></ul>
18 19 20 21 22	EXAMINATION BY MR. LITZENBURG: Q. I just have a couple questions about this monograph about malathion. Have you ever seen this before today?	19 20 21 22	A. Yes, I see that. Q. And it reads, "This section summarizes the exposure assessment and assignment for epidemiological studies of cancer and exposure to
18 19 20 21 22 23	EXAMINATION BY MR. LITZENBURG: Q. I just have a couple questions about this monograph about malathion. Have you ever seen this before today? A. No, I have not.	19 20 21 22 23	A. Yes, I see that. Q. And it reads, "This section summarizes the exposure assessment and assignment for epidemiological studies of cancer and exposure to the pesticides considered in the present volume

#### Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 31 of 48

	Page 114	Page 116
1	A. I see that.	<sup>1</sup> ERRATA SHEET FOR THE TRANSCRIPT OF:
2	MR. GRIFFIS: No further questions.	<sup>2</sup> CASE NAME: In re: Roundup Products Liability
3	MR. LITZENBURG: Okay. None.	<ul> <li><sup>3</sup> DEPOSITION DATE: January 15, 2018</li> <li><sup>4</sup> WITNESS NAME: Dr. Chadi Nabhan</li> </ul>
4	VIDEOGRAPHER: This concludes the	<sup>5</sup> Reason codes:
5	deposition of Dr. Chadi Nabhan. We are off the	<ul> <li>6 1. To clarify the record.</li> <li>2. To conform to the facts.</li> </ul>
6	record at 11:08 A.M.	<ul><li>7 3. To correct transcription errors.</li></ul>
7	(Time noted: 11:08 A.M.)	<sup>8</sup> Page Line Reason From to
8		9
9		Page Line Reason           10         From to
10	DR. CHADI NABHAN	<sup>11</sup> Page <u>Line</u> Reason <u></u>
11		From to
12	SUBSCRIBED TO AND SWORN BEFORE ME	Page Line Reason
13	THIS DAY OF, 20	<sup>13</sup> From to
14		14         Page Line Reason           From to
	(Notary Public) MY COMMISSION EXPIRES:	15
15		Page Line Reason           16         From to
16		<sup>17</sup> Page Line Reason
17		From to
18 19		Page Line Reason           19         From to
		<sup>19</sup> From to
20 21		
22		<ol> <li>DR. CHADI NABHAN</li> <li>SUBSCRIBED TO AND SWORN BEFORE ME</li> </ol>
23		THIS DAY OF, 20
24		23
25		24 (Notary Public) MY COMMISSION EXPIRES:
		25
	Page 115	
1	CERTIFICATE	
2	I, Paula Campbell, CSR, RDR, CRR, CRC, do	
3	hereby certify that on Monday, January 15, 2018	
4	appeared before me, DR. CHADI NABHAN.	
5	I further certify that the said witness was	
б	first duly sworn to testify to the truth in the	
7	cause aforesaid.	
8	I further certify that the signature of the	
9 10	witness to the foregoing deposition was not	
11	specified by counsel. I further certify that I am not counsel for	
12	nor in any way related to any of the parties to	
13	this suit, nor financially interested in the	
14	action.	
15	IN TESTIMONY WHEREOF, I have hereunto set my	
16	hand on this 15th day of January, 2018.	
17	· · ·	
18		
19	Paula Campbell, CSR, RDR, CRR, CRC	
	Certified Shorthand Reporter	
20	Registered Diplomate Reporter	
21	Certified Realtime Reporter	
21 22	Certified Realtime Captioner Illinois C.S.R. No. 084-003481	
23	11111018 C.S.K. INO. U84-005481	
24		
25		

				2
	addition (1)	ahead (3)	83:12	4:15 6:22 9:7,10,14
A	54:1	33:13 80:15 83:24	anyway (1)	9:23 10:10 11:4
A.M (10)	additional (24)		95:13	12:17,20 18:19 60:8
2:8 5:11 78:11,12,13		<b>AHS (27)</b> 11:17 40:12 44:15		
78:16 111:11,15	11:17 12:4,25 13:24		apart (3)	articles (2)
114:6,7	14:2,21,24 16:11,11	46:3 52:11 70:1,1	97:10,11 98:22	27:17 95:13
able (5)	16:12,16 29:14	70:17 76:21 77:5	apparent (1)	asked (17)
9:11 39:17 51:1 83:14	37:20,21 40:14	79:2 87:5 88:1,2	19:4	22:8 34:2,17 60:13
111:5	53:14 54:3 76:20	89:12 90:5,16 95:14	appear (1)	72:14 74:11 75:18
absolutely (4)	78:25 86:17 90:20	95:25 97:10,11	107:25	83:7,13 84:15 85:7
34:9 35:15 84:13	103:21,22 106:13	98:22 100:8,21,25	appeared (1)	85:10,21 88:19 89:8
89:10	Additionally (1)	112:18,22	115:4	102:20,24
abstract (2)	40:12	al (1)	appearing (1)	asking (6)
18:25 77:23	address (1)	39:12	6:23	53:4,5 73:4 74:4,7
abstracts (1)	41:23	Alavanjas (1)	applaud (4)	90:19
9:10	addressed (2)	23:9	10:19 11:3,13 51:21	asks (1)
accept (2)	71:12 96:4	algorithms (2)	applicators (10)	7:10
34:13 45:17	addressing (1)	94:10 95:14	19:15 86:22 89:14	aspects (1)
acceptance (1)	73:1	allowed (1)	90:23 94:8 96:10,22	95:14
27:13	adds (6)	87:2	97:6 100:8 105:22	assess (5)
accepted (6)	13:23 14:5,8,12,21	alter (2)	applied (10)	53:22 56:7 91:8 94:7
26:23 27:11,19,24	16:14	81:2,5	9:24 10:13 36:20,21	100:6
30:9 39:1	adjust (2)	amputation (1)	45:12 61:15 69:2	assessed (3)
access (1)	89:24 90:2	65:16	71:14 89:15 94:24	50:12 56:15,17
32:8	adjusted (1)	analyses (15)	applies (3)	assessing (1)
	47:4	54:2 55:4,24 56:1,11	33:11 102:5 108:11	15:16
account (4) $44.2, 2, 74.0, 86.16$	admission (1)	60:7 61:2 62:11,20	apply (24)	assessment (7)
44:2,3 74:9 86:16	40:17	63:4 93:10,15 95:9	9:22 10:9 21:22,25	94:13,15 98:19 112:6
accounting (5)	advocated (1)	98:11 100:15	30:15 33:20,25 34:2	112:10 113:18,21
40:3 43:22 47:9 71:21	31:23	analysis (17)	34:3,4,6,7,8 36:6	assessments (1)
86:1	affect (4)	38:16,18,22 43:6,9,11	47:13 61:5,20 63:19	95:15
accuracy (1)	59:1,3 90:8 91:4	49:19 50:15 53:5,9	64:12 68:17,18 69:1	assignment (1)
94:11	affiliated (1)	53:9 62:9 63:23,23	69:19,21	113:21
accurate (10)	23:19	90:1 91:17 93:8	applying (1)	associated (4)
13:10,12 25:17,18	Affiliation (1)	analyzed (1)	58:6	59:19 64:1 81:10 84:7
26:10,16 27:7 60:16	22:15	38:19	appropriate (3)	association (19)
73:21 89:13	affiliations (4)	analyzing (2)	37:20 42:2 50:22	5:15 18:11 19:4 20:4
accurately (7)	24:13,15 32:2,9	39:4 43:20	appropriately (1)	56:24 60:22 61:3
19:9,22 20:8,10 43:21	aforesaid (1)	<b>Andreotti (4)</b>	89:6	64:8 65:2,7,10,13
79:13 83:15	115:7	6:22 39:12 99:10,13		105:13,16 106:17
acknowledge (1)			<b>approve (4)</b> 36:2 52:23 53:3,3	107:1,6,7 108:10
105:19	<b>ago (4)</b> 16:8 72:11 83:14	<b>animals (1)</b> 70:12		associations (2)
action (1)	89:19	answer (22)	<b>approved (5)</b> 34:22 35:6,17 36:16	19:16 55:3
115:14				
ACTIONS (1)	agree (26)	35:20 54:19 61:15	36:25	assume (3)
1:7	13:2,6,7 15:25 20:15	66:4,6,14,20 74:9	approximately (1)	51:5 82:3 83:16
actual (3)	20:19 21:7,14 25:14	78:5 81:14,23,24	5:11	assuming (1)
9:10 14:25 21:16	26:12,14 27:23 34:4	82:7 83:8,14,15,19	area (1)	95:1
acute (12)	37:13 38:4 44:13,24	83:20 87:23 93:19	110:5	assumption (1)
40:20 104:24 105:4	48:15,16,20,24	98:15,18	areas (1)	41:14
105:18,21 106:2,5,8	96:15,21 101:3,5	answered (9)	67:11	assure (1)
106:11,15,18	109:25	54:18 55:10 56:18,18	Arkansas (1)	44:16
109:21	agreed (2)	87:1,13 91:19,21	68:9	assuring (1)
add (5)	104:18 109:24	101:7	arrangement (5)	61:13
10:24 13:22 103:21	agricultural (10)	answering (8)	28:9 29:1,3,12 30:16	attempt (2)
105:11,11	4:18 6:25 14:16 15:6	81:17,18,19,20,21	arrangements (1)	91:11,20
adding (1)	16:4 25:12 94:4,7,8	82:9 87:25 93:3	29:20	attention (1)
14:2	113:4	answers (1)	article (12)	8:23
			l	

r				
A 44 ( <b>2</b> )	70.10.20	42,10,11,10,42,10	1.04.0.15.5.15.115.0	1 (2)
Attorneys (2)	78:19,20	42:10,11,19 43:18	1:24 2:15 5:15 115:2	caused (3)
3:3,10	<b>batch (1)</b> 62:2	45:20 48:5,11	115:19	17:20 66:2 84:1
audience (3)	bathroom (1)	<b>blinded (2)</b> 31:24 69:5	cancel (1) 58:25	causes (7)
35:10 36:4,6	76:6		cancer (28)	13:19 52:22 66:17
August (1) 30:3		<b>board (1)</b> 36:13		67:8,19 68:1 106:7
authors (30)	<b>bearing (1)</b> 5:7		4:17 6:24,25 8:15,22	<b>causing (1)</b> 41:3
11:3,14 19:24 22:11	bears (1)	<b>body (20)</b> 11:1 15:22 18:9,14	10:16 11:25 14:10 16:6 18:23 19:14,17	41:5 center (3)
22:15,15,20,24	71:2	27:10,15,23 39:7	20:20 21:8 22:19,25	25:3,4 111:3
23:18 24:12,14,16	began (2)	45:2 52:19 60:11	20.20 21.8 22.19,25 23:12,13,14,19	certain (2)
26:25 29:3 31:15,25	73:18,20	67:13 69:3,6 70:16	24:24,25 25:1,2	68:25 102:23
32:3,9,10,14 33:16	beginning (3)	95:13,13,16 96:1	41:4 54:7 107:21	certainly (1)
37:2,13 38:7 40:17	52:12 78:14 85:23	97:20	113:22	40:13
44:14 53:1 89:23	begs (1)	bottom (4)	cancers (4)	Certified (3)
104:24 105:3	66:11	24:7 30:3 95:22	16:7 19:18 107:1,7	115:19,20,21
automatically (1)	Behalf (1)	100:22	Captioner (1)	certify (4)
28:10	4:14	branch (3)	115:21	115:3,5,8,11
available (3)	believe (22)	23:4,8,21	carcinogen (1)	cetera (7)
32:11 45:2 46:20	11:16,18 15:14,19	branches (1)	113:8	17:7 56:12 69:22
Avenue (1)	28:12 29:15,23 31:4	22:18	carcinogenic (1)	70:13,13 85:4 95:15
3:4	34:11 35:14 39:16	break (4)	112:8	CGP (1)
aware (8)	42:1,22 44:20,22	75:25 77:19 78:3,7	care (3)	23:24
11:24 24:16 28:19	46:7 66:1,13 72:8	breakdown (1)	36:8 45:25 46:6	Chadi (14)
29:7 43:11 45:5	76:19 84:6 89:18	110:2	Carolina (12)	1:15 2:12 4:4,10,23
99:2 103:8	bell (1)	bring (2)	14:7 39:24 65:24	5:3 78:10,15 102:25
	83:23	15:20 75:14	66:11,16 67:6 68:9	114:5,10 115:4
<u> </u>	belong (1)	broader (1)	68:17 69:10,16 70:8	116:4,21
<b>B</b> (3)	22:20	35:10	70:19	challenge (1)
6:5 86:2 95:24	benchmark (1)	broken (1)	case (12)	39:13
B-cell (2)	15:10	109:17	1:4 5:7 25:11 33:22	challenges (1)
108:12,13	best (2)	brought (1)	57:5,10 60:11 85:12	39:11
B-cells (1)	25:15 26:15	7:14	88:3 97:5 110:6	chance (1)
110:14	better (2)	bulge (6)	116:2	8:1
back (12)	85:9 106:14	73:9,18,20 74:17 80:1	case-control (7)	change (9)
15:3,7 30:7 36:17	beyond (1)	80:4	84:5,23 85:3,6,12,17	11:1 14:13,14,15 16:9
60:4 65:18 77:18	43:21	bunch (1)	89:8	37:18 53:13,16,23
78:3,16 87:21	bias (31)	107:20	cases (18)	changed (5)
111:14 112:14	31:15 32:14 33:17	buzz (1)	12:4,18,21,25 14:10	53:23 72:20 87:19
background (1)	37:3,14 58:8,19	48:1	16:12,16 30:17 57:4	
77:23 base (1)	59:11,16,17 81:18	C	57:19 58:2,3 103:22 104:6,14 108:25	changes (2)
<b>base (1)</b> 76:3	82:16 83:3,6,18,25 83:25 84:13,22	$\frac{C}{C(4)}$	104:0,14 108:25	72:24 80:20 changing (4)
70:5 based (16)	85:25 84:15,22 87:21,22,24 88:6,8	3:1 6:5 115:1,1	categories (2)	36:10 73:4 86:12
28:14 45:2 46:13 47:4	88:11,12,15 91:1,1	C.S.R (1)	102:14,23	107:11
47:6 50:9 55:9	91:4,6	115:22	category (7)	characteristics (1)
56:15 68:20 72:4	biased (1)	calculate (1)	101:23 102:19 103:11	70:8
80:6 81:25 87:16	32:4	50:19	103:11,23 104:1,12	charge (1)
88:23 102:23,23	biases (3)	calculated (2)	causal (1)	44:15
basic (2)	82:8 90:7 91:9	54:6 55:9	13:15	check (2)
26:6,7	big (3)	California (2)	causation (7)	54:23,23
basically (8)	59:7 86:14,23	1:2 5:7	4:13 10:5 13:3,5,8,9	checks (5)
14:5 15:2 16:19 25:19	biggest (1)	call (1)	18:10	56:6,20 57:3,20 95:9
41:10 48:4 73:13	51:14	113:7	cause (8)	Chicago (2)
83:18	biomarkers (1)	called (3)	10:18 12:13 15:17	2:12 5:9
basis (6)	96:6	6:6 88:12,14	16:24 53:8 57:12	chief (1)
29:18,18,21 74:21	blanks (7)	Campbell (5)	92:11 115:7	36:13
L				

