

**From:** Jonna Mazet <jkmazet@ucdavis.edu>  
**To:** Karen Saylors <ksaylors@metabiota.com>; Eddy Rubin <erubin@metabiota.com>  
**CC:** Brian Bird <bhbird@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Corina Grigorescu Monagin <cgmonagin@ucdavis.edu>; Billy Karesh <karesh@ecohealthalliance.org>; Peter Daszak <daszak@ecohealthalliance.org>; predict@ucdavis.edu <predict@ucdavis.edu>  
**Sent:** 6/22/2017 9:01:55 AM  
**Subject:** Fwd: SL update

Dear Karen & Eddy,

We have been experiencing some confusing questions from the teams, indicating rumors and misinformation being shared with those in transition. While anxiety through this process is not unexpected, it appears that some of the messaging from Metabiota staff may be intended to cause chaos and more confusion. The most concerning outcome, of course, is heightened anxiety and concerns of the teams on the ground, which I believe we can agree, no one wants.

Unfortunately, now we are receiving messages (see below) from USAID that some of this confusion may directly be due to communications from Frantz (ongoing?). We would appreciate you shutting down his communications immediately, as they are doing damage, rather than helping. Karen, you mentioned that he is not in good communication with you, but unfortunately, the situation seems to be worse than that.

I would appreciate your immediate attention to this matter,

Jonna

----- Forwarded message -----

From: **Andrew Clements** <aclements@usaid.gov>

Date: Thu, Jun 22, 2017 at 8:42 AM

Subject: SL update

To: Jonna Mazet <jkmazet@ucdavis.edu>

Cc: Shana Gillette <sgillette@usaid.gov>, Alisa Pereira <apereira@usaid.gov>, David J Wolking <djwolking@ucdavis.edu>

Hi Jonna,

I'm writing to give you some initial, early feedback on the SL trip from the USAID perspective.

Our visiting senior staff heard a lot about the early confusion with the transition that I believe came from Franz sharing inaccurate information and causing worry among the local staff and the Mission. So we're trying to play catch up at this point and saying that things could've gone better and that we and Predict are working to get things back on track. It sounds like Brian's visit is going a long way towards repairing things, but we'll have to say on top of things to make sure there are no gaps in communications and that the approvals get shifted to UCD as soon as possible so activities can re-start.

I completely understand the desire to wait until there is final, accurate information before sharing with in-country staff and the Mission so there is minimal confusion, but the downside is that sometimes people start making things up which can cause more confusion. So I think we need to find an appropriate balance between speed and accuracy regarding information sharing, especially in SL but also in other countries.

Speaking of confusion, are there any other countries where we need to do damage control regarding Franz or others in MB? I believe he said some things to Zandra, but I think we're okay in CDI following a phone call with her a couple of weeks ago.

Andrew

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: 1-571-345-4253*  
*Email: aclements@usaid.gov*



**From:** Katherine Leasure <kaleasure@ucdavis.edu>  
**Sent:** Wed, 31 Jul 2019 12:59:03 -0700  
**To:** Andrew Clements <aclements@usaid.gov>, Cara Chrisman <cchrisman@usaid.gov>, Alisa Pereira <apereira@usaid.gov>, Daniel Schar <dschar@usaid.gov>, "Meinke, Timothy (HANOI/OH)" <Tmeinke@usaid.gov>, Lisa Kramer <lkramer@usaid.gov>, Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>, Zandra Andre <zandre@usaid.gov>, ashek@usaid.gov  
**Cc:** Ava Sullivan <sullivan@ecohealthalliance.org>, Predict inbox <predict@ucdavis.edu>  
**Subject:** [predict] Sofitel Bali Reservations- PREDICT All-Country Meeting  
[Sofitel Bali Reservation Form - USAID PREDICT 2.pdf](#)

Good afternoon all,

Below are the instructions for booking your hotel room for the upcoming PREDICT All-Country Meeting in Bali, along with the required booking form. As you plan your trip, please note per the booking form, there is "no refund on shortened or cancellation stay once the booking is confirmed."

If you have any questions regarding the booking process, please feel free to reach out to Ava Sullivan ([sullivan@ecohealthalliance.org](mailto:sullivan@ecohealthalliance.org)), who has been coordinating with the hotel on our group room block.

Thank you,  
Katie

**From:** [predict-request@ucdavis.edu](mailto:predict-request@ucdavis.edu) <[predict-request@ucdavis.edu](mailto:predict-request@ucdavis.edu)> **On Behalf Of** Ava Sullivan  
**Sent:** Friday, July 26, 2019 8:52 AM  
**To:** David John Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>; Beth Edison <[bedison@metabiota.com](mailto:bedison@metabiota.com)>; Carolina Churchill  
**REDACTED** Ryan, Brad S. <[RyanB@si.edu](mailto:RyanB@si.edu)>; Zimmerman, Dawn <[ZimmermanD@si.edu](mailto:ZimmermanD@si.edu)>; Kevin N Gonzalez <[kngonzalez@ucdavis.edu](mailto:kngonzalez@ucdavis.edu)>; Molly Turner <[turner@ecohealthalliance.org](mailto:turner@ecohealthalliance.org)>; Evelyn Luciano <[luciano@ecohealthalliance.org](mailto:luciano@ecohealthalliance.org)>  
**Cc:** predict Sympa List <[predict@ucdavis.edu](mailto:predict@ucdavis.edu)>  
**Subject:** [predict] Sofitel Bali Reservations- PREDICT All-Country Meeting

A kind hello!

I am excited to share with you the opportunity to reserve your room at the Sofitel, Bali for the PREDICT All-Country Meeting. While the meeting dates are Sept 15-17, the hotel block is for arrival on the 14th and checkout on the 18th. The room rate is also open 3 days prior and 3 days after the event. The completed form should be sent to [H9078-RE1@sofitel.com](mailto:H9078-RE1@sofitel.com) and cc: [H9078-SL14@sofitel.com](mailto:H9078-SL14@sofitel.com)

All the best,  
Ava

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**Ava Sullivan**  
PREDICT-2 Operations Coordinator  
Country Liaison, India  
  
EcoHealth Alliance  
460 West 34th Street – 17th floor  
New York, NY 10001  
[646-868-4705](tel:646-868-4705) (direct)  
[607-280-7669](tel:607-280-7669) (mobile) recently updated  
[ava.lee.sullivan](mailto:ava.lee.sullivan) (skype)  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

**EcoHealth Alliance leads cutting-edge scientific research into the critical connections between human and wildlife health and delicate ecosystems. With this science, we develop solutions that prevent pandemics and promote conservation.**

--  
**Katherine Leasure**  
HR/Payroll/Financial Assistant  
One Health Institute  
530-752-7526

UCDUSR0008608

**USAID PREDICT-2 All Country Meeting  
14 – 18 September 2019  
Sofitel Bali Nusa Dua Beach Resort**

**ACCOMMODATION BOOKING FORM**

**ACCOMMODATION**

- Special accommodation rates are available for those who attending the **USAID PREDICT-2 All Country Meeting** at Sofitel Bali Nusa Dua Beach Resort.
- All room request will be subject to availability, our reservation will reconfirm on the availability upon receiving validate booking form. Other available room categories will be advised upon time of booking
- Room rates are valid for 3 days prior and 3 days after the main event.

**Available options:**

Room Category	Special Group Rates
Luxury Room <input type="checkbox"/>	USD 132.30++/room/night inclusive breakfast

**Terms and conditions**

- The above rates are based on per room per night charge
- The above rates are inclusive of breakfast up to 2 people per room
- The above rates are inclusive of WIFI access in the guest rooms
- The above rates are **excluding of 21% tax and service charge**
- The above rates are in **USD (US Dollars)**
- Confirmation on rooms' category is subject to availability upon reservation
- Rates are quoted exclusively for this event and not applicable for e-commerce on any public e-commerce web site and should not be disclosed, directly or indirectly unless explicit written approval is given.
- The above rates shall apply 3 days before & after your event for those delegates wishing to extend or arrive earlier during the period of their stay. The applicable of these rates offer will be subject to availability upon request made.

Please indicate your room requirement during your stay (whole duration):

**Full Name** : \_\_\_\_\_

**Number of Person(s)** : \_\_\_\_\_

**Contact Number** : \_\_\_\_\_

**E-mail** : \_\_\_\_\_

**Arrival Date** : \_\_\_\_\_ **Flight#** : \_\_\_\_\_ **ETA** : \_\_\_\_\_

**Departure Date** : \_\_\_\_\_ **Flight#** : \_\_\_\_\_ **ETD** : \_\_\_\_\_

**Will You Require Airport Transfer?** : ☐ **Pick-Up Only** ☐ **Drop-Off Only** ☐ **Two -Ways**

**Type of Vehicle** : ☐ Toyota Innova IDR 350,000 nett/car/way

**Type of Payment** : ☐ **Credit Card**  
☐ **Bank Transfer**

**Note:**

- Payment link will be sent to your email, should you choose the Credit Card as the payment type
- Bank account will be sent to your email, should you choose the Bank Transfer as the payment type
- No refund on shortened or cancellation stay once the booking is confirmed
- Incidentals charges (include transportation arrangement) will be guaranteed with provided credit card details and to be settled upon check-out
- Please send the completed documents to Sofitel Bali Nusa Dua reservation team at [H9078-RE1@sofitel.com](mailto:H9078-RE1@sofitel.com) cc to [H9078-SL14@sofitel.com](mailto:H9078-SL14@sofitel.com)

**NO BOOKINGS CAN BE ACCEPTED WITHOUT COMPLETE CREDIT CARD DETAILS & SUPPORTING DOCUMENTS ATTACHED**

**Sofitel Bali Nusa Dua Beach Resort**  
• Tel: 62.361.849.2888 • Fax: 62.361.849.2999

**From:** Catherine Machalaba <machalaba@ecohealthalliance.org>  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>  
**Cc:** "William B. Karesh" <karesh@ecohealthalliance.org>, Peter Daszak <daszak@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, "Kevin Olival, PhD" <olival@ecohealthalliance.org>, "sja2127@cumc.columbia.edu" <sja2127@cumc.columbia.edu>, Alison Andre <andre@ecohealthalliance.org>  
**Subject:** Re: One Health Short-course Training - Tanzania and Rwanda  
**Sent:** Wed, 4 Jan 2017 21:48:44 +0000

Dear Jonna and all,  
This course looks fantastic! Thank you so much for sharing the details.