				Page 3
chronic (1)	column (9)	33:2 37:8 41:13,20	100:13	90:10
108:13	49:15 55:21 61:25	42:25 43:4 44:9	contents (3)	counsel (7)
citation (1)	95:23 97:9 99:17,17	53:7 57:11 68:20	8:24 9:3,6	5:17 8:4 9:2 45:1
50:25	99:23,24	86:10 97:21	context (1)	112:17 115:10,11
cite (1)	come (5)	conclusions (34)	15:21	count (3)
100:9	8:23 25:23 44:25 89:1	10:12,14 16:1,2,16,17	continue (1)	23:16 60:14,16
claim (3)	97:21	16:19,20,21 19:1,11	15:6	counted (2)
106:7,9 110:6	comes (1)	20:9,10 26:9,10	continues (2)	23:1 60:17
claimed (1)	79:2	32:21 33:17 37:3,14	76:13,19	country (1)
110:1	coming (3)	38:5,7,10,11 39:11	continuing (1)	74:2
claiming (1)	11:19 12:19 79:1	42:22 52:20 53:1	78:24	couple (4)
110:3	comment (7)	61:2 65:7 69:13	control (11)	49:8 100:9 111:20
clarified (1)	7:18 8:16 49:3 70:22	85:1 86:13 93:9	18:2 57:5,10 60:11	112:13
78:24	87:25 100:19,20	98:10	68:15 72:18 81:17	course (7)
clarify (1)	comments (1)	conclusive (1)	86:21 88:3 91:9,11	10:2 31:13 38:25
116:6	112:18	106:17	controlled (1)	53:18 71:4 90:13
classic (1)	COMMISSION (2)	concurrent (1)	70:9	110:3
84:4	114:14 116:24	64:16	controls (2)	court (4)
classification (2)	Company (1)	conduct (1)	71:13 85:10	1:1 5:6,14 6:1
102:10,13	3:10	44:19	conviction (3)	CRC (4)
classified (1)	Company's (1)	conducted (4)	16:23 17:24 18:1	1:24 2:15 115:2,19
102:11	4:20	16:10 54:1 62:10,20	convincing (1)	critical (1)
classifies (1)	comparable (1)	conducting (1)	18:10	10:21
101:22	48:25	56:10	core (1)	criticism (8)
clear (3)	compare (1)	confidence (11)	65:23	51:5,8 61:4 63:18
29:11 51:9 70:22	15:10	50:20 62:8 63:11 64:3	correct (105)	64:12 65:22 66:15
clinic (1)	compared (5)	64:22 107:14 108:3	6:14,19,20 7:1,2,5,6	66:17
89:1	58:3 68:8 105:23	108:9 109:7,11,13	8:19,20 11:6,8,9,11	criticisms (3)
clinical (1)	107:11 109:1	conflict (5)	11:23 13:3,13 17:21	51:9 65:20,21
46:7	compelling (1)	24:15 31:19 32:11	17:22 18:21 19:10	criticizing (1)
clinician (9)	28:1	34:19,21	19:11,23 20:9,17	54:13
43:16,19 44:2,25	complete (4)	conflicts (1)	21:23 24:5,6,10,11	critique (2)
46:12 47:21,23	39:15 49:22 50:2 54:7	31:21	24:13,18 25:5,6,9	51:14 61:19
51:17 61:21	completed (6)	conform (1)	26:23 27:3,12 31:12	critiqued (3)
clinicians (1)	40:9 54:25 55:5 63:24	116:6	31:15 34:1 37:5,15	61:7,11,22
49:2	99:19 100:6	confused (2)	38:20,21 39:12,16	critiquing (1)
close (1)	completely (1)	61:6 99:7	39:25 40:1,5,6,10	51:11
42:14	74:12	connection (1)	40:11,15,16,19,20	cross-talk (1)
codes (1)	compound (3)	13:16	40:22,25 41:5 42:24	67:4
116:5	68:5,13 72:23	consider (5)	54:20,21,25 55:14	Crosses (1)
cohort (13)	compounds (2)	10:15 11:25 16:3	55:15,18 56:21 57:1	64:24
19:3 85:19,24 86:5,24	75:6 93:13	40:24 41:8	57:6,21 58:13 59:25	Crowne (2)
86:25 87:11 88:4	Comprehensive (1)	considerable (1)	60:12,24 63:1,8,13	2:12 5:8
89:8 90:6,18 91:7	25:2	94:12	63:21 64:2,20,23	CRR (4)
113:4	computer (1)	consideration (3)	65:14 71:23 79:21	1:24 2:15 115:2,19
coincide (1)	50:21	18:14 31:22 44:21	81:3 83:20 84:9	CSR (4)
55:13	concerning (2)	considered (6)	85:22 89:24 91:9,24	1:24 2:15 115:2,19
colleague (1)	8:13 96:17	18:18,20 63:4 100:25	95:10,19 97:8	cutoff (1)
47:25	concerns (1)	107:17 113:23	106:24 107:3,25	73:17
colleagues (1)	71:2	consistently (1)	108:7 109:5,6,16,24	1,5,11
45:9	conclude (1)	82:25	110:12 112:11	D
collected (7)	56:13	constant (3)	116:7	D (2)
54:9 55:12,18 56:16	concludes (1)	72:19 73:3 86:11	correctly (9)	4:1 6:5
62:13 80:3 98:10	114:4	contain (1)	19:20,21 50:5,6 72:13	<b>D.C</b> (1)
collecting (2)	conclusion (16)	58:21	78:20 88:15 92:3,7	3:12
79:25 80:17	13:9,11 17:18 20:4	contained (1)	correlated (1)	data (96)
17.23 00.17	13.9,11 17.10 20.4			uata (70)
	1	1	1	1

				Page 4
	I	I		
11:7,8,14,21 12:2	3:10	44:18	discount (1)	draft (1)
12:19,22,23 14:3,4	define (3)	designated (1)	52:7	39:6
16:2 18:19 25:16,18	15:18 17:3 101:12	110:4	discovery (1)	drawn (1)
25:21 26:16 35:3	definitely (1)	designating (1)	2:11	97:11
37:21 41:10,25 42:4	21:3	22:17	discuss (3)	drift (1)
42:8,24 43:13,14,21	definition (2)	designed (5)	75:15 94:3 98:16	70:13
44:6 45:18,19 46:8	48:20 83:6	12:7 14:13 16:9 72:4	discussed (13)	drop (1)
46:13,13,19,20,21	demonstrate (1)	72:4	7:21 8:10 9:18 20:8	14:14
46:21,22 47:6 48:8	18:4	designing (2)	39:8 82:17 95:8	dropout (9)
48:10,13,13,18,25	<b>Department</b> (1)	17:3,17	96:9,16 100:22	40:8 41:7 44:10,16
50:23 51:12,13,20	24:1	details (1)	102:3,7 109:21	51:9 54:13 59:9
51:25 52:2,3 54:7	depend (2)	83:10	discussing (3)	61:12,21
54:24 55:4,9,18	42:23 43:3	develop (3)	53:21 90:8 99:5	Drs (1)
56:12,15,17,20 57:4	dependable (1)	80:9 81:10 85:22	discussion (2)	8:17
57:16,18 58:16,18	43:1	developing (2)	19:13 28:6	due (1)
60:9,19,20 62:13,25	dependent (2)	80:24 81:1	disease (6)	23:15
63:10,15,19,21 65:4	83:15,19	deviate (1)	67:9 84:14,15,18	duly (2)
68:22 70:18,18	depending (1)	29:24	85:14 87:4	6:6 115:6
79:25 80:3,6,17	82:8	diazinon (1)	diseases (2)	duration (1)
89:13 96:1,6,8,18	depends (1)	113:24	105:4,8	86:1
96:21 97:5,12,17	15:18	differ (1)	dismiss (8)	00.1
98:25 100:9,14	deposition (31)	69:11	15:23 16:1 45:7 52:16	E
109:9.10	1:15 2:11 4:22 5:3,8	difference (5)	52:18,18 71:10	E (5)
data-driven (1)	-	14:19 59:13 90:25	104:15	
50:3	6:13 7:5,7,13,22,25			3:1,1 4:1 115:1,1
dataset (1)	8:2,11,12 9:19	101:14,17	distributed (1)	e-mail (1)
97:10	20:12 28:6 36:19	differences (1)	91:5 Distaict (4)	9:1
date (3)	39:9 48:16 49:6	16:18	District (4)	earlier (1)
	75:13,19 78:10,15	different (9)	1:1,2 5:6,6	78:24
79:19 80:19 116:3	102:3,8,9 114:5	56:20 58:11 60:19	divide (1)	early (8)
day (8)	115:9 116:3	69:24 84:3 88:3,4,5	102:22	11:7 72:22 73:10,20
42:9 46:17 48:3 58:23	depositions (2)	90:12	Division (3)	73:24,25 74:20 80:1
58:24 114:13	7:24 8:17	differential (5)	23:5,12 24:24	editor (1)
115:16 116:22	depth (2)	59:14,17 83:25 91:1,8	document (9)	36:13
days (1)	38:23 56:9	differently (1)	1:6 93:25 94:20 98:4	editorial (3)
83:14	DeRoos (23)	81:25	99:4,8,16 100:18	7:18 8:16 36:13
dealing (1)	7:22 8:10 11:5 12:2	difficult (8)	112:16	effective (1)
48:18	12:15 14:3,17,20	30:14 41:12,18 44:3	documents (2)	91:16
debate (1)	15:3,8 16:18 37:23	58:4 82:19 87:9	7:10 8:2	efforts (1)
37:10	57:7,9 65:8 79:6,18	92:19	doing (9)	94:6
decades (2)	79:19 82:17 83:1	diffuse (1)	11:3 18:1 42:8 51:18	eight (3)
16:8 72:9	85:20 103:25	108:13	58:6 67:7 73:5	22:24 23:13,18
deceased (2)	104:11	dinner (2)	81:25 91:7	either (5)
23:9,15	describe (9)	83:13,16	domain (3)	7:12 31:8 64:13 82:22
decide (2)	6:17 10:3,7 55:24	Diplomate (1)	21:21 24:10 26:1	111:8
17:4 25:24	56:5,10 62:9,11,24	115:20	doubt (2)	elaborate (1)
deciding (2)	described (6)	direct (1)	57:25 95:5	71:25
12:12 35:14	55:7 84:22 91:2 94:10	99:16	<b>DPS</b> (1)	Elizabeth (2)
decision (3)	95:9 96:24	direction (3)	23:24	7:20 8:16
17:8 32:12 39:1	describes (3)	58:20 59:2,11	Dr (26)	empirical (1)
decisions (2)	19:22 20:8,10	disagree (7)	1:15 2:12 4:4,10,23	47:6
17:10,12	describing (3)	13:8,11 37:8 38:4	5:3 7:25 8:1,3,3,18	employees (3)
declared (2)	80:2 88:2,20	94:15,22 101:8	20:12,15,16 21:7	23:14,15 24:9
31:19 32:10	description (2)	disc (2)	48:15,16,24 78:10	ended (9)
deemed (1)	46:5 51:1	78:9,14	78:15 111:17 114:5	40:2 71:21 76:11,12
29:13	design (6)	discern (1)	114:10 115:4 116:4	76:15 77:2 78:22,23
Defendant (1)	12:8,9 17:5,12 44:1	39:17	116:21	79:4
	12.0,7 17.0,12 77.1	57.11	110.21	, ,,,,
	•	•		·