I've sent it to the Network for Evaluation of One Health for their website and list serve, and posted it to the Future Earth Open Network under our oneHEALTH project page. We'll also disseminate it through the APHA Veterinary Public Health group email list.

Have you shared it with the One Health Commission and Massey University network? If not, I'm on it!

I'll also share it via social media, including the One Health Approaches Facebook page that Olga Jonas runs and has a good international following.

Happy New Year, and looking forward to seeing you next week!

Kind regards,  
Catherine  
**Catherine Machalaba, MPH**  
*Health and Policy Program Coordinator*

EcoHealth Alliance  
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New York, NY 10001

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*Science Officer, Future Earth oneHEALTH Project*

*Chair, Veterinary Public Health Special Primary Interest Group, American Public Health Association*

*Program Officer, IUCN SSC Wildlife Health Specialist Group*

*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.*

On Jan 4, 2017, at 1:54 PM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Dear Catherine,

I'm looking forward to seeing you & catching up. As I know you are acutely aware, there is an ongoing need for more training for on-boarding individuals in One Health, especially those coming into project leadership positions. Attached is an announcement for our summer Rx One Health short course offered by UC Davis, University of Rwanda, and Sokoine University of Agriculture developed as an adjunct to other training programs to help fill some of the void.

We have been developing this course idea for several years. In fact, it builds upon our previously very successful Envirovet Summer Institute. That course was also for health professionals but with a more specific wildlife and veterinary focus. We decided to reinvent the course after a hiatus, now offering it with a solid One Health focus. Especially with GHSA and rapid on-boarding needs for local and global projects in health, we are finding that the pool of local professionals trained in One Health and available for hire is quite shallow. The Tanzania portion of the course is being primarily developed by me, Woutrina Smith, our medical school and veterinary faculty, Prof Kazwala, and our fabulous Tanzanian collaborators. The Rwanda portion is being led



by Kirsten Gilardi from our side with the same med & vet school faculty, as well as University of Rwanda and our other Rwandan collaborators.

We hope to have a mix of international trainees. I would appreciate your support in circulating the flyer to those who you think might be interested in attending and able to participate.

Happy New Year & see you in the Spring!  
Jonna

[Jonna AK Mazet, DVM, MPVM, PhD](#)  
Professor of Epidemiology & Disease Ecology  
Executive Director, One Health Institute  
Global Director, PREDICT Project of USAID Emerging Pandemic Threats Program

School of Veterinary Medicine  
University of California  
1089 Veterinary Medicine Drive  
Davis, CA 95616, USA  
[+1-530-752-3630](tel:+15307523630)  
[onehealthinstitute.net](http://onehealthinstitute.net)

For scheduling and logistical issues, please contact:  
Ms. Liz Chase  
[eschase@ucdavis.edu](mailto:eschase@ucdavis.edu)  
[+1-530-752-3630](tel:+15307523630)

<rx-one-health-2017-flyer.pdf>

**From:** Ogawa, V. Ayano <VOgawa@nas.edu>  
**To:** 'Jonna Mazet' <jkmazet@ucdavis.edu>; 'daszak@ecohealthalliance.org' <daszak@ecohealthalliance.org>  
**CC:** 'eschase@ucdavis.edu' <eschase@ucdavis.edu>; Mundaca-Shah, Ceci" <CMundaca@nas.edu>  
**Sent:** 2/7/2017 7:09:31 AM  
**Subject:** One Health WG - introduction to Dr. William Karesh

Dear Jonna and Peter,

Thank you again for your participation in the One Health Work Group. As you know, the work group would like to invite Dr. William Karesh as a core member. I was wondering if either of you would be willing to introduce Dr. Karesh to us so that we can extend an invitation to him and provide him with more information about the work group?

Please let me know if this is feasible. We'd very much appreciate your help with this!

Many thanks,  
Ayano

**V. Ayano Ogawa, S.M.**

Associate Program Officer, Forum on Microbial Threats  
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~~~~~

**From:** Jim Desmond <desmond@ecohealthalliance.org>  
**Sent:** Mon, 13 Feb 2017 08:28:55 -0800  
**To:** Monica Dea <mdea@usaid.gov>  
**Cc:** Evelyn Luciano <luciano@ecohealthalliance.org>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Jon Epstein <epstein@ecohealthalliance.org>, Augustine Mulbah <amulbah@usaid.gov>, Alisa Pereira <apereira@usaid.gov>, Tara Milani <tmilani@usaid.gov>, Mildred Howard <mphoward@usaid.gov>, Emma Lane <lane@ecohealthalliance.org>  
**Subject:** [predict] Re: Meetings/agenda

Hi Monica,

Thanks so much for rearranging the schedule! That's very helpful for us. The following people will come to the mission for both meetings:

Brian Bird  
Tracey Goldstein  
Simon Anthony  
James Desmond  
Jonathan Epstein

Let me know if you need any other information.

Regards,

Jim

**James S. Desmond, DVM, MS**  
**Field Veterinarian**  
**Email:** [desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)  
**Phone:** +231 776147565 (Liberia)  
**Phone:** +1 718 300 1451 (USA)  
**Skype:** jim.desmond

On February 13, 2017 at 4:21:55 PM, Monica Dea ([mdea@usaid.gov](mailto:mdea@usaid.gov)) wrote:

Hi Jim and All,  
I was able to switch our meeting now for Tuesday, February 21, from 10-11, at the Embassy. I hope this will work for you and the team. Please provide the names of the team members that will attend the Tuesday meeting and also the Wednesday meeting so Gus can request access.  
Thanks.

On Thu, Feb 9, 2017 at 11:56 AM, Jim Desmond <[desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)> wrote:

Hi Monica,

We had a call last night amongst our team and we also agree it would be best to have the meeting with government stakeholders after meeting with the Mission. In order to make this work, it would be much better if we could meet with your team early on the 21st after which we could head to Gbarnga to visit the lab at Phebe hospital. We'd be happy to return to the mission on the 22nd for the interagency health meeting for a presentation. I'll send the names of our team in a separate email so Gus can arrange our visit(s).

Thanks for your cooperation in arranging the schedule.

Regards,

Jim

**James S. Desmond, DVM, MS**  
**Field Veterinarian**  
**Email:** [desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)  
**Phone:** +231 776147565 (Liberia)  
**Phone:** +1 718 300 1451 (USA)  
**Skype:** jim.desmond

On February 9, 2017 at 11:12:37 AM, Monica Dea ([mdea@usaid.gov](mailto:mdea@usaid.gov)) wrote:

Thank you Jim for sending this draft itinerary for the PREDICT team. I am pleased to see that the team will meet with our partners and stakeholders. Do you plan to meet also with the FDA? And how about FAO? It will be good to have Tara's feedback on this itinerary. I suggest to have the EOC presentation after the meeting

with the Mission, so let's see if this will be a possibility, given the packed agenda.  
Please provide the full names of the persons coming to the Embassy on February 22 to facilitate access. I am including My colleague, Gus, who will kindly assist with the access request.  
Please let me know what you think.  
Thank you, Monica

On 8 Feb 2017, at 9:53 PM, Jim Desmond <[desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)> wrote:

**James S. Desmond, DVM, MS**  
**Field Veterinarian**  
**Email: [desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)**  
**Phone: +231 776147565 (Liberia)**  
**Phone: +1 718 300 1451 (USA)**  
**Skype: jim.desmond**

On February 8, 2017 at 9:15:33 PM, James Desmond ([desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)) wrote:

Hi Monica  
Here is a tentative schedule for the upcoming visit of the PREDICT team.

Feb 20 - Team arrives  
Feb 21 - trip to Phebe hospital in Gbarnga - meet with Lab head, tour lab; also meet with NAMRU-3 Director - Andrew Letizia  
Feb 22 - EOC Presentation - morning; Mission and Embassy presentation - afternoon  
Feb 23 - LIBR/NRL - Jon Epstein departs for US  
Feb 24 - MOA, ACCEL, CDC meetings/or visit field site  
Feb 25 - Visit chimpanzees/or return from field site  
Feb 26 - remainder of PREDICT team departs for Sierra Leone

I would like to request that the other team members attend the 1pm-2pm meeting with Tara to discuss the overall project and the current staffing plan for PREDICT Liberia. I will be attending the weekly IMS meeting Friday and will continue to update the Mission on our plans for the visit as they develop. Please provide clarification on details for presentations as they become available. Talk to you soon.

Regards,

Jim

**James S. Desmond, DVM, MS**  
**Email: [desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)**  
**Phone: + 231776147565(Liberia)**  
**Phone: +17183001451 (USA)**  
**Skype: jim.desmond**

On Feb 8, 2017, at 1:10 AM, Monica Dea <[mdea@usaid.gov](mailto:mdea@usaid.gov)> wrote:

Hi Jim,  
Welcome back and I hope you had a well deserved and restful break. USAID Liberia appreciate your and your organization's efforts and we are looking forward to Jon's visit. I know you are working on setting up meetings and after consulting Tara, the suggestion is for Jon (and you) to meet with Tara on Wednesday, February 22 from 1 to 2 pm; From 2 to 3:30 pm we have the USG Interagency Health meeting and we would welcome Jon and you to provide updates (the meeting is still to be confirmed). We will be able to confirm the attendance to the USG Interagency meeting in the next few days. We can also discuss the

format of the presentation (and the process).  
Please let us know if you have any questions.  
Thank you.