r				ruge J
enjoy (1)	essence (1)	6:18,21,22 7:3,4,18	57:4,19 72:10,18,25	falls (1)
11:13	104:4	8:21 18:22 22:11	84:16 86:17 88:22	74:3
enrolled (3)	essential (1)	34:1 38:13 49:13	96:12 109:13	familiar (1)
41:15 61:14 72:6	78:22	76:9 92:22,23,25	exposure (48)	61:20
enrollment (7)		98:14 106:21	40:19 54:3,8 55:3,11	<b>family (1)</b>
. ,	essentially (6) 18:17 40:2 71:21			47:24
50:4 54:9,17 55:5		<b>exhibits (2)</b> 4:7 6:17	55:14 56:2,12 58:11	
62:13,25 63:5	76:10,14 77:2	4.7 0.17 exist (6)	58:12,23,24 59:20	<b>fan (1)</b> 59:7
ensure (3)	<b>established (1)</b> 16:8	. ,	59:24 62:12,15,24 64:17 70:12,12 72:9	
25:16,18 26:15		14:15 15:14 17:19 39:16 45:7 57:4		fancier (1)
entire (7)	estimate (6)		72:14 73:15 74:5,7	42:6
60:11 67:13 69:3,6	63:12 64:1,13,19	existence (1)	74:8,10,13 84:7	fancy (1)
77:20 99:7 100:16	109:11,12	53:4 exists (3)	85:11 86:3,19 87:2 87:4,15,17 89:3	61:9
entirely (1)	estimates (6)			far (3)
52:8	54:6 108:3,4,10,19	15:23 22:7 53:12	90:20 94:8,13 95:15	18:9 41:6 103:16
entitled (3)	109:7	<b>expand (1)</b> 95:1	96:5 104:23 105:14	farm (2)
4:15 6:24 95:23	<b>et (8)</b> 17:7 39:12 56:12		109:8 113:18,21,22	70:11 96:11
environmental (6)		expanded (2)	<b>exposure/use</b> ( <b>1</b> ) 40:14	farmers (7)
23:3,8,22 25:1,3	69:22 70:13,13 85:4	40:3 71:22		66:10 68:7,8,16 69:16
35:12 anidamia (1)	95:15	expansion (3)	<b>exposures (13)</b> 69:11 70:10,10 71:14	86:22 90:22
epidemio (1)	Europe (1)	12:2,3 18:19		fast (1)
80:12	69:2	expect (1)	80:6,17,19 84:8	30:20
epidemiologic (4)	evaluate (4)	100:19	85:7,21 86:15 89:20	faster (1)
15:22 90:17 92:20	15:6 47:19,21 54:2	expected (1)	90:9	30:20
95:24	evaluated (1)	14:9	<b>extensive (1)</b> 97:19	favor (1)
epidemiological (6)	38:12	expedite (1)		41:2
16:22 81:3 95:25 96:1	evaluating (2)	29:4	extensively (1)	feasible (1)
98:13 113:22	9:20 56:11	expert (18)	94:10	96:6
epidemiologist (8)	evaluation (1)	6:18 8:5,18 13:18	extent (2)	federal (1)
17:9,16 42:1 46:11,17	19:13	20:16 38:14 65:18	92:15 97:1	25:8
47:19,22 83:4	evidence (32)	65:19 76:17 77:3,13	external (1)	fewer (1)
epidemiologists (7)	12:11 13:3,4,7,15	82:14 97:12,16	86:15	57:19
36:7 43:16 44:22,24	15:22 18:9 20:4	98:25 104:18 110:3	Extremely (1)	field (4)
45:10 46:1 61:8	27:10,15,23 32:21	110:7	111:4	26:22 27:8 49:2 92:21
epidemiology (29)	33:18 37:4,15 38:6	expert's (1)	eyebrows (1)	figure (5)
17:23 20:16 23:4,8,12	38:8,9,11 51:24	99:2	44:8	41:19 43:24 44:9 45:1
23:21 24:1,25 27:1	53:2,6,10 67:13	expertise (1)	F	48:10
27:2 35:12 48:18,21	101:22 102:13,23	110:5		figured (1)
57:5,16,18 58:16,18	103:7,12,19,20	experts (2)	<b>F</b> (1)	44:15
80:14 81:5 86:14	105:12	26:22 27:1	115:1	fill (11)
92:9,19,21 96:16	exactly (4)	<b>EXPIRES</b> (2)	fact (14)	42:10,19 43:18,21
97:15,25 98:23,24	35:21 51:17 77:8	114:14 116:24	11:13 17:11,14 28:24	45:20 48:5,10 82:14
equally (2)	108:5	<b>explain (9)</b>	37:17 44:19 48:12	82:24 88:25 89:1
30:19 91:5	<b>EXAMINATION</b> (4)	14:1,22 41:8 46:18	51:23 52:17 68:10	filled (2)
Eriksson (6)	4:3 6:8 111:18 113:13	47:24 51:1,3 70:20	81:16 84:1 90:22 103:5	58:19 79:11
57:10,14,15,17 68:22	examined (2)	83:3		filling (3)
85:4 FDDATA (1)	6:7 55:3	<b>explained</b> (2)	factor (3)	42:11 58:20 90:9
<b>ERRATA</b> (1)	example (4)	47:18 69:16	21:3,9,18	final (2)
116:1	30:1,1 71:13 84:4	explanation (1)	factored (1)	59:1,3
error (1)	excess (1)	67:16	73:1 footors (1)	Finally (1)
58:21	113:3	explored (1)	factors (4)	55:11
errors (1)	excluded (1)	31:12	71:14 86:10,16,17	financially (1)
116:7	105:18	exploring (1)	facts (1)	115:13
especially (2)	excluding (1)	49:9	116:6	find (3)
86:22 93:20	55:3 E-Lilit (24)	expose (1)	fair (7)	34:12 111:2 112:22
ESQ (3)	Exhibit (24)	18:2	18:20 46:4 51:7 66:18	finding (2)
3:6,13,14	4:9,15,20,24 6:15,16	exposed (10)	66:19 71:3 112:19	109:14,22
	1	1	1	1

				2
01 11 (1)	co 10 00 50 10	102.24		
findings (1)	69:19,23 72:18	102:24	general (9)	31:4 33:13 39:5
19:22	81:24 82:7 86:17	forward (1)	4:13 14:10 26:4 36:6	62:2 65:18 77:4
fine (5)	91:21 110:13,14	90:21	69:13,13 98:10,10	80:15 83:24 87:16
23:17 37:11 44:1 77:9	follicular (1)	found (11)	108:12	101:16 105:8
77:9	108:14	19:10 20:4 27:20	generally (1)	107:21
finish (1)	follow (5)	56:24 57:2 60:25	58:17	goes (1)
88:11	36:22 76:24 86:8 87:3	63:6,25 64:7,18	generate (2)	109:12
FIRM (1)	90:18	77:7	25:21 77:13	going (32)
3:2	follow-up (63)	four (6)	generated (2)	15:7 16:9,11 25:23
first (44)	11:3,10,12,14,16,17	22:23 23:2 30:4,7,17	70:2,17	26:8 30:21 31:2,4,7
18:25 19:12 24:7	12:4,18,24,24 13:23	108:2	Genetics (2)	32:7 36:17 37:9
28:11 30:2 38:16,18	14:6,6,9,14,21,24	fourth (2)	23:13 24:25	42:19 43:13 46:11
39:23 50:10 53:19	15:2 16:11,13,15	91:22 108:5	genotoxicity (1)	58:19 65:18 75:3,15
54:6,14,16,19,22	35:3,4,16 37:19,20	frankly (3)	97:20	76:21 78:18 80:8
	40:9 42:13 43:7,8	82:20 87:6 104:2		81:13 83:22 84:10
56:16 58:10 61:25			geography (1)	
62:9,11,14,18,23	44:16,17 49:23 50:2	free (5)	69:18	87:3 91:4 95:1
63:1,7 65:19,22	51:10 53:15 54:8	31:15 32:14 33:16	give (8)	98:16 99:16 110:15
72:5,6,8 87:12	55:5,13,17 56:19	37:2,14	9:16 12:14,16 30:1	111:10
95:23 99:17,24,25	61:13,18 63:5 64:16	frequent (1)	52:8 100:17 103:23	good (9)
100:1 104:4,7,12,13	74:3 76:13,18,18	82:21	111:7	5:1 6:10,11 11:2
108:25 109:8,9	77:23,24,25 79:7,9	front (1)	given (10)	20:24 21:4 32:6
115:6	79:15,19 82:6	6:17	14:20 38:5 53:10,12	37:10 46:4
firsthand (2)	103:14,16,17,22	full (6)	66:24 81:16 88:16	Google (2)
69:23 70:20	104:7,14	9:10 18:13 40:9 53:20	90:21 98:15 112:16	75:7,11
fit (1)	follow-ups (2)	53:20 100:1	giving (2)	government (3)
113:7	10:20 76:20	fully (4)	103:21 106:23	24:9 25:7,8
five (2)	followed (1)	14:18 43:11 45:5	glaring (1)	great (3)
22:24 23:3	55:25	61:20	71:8	32:5 44:1 94:6
five-minute (1)	follows (1)	fund (1)	global (1)	Griffis (32)
<b>five-minute (1)</b> 75:25	<b>follows (1)</b> 6:7	<b>fund (1)</b> 25:22	<b>global (1)</b> 93:15	<b>Griffis (32)</b> 3:13 4:4 5:21,21 6:9
<b>five-minute (1)</b> 75:25 <b>fixed (1)</b>	follows (1) 6:7 Ford (1)	fund (1) 25:22 fundamental (5)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b>	<b>Griffis (32)</b> 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11
<b>five-minute (1)</b> 75:25 <b>fixed (1)</b> 89:20	follows (1) 6:7 Ford (1) 8:16	<b>fund (1)</b> 25:22 <b>fundamental (5)</b> 14:15 36:11 81:13,15	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6
five-minute (1) 75:25 fixed (1) 89:20 flagging (1)	follows (1) 6:7 Ford (1) 8:16 foregoing (1)	<b>fund (1)</b> 25:22 <b>fundamental (5)</b> 14:15 36:11 81:13,15 82:10	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9)	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18	<b>global (1)</b> 93:15 <b>glyphosate (62)</b> 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5)	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1) 26:9	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1) 50:8	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3 53:7 56:25 57:12	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1) 47:10
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1) 26:9 folks (22)	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1) 50:8 forth (15)	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8 109:23 <u>G</u>	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3 53:7 56:25 57:12 60:23 61:3 64:9	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1) 47:10 guessing (9)
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1) 26:9 folks (22) 18:6 27:7 42:5,12	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1) 50:8 forth (15) 10:24 30:18 32:9 33:3	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8 109:23 <u>G</u> gap (1)	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3 53:7 56:25 57:12 60:23 61:3 64:9 65:2,11 66:2 75:6	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1) 47:10 guessing (9) 42:3,10 45:19 46:13
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1) 26:9 folks (22) 18:6 27:7 42:5,12 43:7 44:14 46:20	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1) 50:8 forth (15) 10:24 30:18 32:9 33:3 37:21 50:10 57:16	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8 109:23 G gap (1) 86:2	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3 53:7 56:25 57:12 60:23 61:3 64:9 65:2,11 66:2 75:6 92:11	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1) 47:10 guessing (9) 42:3,10 45:19 46:13 46:16 47:14,16 48:7
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1) 26:9 folks (22) 18:6 27:7 42:5,12 43:7 44:14 46:20 51:20 52:2 55:9	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1) 50:8 forth (15) 10:24 30:18 32:9 33:3 37:21 50:10 57:16 60:5 66:10 69:18	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8 109:23 G gap (1) 86:2 gaps (1)	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3 53:7 56:25 57:12 60:23 61:3 64:9 65:2,11 66:2 75:6 92:11 go (16)	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1) 47:10 guessing (9) 42:3,10 45:19 46:13
five-minute (1) 75:25 fixed (1) 89:20 flagging (1) 70:25 flaw (14) 40:21,25 41:1,9 43:25 52:13 71:19 82:13 91:22 92:15,16,18 104:17,19 flawed (4) 15:13,15 37:25 53:15 flaws (8) 14:15 15:14 27:15 37:17 38:9 39:10,15 70:18 Flipping (1) 113:2 Florida (1) 68:9 focused (1) 26:9 folks (22) 18:6 27:7 42:5,12 43:7 44:14 46:20	follows (1) 6:7 Ford (1) 8:16 foregoing (1) 115:9 forever (1) 112:23 form (9) 10:14 17:1 20:22 21:11 71:6,16 88:7 94:17 106:24 former (1) 23:14 formerly (2) 23:7,10 forming (1) 10:4 formula (8) 47:4,13 48:1,6 50:9 50:10 58:7,7 formulas (1) 50:8 forth (15) 10:24 30:18 32:9 33:3 37:21 50:10 57:16	fund (1) 25:22 fundamental (5) 14:15 36:11 81:13,15 82:10 fundamentally (1) 82:10 funded (1) 26:3 funding (10) 24:18 25:7,8,15,20,22 25:24 26:13,14 111:5 funny (2) 43:22 47:9 further (9) 98:16 109:17,18 113:10,13 114:2 115:5,8,11 future (5) 15:5,10 76:20 81:8 109:23 G gap (1) 86:2	global (1) 93:15 glyphosate (62) 4:16 6:24 7:11 8:13 8:14 9:25 10:5 11:22 13:5,19 16:6 17:20 18:3,3,5,6,11 19:4,14,16 20:5 40:4,19 58:11,12 59:19,25 63:4,25 66:25 67:5,5,19 68:1,8 69:14 71:22 72:20 73:7 74:1,24 80:1,7,20 81:8 82:2 82:3 86:20 93:8,13 96:17 98:3,8,14 102:5 104:23 105:23 106:1,7,17 112:11 113:24 glyphosate-containi 10:17 12:12 13:16 15:16 16:24 41:3 53:7 56:25 57:12 60:23 61:3 64:9 65:2,11 66:2 75:6 92:11	Griffis (32) 3:13 4:4 5:21,21 6:9 17:13 21:6,13 71:11 71:18 76:1,4,8 78:6 78:17 88:10 92:22 92:24 93:6,23 95:3 98:5,9,15,20 99:12 99:14 111:7,16 113:12,14 114:2 group (12) 70:2,7 80:8,24,25 84:2,3 93:1,8 100:25 109:13 112:9 grouped (1) 107:8 groups (2) 97:19 107:24 guess (6) 42:4 45:18 46:21 48:4 48:4 60:5 guesses (1) 47:10 guessing (9) 42:3,10 45:19 46:13 46:16 47:14,16 48:7

				raye /
H	highly (15)	Illinois (4)	101:22	Institute's (2)
H (2)	20:20,25 21:4 101:1,2	1:16 2:14 5:10 115:22	inconsistently (1)	8:15 21:8
6:5,5	101:5,8,11,12,15,16	illness (2)	82:15	Institutes (5)
Haematology (2)	101:23 102:18,24	84:6 85:22	incorrect (1)	23:21,23 24:23 25:9
28:18,24	103:10	immediate (1)	79:17	25:14
half (1)	historical (1)	81:20	increase (4)	intensity-weighted (
	96:4	immediately (1)	73:6,11 74:1 112:22	105:23
109:9	history (1)	9:11	increased (11)	interest (6)
halves (1)	89:2	impact (6)	40:4,18 71:22 72:21	10:10 24:16 31:19
109:9	Hodgkin (3)	21:3,9,18 54:2 56:11	75:6 80:7 104:22	32:11 34:19,21
hand (3)	108:11 110:16,19	80:5	105:1,21,25 106:11	interested (3)
6:4 94:21 115:16	Holden (1)	implemented (1)	increases (1)	36:9 104:9 115:13
happened (12)	25:2	33:5	106:15	interests (1)
54:14 60:6 73:10,14	Hollingsworth (3)	important (7)	incremental (4)	26:3
83:9,11 84:21 85:15	3:9 5:22,24	25:20,25 41:7 74:17	72:23,24 73:6 87:2	internal (1)
86:3,8 87:5,17	honest (1)	74:18 88:17 104:16	individual (1)	95:8
happening (1)				internally (2)
90:21	31:17	importantly (1)	96:7	
happens (1)	Honestly (1)	40:7	individuals (11)	29:13 100:13
85:25	57:22	impossible (2)	40:10 41:11 43:7	interval (7)
hard (3)	hope (1)	41:13 90:21	74:13 86:4,6,11,25	62:8 63:11 64:3,22
32:24 71:9 103:18	30:24	improve (4)	87:13,20 90:19	108:9 109:11,14
hat (4)	hopefully (2)	12:6,8,10,23	industry (2)	intervals (3)
30:22 31:2,8 34:10	59:10 69:17	improvement (1)	24:12,14	50:21 107:14 108:3
hazard (1)	Hotel (1)	12:1	influential (1)	interviews (1)
89:3	5:9	imputation (51)	103:11	40:9
headed (1)	hours (2)	41:25 42:3,8,16,17	information (25)	Intramural (1)
113:17	9:16,16	43:9,14,20 44:20,23	13:22,24 14:3 16:2	24:22
header (1)	human (1)	45:6 46:2,3,16,19	25:10 41:17,20,21	introduce (1)
98:1	113:8	47:16,19,24 48:17	42:5 43:10 44:4	5:17
health (25)	humans (1)	50:3,7,11,12 51:2	47:2 48:5 54:3,8	introductory (1)
4:18 6:25 14:16 15:6	112:9	51:16 53:23 54:4,23	55:12 56:16 57:25	38:17
16:5 23:21,22,23	hundred (1)	56:7 58:6,7,7 60:20	64:17 74:23 75:1,4	invalid (2)
24:3,4,24 25:1,4,9	34:5	60:21 61:4,9 63:7,8	91:20 98:11 100:7	44:21 45:4
25:12,15 59:20,25	hypothesis (7)	63:16,18,21 64:10	informative (17)	invalidate (1)
90:11,12,14 91:4	31:12 33:15 37:2,13	64:12,18 65:4,9,15	10:15 101:1,2,4,6,7,9	69:12
94:4,7 113:4	37:16,22,23	65:16,21 100:21,23	101:10,11,12,14,15	involve (1)
healthy (4)		imputations (1)	101:17,18,19,23	63:15
37:10 85:9,10,16	I	42:24	102:18	involved (2)
hear (1)	i.e (2)	impute (1)	informativeness (1)	57:4 92:12
52:3	54:3 62:13	50:4	102:16	Iowa (15)
heard (3)	IARC (19)	imputed (2)	inherent (3)	14:7 24:2 25:1,5
	28:6,8 29:12,20 33:8	50:23 55:3	82:18 84:23 85:17	39:24 65:24 66:11
67:18,21,23	33:20 57:16 92:25	incentivized (1)	inherently (1)	66:16 67:6 68:7,18
held (2)	93:7 96:21 97:18,18	85:9	82:8	69:11,16 70:9,19
2:12 5:8	97:23 101:21,25	inception (2)	initials (1)	Iowa's (1)
help (1)	102:1 103:5,12	25:11,25	22:18	25:2
103:4	102.1105.5,12	incidence (5)	inside (1)	irrefutable (1)
hereunto (1)	IARC's (3)	4:17 6:25 16:5 50:20	29:19	27:16
115:15	94:15 98:19 112:6	54:7	insight (1)	irrevocably (1)
high (8)	identification (4)	include (2)	94:12	42:23
21:3,18 25:15 26:14	6:15,21 7:3 92:23		<b>Institute</b> (15)	
59:8 61:11,21 74:12		56:1 77:15		issue (14)
higher (1)	identified (5)	included (4)	6:24 8:22 10:16 12:1	10:17 41:23 69:17
109:12	41:6 71:20 82:12	97:12,16 98:24,25	18:23 20:20 22:19	70:21 81:13 82:5,10
	91:23 104:17	including (9)	22:25 23:13,14,19	82:11 87:7 88:2,5
highest (6)		16 6 10 6 10 00 6	02.00.04.04.05	00 6 7 10
62:14 103:6,19,23	identifying (1)	16:6 19:6,18 20:6	23:22 24:24,25	89:6,7,18
		16:6 19:6,18 20:6 54:3,7 56:12 93:11	23:22 24:24,25 50:24	89:6,7,18 issues (5)

				rage o
11.01 45.10 50.00	25.10.20.21.26.1.12	lon oth (2)	100.19 100.10	42.19 44.6 51.10 20
11:21 45:12 52:20	35:19,20,21 36:1,12	length (2)	100:18 109:10	43:18 44:6 51:19,20
68:11 71:17	36:12,21 41:22,25	9:19 65:20	Litzenburg (22)	52:1,4
	45:14,15 47:15,18	let's (9)	3:6 4:5 5:19,19 17:1	lot (33)
J	47:20 50:7,9 51:17	20:3 26:18 34:21	20:22 21:11 71:6,16	8:25 11:16 12:8 21:1
Jamison (1)	51:25 52:1 57:23	52:22 62:2 76:1	88:7 93:3,19 94:17	31:18 38:9,10 42:25
8:17	60:1,2 62:16 66:4,6	88:11 107:20	94:19 98:2,7,12,17	43:6,15 44:4,8 47:7
Jamison's (1)	66:7,20 67:25 68:7	112:14	99:9 111:19 113:10	47:7,12,14,16 51:22
8:1	68:14,19,19 69:9,15	letter (1)	114:3	68:11 73:10 74:6,23
January (6)	69:22,25 70:1,6,16	110:5	lives (1)	81:18 82:1,23,24
1:17 2:7 5:11 115:3	70:21 71:12 72:17	leukemia (12)	84:11	86:15 87:8,19 89:25
115:16 116:3	73:13 74:7 76:24	40:20 104:24 105:4	LLP (3)	90:17 102:21 111:5
JCO (2)	77:8 80:5,8 81:7	105:19,21 106:2,6,8	3:9 5:22,24	lots (2)
33:23 35:1	83:7 84:14 85:14	106:11,16,18	location (1)	75:1 91:10
JNC (1)	87:18 88:21 90:24	109:21	67:10	low (1)
20:23	90:25 91:13 95:7,12	level (3)	locations (1)	44:16
JNCI (30)	97:15 98:22 100:16	48:25 96:7 103:7	66:24	lymphocytic (1)
12:17 14:5 16:14	110:10	Liability (3)	long (4)	108:13
19:24 21:22,25 22:2	knowing (2)	1:4 5:5 116:2	9:13 35:15 49:10	lymphohematopoie
22:7,9,10 27:19,21	17:19 71:1	likelihood (3)	55:23	19:18 107:21,24
28:21 29:4,25 30:6	knowledge (2)	59:23 81:5,8	long-term (1)	lymphoid (2)
30:15,25 32:20	28:20 29:19	limitation (9)	10:20	19:5 20:6
33:23 34:1,7 35:1,9		85:17 86:23 88:1,4	longer (17)	lymphoma (59)
35:9,18,23 36:16	L	90:4,5,6,16,17	11:2 12:4,17,24,24	7:12 8:13,14 10:1,18
60:8 79:1	labeled (2)	limitations (1)	13:23 14:5,9,24	11:22 12:13 13:6,17
<b>JOB</b> (1)	5:2 102:5	97:3	15:4 16:13,15 37:19	13:19 14:11 15:17
1:25	Lancet (20)	limited (1)	37:19 103:16 104:6	16:7,25 17:20 18:5
journal (17)	28:7,9,16,18,19,22,22	63:23	104:14	18:12 42:20 53:8
6:23 7:19 8:15,22	28:24 29:12,14,16	limiting (1)	look (37)	57:1,13 60:24 61:4
20:19,24 21:8,24	29:23 30:12,14,20	55:4	11:14 15:3,8 16:5	63:12 64:1,10 65:3
29:21 30:5 33:23	30:25 33:8,19,23	line (12)	21:16 22:11 29:25	65:12 66:3,18 67:19
34:24,25 35:9,11,12	34:8	4:8 23:9 24:7 60:4	30:3,23 31:18 32:3	68:2 69:14 80:9,25
35:13	Lancet's (1)	116:8,9,11,12,14,15	32:12,13 33:15 35:7	81:2,11 85:8 92:12
journals (17)	29:19	116:17,18	37:6 43:5,23 61:23	96:18 105:12
8:25 9:4,9 20:21,25	large (6)	lines (2)	67:13 68:24 69:3,8	108:11,12,12,13,14
21:4,10 22:3,6	19:3,14 70:2,16 95:12	50:16 100:18	72:3 73:14 74:22,23	108:14,15,17,23
27:16 28:21 30:5,24	19.5,14 70.2,10 95.12	links (1)	74:24 77:5,6,6,9,18	109:1 110:4,6,8,11
35:21 36:3,5,9	larger (1)	75:10	78:18 79:5 89:17	110:15,20,24
July (1)	60:10	list (1)	112:13	110:13,20,24
73:24	Lastly (1)		looked (22)	lymphomas (2)
73.24	40:17	39:15	24:15 31:12,14 32:20	109:18 110:22
K	40.17 late (2)	<b>listing (1)</b> 22:14	32:23 33:1 37:1	109.18 110.22
	72:21 73:24			M
<b>keep (1)</b> 9:15	12:21 73:24 latest (2)	<b>literally (1)</b> 73:15	41:24 58:1,3 60:19 72:8 75:7,12,22	$\frac{1}{M(1)}$
9:15 kind (2)	15:2 64:17		77:12 79:7 91:18	109:8
		literature (29)	93:12 97:20 99:3	<b>M.D</b> (1)
15:20 30:15	layman (4)	9:21,25 10:22,24 11:2	93:12 97:20 99:3 109:23	<b>M.D</b> (1) 4:10
Kirby (2)	46:15 83:5 88:18,20 learned (1)	11:15 15:19,22,25	looking (15)	
3:13 5:21	9:2	18:14 27:13 39:8	17:5,6,17 36:14,15	<b>maintain (2)</b> 30:24,25
know (102)		44:6 45:2 52:19	38:13 53:19 60:20	30:24,25 major (2)
9:18 11:20 12:5 15:13	led(1)	69:3,6,7 70:17 75:4	65:4 67:7 69:6 71:9	52:17 111:2
18:1 22:4 25:21,23	87:4	75:12,16,20 89:11	86:6 98:4 110:2	
26:13 27:6,8 28:5,8	left (2)	89:16 95:16 97:20		majority (1)
28:12,24 29:2,10,11	99:23,24	102:22 104:5	looks (2)	23:18
29:25 30:11,15,18	left-hand (1)	Litigation (2)	68:21 99:5	making (1)
31:18,20,20,21 32:2	99:17	1:4 5:5	loss (1)	104:20
32:16,17,17,23,25	legal (1)	little (5)	51:10	malady (1)
33:3,4,6 34:3,6,7,15	5:13	35:9 58:25 62:23	lost (6)	84:12
	I	I	I	I