--  
Monica N. Dea  
Sr. Public Health Advisor  
Health Team  
USAID Liberia  
502 Benson Street, Monrovia  
Tel (Reception): +(231) 77 677 7000  
Tel (Direct): +(231) 77 677 7226  
Mobile: +**REDACTED**



**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Tue, 21 Mar 2017 17:34:13 +0100  
**Subject:** New Saudi Arabia MERS report to OIE  
**To:** William Karesh <Karesh@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, "Subhash (FAORAP) Morzaria" **REDACTED**, **REDACTED**, **REDACTED**, **REDACTED** vankerkhovem@who.int, abubasha@just.edu.jo, "Lotfi Allal (FAOKH)" **REDACTED**  
**Cc:** Dennis Carroll <dcarroll@usaid.gov>, lparish@usaid.gov, akibria@usaid.gov, malkhateeb@usaid.gov, aelerian@usaid.gov, "Daniel Schar (RDMA/OPH)" <dSchar@usaid.gov>, "Sudarat Damrongwatanapokin (RDMA/OPH)" <sDamrongwatanapokin@usaid.gov>, akay@usaid.gov, Alisa Pereira <apereira@usaid.gov>

[http://www.oie.int/wahis\\_2/public/wahid.php/Reviewreport/Review?page\\_refer=MapFullEventReport&reportid=23329](http://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=23329)

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
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**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Mon, 24 Apr 2017 19:45:15 +0200  
**To:** David J Wolking <djwolking@ucdavis.edu>  
**Cc:** Alisa Pereira Emerging Threats Division <apereira@usaid.gov>, "Prof. Jonna Mazet" <jkmazet@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>  
**Subject:** Re: [predict] Can we have a quick call today to talk about new money and which countries absolutely need it right away?

Thanks

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Apr 24, 2017, at 7:35 PM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Thanks Andrew, we can use: **REDACTED**  
I'll be limited in interpreting Liz's projections without her consult but we can at least put a plan in motion.

David

On Mon, Apr 24, 2017 at 10:24 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

10:45 your time is good. Can we use your call in number?

Would you be able to provide an estimated date when DRC and Liberia will run out of money? The table Liz previously sent shows how much they will be in the red if they keep spending through the end of Sep, but it would be helpful to have 'drop dead' dates to spur action on our end. We're hoping to get a small incremental funding action done this week which would cover Liberia, SL, and hopefully also DRC although the latter may be expecting too much.

Thanks!

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Apr 24, 2017, at 7:14 PM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Hi Andrew,  
I just connected with Jonna, she suggested you, Alisa, and I should carry on with a call if needed and I can keep her informed.

Would around 10:45 or 11AM PDT work for you and Alisa? Another time today?

Thanks,

David

On Mon, Apr 24, 2017 at 9:36 AM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Hi Andrew,  
Jonna is traveling in India and with Liz on vacation until next week I think we better make sure Jonna can join.

I'll text her and see what her availability is today, looks like it is mid-afternoon for her there.

David

On Mon, Apr 24, 2017 at 7:51 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

I want to make sure I get it right so we can push through an incremental funding action.

I think it's SL, Liberia, and DRC.

Does sometime between 9:00-11:00 PDT work?

Thanks!

Andrew

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

**From:** William B. Karesh <karesh@ecohealthalliance.org>  
**To:** Tracey Goldstein <tgoldstein@ucdavis.edu>; Simon Anthony <anthony@ecohealthalliance.org>; Chris Johnson <ckjohnson@ucdavis.edu>  
**CC:** Amanda Fuchs <fuchs@ecohealthalliance.org>; predict@ucdavis.edu" <predict@ucdavis.edu>  
**Sent:** 4/25/2017 8:31:17 AM  
**Subject:** [predict] Fwd: PREDICT Activity Tracker

Hi there,

Attached is the situation tracker that I mentioned on the EB call to let P&R know what information our country folks could present at National One Health Platform meetings that they are supposed to help organize. I tried to keep it as simple as possible and give them ideas of topics for discussion at local levels.

Leilani is going to make the first run on filling in the behavior column, Catherine will begin with the One Health Eval. and the group at EHA will fill in as much as they can for EHA countries.

**We will send ours to all of you for review, but I thought you might want to get a head start on parts that you could fill in.**

Just realized that I left out "training".

BK

**William B. Karesh, D.V.M**  
*Executive Vice President for Health and Policy*

EcoHealth Alliance  
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[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

President, OIE Working Group on Wildlife

Co-chair, IUCN Species Survival Commission - Wildlife Health Specialist Group

EPT Partners Liaison, USAID Emerging Pandemic Threats - PREDICT-2 Program

*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.*

Begin forwarded message:

**From:** Amanda Andre <[amanda.andre@ecohealthalliance.org](mailto:amanda.andre@ecohealthalliance.org)>  
**Subject:** PREDICT Activity Tracker  
**Date:** April 24, 2017 at 4:57:51 PM EDT  
**To:** "William B. Karesh" <[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)>

Hi Billy,

Attached is the PREDICT Activity tracker with the updates you mentioned.

**Amanda Andre**

*Administrative Assistant to the Executive Vice President for Health & Policy*






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New York, NY 10001

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# PREDICT Country Activity Snapshot

	Wildlife Sampling	Domestic Animal Sampling	Human Questionnaires	Human Sampling	Evaluating OH Approaches	Laboratory Testing	Results Ready to Report to Government
Bangladesh							
Cambodia							
Cameroon							
China							
Cote d'Ivoire							
Democratic Republic of Congo							
Egypt							
Ethiopia							
Gabon							
Ghana							
Guinea							
India							
Indonesia							
Jordan							
Kenya							
Lao PDR							
Liberia							
Malaysia							
Mongolia							
Myanmar							
Nepal							
Republic of Congo							
Rwanda							
Senegal							
Sierra Leone							
Tanzania							
Thailand							
Uganda							
Vietnam							
South Sudan							

KEY	
	In process
	completed
	needs updating
	Planned <3m
	Planned in FY17

Sudan							
-------	--	--	--	--	--	--	--



**From:** David J Wolking <djwolking@ucdavis.edu>  
**Sent:** Tue, 25 Apr 2017 22:16:10 -0700  
**Subject:** Re: [predict] Can we have a quick call today to talk about new money and which countries absolutely need it right away?  
**To:** Andrew Clements <aclements@usaid.gov>, Alisa Pereira Emerging Threats Division <apereira@usaid.gov>, PREDICTMGT <predictmgt@usaid.gov>  
**Cc:** "Prof. Jonna Mazet" <jkmazet@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>  
[PREDICT & EHP \\$4M Incremental.docx](#)

Hi Andrew,

Below are the anticipated dates for exceeding country caps in Sierra Leone (details provided in our previous email exchange), DRC, and Liberia.

Also, I've attached a briefing on the expected outcomes from reducing the operating budget for PREDICT's Ebola Host Project from the original \$15M to \$4M should this proposed incremental funding action impact release of remaining funds.

Best,

David

### **Anticipated dates for exceeding USAID country caps in Sierra Leone, Liberia, and DRC**

- **Sierra Leone:** Anticipate exceeding country cap of \$3M by May 31, 2017 due to costs associated with sample testing (now underway)
- **DRC\*:** Expect to have exceeded the country cap of \$3.2M by April 2017
- **Liberia:** Anticipate exceeding country cap of \$3M by August 2017

*\*To be verified through Y3Q2 report, currently pending submission to USAID*

On Mon, Apr 24, 2017 at 10:45 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

Thanks

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Apr 24, 2017, at 7:35 PM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Thanks Andrew, we can use: **REDACTED**

I'll be limited in interpreting Liz's projections without her consult but we can at least put a plan in motion.

David

On Mon, Apr 24, 2017 at 10:24 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

10:45 your time is good. Can we use your call in number?

Would you be able to provide an estimated date when DRC and Liberia will run out of money? The table Liz previously sent shows how much they will be in the red if they keep spending through the end of Sep, but it



would be helpful to have 'drop dead' dates to spur action on our end. We're hoping to get a small incremental funding action done this week which would cover Liberia, SL, and hopefully also DRC although the latter may be expecting too much.

Thanks!

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Adviser*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: [1-571-345-4253](tel:1-571-345-4253)*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

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Hi Andrew,  
I just connected with Jonna, she suggested you, Alisa, and I should carry on with a call if needed and I can keep her informed.

Would around 10:45 or 11AM PDT work for you and Alisa? Another time today?

Thanks,

David

On Mon, Apr 24, 2017 at 9:36 AM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Hi Andrew,  
Jonna is traveling in India and with Liz on vacation until next week I think we better make sure Jonna can join.

I'll text her and see what her availability is today, looks like it is mid-afternoon for her there.

David

On Mon, Apr 24, 2017 at 7:51 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

I want to make sure I get it right so we can push through an incremental funding action.

I think it's SL, Liberia, and DRC.

Does sometime between 9:00-11:00 PDT work?

Thanks!

Andrew

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Adviser*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
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## **Implications of a limited \$4 million operating expense supplemental for PREDICT's Ebola Host Project**

PREDICT activities in the Ebola-affected countries of Guinea, Liberia, and Sierra Leone were specifically designed to perform a comprehensive, longitudinal, multi-country coordinated investigation to identify potential animal hosts of the specific cause of the 2014-2016 Ebola outbreak (*Ebola zairevirus*), to detect other filoviruses that could potentially cause human infections in the future, and to better understand the conditions associated with increased likelihood of another Ebola virus outbreak. Since the launch of project activities, *Ebola zairevirus* has been prioritized by the governments of all three countries as a priority zoonotic disease for which national capabilities and systems for surveillance, detection, and response require considerable support and strengthening as part of the Global Health Security Agenda.

Animal health systems in these three countries are not equipped with the infrastructure, resources, or trained personnel to conduct the zoonotic disease detection and outbreak response activities needed in the event of another Ebola outbreak crisis. The higher education system, including veterinary schools, in the region do not provide sufficient field-based training opportunities for current animal health staff to gain and strengthen the needed skills for safe and effective field and laboratory-based zoonotic disease investigations. PREDICT's Ebola Host Project, currently active in all three countries, is working with government and local partners to strengthen national capacity for zoonotic disease surveillance using broadly applicable and easily adaptable methods to safely handle, sample, and test animals for priority diseases. The project's focus is designed to strengthen the core skills needed for zoonotic disease surveillance, and PREDICT is currently one of few partners in the region directly targeting improvements to the animal health system.

Through the Ebola Host Project within PREDICT, locally-based teams have received training in biosafety, safe animal capture and handling, safe sample collection, cold chain, and safe sample transport and shipping. Our teams have gained critical experience in the field through intensive sampling activities across a broad geographic area, diversity of potential host species (wildlife and domestic animals), and across seasons in an attempt to better understand the extent of the potential risk of *ebolavirus* infection from animal reservoirs and potential spillback into domesticated animals from infected people. PREDICT has initiated the USAID-directed and approved sampling plan aimed at collecting specimens from approximately 54,000 animals over a two to three-year period, a scale that is unprecedented and which has been severely hampered by the slow release of funds for this directed project. This large scope, however, is required due to either the apparent rarity of the potential animal reservoir contact with humans or the highly infrequent and possibly seasonal timing of virus shedding by animal reservoir(s). Smaller scale studies have all failed to date to identify the animal origins of *ebolaviruses*. This is the key first step to develop evidence-based risk reduction communications to prevent human infections, one for which PREDICT has already proven the ability to succeed and has started to contribute to the better understanding of the complex dynamics associated with the host-virus interactions that lead to the initial virus spillover and further spread, including the possibility of infection in previously unaffected countries or regions.

To achieve this target and obtain full benefit and value from activities, the project was budgeted at \$15M. A reduction in resources for project activities to that which has already been scrimped from other operating budgets to allow initial implementation plus only \$4M (roughly a quarter of the original) would have drastic implications for project scope and success, planned activities, partnerships, and capacity strengthening objectives.

**Expected impacts:**

- A budget reduction cripples the “multinational” coordination component and breadth of the project, as activities in each country are either scaled down or components cancelled.
- The required reduction in the numbers of animals targeted for sampling and testing in all three countries (or termination of all activities at the country-level) dramatically reduces the likelihood of detecting *ebolaviruses* and our ability to deliver on GHSA goals, including identification of potential animal hosts to inform public communications seeking to mitigate risks for spillover and spillback.
- The reduction in targeted animal numbers and associated biological and ecological data would limit our ability and scope to explore the habitat and host species ranges necessary to prevent further outbreaks and importantly, our longitudinal sampling to examine differences in virus shedding over time. Without this scope, our ability to produce data that that may be generalized more broadly throughout the region is greatly impacted.
- Reduced insights obtained from this more limited dataset would curtail our public health utility to improve monitoring systems for ebolavirus and for focusing risk-mitigation strategies.
- In Sierra Leone, sampling activities would be concluded immediately with the proposed level of resources only being able to be focused on shipment and testing of samples collected to date (~10,000), and community outreach and engagement based on project findings. Laboratory training and capacity strengthening would be limited to basic laboratory biosafety and an introduction to testing methods with little continued mentorship. In-country staff would be reduced to a core team required for data management, sample shipment, and implementation of community engagement activities. Immediate staff layoffs anticipated.
- In Liberia and Guinea, efforts would focus on sampling a maximum of 5,000 wild animals (bats, rodents, and non-human primates) at a limited number of sites, decreasing the number of employed and trained in-country personnel. Behavioral risk activities would also cease. Capacity strengthening would be limited to essential biosafety and animal safety trainings required for sampling and sample shipment to collaborating labs in the US. Laboratory trainings would be refocused to include only laboratory biosafety and an introduction to testing methods.
- Finally, testing all samples for additional priority viral families (Influenza, Corona, Paramyxo and Flavi viruses) will not be completed and will potentially dramatically reduce our understanding of the pathogens contained in what amounts to the largest survey of animal virus biodiversity ever undertaken in West Africa if the PREDICT EHP is fully funded and implemented – surely a decrease in the benefit to the region and the American people.



**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Tue, 9 May 2017 19:26:33 +0200  
**Subject:** Re: [predict] Can we have a quick call today to talk about new money and which countries absolutely need it right away?  
**To:** Elizabeth Leasure <ealeasure@ucdavis.edu>  
**Cc:** David John Wolking <djwolking@ucdavis.edu>, Alisa Pereira Emerging Threats Division <apereira@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>

Hi Liz,

I just talked with Jonna about this (the call started on another topic, but we discussed this and other topics as well) so I think I've finally got it sorted out in my head.

Andrew

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On May 9, 2017, at 5:59 PM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Andrew. As noted in my previous response, we only became aware of those country caps very recently and are currently waiting for a final decision regarding the one-time reallocation of these caps; the requested reallocation is needed in order to better align the caps with actual and anticipated spending in each Ebola-funded country. As you may recall, we were very strategic when work planning and budgeting for these countries, as we knew the budgets would be tight given the number of countries being added to our portfolio and the activities planned in each country (whether full or targeted engagement). Redirecting the full \$12M currently obligated for Guinea, Liberia, and Sierra Leone to EHP would require scaling back or potentially cutting some countries completely. Therefore, we respectfully request careful consideration of our proposal for reallocation of the country-based caps, as well as the disbursement of the remaining \$7.9M in funds previously allocated to USAID in supplemental for EHP.

Thanks,

Liz

Elizabeth Leasure  
One Health Institute  
University of California, Davis  
530-754-9034 (office)

**REDACTED**

---

**From:** [predict-request@ucdavis.edu](mailto:predict-request@ucdavis.edu) [<mailto:predict-request@ucdavis.edu>] **On Behalf Of** Andrew Clements  
**Sent:** Friday, May 05, 2017 12:00 PM  
**To:** Elizabeth Leasure  
**Cc:** David John Wolking; Alisa Pereira Emerging Threats Division; Jonna Mazet; [predict@ucdavis.edu](mailto:predict@ucdavis.edu)  
**Subject:** Re: [predict] Can we have a quick call today to talk about new money and which countries absolutely need it right away?

Thanks, Liz. Your explanation of "core" is helpful.

I still have a question about the Ebola funding available for Guinea, Liberia, and Sierra Leone. The total country obligation caps for those 3 countries is \$12 million so, in theory, if you aren't using that for a regular Predict capacity building program in each of the 3 countries (because the missions said the countries weren't ready), then you have all of that funding available for EHP (so more than the \$5.7 M you mention). I realize it's possible/likely that I missed a discussion and/or decision somewhere along the way so please correct me if

I'm way off base.

Thanks!

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On May 5, 2017, at 7:05 PM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Andrew. The majority of the \$5.7M redirected to EHP from our "regular budget" is from the \$49.2M in Ebola funds received in 2015, but a small amount of expenditures (\$275K total) incurred on behalf of the EHP countries were billed to Core funds early on (primarily personnel time for planning that occurred in Year 1). We were using the term "regular budget" as a way to distinguish our existing budget (inclusive of Core funding and the \$49.2M in Ebola funds received) from the "supplemental budget" of \$11.9M for EHP. You appear to be equating "regular" with "Core," which is not how we are defining the term (hence the confusion). We have been using the Ebola money on-hand to fund activities in the EHP countries (as directed by USAID) pending receipt of the supplemental funds needed. We have admittedly not been spending with the country caps in mind, as we were only made aware of the caps recently. As you know, we're still waiting for a final decision on our request for a one-time reallocation of these caps.

Thanks,

Liz

Elizabeth Leasure

One Health Institute

University of California, Davis

530-754-9034 (office)

**REDACTED**

---

**From:** [predict-request@ucdavis.edu](mailto:predict-request@ucdavis.edu) [<mailto:predict-request@ucdavis.edu>] **On Behalf Of** Andrew Clements

**Sent:** Thursday, May 04, 2017 1:39 AM

**To:** David John Wolking

**Cc:** Alisa Pereira Emerging Threats Division; Jonna Mazet; [predict@ucdavis.edu](mailto:predict@ucdavis.edu)

**Subject:** Re: [predict] Can we have a quick call today to talk about new money and which countries absolutely need it right away?

Thanks, David, Liz, and Jonna. This helps a lot.

A follow-up question on EHP:

You mentioned that \$5.7M was originally allocated in your **regular** budget to implement the primary P2 strategy in Guinea, Liberia, and SL, but that it was redirected to EHP activities. There was a total of \$12M of Ebola funds obligated for activities in G, L, and SL (part of the overall 49.2M obligation) according to the country cap table that you previously sent. I was under the impression you were using some/all of those Ebola funds for EHP since the missions had signaled the countries were not ready to take on regular GHSA-like activities. The fact that Sierra Leone and Liberia are approaching their Ebola spending caps would suggest that is the case. Can you clarify since you didn't mention these Ebola funds in your response? Or maybe I mis-read what you wrote. If so, please set me straight.

Sorry this is such a pain. The two sources of funds, multiple decision-makers, and management changes have resulted in a prefect (fill in the word of your choice) storm.

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*



On May 3, 2017, at 10:25 PM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Hi Andrew,

Apologies for the delay, Jonna and Liz worked together to craft a few responses to your questions below. Please let us know if you still would like a call to discuss. Jonna is traveling all this week but back in the office on Monday.

Best,

David

1. What is the EHP total funding? In the document you attached, it says \$15M, but in conversations a while ago I thought I remember it being higher (like 17M or 19M). Can you provide a number that is the full cost and doesn't include any funding already provided?