				Page 9
			l	
malathion (17)	8:9 55:8	Monday (3)	32:9	25:3
4:24 93:2,5,11,15	mentioning (2)	1:17 5:10 115:3	naming (1)	NIH (5)
98:4,9,19,22 99:6,8	9:7 59:10	money (1)	110:5	25:20 26:2,13,14 77:5
111:21 112:7,8,24	merit (2)	87:8	National (21)	NIH-funded (1)
113:15,24	27:20 34:13	monitoring (1)	6:23 8:15,22 10:16	26:5
malignancies (2)	met (1)	96:6	11:25 18:23 20:20	nine (1)
19:5 20:6	6:12	monograph (11)	21:8 22:19,25 23:13	50:16
manuscripts (1)	method (5)	4:24 28:7 33:9,20	23:14,19,20,22,23	ninety (1)
52:10	45:18 48:11,17	93:1,16,18 102:1,2	24:23,24,25 25:8,14	72:7
marginal-zone (2)	100:21,23	102:6 111:21	NC (1)	nobody's (1)
108:14 110:24	methodological (5)	Monographs (1)	12:16	15:7
marked (6)	40:25 41:1 99:18	28:8	NCI (34)	non-Hodgkin (44)
6:15,16,21 7:3 92:23	100:3,5	Monsanto (5)	12:14,22 14:4 16:3	7:12 8:13,14 9:25
92:25	methodologies (1)	3:10 4:20 5:22,24	19:10,23 20:9 23:5	10:18 11:22 12:13
match (1)	10:13	112:17	26:2 31:10 38:5	13:5,17,19 14:10
55:17	methodology (8)	month (1)	42:23 49:13 65:10	15:17 16:7,24 17:20
math (6)	9:19,23 33:16 42:16	74:16	65:13 76:9 78:21	18:5,11 53:8 56:25
47:7 48:1,6 57:22,23			79:20,22 82:13	57:12 60:23 61:4
· · · · · · · · · · · · · · · · · · ·	45:6,8 47:1 51:22	<b>months (1)</b> 49:12	85:19 89:23 91:14	63:12 64:1,9 65:3
58:1	methods (2)			· · · · · · · · · · · · · · · · · · ·
mathematical (2)	44:12 91:11	morning (3)	91:23 92:16 95:10	65:11 66:3,18 67:19
47:3,13	Mianalyze (2)	5:1 6:10,11	97:5,11 100:13	105:11 108:11,12
matter (5)	50:21,25	moved (1)	103:10 106:4,16,21	108:17,23 109:1
5:4 34:25 42:17 69:6	Michael (1)	88:13	107:7	110:4,6,8,11,15,16
81:12	23:9	moving (1)	necessarily (7)	110:18 112:23
<b>MDL</b> (1)	middle (2)	90:21	27:14 68:3,10 69:18	non-Hodgkin's (9)
1:4	99:18 100:2	Mucci (2)	72:15 82:2 94:22	68:1 69:14 80:9,25
mean (37)	MILLER (1)	8:3,18	need (12)	81:1,11 85:8 92:12
10:20 14:2,22,23	3:2	multiple (14)	15:3 21:19 29:7 41:14	96:18
15:11 20:24 23:16	mind (6)	11:20 19:19 40:18	47:23 51:25 52:1	nondifferential (4)
25:10 28:19 34:9,23	7:20 39:18 43:14	50:3,7 70:6 104:23	64:18 67:16 76:6	59:14 91:1,3,6
37:6,8,24 41:12,12	80:11 90:24 104:3	105:2,5,17 106:1,3	88:23 103:4	nonresponders (1)
42:3 43:6 45:19	minutes (4)	107:13 108:15	needed (1)	58:8
46:15,16 47:17	75:25 76:4 77:21	myeloid (10)	106:14	nonsignificant (1)
52:12 60:3 73:23	111:7	105:4,18,21 106:2,5,8	needs (1)	109:14
74:22 76:24 77:11	mirroring (1)	106:11,15,18	107:17	North (13)
80:21 83:5 90:4,13	65:7	109:21	negative (1)	2:13 5:9 14:7 39:24
96:25,25 102:21	mirrors (1)	myeloma (10)	37:7	65:24 66:11,16 67:6
103:15 111:4	16:17	19:19 40:18 104:23	Neugut (8)	68:17 69:10,16 70:8
meaningful (1)	misallocate (1)	105:2,5,15,17 106:1	8:17 20:12,15,16 21:7	70:19
86:12	80:6	106:4 108:15	48:15,16,24	Northern (2)
meaningfully (1)	misclassification (1)		Neugut's (1)	1:2 5:6
105:17	40:14	N	7:25	Notary (2)
means (8)	missing (11)	N (5)	never (6)	114:14 116:24
25:15 26:14,21 27:18	41:10 42:18,24 43:13	3:1 4:1,11 6:5,5	37:16 50:11 61:7	noted (1)
27:19,22 54:11 83:3	43:17 44:4 46:8	N.W (1)	90:24 105:23	114:7
meant (2)	48:5,22 58:16,18	3:11	112:23	notice (4)
79:4 106:5	mistakenly (1)	Nabhan (15)	new (9)	2:14 4:21 7:4,7
measuring (1)	21:19	1:15 2:12 4:4,10,23	8:11 10:4 17:23 25:10	notified (1)
107:13	mistakes (2)	5:3 78:10,15 102:25	25:12 82:12 89:18	9:5
medical (1)	58:25 59:2	111:17 114:5,10	103:19,20	number (8)
36:6		115:4 116:4,21	NHL (8)	5:2,7 9:15 17:6 22:20
<b>member</b> (1)	$ \underset{6^{\circ}}{\operatorname{mixing}} (1) $		19:6,18 20:6 66:2	58:3 78:9,14
	68:6	name (4)		-
47:25	model (1)	5:12 32:5 116:2,4	105:13,13,14,16	numbers (3)
memory (4)	95:14	named (1)	nice (1)	54:24 62:3,5
83:10,19 88:24 89:4	moment (2)	20:17	43:23	numerical (1)
mentioned (2)	26:18 89:19	names (1)	NIEHS-funded (1)	106:24
	I	I	I	I

	•		•	. Idge 10
0	oncologists (2)	packet (1)	71:17 74:8,16 79:15	80:6,18 89:19 90:9
O'Hare (2)	36:7 110:11	111:25	84:11 85:20 90:11	percent (41)
2:13 5:9	oncology (7)	page (35)	90:11,12 94:24	21:9,17,17,20 34:5
object (7)	9:5 10:21 21:4,10,12	4:3,8 19:12 20:1 24:7	104:8,10 110:7,12	35:24,25,25 40:10
20:22 21:11 71:6,16	28:22 44:6	24:19,20 49:15	particularly (1)	41:11,11,16 42:4,5
88:7 94:17 98:17	oncology-specific (1)	53:19,20 55:20	96:12	42:12,12,14,18
objecting (1)	8:25	61:23 93:24 94:3	parties (1)	43:17 44:7 45:12,15
94:19	ones (1)	95:22 99:15,15	115:12	45:16,21,22,23,24
objection (2)	91:13	100:18,22 105:7	pass (1)	45:25 46:8,9 48:13
17:1 43:3	ongoing (3)	107:22 111:25	111:17	48:22 49:23 50:2,20
objective (1)	11:18 70:3 79:3	112:1,14,21 113:2	passed (1)	51:13,13,19 52:2,4
89:12	opinion (13)	113:15 116:8,9,11	34:18	54:18
	10:14 13:18 15:7,12	116:12,14,15,17,18	patient (6)	performed (3)
observed (2)	38:20 53:13,16	pages (1)	47:24 88:18,21,21,22	18:8 60:8 97:13
19:16 105:20	78:19,21 79:2 84:19	112:13	89:4	period (5)
obtain (1)	92:10 102:24	paper (50)	patients (14)	54:8 55:14,17 56:20
50:22	opinions (1)	7:17 10:11 11:19 14:5	41:15,21 43:10 44:7	64:16
obviously (4)	10:4	16:14,17,18,19,20	45:1 46:24,25 49:5	person (5)
12:17 18:7 26:4 66:22	opposed (1)	16:21 19:25 27:5,14	49:7,11 72:7 74:13	32:4 46:16 58:22,23
occupational (3)	79:15	27:18,20 28:2,15,20	74:14 91:19	83:5
23:3,7 89:3	Oral (1)	29:16,25 30:2,14,16	pattern (3)	personal (1)
occurred (2)	4:21	30:22 31:11 32:1,4	72:17 86:3 108:8	53:5
73:9 113:4	Orange (1)	32:6,17,25 33:5	patterns (4)	personally (3)
occurs (1)	3:5	34:18,24 35:2,8	63:3,6 68:4,16	67:23 102:25 103:13
74:17	order (4)	36:1 41:24 77:16,17	Paula (5)	perspective (3)
October (1)	26:22 36:2 59:13 86:9	77:20 79:1,2,5,6,18	1:24 2:14 5:14 115:2	30:13 88:23 89:4
30:10	orient (1)	79:20,20,22 89:23	115:19	pertaining (1)
oftentimes (1)	62:3	95:10	peer (63)	11:1
31:20	original (4)	papers (14)	15:24 21:22,23,24,25	pesticide (9)
oh (4)	13:18,18 79:5,10	7:21 8:9 11:17 21:1	22:2,4,5,5,6,8,10	19:15 50:4 69:21
32:4 59:4 62:17 112:3	originally (1)	22:1 27:13 29:7	26:19,20,20 27:9,11	86:22 89:14 90:22
okay (68)	79:6	31:22 34:12,25	27:24 28:3,10,13,16	94:8 100:7 113:8
14:1 15:12 20:2 23:11	ought (1)	35:22,24 58:3 70:14	28:23,23 29:5,6,13	pesticides (7)
23:16 29:9,18 33:7	99:11	paragraph (18)	29:14,17,19 30:5,6	16:6 68:17 82:2 89:14
36:17 38:15 39:21	outcome (8)	20:3 38:17 49:18	30:8,11,25 31:3,5,5	93:10 96:5 113:23
43:20 47:21 49:14	53:23 59:20,25 65:1	53:20,20 55:23 56:3	31:10,11,18,24 32:1	Philadelphia (2)
49:16,21 50:1 52:3	90:11,12,14 91:4	56:4,5 62:6,17,18	32:3,13,15,19,19,20	24:3,4
55:22 62:7,18,18	output (3)	94:24 96:4 99:24	32:24 33:8,12,14,20	physician (1)
66:21 67:2 70:23	15:1 50:9 104:9	100:1,1 112:24	33:22 34:4,17 36:18	36:8
73:12,22 74:21 76:2	outside (3)	paragraphs (1)	36:19,21,23 38:24	piece (10)
76:14,23 77:19 78:2	69:1 100:12,14	95:2	71:8	12:11 13:2,4,7,15
78:4,6,8,18 80:15	· · · · · · · · · · · · · · · · · · ·	parathion (1)	peer-reviewed (1)	58:15,17,18 63:19
83:22 88:8 92:6	overall (8)	113:25	104:5	103:12
95:7,20 96:2 97:5	13:8 19:5,17 38:20	part (7)	peers (5)	pieces (1)
97:22 98:17 100:5	60:22 64:7 65:1	32:8 34:11 60:3 92:1	27:2 28:1 32:12,16,25	102:13
101:8 102:10 106:3	112:7	93:9 96:25 110:15	people (37)	
106:7,22 107:6,20	overview (1)	participants (7)	45:7 46:22 54:18,25	place (1) 32:5
107:23 110:18	93:16 Outfoud (1)	40:8 49:22 50:1 51:14	56:17,18 58:9 68:4	plaintiff (1)
111:7,24 112:5,10	<b>Oxford</b> (1)	55:4 63:24 79:12	-	5:20
112:13,15,21	24:8	<b>participating</b> (1)	68:12,17,18 70:8,9 72:25 73:16 80:9,24	plaintiffs (3)
113:10,12,16 114:3	P	86:7	81:1,17 82:14,23	
older (1)		particular (27)	81:1,17 82:14,25 84:1,2,4,6,10 85:6	3:3 4:14 20:17
77:25	<b>P</b> (8)	16:17 29:22 36:21		<b>Plaza (2)</b>
	3:1,1 107:2,3,10,11	43:25 45:8 51:4,6	85:10,14,21 88:15 91:7 92:3,7 104:8	2:12 5:9
omitting (1)		4.0.2.0 4.0.0 01.4.0	71./ 72.3,/ 104:0	please (7)
38:18	108:18 109:4			÷
38:18 once (2)	<b>P.M</b> (2)	52:21 58:20 61:19	110:10,23	5:17 6:1,3 14:1,22
38:18				· · · ·

plus (1)	36:22	31:1 33:4 34:4,16	pursuant (2)	R
110:18	presume (3)	39:3,5 41:22 45:11	2:14 4:11	
point (19)	27:4 50:8,11	46:3,10 51:15,18	put (9)	R (2)
17:25 39:20 41:2 60:3	presumed (1)	52:1	30:21 52:22 57:6,18	3:1 115:1
	77:16	processes (2)	93:14 103:10,18,25	Railroad (1)
63:11 64:1,13,19	presumption (1)	61:8,19	107:14	3:4
74:12,16 87:12		· · · · · · · · · · · · · · · · · · ·	107:14	raise (1)
104:19 108:2,4,10	27:6	Products (3)	0	6:3
108:19 109:7,10,12	pretty (7)	1:4 5:4 116:2	~ ~ ~	raised (1)
Poisson (2)	13:1 42:3 47:5,5,7	program (2)	quality (1)	44:8
50:16,19	70:22 96:15	24:23 50:22	94:13	random (3)
pool (1)	prevalence (1)	project (1)	quarters (1)	58:21,21 59:9
70:17	66:9	70:3	49:17	randomized (1)
population (1)	previous (9)	proper (6)	quartile (4)	18:2
69:10	6:13 7:21,22 8:9 11:4	41:20 61:13,15 83:12	62:15 105:14,22	rare (3)
portion (1)	35:3 39:9 75:13	86:9 101:18	108:5	110:13,13 111:1
43:2	108:19	prospective (6)	quartiles (4)	rate (9)
positive (1)	previously (10)	19:3,15 61:12 67:7	107:3,12 108:2,3	40:8 41:7 44:10,16
112:18	9:24 13:23 14:17	90:6,18	question (24)	50:20 61:12,21
possibility (3)	18:12,17,18,20	prospectively (5)	10:6 26:8,12 35:7	62:14 105:13
80:18 82:6 85:13	37:25 103:14,17	67:8 72:18 86:6,9	45:13 47:1 52:20	ratio (3)
possible (5)	primary (7)	90:19	58:14 60:14 66:12	62:14 105:14 107:4
70:25 81:24 97:1	36:8 48:8 51:13,20,25	provide (5)	66:24 67:1 72:5	ratios (1)
103:24 109:23	55:23 56:1	7:10 33:18 37:4 75:22	73:4 80:10,14 81:15	50:20
potential (1)	print (1)	83:12	83:8,20 86:19 87:2	<b>RDR (4)</b>
82:13	7:16	provided (11)	90:19,24 98:21	1:24 2:15 115:2,19
power (1)	prior (9)	8:3 9:1 32:22 37:15	questionable (2)	reach (3)
17:7	8:10 17:3 28:6 72:8	38:6 53:2 75:16,20	46:9,12	41:19 44:9 61:15
powered (1)	72:16 81:21 87:4,16	94:12 99:5 100:7	questioning (1)	reached (1)
41:14	87:17	provides (3)	60:4	33:2
powerful (3)	priori (3)	10:20 13:24 25:19	questionnaire (33)	reaching (1)
36:1 45:5 60:10	17:3 35:21 86:7	PTO (1)	49:23 50:2 54:14,15	69:13
<b>PPE</b> (1)	probability (1)	4:11	54:16,19 55:18	read (31)
70:12	59:17	public (10)	56:17 58:10 59:18	7:24 8:1,1,2 9:8 10:11
PPEs (2)	probable (1)	21:21 24:3,4,10 26:1	59:24 62:14 63:1,7	16:19 19:7,20,21
68:13 69:22	113:8	26:4 37:21 75:1	72:6,8,12 73:1 74:4	20:11,12 33:7 38:19
practically (1)	probably (13)	114:14 116:24	79:10,11,22 80:16	48:15 50:5,6 70:13
87:7	27:7 43:15 51:22	publication (16)	81:9,14 86:2,2	48.13 30.3,0 70.13 72:13 77:20 89:11
practice (6)	60:17 66:9,10 77:25	8:21,23 26:23 27:21	87:13,14 88:16,25	89:25 93:21,25
36:10 68:4,16 110:17	79:11 81:4 89:17	27:25 30:20 34:13	89:2 90:10	
110:18 111:6	97:1 103:15 112:8	34:18,22 35:6,17	questionnaires (18)	94:14 95:17,19
practices (3)	problem (7)	37:1 38:19,23 39:6	14:14 54:12,25 55:6	97:14 100:16,19
25:16 26:15 70:10	51:17 62:7 72:1 85:20	52:24	56:19 61:17 63:25	105:10
preamble (2)	86:14 87:20 92:2	publications (6)	72:5 82:15,22,24	reading (5)
101:25 102:5	problems (3)	11:21 29:13 70:7	85:25 89:8,12,21,22	38:22 39:4 62:16,17
precise (1)	21:2 38:10 92:20	76:20 78:25 93:16	91:19 94:9	64:4
83:19	Proc (2)	published (28)	questions (16)	reads (1)
predictable (1)	50:21,25	15:24 17:18 18:13	71:10 74:11 81:17,19	113:20
14:8	procedure (7)	19:24 21:1 24:8	81:19,23 82:7,9	ready (1)
present (7)	50:3 51:2,4,6,18	28:3,7,8,9,20 29:5	91:21 93:4,20 98:18	77:12
3:17 14:16 37:22 82:9	54:23 56:7	29:16 30:16 34:23	99:10,12 111:20	realize (1)
83:1,1 113:23	procedures (2)	35:5,8,15,16 36:16	114:2	43:6
Press (1)	53:22 55:25	37:9 39:2 52:9,10	quote (1)	really (52)
24:8	process (26)	52:11 60:9 79:7	78:20	10:21,25 12:5 14:7,12
prestigious (1)	9:20,22 10:3,7,9	97:25	quoting (1)	15:18 16:18 25:23
32:5	17:12 22:4,7 26:21	publishing (1)	76:15	27:4,8,21 31:20
presumably (1)	28:4,11 29:20 31:1	33:2	, , , , , , , , , , , , , , , , , , , ,	34:14 37:18 42:6,9
Probumanty (1)	20. 1,11 27.20 31.1			42:14 44:17 46:25
	•			•

## Case 3:16-md-02741-VC Document 1137-6 Filed 02/16/18 Page 43 of 48

57:22 58:23,24 66:12 67:1,7 68:4 68:14,20 72:4,19,22 73:4,25 74:3 79:14 81:15,19 82:5,10 86:12,16,18 87:7,9 89:5 90:5 93:22 103:20,22 104:8,15 106:15 Realtime (2) 115:20.21 reason (22) 29:23 35:19 36:15 57:24 59:22 60:2,15 61:16 67:9,25 81:7 92:2 95:5 116:5.8,9 116:11,12,14,15,17 116:18 reasonably (2) 96:9.22 recall (26) 48:22 81:18 82:16 83:3,6,18,25 84:8 84:13.20.22 85:11 87:21,22,24 88:6,8 88:11,12,14 89:5,13 92:3,7 102:10,13 recalling (3) 84:2,2,4 receive (1) 18:6 received (5) 9:6 18:4 30:2,23 112:11 Recess (2) 78:12 111:12 recognize (2) 44:11 66:9 recollection (1) 88:24 record (7) 5:18 78:11,16 111:10 111:15 114:6 116:6 reentry (1) 96:12 reference (1) 94:25 referenced (3) 94:25 95:16,21 referral (1) 111:3 referring (2) 11:11 98:14 refers (1) 70:1 reflect (1)

27:14 reflected (2) 11:7 79:14 reflects (1) 79:17 refreshed (1) 7:20 regard (3) 10:16 26:19 61:1 regarding (3) 7:11 33:8,19 regardless (1) 44:21 region (9) 66:3,5,18 67:20 68:2 68:3,5,10,11 **Registered** (1) 115:20 Registry (1) 25:2 regression (2) 50:16,19 reject (1) 34:14 rejected (1) 39:1 rejecting (1) 33:2 related (4) 9:5 59:24 69:21 115:12 relates (1) 1:6 relative (2) 64:18 112:22 reliability (8) 46:1,3 94:11 97:13,17 99:1,3 100:6 reliable (5) 16:3 44:22 49:1 96:9 96:22 relied (6) 40:12 49:1 91:24 93:9 96:8 98:23 rely (14) 57:11,14,14,15,19 60:12 75:2 84:24 89:3 92:10 96:18 97:16 101:22 103:7 relying (1) 70:18 remain (1) 89:20 remaining (1) 23:25 remains (2)

37:23 38:20 remedied (1) 43:14 remedy (13) 43:25 44:12 46:11 47:2 51:15,21 59:6 59:6,8,9 71:17 82:20,20 remember (10) 83:10 84:15,17,21 85:9,15 89:6 93:22 97:1.2 remembering (2) 88:15 89:7 Remind (1) 76:4 reminding (1) 103:5 removing (1) 64:17 repeat (4) 56:8,13 58:14 61:7 repeating (1) 93:17 rephrase (1) 51:8 report (14) 4:9 6:19 11:7 13:19 37:20 38:14 49:13 65:19 76:17 77:3,13 82:14 104:7.18 reported (18) 1:23 12:5,25 14:10 16:12 53:14,24 56:23 58:2 62:12.25 63:1,4,15 89:22 103:14,17 104:4 reporter (6) 5:14 6:1,3 115:19,20 115:20 reporting (7) 5:13,16 41:16 96:10 96:23 97:6 103:19 reports (6) 8:5,18 12:3 14:25 19:9,11 represent (1) 66:12 representing (1) 39:25 reputation (1) 22:2 requires (2) 82:23 87:8 research (6) 24:23 25:4 70:3 74:22

104:10 105:5 reservations (1) 12:9 resonate (1) 42:20 resource (1) 75:2 resources (2) 82:23 87:8 respected (2) 20:21,25 respectively (1) 24:5 respond (2) 58:9,10 responders (1) 58:12 responding (2) 59:18.23 response (1) 7:14 rest (2) 13:12 57:5 restricted (7) 39:24 62:12,24 65:23 66:16,23 67:15 restricting (2) 63:7 67:11 result (4) 59:1,3 60:22 64:8 resulted (1) 40:13 results (13) 15:1 44:7 53:21,24 56:13 58:8,20 69:12 81:3,6 90:9 105:8 106:24 retrieve (2) 9:7.11 review (52) 21:23,25 22:3,4,5,5,7 22:8 26:19,20,21 28:4,13,16,18,21,23 29:5,6,14,17,20 30:8,12 31:1,3,10 31:22,24 32:1,15,19 33:5,8,12,14,20,22 34:4,16,17 35:21 36:5,18,23 38:24 97:12,16 98:25 99:2 101:25 102:8 reviewed (34) 7:11,17,18 8:12 15:24 18:10,14 26:22,25 27:2,5,6,9,20 28:2 28:11,25 29:13 30:6