The Ebola Host Project (EHP) was originally estimated at \$15+M but the proposal was actually submitted for \$11+M. The EHP document we provided in March 2016 indicated that PREDICT needed an additional \$11.916M to implement EHP, and that the \$5.7M originally allocated in our regular budget to implement our primary P2 strategy in Guinea, Liberia, and SL would be redirected to EHP activities. Combining both sources of funding for these countries yields a total of \$17.616M. The EHP figures provided recently (January and March 2017) continue to indicate that supplemental funding in the amount of \$11.9M is needed for the full scope and successful completion of all original EHP deliverables. After the recent \$4M obligation, EHP would still require **\$7.9M**.

2. Now that you know you're getting \$4M for EHP, does that change your calculations for the reallocations within the country caps? For instance, since the \$4M for EHP is under a regional cap, spending it in Liberia or SL won't count against the previously established caps for those countries. So would you still want to propose the new caps at 2M for Guinea, 3M for Liberia, and 3.6M for Sierra Leone? Or do you want to further increase the caps in non-EHP countries, e.g. DRC.

The estimated and requested change in the caps stand as most appropriate by our estimates. We understand the new \$4M to be regionally-capped, rather than country-capped, so we would not want to confuse those numbers by combining caps with new funds at this point. We set the new requested caps to primarily account for what we have or will soon have already expended in these countries this year, and then we will continue spending on the new \$4M, as well as the additional \$7.9M expected to be distributed to the project as proposed and approved by the Hill (as we understand the situation). Until that \$7.9M is received for EHP, we will be operating in a planned deficit as far as achieving the objectives, so we do not think it is prudent to reallocate any cap to another country (e.g. DRC).

3. Lastly, I think I heard someone say that the reason DRC hit the Ebola country cap is because of the YF work last year. Is that the case? If so, was the YF money from the Ebola account or the regular budget. I thought it was the latter and, if so, it would not count against the country cap since that only applies to the Ebola money. Which means you would have more room under the DRC country cap.

We were specifically instructed to use Ebola funds for the YF outbreak initially (including in person by August and Dennis in Bangkok), so did indeed use these funds. At that time, we were under the impression that an amendment would be processed from Ebola funds to replace funds expended from P-2's original budget (which contains both core and Ebola funds), but we used the Ebola portion as instructed pending reimbursement from an amendment. When management changes occurred in Washington, and as we moved across fiscal years without an amendment, we all discussed and decided to leave the expenditures as they were originally billed because we had the room in our outbreak line item.

On Wed, May 3, 2017 at 6:17 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

Hi David,

Following up on this email. When do you think it might be possible to have this conversation?

Thanks!

Andrew

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: [1-571-345-4253](tel:1-571-345-4253)*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Apr 27, 2017, at 8:18 PM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Hi Andrew,

Great questions and important ones that we would like to address clearly and succinctly. Can this wait until Liz Leasure is back from vacation next week? We would love to consult with her and Jonna to ensure we provide a thorough response and to avoid any misunderstandings.

Thanks,

David

On Thu, Apr 27, 2017 at 7:35 AM, Andrew Clements

<[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

Hi David,

I'm drafting an email to others in USAID to explain the EHP shortfall and I've hit a snag. Because of the many changes that have taken place



between the original EHP discussions and now, I want to make sure I'm 100% clear on the EHP budget requirements. I don't want to run the risk of causing confusion within USAID so wanted to consult with you first.

According to the table you previously sent regarding the Ebola country caps, PREDICT got 6M for Guinea, 3M for Liberia, and 3M for Sierra Leone for a total of 12M; however, you have proposed changing the caps to a total of 8.6 M (2M for Guinea, 3M for Liberia, and 3.6M for Sierra Leone). So with the new 4M (regional EHP), you would have at total of 16M (using the original country caps) or a total of 12.6M (using the proposed new country caps) for EHP. This assumes you can use all of the previous money for the 3 countries along with the new 4M for EHP. If you are not allowed to use the previous money for EHP, then you have only 4M. (I am seeking a clarification on whether for now you have 16M or 4M for EHP; we're still working on trying to get the shift in the country caps, but that will not happen right away).

So, questions for you:

1, What is the EHP total funding? In the document you attached, it says \$15M, but in conversations a while ago I thought I remember it being higher (like 17M or 19M). Can you provide a number that is the full cost and doesn't include any funding already provided?

2. Now that you know you're getting \$4M for EHP, does that change your calculations for the reallocations within the country caps? For instance, since the \$4M for EHP is under a regional cap, spending it in Liberia or SL won't count against the previously established caps for those countries. So would you still want to propose the new caps at 2M for Guinea, 3M for Liberia, and 3.6M for Sierra Leone? Or do you want to further increase the caps in non-EHP countries, e.g. DRC?

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Thanks!

Andrew

I'm confused about why Predict is saying 15 for the total cost if its 15+9? It doesn't help in negotiating with R&B that we keep giving different numbers. Can we/they just pick one and stick with it? Now I'm going to have to go back to Predict to clarify before sending this email.

On Wed, Apr 26, 2017 at 7:16 AM, David J Wolking

<[djwolving@ucdavis.edu](mailto:djwolving@ucdavis.edu)> wrote:

Hi Andrew,

Below are the anticipated dates for exceeding country caps in Sierra Leone (details provided in our previous email exchange), DRC, and Liberia.



Also, I've attached a briefing on the expected outcomes from reducing the operating budget for PREDICT's Ebola Host Project from the original \$15M to \$4M should this proposed incremental funding action impact release of remaining funds.

Best,

David

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- **Sierra Leone:** Anticipate exceeding country cap of \$3M by May 31, 2017 due to costs associated with sample testing (now underway)
- **DRC\*:** Expect to have exceeded the country cap of \$3.2M by April 2017
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*\*To be verified through Y3Q2 report, currently pending submission to USAID*

On Mon, Apr 24, 2017 at 10:45 AM, Andrew Clements  
<[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
Thanks

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for  
Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Apr 24, 2017, at 7:35 PM, David J Wolking  
<[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

Thanks Andrew, we can use: **REDACTED**

I'll be limited in interpreting Liz's projections without her consult but we can at least put a plan in motion.

David

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We're hoping to get a small incremental funding action  
done this week which would cover Liberia, SL, and  
hopefully also DRC although the latter may be expecting  
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Thanks!

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser  
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Hi Andrew,

I just connected with Jonna, she suggested  
you, Alisa, and I should carry on with a call if  
needed and I can keep her informed.

Would around 10:45 or 11AM PDT work for  
you and Alisa? Another time today?

Thanks,

David

On Mon, Apr 24, 2017 at 9:36 AM, David J  
Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:  
Hi Andrew,

Jonna is traveling in India and with Liz on  
vacation until next week I think we better  
make sure Jonna can join.

I'll text her and see what her availability is  
today, looks like it is mid-afternoon for her  
there.

David

On Mon, Apr 24, 2017 at 7:51 AM, Andrew  
Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
I want to make sure I get it right so we can  
push through an incremental funding action.

I think it's SL, Liberia, and DRC.

Does sometime between 9:00-11:00 PDT  
work?

Thanks!

Andrew

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser  
Emerging Threats Division/Office of  
Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

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You received this message because you are subscribed to the Google Groups "PREDICTMGT" group.

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To view this discussion on the web visit

<https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CA%2BZH9aA0HnCf6fsV9ZkeEG0kRawQCGWOZN4xUnZopZSih-iJw%40mail.gmail.com>.

--

Andrew Clements, Ph.D.

Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
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Mobile phone: [1-571-345-4253](tel:1-571-345-4253)

E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

*For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>*

**From:** Jonna Mazet <jkmazet@ucdavis.edu>  
**To:** Peter Daszak <daszak@ecohealthalliance.org>  
**CC:** William B. Karesh <karesh@ecohealthalliance.org>  
**Sent:** 5/31/2017 3:32:33 PM  
**Subject:** Re: FW: Please review: Monitoring Framework for Global Health Security - 4/18, Washington DC

Thanks for the info,  
J

On Wed, May 31, 2017 at 9:55 AM, Peter Daszak <[daszak@ecohealthalliance.org](mailto:daszak@ecohealthalliance.org)> wrote:

This doc (the monitoring framework) explains exactly what they're trying to do – an independent framework for assessment of risk and capacity.

Let's talk some more if you think we should get involved, but I think it's likely to be more of a fundraising/academic assessment exercise...

Cheers,

Peter

**Peter Daszak**

*President*

EcoHealth Alliance

460 West 34<sup>th</sup> Street – 17<sup>th</sup> Floor

New York, NY 10001

+1.212.380.4473 (direct)

+1.212.380.4465 (fax)

*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.*

**From:** Ogawa, V. Ayano [mailto:[VOgawa@nas.edu](mailto:VOgawa@nas.edu)]

**Sent:** Wednesday, April 12, 2017 4:58 PM

**Cc:** 'shana\_vansen@harvard.edu'; Mundaca-Shah, Ceci; Tran, Thu Anh

**Subject:** Please review: Monitoring Framework for Global Health Security - 4/18, Washington DC

**Importance:** High

Dear all,

Thank you for your participation in the upcoming meeting, “Developing Metrics to Monitor Global Health Security and Pandemic Preparedness,” co-hosted by the National Academy of Medicine (NAM) and Harvard Global Health Institute (HGHI). We are thrilled that you will join us next Tuesday in Washington, DC for this important meeting.

To ensure that the day is as productive as possible, we request that prior to the meeting you review the attached document, “Draft Monitoring Framework,” which includes specific indicators to monitor progress in global health security. To provide further context for our meeting, we also request that you review the list of resources attached. Each of these papers and reports served as important precursors to both our meeting and the Draft Monitoring Framework.

This Framework serves as the backbone to our meeting and is the primary document that we will review and discuss on April 18<sup>th</sup>. By no means is this document final; rather, it is best considered as a launching point for our discussion and technical review. Once all of our collective comments and revisions are incorporated, we will revise this document into a comprehensive roadmap to track progress in pandemic preparedness and global health security. This final roadmap will be shared with all participants and also published in a final NAM report after the meeting.