30:7 31:5,6 32:16 32:18,25 33:6 34:12 34:20 37:12 39:8 49:4 50:12 102:7,9 reviewer (5) 22:10 28:23 30:5 36:19 71:8 reviewers (11) 21:22,24 27:11,19,24 31:11,25 32:13,20 34:12 35:23 reviewing (4) 9:13,23,24 39:5 reviews (2) 31:18 36:22 revised (2) 30:4,23 revising (1) 33:3 right (75) 6:4,13 17:15 19:7 22:3 30:20 32:8 34:8 39:6,18,19 41:4 43:4 50:13,14 53:11,17,24 54:4,9 54:15 55:7,25 56:7 59:3,16,20 60:17 61:5 63:16,19 64:10 64:13 65:5,12,15,24 73:17,19 77:20 79:23 80:2,22 85:1 88:6,16 89:9 92:5 92:13,17 95:18 96:19 97:7,13,25 98:3 100:2.15.22 101:1 103:2 107:8 107:15,16,18 108:6 108:15,20 109:2,3 109:15,18 111:16 113:5.8 rigor (1) 44:18 rigorous (14) 21:23,25 22:2 30:8,11 30:13 31:1 34:16 44:17,22 46:22,23 61:13,18 rings (1) 83:23 risk (13) 19:14,17 20:5 40:18 54:6 63:3 64:18 104:22 105:1,21,25 107:4 112:22 Ritz (2) 8:3,18

				rage 15
River (2)	11:14 44:14	27:7	63:22	82:1,4 84:17 86:18
2:13 5:9	search (2)	sentence (7)	simple (1)	someone's (1)
<b>Road (2)</b>	21:19 75:7	19:12 38:16,18 50:17	107:14	59:23
2:13 5:10	searches (3)	99:18 100:2 113:3	simplify (1)	sorry (7)
	. ,	separate (1)	46:15	40:23 58:14 62:16
<b>Robert</b> (2)	75:9,11,11	<b>–</b> • • •	10110	
3:18 5:12	second (19)	95:13	simplifying (1)	65:17 94:18 106:6
robust (4)	40:2 49:15 50:9 54:15	set (6)	80:13	112:4
27:10,24 60:10 83:10	54:19 55:2 58:9	11:8,21 16:5 60:9	simply (1)	sound (4)
room (1)	59:18,23 62:2,17	108:20 115:15	42:2	33:16 37:13,16 41:13
87:18	63:22 71:19,19 77:1	seven (5)	single (1)	sounds (1)
roots (1)	79:22 96:3 99:21	22:24 23:4,6,6,17	98:21	82:12
47:8	105:10	shake (3)	sir (63)	South (1)
Rosemont (3)	second-to-last (1)	16:23 17:24,25	6:10,18 7:8,15 8:7,21	68:8
1:16 2:13 5:10	112:24	SHEET (1)	18:22 19:12 20:1	spanning (2)
Roundup (4)	section (7)	116:1	22:12 24:7,17 26:12	64:19 108:8
1:4 5:4 66:17 116:2	19:13 95:23 100:24	shift (3)	26:19 37:12 38:4,13	spans (2)
routinely (1)	112:7 113:3,17,20	80:19,21 81:4	47:18 49:6,13 51:2	109:11,14
21:9	see (52)	shifts (1)	52:8,22 54:11 55:20	specialist (2)
run (2)	11:16 16:11 19:1	80:23	58:7 61:23 62:5,19	5:14 42:21
39:21 54:24	21:20 22:14,16,21	short (2)	63:23 64:23 65:19	specialize (2)
runs (1)	22:22,23 23:18,24	18:1 74:3	70:4,14 74:21 75:17	110:12,23
80:16	24:21 36:15 45:11	shortened (1)	75:21 76:9 78:18	specialized (2)
	49:23,25 50:17,18	55:17	80:12 83:22 85:18	35:2,11
S	54:10 55:1 56:4,14	Shorthand (1)	88:15 89:24 91:1	specific (8)
S (1)	56:22 59:4,4,5 64:6	115:19	92:25 93:7,24 94:2	18:24 35:11,12 69:15
3:1	64:11,21 76:25	show (4)	94:16 95:22 96:13	69:23 71:2,5 90:5
Sadly (1)	85:25 87:3,16 88:21	22:18 76:25,25 105:1	98:5,24 99:15	specifically (5)
52:15	94:6 95:22 96:2,13	showed (5)	100:10,24 101:17	7:22 61:11 72:14 99:4
Salek (3)	96:14 99:20 100:4	38:8 107:6,7 112:17	101:21 102:1	99:6
3:14 5:23,23	100:10,11,23	112:17	106:19 110:1	specified (1)
sampling (1)	106:25 107:4 111:8	showing (2)	113:15	115:10
47:6	112:25 113:1,17,19	108:9 109:4	sit (1)	spectrum (1)
saw (1)	114:1	shown (1)	41:18	35:10
113:7	seeing (3)	65:6	situation (2)	speculate (2)
saying (6)	49:5,7 67:13	shows (3)	84:3 86:18	29:8 32:24
36:25 44:13 45:24	seen (11)	65:10,13 108:2	six (3)	spend (1)
59:4,5 101:19	7:7 16:15 49:10 70:15	shut (1)	22:24 23:3,4	9:13
says (11)	71:15 73:25 89:16	99:11	Sixteen (1)	spent (1)
24:8 54:1 76:10 97:10	94:23 95:16,21	sic (1)	49:12	70:11
98:1,13 99:7 100:3	111:22	8:16	size (2)	spouses (3)
100:25 112:21	selected (1)	signature (1)	16:22 17:23	94:9 96:11 97:2
113:3	66:11	115:8	skeptic (2)	spreadsheet (1)
Scandinavia (2)	selective (1)	significance (3)	31:2,7	43:23
68:23,23	69:7	45:13,15 46:7	skeptical (2)	squares (1)
schedule (1)	self-reported (2)	significant (15)	30:19,22	47:8
49:8	96:8,18	40:8 41:7 64:23 73:6	skepticism (3)	stable (1)
science (3)	self-reporting (4)	73:9 74:1,12 105:20	30:21 31:2 34:10	86:11
25:1 26:7 87:10	40:13 91:24 92:12,21	106:13 107:18	skip (1)	standard (3)
Sciences (2)	sense (1)	108:6,9,18 109:5,22	107:20	29:22,24 48:17
23:22 25:4	12:19	significantly (2)	small (1)	standards (5)
scientific (6)	sensitivity (14)	45:5 72:21	100:17	25:15 26:15 36:18,20
9:20,24 10:10 13:24	54:2 56:6,11 57:3,20	similar (10)	solid (3)	36:23
14:2,21	60:7 61:1 62:9,10	10:9 16:20 18:5 39:7	19:5 20:5 107:20	start (4)
scientist (2)	62:20 63:22 90:1	39:7 45:18 69:24	somebody (10)	5:2 58:17 62:19
26:6 42:20	91:17 95:9	81:4 83:17 108:8	31:17 46:24 57:23	112:14
scientists (2)	sent (1)	similarly (1)	67:12 71:9 74:7	started (1)
Ň				
L				

49:5

state (1)

stated (2)

13:18 39:11

statement (5)

95:6 105:2

1:1 5:5 39:24,25

statistical (8)

91:10

statistically (3)

statistician (4)

statisticians (5)

61:8

statistics (3)

Stephanie (2)

3:14 5:23

steps (1)

89:24

stop (1)

stopping (2)

straddling (1)

strengths (1)

stretching (2)

21:5 42:15

studied (1)

studies (46)

10:22 17:17 44:21

46:2 48:19 49:1

57:10 60:11 70:2

85:13,17,19 89:9

82:19 84:23 85:3,6

90:18 91:7 92:9,16

92:19 95:24,25 96:3

73:13.14

Street (1)

90:20

63:11

3:11

52:15

stub (1)

100:1

69:10

23:5 42:7 50:24

65:24 66:8,8,16

67:15 68:19,21

69:20.24.25 70:19

44:12 45:6,17 49:19

50:15 71:13 90:1

105:20 106:12 107:18

17:10 46:10,18 47:22

42:7 43:15,24 45:9

states (15)

14:19 24:17 77:22

21:18

starting (2)

55:23 99:18

100:3,5,12,14

106:13 109:24

40:21,25 41:13

52:14,15,17,21

53:11,15 54:13

90:16 91:14.23

studying (1)

subbranches (1)

subgroups (1)

87:1

22:19

107:25

96:7

29:17

subject (1)

subjected (1)

subjects (3)

17:6 18:3,4

30:7 32:1

submitted (2)

113:22

study (147)

SUBSCRIBED (2) 97:22,23 100:8 96:4,8,16 97:12,13 53:6 97:16,17,25 98:13 102:2,4 114:12 116:22 suppose (1) 98:23,24 99:1,3,19 59:22 subsequent (4) tape (1)72:12 85:24,25 95:2 sure (25) 5:2 subsequently (2) 10:6 21:17,20 22:6,13 tell (14) 9:12 38:9 23:2 26:11 27:4 28:3 30:12 31:23 substance (5) 33:11 35:23 36:3 32:16 33:10 36:24 4:19 7:1.22 8:15 10:4 13:25 67:8,9,14 72:19 47:5,7 56:9,9 62:7 43:17 76:10 83:6,23 10:16,19 11:5 12:1 75:13 78:1,5 80:10 86:18,25 88:23 substances (17) 87:6 94:5 99:22 12:6,6,8,9,14,15 10:18 12:13 13:16 112:6 13:23 14:12.13.16 103:23 107:16 telling (1) 15:16 16:24 41:3 14:17,24,25 15:6,8 swear (1) 74:19 53:7 56:25 57:12 15:12,14 16:3,5,9 tells (1) 60:23 61:3 64:9 6:1 16:10,22 17:4,5,7 65:3,11 66:2 70:11 sworn (4) 60:5 17:12,17,23 18:23 92:11 6:6 114:12 115:6 ten (8) subtype (2) 50:16 53:14 75:25 19:3,10,15,23 20:9 116:22 24:13 25:12,20,22 110:2,7 systematically (1) 76:4 83:11,13 86:20 25:24,24 26:3,5,19 subtypes (6) 58:11 103:15 34:1 35:3 37:7,17 19:6 20:7 105:13 tend (2) Т 37:23 38:1,5 39:11 109:18 110:12,21 59:1.3 39:16,23 40:2,8,12 suddenly (1) T (3) term (1) 74:16 3:13 115:1,1 88:20 42:23 44:1,18,19 suffering (1) T-cell (4) terminology (1) 45:4 46:8 48:21 84:11 108:17,23 109:1,18 61:10 51:12.13 52:8.9.13 suggest (2) T-cells (1) terms (8) 16:15 31:3 35:10 67:18 83:22 110:14 suggested (1) table (8) 73:11,14 75:5 86:3 58:16,18 61:12 65:6 109:22 8:24 9:3,6 62:4 78:2 107:15 65:8,10,13,23,23 106:19,23 110:2 test (1) suggesting (3) 66:7 67:7,15 68:21 tables (1) 89:13 80:18 98:2,7 68:22 69:4,12 71:1 suggestion (1) 106:23 testified (1) 71:20,21 72:1,3 98:12 take (30) 6:7 76:9,10,21 77:1,1 suggests (2) 4:21 9:17 12:19 15:1 testify (1) 78:21,21,24 79:9,15 13:4 70:18 15:1,3,7,21 16:23 115:6 82:13,17 83:2 84:1 suit (1) 17:24 22:11 23:1 testimony (3) 84:5 85:24 86:5,15 115:13 31:21 44:2,3,5 33:7,19 115:15 86:24 87:11 88:4 suitable (2) 46:20 48:12 51:23 testing (1) 61:23 69:4 74:24 95:13 96:11.24 92:16,20 94:4,7 summarizes (1) 75:24 76:1,9 77:6 tests (2) 101:1 103:10,14,14 113:20 77:20 78:6 90:3 94:11,23 103:16,17,20 104:8 superlative (1) 92:1 tetrachlorvinphos (1) 106:16.20 113:4 103:6 taken (3) 113:24 superlatives (2) 5:3 78:12 111:12 Thank (2) 101:20 103:1 talk (13) 5:25 111:16

26:18 39:22 56:10

11:5 26:18 41:24

65:20 83:2 91:18

92:4 97:3 105:3

15:13 36:18 48:22

56:2 57:9,10 62:21

86:24 88:11 93:5

105:9,18

talked (9)

talking (15)

86:20 87:10 88:8,17

88:18,18,20 104:24

thanks (1)

thing (10)

things (17)

17:2 31:16 35:13,19

54:22 55:2 73:19

87:24 88:12,14

8:11 16:12 18:24

28:25 29:4 32:7

44:12 46:18 47:8

68:6,25 87:19 91:12

48:2 49:8 57:15

113:11

supplemental (6)

77:2 104:18

supported (10)

53:2 100:14

supportive (1)

supports (1)

35:5

24:22 32:21 33:18

37:4,14 38:6,7,11

support (2)

4:12 99:1

4:9 6:18 38:14 76:17

				Page 15
102:12	45:16	48:3,4,9 51:21 60:5	understanding (2)	various (3)
think (68)	tolerant (1)	67:12 71:10 76:2	73:8,12	95:14 102:12 105:8
10:20 12:18 15:20	42:13	82:22 84:20 89:1	United (2)	vary (5)
20:23,24 21:1,5,24	top (15)	103:4 104:9	1:1 5:5	66:5 68:5,11 89:21
23:5 26:9 27:5	21:9,15,17,17,20 22:3	<b>TSG (2)</b>	university (4)	108:19
28:15 29:7 30:21	35:24,24,25 49:18	5:12,15	24:1,8 25:4 111:2	versus (5)
31:25 33:11 34:23	97:9 102:18 103:11	tumors (3)	Unreportable (1)	73:23 82:3 84:17
35:1,4,14,16,22	104:11 105:14	19:5 20:5 107:21	67:4	85:16 112:23
37:9 42:25 55:8	topic (1)	turn (5)	unreported (2)	video (1)
56:8 59:5,5,7 60:13	94:21	18:22 55:20 93:24	48:18,25	5:13
60:15 63:17 66:5,22	total (1)	94:3 111:24	unusual (2)	Videographer (8)
68:5,9,24 70:22	19:17	tweaked (1)	10:25 30:8	3:18 5:1,25 78:9,14
73:20 75:14 76:18	totally (1)	47:4	update (7)	111:10,14 114:4
77:4,24 79:4,7	88:5	two (23)	12:20 15:9 18:12	videotaped (4)
81:16 82:5 85:12,14	tough (2)	8:2 9:16 22:23 23:2	37:24,25 57:8,8	1:15 2:11 4:22 5:3
85:16 88:17 89:25	31:16,20	23:20,25 30:9 39:24	updated (2)	<b>view</b> (4)
90:2 91:2,10 92:2	track (1)	54:12 65:24 66:8,16	10:23 19:13	18:16 21:4 25:25
92:18 97:2,18	9:15	66:23 67:11,16,16	updates (1)	73:18
103:15 104:2 105:3	training (2)	68:21 69:24 70:19	15:11	views (1)
105:7,11 106:5,9,10	68:12 69:21	78:15 81:9 105:3	use (36)	25:20
106:13	TRANSCRIPT (1)	111:7	4:16 6:24 19:14,16	Virginia (1)
third (4)	116:1	type (15)	20:5 40:4 42:7 50:4	3:5
40:7 64:15 65:3,21	transcription (1)	35:2,8,12,22 41:3	50:9,16,19 63:4,25	volume (2)
thorough (1)	116:7	44:5 45:17 46:8	66:25 68:12 71:22	60:10 113:23
39:4	travel (1)	47:1 59:8 69:7	72:20,23,24 73:7,9	volunteers (1)
thought (1)	49:8	82:19 84:22 94:23	73:11 74:1,24 75:5	85:16
62:18	treat (1)	105:8	80:7,20 96:5,10,23	
thousands (1)	110:11	typo (1)	97:6 103:1,6 105:23	W
30:17	treated (1)	78:2	109:9 112:23	wait (1)
three (13)	46:25		users (1)	61:16
22:23 23:2 49:17	treats (1)	<u>U</u>	105:24	want (15)
55:24 56:6,20,23	46:24	U.S (7)	usually (11)	18:23 21:18 23:16
57:3 60:7,19,21	trend (8)	24:9,10 66:13,25 69:1	9:10 10:22 29:22	35:22,23 36:1,4,5,9
74:10 100:18	106:11,12 107:3,10	69:1,2	30:23 32:11,15 35:7	61:15 77:19 78:5
threshold (1)	108:18 109:4,5,23	ubiquitous (1)	35:23,25 36:13	87:10,21 88:9
45:14	trial (6)	66:25	102:21	wanted (1)
Tim (1)	14:25 18:7,13 44:5	Uh-huh (1)	utilize (1)	28:2
5:19	57:7 82:18	108:24	68:4	Ward (1)
time (17)	trials (1)	Uh-hum (2)	V	7:20
6:12 7:19 30:2 70:11	18:2	52:25 85:5		Washington (1)
73:15 79:8 81:9	tried (2)	ultimately (3)	valid (4)	3:12
87:12 89:22 95:17	43:8 70:20	44:25 46:13 48:7	66:17 68:23 96:9,22	wasn't (4)
95:17 96:17 104:4,7	tries (1)	unable (3)	validated (1)	9:11 75:13 87:22
104:13 111:17	45:18	51:3 86:24 90:20	89:12	104:19
114:7 times (4)	truncated (3)	unchanged (1)	validity (4)	way (28)
72:15 83:21,21	55:13 56:19 64:15	38:20 undergone (1)	97:13,17 98:25 100:6	14:13 16:4,9,10,19
103:16	truth (1)	<b>undergone</b> (1) 94:11	<b>valuable (1)</b> 48:17	28:5 32:7 42:2 44:16 49:17 52:22
<b>TIMOTHY</b> (1)	115:6 try (13)	94:11 understand (25)	48:17 value (4)	
3:6		10:6,11,12 14:18 27:2	<b>value (4)</b> 14:22 15:15,19,20	60:2 65:4 69:12 72:3 24 74:11 80:23
5:0 today (5)	10:11,12 31:21 43:24	27:8 46:19 47:3,10		72:3,24 74:11 80:23
75:15 90:8 102:9	46:10,15,21 48:4,10	51:6 52:23 68:13	<b>values (1)</b> 107:2	82:7,20 84:13,18,19
111:22 112:16	48:21 74:25 90:2 105:5	70:3 74:15,25 77:14		87:11 90:14 101:19 107:13 115:12
told (2)		80:10 85:2 89:23	<b>variants (1)</b> 50:22	107:13 115:12 ways (7)
47:23 77:12	<b>trying (20)</b> 14:18 34:10 42:4,10	93:7,12,14 101:21	50:22 varies (4)	12:22 43:24 60:20,21
tolerance (1)	42:18 44:8 45:19	104:9 106:14		61:13,17 91:8
with ante (1)	42.10 44:0 43:19	104.7 100.14	66:3,18 67:20 68:2	01.13,17 91.8
	1	1	1	1

r				Page 10
woll (2)	world (5)	0.02 (1)	100.17	90.17 17 91.14
we'll (3)		0.82 (1)	100:17	80:17,17 81:14
15:13 39:21 76:4	20:21,25 21:5,10 74:2	62:15	124-page (1)	85:20 87:19 103:25
we're (1)	worldwide (2)	0.87 (2)	93:25	104:11
110:1	74:25 75:3	105:14,15	1350 (1)	2010 (1)
we've (4)	worthy (1)	05 (2)	3:11	84:15
6:12 44:6 62:21 90:8	27:21	65:8 107:17	136021 (1)	2012 (1)
weak (1)	wouldn't (1)	084-003481 (1)	1:25	14:6
51:24	101:16	115:22	15 (7)	2013 (1)
weaken (3)	write (2)		1:17 2:7 4:9 72:15	14:7
13:17,20,21	38:19 40:7	1	77:21 115:3 116:3	2017 (3)
weakness (4)	written (3)	1 (12)	15th (2)	24:8 30:3,10
52:13,17 71:1 91:22	7:19,19 24:9	6:16,18 38:13 55:21	5:11 115:16	2018 (46)
weaknesses (1)	wrong (3)	108:3,4,5,20 109:8	16-md-02741-VC (2)	1:17 2:7 5:11 6:24
52:16	83:21,23 106:3	109:11,14 116:6	1:4 5:7	8:16,22 10:15 12:1
wear (3)	wrote (1)	1.0 (3)	180 (1)	12:14,22 14:4 15:9
31:2,7 34:10	32:2	64:2 107:2 108:11	3:4	16:3 18:23 19:10,23
web (2)		1.04 (2)	1993 (2)	20:9 31:11 34:1
74:25 75:3	X	64:19,21	79:10 87:14	38:5 42:23 49:13
website (2)	X (3)	1.27 (1)	1997 (6)	60:8 65:10 76:9
77:5,15	4:1 67:9 88:22	64:3	79:10 87:12,14,15,17	78:21 79:20,22
weeks (4)		1.4.2 (1)	87:18	82:13 85:19 87:15
30:4,7,9,17	Y	113:17	1999 (3)	89:23 91:14,23
weigh (1)	<b>Y</b> (1)	1.53 (1)	55:12 72:13 81:14	92:16 95:10 97:5,11
10:4	88:22	109:13	55.12 72.15 01.11	100:13 103:10
weighing (1)	yeah (12)	10 (5)	2	106:4,21 107:7
12:12	11:12 24:21 36:24	21:17 35:25 45:15	2 (15)	115:3,16 116:3
weighs (1)	49:25 56:3 76:16	72:15 77:20	6:22 7:18 8:21 18:22	21 (3)
13:3	77:4 96:25 102:4	<b>10:17</b> (2)	22:11 34:1 49:13,15	4:15 99:15 100:22
weight (12)	106:25 107:4	78:11,12	62:4 76:9 106:19,21	22960 (1)
12:14,16,20 14:20,23	109:20	10:26 (2)	106:23 110:2 116:6	3:5
52:8 53:10,11,12	year (10)	78:13,16	20 (6)	22nd (1)
104:3,3,6	40:4 71:23 72:14 73:5	103 (2)	9:3 35:25 72:10 87:16	30:3
went (3)	74:5,8,8,17,18	112:14,21	114:13 116:22	23 (1)
26:20 39:3 79:23	83:11	104 (1)	2000 (3)	4:24
weren't (1)	years (15)	113:2	72:22 73:17,23	25 (1)
17:16	31:24 53:14 61:16	107 (3)	20005 (1)	35:24
whatsoever (1)	72:10,11,15,15,20	111:25 112:2,3	3:12	2741 (1)
86:20	72:23 74:10 81:21	11 (1)	2000s (6)	1:4
WHEREOF (1)	83:11 86:21 87:16	95:22	73:10,20,24,25 74:20	29-1 (2)
115:15	103:21	11:04 (2)	80:1	4:9 6:15
witness (14)	Yep (1)	111:11,12	2001 (17)	29-2 (2)
3:3 4:3 5:20 6:2,6	100:4	11:05 (2)	40:3 71:21 72:2 73:17	4:15 6:21
75:24 76:2,6 78:8	yesterday (1)	111:13,15	73:24 74:4,17 76:11	29-3 (2)
94:18 111:17 115:5	83:16	11:08 (2)	77:2,23,24 78:2,22	4:20 7:3
115:9 116:4	yielded (1)	114:6,7	79:8,13,16,17	29-4 (2)
word (5)	60:21	111 (1)	2002 (1)	4:24 92:23
23:1 42:7 48:1 100:23	00.21	4:5	74:18	2A (1)
103:9	Z	112 (2)	2003 (1)	112:9
words (2)	Z (1)	93:1,8	74:18	
15:5 62:25	88:22	113 (1)	2005 (29)	3
work (4)	Zellner (2)	4:4	7:23 8:10 11:5 12:2	3 (5)
22:24 24:9,22 97:19	3:18 5:12	12 (1)	12:15,23 14:3,20	4:20 7:4 53:19 108:4
workers (1)		30:5	15:8 16:21 18:13	116:7
96:12	0	122 (1)	55:12,13 56:20	3/8 (1)
working (4)	0.63 (1)	93:1	64:16 72:13 77:25	105:7
93:1,7 97:19 100:25	64:3	124 (1)	78:2 79:9,14,19,23	30 (1)

		1	
72:10	8:53 (2)		
31 (2)	2:8 5:11		
108:18 109:4			
34 (1)	9		
4:11	9 (2)		
34,698 (1)	93:24 94:3		
63:24	90s (3)		
37 (14)	12:7 72:21 73:24		
45:22,23,25 46:8	91 (1)		
48:13,22 49:23 50:2	107:3		
51:13,13,19 52:2,4	92 (1)		
54:18	4:24		
	93 (1)		
4	72:7		
4 (5)	95 (1)		
55:20 61:23 92:22,25	50:20		
98:14	<b>97</b> (1)		
4.25 (1)	72:7		
109:11			
40 (17)			
41:11,11,16 42:4,5,14			
42:18 43:17 44:7			
45:12,16,21,24 46:9			
51:19 52:2,4			
5			
5 (6)			
19:12 21:9,17,20			
42:12 45:15			
5.2.2 (1)			
113:3			
50 (1)			
67:15			
5440 (2)			
2:13 5:9			
2.15 5.7			
6			
6 (3)			
4:4,9,15			
<b>6.3</b> (1)			
112:7			
<b>60018</b> (1)			
5:10			
<b>63</b> (1)			
40:10			
6th (1)			
30:10			
50.10			
7			
7 (6)			
4:20 20:1 24:20 42:12			
112:1 113:15			
112.1 113.13			
8			
8(2)			
53:19 61:23			
L			