As you review the Draft Monitoring Framework, we encourage you to consider the following guiding questions:

- a) What are we missing?
- b) How useful are the listed metrics? To what extent are they capturing what should be captured?
- c) What are the significant barriers to collecting any of the mentioned data?
- d) To what extent are the solutions to the issues posed already identified or efforts underway? How might these efforts inform the metrics at hand?
- e) How do these areas align, or not, with our ability to assess and communicate risk?

We invite you at this time to provide any comments or suggested changes to the Draft Monitoring Framework prior to the meeting. Please feel free to populate with your suggestions any fields that remain empty, such as the Data Source/Feasibility column. Your comments can be shared in an email or in track changes in the document itself. We will not make any revisions to the document prior to the meeting, but we will review them carefully and will begin coalescing all of your comments in preparation for our revised document. Please send me all comments and questions at [VOgawa@nas.edu](mailto:VOgawa@nas.edu).

Thank you and we look forward to your participation in this important endeavor!

Best regards,

Ayano

**V. Ayano Ogawa, S.M.**

Associate Program Officer, Forum on Microbial Threats

Board on Global Health | Health and Medicine Division

The National Academies of Sciences, Engineering, and Medicine

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Washington, DC 20001

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<http://www.nationalacademies.org/hmd/>

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---

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Katherine Leasure <kaleasure@ucdavis.edu>  
**CC:** PREDICTMGT <predictmgt@usaid.gov>; Jonna Mazet  
<jkmazet@ucdavis.edu>; predict@ucdavis.edu <predict@ucdavis.edu>  
**Sent:** 6/5/2017 9:24:07 AM  
**Subject:** Re: Change to ITA Pending Concurrence - B. Bird to Sierra Leone

Thanks. I'm checking with Lisa Kramer to see if there are any issues with overnighting in Nairobi.

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Jun 5, 2017, at 6:18 PM, Katherine Leasure <[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)> wrote:

Hi Andrew. Due to the flight options available for transit from Dar es Salaam to Freetown, Brian Bird will need to overnight in Nairobi. We are submitting an updated ITA below to reflect this change. Please let me know if you have any questions. Thanks!

1. Bird (Kenya, Sierra Leone): \$2,500 airfare/\$410 (Nairobi), \$319 (Freetown) max daily per diems

Travel Request:

1. UC Davis would like to request travel approval for Dr. Brian Bird to travel from Dar es Salaam, Tanzania to Nairobi, Kenya from June 18-19, 2017, where he will overnight in transit to Sierra Leone. From Nairobi, Kenya he will travel to Freetown, Sierra Leone from June 19-24, 2017 for meetings with in-country staff, US Mission, and USAID-W delegation.

**Trip purpose:** Travel in Kenya is for transit purposes only. In Freetown, Dr. Bird will meet with in-country staff, US Mission, and USAID-W delegation to discuss PREDICT activities, communications, and management transition in Sierra Leone. *\*\*Dr. Bird will be departing from Tanzania due to previously scheduled travel; those activities are being supported on non-PREDICT funds.*

**Katherine Leasure**  
HR/Payroll/Financial Assistant  
One Health Institute  
University of California, Davis  
530-752-7526  
530-752-3318 FAX  
[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)

--

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To post to this group, send email to [predictmgt@usaid.gov](mailto:predictmgt@usaid.gov).  
To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/00ee01d2de17%242cb59f00%248620dd00%24%40ucdavis.edu>.

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>  
**Sent:** 6/22/2017 9:04:46 AM  
**Subject:** Re: SL update

Thanks. Sad state of affairs.

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Jun 22, 2017, at 6:03 PM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Exactly -- thanks & will do.  
I just sent a cease and desist to Metabiota,  
J

On Thu, Jun 22, 2017 at 8:57 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
Thanks. So sounds like our short-term strategy is to keep putting out accurate information to drown out the bad information.

Let us know if there is anything we can help with (especially with the Missions).

*Andrew P. Clements, Ph.D.  
Senior Scientific Adviser  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Jun 22, 2017, at 5:53 PM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Guinea is likely the only other one, but maybe ROC. We're trying to stay on top of things and have been communicating as much as we can. Unfortunately, we have noticed some subversive cross messaging, not in the absence of our own, but potentially at the same time, making the teams both confused and suspicious. Frantz has resigned, but still has a couple more weeks. We will ask Karen to shut down his communications. Thanks for the information and disappointing to hear,  
Jonna

On Thu, Jun 22, 2017 at 8:42 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
Hi Jonna,

I'm writing to give you some initial, early feedback on the SL trip from the USAID perspective.

Our visiting senior staff heard a lot about the early confusion with the transition that I believe came from Franz sharing inaccurate information and causing worry among the local staff and the Mission. So we're trying to play catch up at this point and saying that things could've gone better and that we and Predict are working to get things back on track. It sounds like Brian's visit is going a long way towards repairing things, but we'll have to say on top of things to make sure there are no gaps in communications and that the approvals get shifted to UCD as soon as possible so activities can re-start.

I completely understand the desire to wait until there is final, accurate information before sharing with



in-country staff and the Mission so there is minimal confusion, but the downside is that sometimes people start making things up which can cause more confusion. So I think we need to find an appropriate balance between speed and accuracy regarding information sharing, especially in SL but also in other countries.

Speaking of confusion, are there any other countries where we need to do damage control regarding Franz or others in MB? I believe he said some things to Zandra, but I think we're okay in CDI following a phone call with her a couple of weeks ago.

Andrew

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

**From:** Karen Saylors <ksaylors@metabiota.com>  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>; Eddy Rubin <erubin@metabiota.com>  
**CC:** Brian Bird <bhbird@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Corina Grigorescu Monagin <cgmonagin@ucdavis.edu>; Billy Karesh <karesh@ecohealthalliance.org>; Peter Daszak <daszak@ecohealthalliance.org>; predict@ucdavis.edu <predict@ucdavis.edu>  
**Sent:** 6/22/2017 9:18:13 AM  
**Subject:** Re: SL update

Hi Jonna.

I'm very sorry to hear this. We have been extremely mindful to communicate neutrally with all teams and partners throughout this process, so I am surprised that negative/chaotic communication has been happening. I am in Nanaimo now and will meet with Frantz immediately, and I also have a transition meeting with our team tomorrow and will explore this in-depth and correct any inappropriate messages that may have been heightening anxiety or creating confusion.

Brian, if there are specific things that you've heard back from the team during your trip, please share those with me so that I can address them more directly.

Thanks,  
Karen

**From:** <jonna.mazet@gmail.com> on behalf of Jonna Mazet <jkmazet@ucdavis.edu>  
**Date:** Thursday, June 22, 2017 at 9:01 AM  
**To:** Karen Saylors <ksaylors@metabiota.com>, Eddy Rubin <erubin@metabiota.com>  
**Cc:** Brian Bird <bhbird@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>, Corina Grigorescu Monagin <cgmonagin@ucdavis.edu>, Billy Karesh <karesh@ecohealthalliance.org>, Peter Daszak <daszak@ecohealthalliance.org>, "predict@ucdavis.edu" <predict@ucdavis.edu>  
**Subject:** Fwd: SL update

Dear Karen & Eddy,

We have been experiencing some confusing questions from the teams, indicating rumors and misinformation being shared with those in transition. While anxiety through this process is not unexpected, it appears that some of the messaging from Metabiota staff may be intended to cause chaos and more confusion. The most concerning outcome, of course, is heightened anxiety and concerns of the teams on the ground, which I believe we can agree, no one wants.

Unfortunately, now we are receiving messages (see below) from USAID that some of this confusion may directly be due to communications from Frantz (ongoing?). We would appreciate you shutting down his communications immediately, as they are doing damage, rather than helping. Karen, you mentioned that he is not in good communication with you, but unfortunately, the situation seems to be worse than that.

I would appreciate your immediate attention to this matter,  
Jonna

----- Forwarded message -----

**From:** Andrew Clements <aclements@usaid.gov>  
**Date:** Thu, Jun 22, 2017 at 8:42 AM  
**Subject:** SL update  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>  
**Cc:** Shana Gillette <sgillette@usaid.gov>, Alisa Pereira <apereira@usaid.gov>, David J Wolking <djwolking@ucdavis.edu>

Hi Jonna,

I'm writing to give you some initial, early feedback on the SL trip from the USAID perspective.

Our visiting senior staff heard a lot about the early confusion with the transition that I believe came from Franz sharing inaccurate information and causing worry among the local staff and the Mission. So we're trying to play catch up at this point and saying that things could've gone better and that we and Predict are working to get things back on track. It sounds like Brian's visit is going a long way towards repairing things, but we'll have to say on top of things to make sure there are no gaps in communications and that the approvals get shifted to UCD as soon as possible so activities can re-start.

I completely understand the desire to wait until there is final, accurate information before sharing with in-country staff and the Mission so there is minimal confusion, but the downside is that sometimes people start making things up which can cause more confusion. So I think we need to find an appropriate balance between speed and accuracy regarding information sharing, especially in SL but also in other countries.

Speaking of confusion, are there any other countries where we need to do damage control regarding Franz or others in MB? I believe he said some things to Zandra, but I think we're okay in CDI following a phone call with her a couple of weeks ago.

Andrew

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

**From:** Katherine Leasure <kaleasure@ucdavis.edu>  
**To:** 'PREDICTMGT' <predictmgt@usaid.gov>  
**CC:** 'Predict inbox' <predict@ucdavis.edu>; 'Jonna Mazet' <jkmazet@ucdavis.edu>  
**Sent:** 7/3/2017 3:14:03 PM  
**Subject:** Change to Approved ITA - E. Rubin to UK/Norway

Hi Andrew. Metabiota has submitted an amendment to the previously approved ITA for Eddy Rubin. Our apologies for the late notification; they just received the invitation from Dennis Carroll this morning to participate in an additional presentation in Norway. I have included below the amended ITA request for Dr. Rubin, as well as the previously approved ITA for reference. Please let me know if you have any questions. Thanks!

***AMENDED ITA:***

Metabiota would like to request travel approval for Dr. Eddy Rubin, Chief Scientific Officer to travel from San Francisco, California, USA to London England from July 9-12, 2017 to present the Global Virome Project to Welcome Trust. He will then fly from London, England to Oslo, Norway from July 12-14, 2017 to meet with Dr. Richard Hatchet, CEO of the Coalition for Epidemic Preparedness Innovations, to present the Global Virome Project. [\*\$4,100 airfare/\$427 (London), \$271 (Oslo) max daily per diems]

**Trip purpose:** England – Dr. Eddy Rubin will present the Global Virome Project to Welcome Trust. Dr. Rubin will be travelling with Dennis Carroll, Director, Global Health Security and Development Unit, (USAID). Norway – Dr. Eddy Rubin will present the Global Virome Project to Dr. Richard Hatchet, CEO of the Coalition for Epidemic Preparedness Innovations. Dr. Rubin will be travelling with Dennis Carroll, Director, Global Health Security and Development Unit, (USAID).

***PREVIOUSLY APPROVED ITA:***

Metabiota would like to request travel approval for Dr. Eddy Rubin, Chief Scientific Officer, to travel from San Francisco, California, USA to London, United Kingdom from July 9-12, 2017 to present the Global Virome Project to Welcome Trust. [\*\$2,350 airfare/\$427 (London) max daily per diem]

**Trip purpose:** Dr. Eddy Rubin will present the Global Virome Project to Welcome Trust. Dr. Rubin will be travelling with Dennis Carroll, Director, Global Health Security and Development Unit, (USAID).

*Katherine Leasure*

HR/Payroll/Financial Assistant  
One Health Institute  
University of California, Davis  
530-752-7526  
530-752-3318 FAX  
[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Dorothy Peprah <dpeprah@usaid.gov>; Brian Bird <bhbird@ucdavis.edu>  
**CC:** Jonna Mazet <jkmazet@ucdavis.edu>; David J Wolking <djwolking@ucdavis.edu>; Khadijat Mojidi <kmojidi@usaid.gov>; Chittenden, Kendra (Jakarta/Health) <kchittenden@usaid.gov>; Shana Gillette <sgillette@usaid.gov>; Pereira, Alisa (GH/HIDN) <apereira@usaid.gov>  
**Sent:** 7/14/2017 4:58:17 AM  
**Subject:** letter for PREDICT management change in Sierra Leone

Hi all,

Please see attached for the letter requesting assistance with the changing of the SLA for PREDICT.

Dorothy: please send to Dr. Kargbo and also share with Dr. Conteh and Prof.

Thanks!

Andrew

--

Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>



**USAID**  
FROM THE AMERICAN PEOPLE

14 July 2017

Dr. Brima Kargbo  
Chief Medical Officer  
Ministry of Health and Sanitation  
Freetown, Sierra Leone

Dear Dr. Kargbo,

I am writing in regard to the change of the implementing partner for the USAID PREDICT project in Sierra Leone and to request your assistance in updating the existing Service Level Agreement for PREDICT.

As you may know, the USAID PREDICT project is a global effort to identify emerging viral threats (such as Ebola) and reduce the risk of them causing outbreaks in human populations. The PREDICT project is a partnership which includes the University of California-Davis, EcoHealth Alliance, Metabiota, the Smithsonian Institution, and the Wildlife Conservation Society. The University of California-Davis leads this global project which is active in over 30 countries worldwide.

From 2016 to the present, Metabiota has been the PREDICT implementing partner in Sierra Leone under a sub-agreement from the University of California-Davis. PREDICT is now in the process of changing its implementing partner in Sierra Leone from Metabiota to the University of California-Davis. This change will have no bearing on the goals, objectives, and activities of PREDICT in Sierra Leone and the annual budget will also remain the same, subject to availability of funding.

Since we remain committed to building the capacity of Sierra Leoneans to prevent, detect and respond to emerging disease threats and outbreaks, USAID and PREDICT kindly request your support in changing the listed implementing partner from Metabiota to the University of California-Davis on the existing Service Level Agreement (SLA) for the PREDICT project in Sierra Leone.

Please let me know if you have any questions or require additional information. USAID looks forward to continuing to support the Government of Sierra Leone in improving the health of its people, animals and environment.

Sincerely,

Andrew Clements, Ph.D.  
PREDICT Global Project Manager  
United States Agency for International Development (USAID)  
Bureau for Global Health  
Washington, D.C.

CC: Yaya Conteh, Ministry of Health and Sanitation  
Khadijat Mojidi, USAID/Sierra Leone  
Dorothy Peprah, USAID/Sierra Leone  
Aiah Gbakima, PREDICT project, Sierra Leone  
Brian Bird, PREDICT project, University of California-Davis



**From:** Dorothy Peprah <dpeprah@usaid.gov>  
**Sent:** Fri, 14 Jul 2017 12:06:15 +0000  
**Subject:** Re: letter for PREDICT management change in Sierra Leone  
**To:** Andrew Clements <aclements@usaid.gov>  
**Cc:** Brian Bird <bhbird@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Khadijat Mojidi <kmojidi@usaid.gov>, "Chittenden, Kendra (Jakarta/Health)" <kchittenden@usaid.gov>, Shana Gillette <sgillette@usaid.gov>, "Pereira, Alisa (GH/HIDN)" <apereira@usaid.gov>

Thanks Andrew! Will send it along the chain.

Dorothy

On Fri, Jul 14, 2017 at 11:58 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

Hi all,

Please see attached for the letter requesting assistance with the changing of the SLA for PREDICT.

Dorothy: please send to Dr. Kargbo and also share with Dr. Conteh and Prof.

Thanks!

Andrew

--

Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>

--

Dorothy Peprah, *Ph.D, MPH*  
Global Health Security Agenda Advisor  
U.S. Agency for International Development (**USAID**)-Sierra Leone  
American Embassy South Ridge | Freetown, Sierra Leone

**PREDICT**

**From:** Elizabeth Leasure <ealeasure@ucdavis.edu>  
**To:** Andrew Clements <aclements@usaid.gov>  
**Cc:** David John Wolking <djwolking@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, Alisa Pereira <apereira@usaid.gov>, Shana Gillette <sgillette@usaid.gov>  
**Subject:** RE: Vehicle procurement in Jordan  
**Sent:** Mon, 17 Jul 2017 16:54:16 +0000

Fingers-crossed!

Elizabeth Leasure  
One Health Institute  
University of California, Davis  
530-754-9034 (office)

**REDACTED**

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**From:** Andrew Clements [mailto:aclements@usaid.gov]  
**Sent:** Monday, July 17, 2017 9:51 AM  
**To:** Elizabeth Leasure  
**Cc:** David John Wolking; Jonna Mazet; Alisa Pereira; Shana Gillette  
**Subject:** Re: Vehicle procurement in Jordan

Thanks. That's similar to what I heard from the Mission.

Sounds like we need a plan that takes into consideration the time it takes to get AO approval.

I will flag this as an issue for our team to raise with OAA so that hopefully during the next attempt we can get AO approval faster enough to make it work. Third time is the charm?

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Jul 17, 2017, at 6:36 PM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Andrew. We had AO approval to purchase a 2017 Chevy Silverado, but the delay in getting the approval resulted in the dealership selling the vehicle to another party. Apparently the vehicles that meet our manufacturing requirements are pretty rare (one or two on the lot at a time), so delays in obtaining approvals are an issue. The dealership then offered to sell us a similar GMC truck for the same price, which took another month for the AO to say we could swap the Chevy for the GMC (because the AO approval letter specifies the approved vehicle's make and model). Now, that GMC is no longer available, so the dealership only has a 2018 Chevy, which is more expensive and would likely require a new request. EHA is now exploring other vendors to see if they can get a GMC or Chevy for the same "not to exceed" price that was already approved by the AO (27,000 JOD which is about \$38,000 USD). As far as I know, EHA has not found a new supplier yet, so the saga of the Jordan vehicle is ongoing at this point.

Thanks,  
Liz

Elizabeth Leasure  
One Health Institute  
University of California, Davis  
530-754-9034 (office)

**REDACTED**

---

**From:** Andrew Clements [mailto:[aclements@usaid.gov](mailto:aclements@usaid.gov)]  
**Sent:** Monday, July 17, 2017 1:14 AM  
**To:** Elizabeth Leasure  
**Cc:** David John Wolking; Jonna Mazet; Alisa Pereira; Shana Gillette  
**Subject:** Vehicle procurement in Jordan

Hi Liz,

I got a question from the Jordan mission about a vehicle being procured under Predict. Can you tell me where this is in the process?

Thanks!

Andrew

*Andrew P. Clements, Ph.D.*

*Senior Scientific Adviser*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

**From:** David J Wolking <djwolking@ucdavis.edu>  
**Sent:** Tue, 8 Aug 2017 07:05:44 -0700  
**To:** James Desmond **REDACTED**  
**Cc:** Jon Epstein <epstein@ecohealthalliance.org>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Evelyn Luciano <luciano@ecohealthalliance.org>, Emma Lane <lane@ecohealthalliance.org>  
**Subject:** Re: [predict] PREDICT Liberia Workplan  
[PARTNER NAME FY18 GHSA Workplan.xlsx](#)

Hey Jim, Jon, and Emma,

Just a quick note that our GHSA "draft" plan was returned yesterday from USAID/W and Mandy (the lead for GHSA coordination). I'm working to refine it a bit from their feedback and once we have something we are comfortable with (including Andrew as AOR) we will start the heavy lifting to develop these for all Phase 1 countries. I'm sure Monica is expecting something more than the Liberia country brief, which often is too qualitative for field offices used to Gantt charts and workplans with all the bells and whistles (which the new GHSA template will address).

If this comes up at your meeting tomorrow I'd advise getting as much info as you can on what the Mission expects the GHSA workplan to cover (besides the obvious stuff listed in the attached template) so we can try and incorporate as much of their needs as we can (within reason). For process, I'll be largely pre-populating these at HQ but we will need to customize them for each country (especially the EHP countries) given the specific JEE scores and GHSA indicators. For now we are still working on our original timeline but I'll reach out if that changes.

Let me know if you have any questions or want to connect before your meeting.

Thanks,

David

On Tue, Aug 8, 2017 at 6:43 AM, James Desmond **REDACTED** wrote:

Hi Monica,

Please find a draft of the PREDICT Liberia workplan attached. We have submitted this to UC Davis as a component of the overall PREDICT workplan. Please review and get back to me with any concerns or critical changes as it relates to Liberia. I need to get back to the NY office with any comments or changes no later than August 14th.

Perhaps we could discuss this tomorrow at the One Health meeting or later this week at the lab meeting. Let me know what works best for you.

Regards,

Jim

**James S. Desmond, DVM, MS**  
**Email:** **REDACTED**  
**Phone:** [+254701859361](#) (Kenya)  
**Phone:** [+ 231776147565](#) (Liberia)  
**Phone:** [+16172752626](#) (USA)  
**Skype:** jim.desmond



Produced in Native Format



**From:** James Desmond [REDACTED]  
**Sent:** Tue, 8 Aug 2017 14:59:47 +0000  
**Cc:** Jon Epstein <epstein@ecohealthalliance.org>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Evelyn Luciano <luciano@ecohealthalliance.org>, Emma Lane <lane@ecohealthalliance.org>  
**To:** David J Wolking <djwolking@ucdavis.edu>  
**Subject:** Re: [predict] PREDICT Liberia Workplan

Thanks David,

I'll let you know how she responds and what her expectations are. I've made clear multiple times in the past the global nature of the project and that we need to follow UCD's and USAID/W's lead. I don't expect she'll have much of an issue, but we'll see. The fact that the Mission has input this time is an improvement from previously, so I think that will make things easier. I'll keep you updated.

Cheers,

Jim

**James S. Desmond, DVM, MS**  
**Email:** [REDACTED]  
**Phone:** +254701859361(Kenya)  
**Phone:** + 231776147565(Liberia)  
**Phone:** +16172752626 (USA)  
**Skype:** jim.desmond

On Aug 8, 2017, at 2:05 PM, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:

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Just a quick note that our GHSA "draft" plan was returned yesterday from USAID/W and Mandy (the lead for GHSA coordination). I'm working to refine it a bit from their feedback and once we have something we are comfortable with (including Andrew as AOR) we will start the heavy lifting to develop these for all Phase 1 countries. I'm sure Monica is expecting something more than the Liberia country brief, which often is too qualitative for field offices used to Gantt charts and workplans with all the bells and whistles (which the new GHSA template will address).

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David

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Hi Monica,

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Perhaps we could discuss this tomorrow at the One Health meeting or later this week at the lab meeting. Let me know what works best for you.

Regards,

Jim

**James S. Desmond, DVM, MS**

**Email:** **REDACTED**

**Phone:** [+254701859361](tel:+254701859361) (Kenya)

**Phone:** [+231776147565](tel:+231776147565) (Liberia)

**Phone:** [+16172752626](tel:+16172752626) (USA)

**Skype:** [jim.desmond](https://www.skype.com/people/jim.desmond)

<PARTNER NAME FY18 GHSA Workplan.xlsx>

**From:** Peter Daszak <daszak@ecohealthalliance.org>  
**To:** Kalpy Julien Coulibaly [REDACTED], [REDACTED]  
**Cc:** "William B. Karesh" <karesh@ecohealthalliance.org>, Alice Latinne <latinne@ecohealthalliance.org>, Evelyn Luciano <luciano@ecohealthalliance.org>, Alison Andre <andre@ecohealthalliance.org>, Leticia Gutierrez-Jimenez <gutierrez@ecohealthalliance.org>, "ksaylors@metabiota.com" <ksaylors@metabiota.com>, Molly Turner <turner@ecohealthalliance.org>, Amanda Andre <amanda.andre@ecohealthalliance.org>, Aleksei Chmura <chmura@ecohealthalliance.org>, Leilani Francisco <francisco@ecohealthalliance.org>, Emily Hagan <hagan@ecohealthalliance.org>, Ava Sullivan <sullivan@ecohealthalliance.org>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Zandra Andre <zandre@usaid.gov>  
**Sent:** Wed, 16 Aug 2017 12:56:23 +0000  
**Subject:** [predict] Update on PREDICT activities in Cote d'Ivoire in collaboration with IPCI

NOTE - email in French (above) and English (below):

Chers Pr Dosso et Dr Kalpy, (ainsi que le reste de l'équipe à qui vous pouvez faire circuler ce mail)

Je voulais vous faire savoir que je serai indisponible pour les 3 prochaines semaines mais j'ai travaillé avec l'équipe PREDICT pour identifier les différents points à régler afin que nous puissions avancer rapidement dans la transition de Metabiota à EcoHealth pour la gestion de PREDICT.

Voici les principaux points que nous avons identifiés nécessitant une action de notre part afin d'être réglés au plus vite :

- ❖ Nous ne voulons pas retarder le travail à la clinique de Bouaflé mais nous devons d'abord régler les détails de conformité avec l'IRB and les contrats avant de commencer toute activité. Leilani va vous aider à régler les problèmes d'IRB and va contacter Dr Kalpy pour vous faire savoir quels sont ces problèmes mais ils incluront certainement les quiz qui devront être entièrement complétés avant que les interviews et échantillonnage puissent commencer.
- ❖ En ce qui concerne les contrats, nous devons vérifier en détails les budgets et être certains que les chiffres sont en accord avec les règlements de PREDICT et EcoHealth. Evelyn, Molly et Ava vont travailler avec vous sur ces problèmes.
- ❖ Je voulais également vous faire savoir que nous travaillons à transférer rapidement le contrat de Metabiota à EcoHealth. Cela nécessitera l'accord de l'USAID aux États-Unis et pourra prendre un certain temps. Si ce délai implique que les salaires et autres paiements importants soient retardés, nous nous assurerons de trouver un mécanisme de paiement pour éviter tout retard.
- ❖ Comme discuté à Abidjan, nous sommes très heureux que Dr Kalpy puisse continuer son travail en tant que country Coordinateur pour PREDICT en Côte d'Ivoire (à 20-30% de son temps). En plus, nous allons travailler avec vous afin d'identifier une personne soutien du country Coordinateur qui parle français et anglais et qui sera capable de travailler de manière efficace avec tous les partenaires et le personnel d'EcoHealth.
- ❖ Nous sommes conscients que la clinique de Bouaflé aura besoin de bonbonnes d'azote liquide et de dry shippers. Nous allons travailler avec vous pour mettre cela en place.
- ❖ Afin que vous soyez tous au courant, je voulais également vous dire que nous voudrions trouver un moyen de mettre en place un contrat directement avec LANADA afin que nous puissions gérer l'aspect administratif directement avec eux et diminuer la charge de travail de Dr Kalpy. Cela dit, la gestion du projet au sein du pays sera fortement influencée par le country Coordinateur et nous espérons que Dr Kalpy continuera à travailler dur afin d'assurer que le travail mené par LANADA soit bien coordonné avec le travail mené par l'IPCI.
- ❖ Il se pourrait qu'une partie de l'équipement destiné à LANADA ait été envoyé à l'IPCI (mais cela reste à confirmer). Nous allons travailler avec vous pour s'assurer que tout l'équipement et les consommables destinés à LANADA soient identifiés et envoyés à la bonne destination.
- ❖ Nous devons nous assurer que les modules de formation pour le laboratoire soient aussi complétés par tout le personnel.

Enfin, nous espérons réellement que nous pourrions avancer rapidement et sans accroc pour les contrats mais étant donné les problèmes listés ci-dessus qui doivent être résolus, j'espère que vous comprendrez tous qu'il puisse y avoir certains légers retards. J'espère que nous serons tous capables de travailler ensemble pour résoudre rapidement toutes ces complications administratives et continuer l'excellent travail que nous avons commencé.

Merci encore pour votre hospitalité durant notre visite et je me réjouis de travailler avec vous tous.

Peter

UCDUSR0008654



-----  
Dear Prof Dosso and Dr. Kalpy, (and please circulate to the rest of the team)

I just wanted to let you all know that I'll be out of the office for 3 weeks, but have worked with the rest of the PREDICT team to identify issues that they will be contacting you about so that we can move rapidly with the transition from management by Metabiota to EHA.

Here are the main items we have identified that we need to check on and fix. After each one, I've listed the person who will be in contact primarily with Dr. Kalpy to help work through them:

- ❖ We don't want to delay the work at the Bouaflé clinic, but need to sort out details on IRB compliance and contracting before we begin. Leilani will help you deal with the IRB issues, and she will follow up with Dr. Kalpy to let you know what they are, but they will likely include some question and answer training modules that will need to be taken before survey and sampling work can begin.
- ❖ On the contracting issue, we need to check the budgets in detail and make sure the numbers are compliant with EHA and PREDICT guidelines. Evelyn, Molly and Ava will work with you on those issues.
- ❖ So that you are aware, we are working on rapidly moving the contract over from Metabiota to EHA. This requires approval at USAID HQ in the USA and may take some time. If the delays mean that people's salaries or other important payments would not go through, we will work to ensure there is a mechanism for payment.
- ❖ As we discussed in Abidjan, we are pleased that Dr. Kalpy will be able to continue as the Country coordinator for PREDICT in CIV (at a proposed 20-30% share of time, which we will work out). In addition, we will work with you to identify a support person for the country coordinator who speaks French and English, and will be able to work effectively with all partners, and EHA staff.
- ❖ We realize that the Bouaflé clinic will need Liquid Nitrogen dewars and dry shippers. We will work with you to set this up.
- ❖ So that you are all aware, we are aiming to work out a way to contract directly with LANADA, so that we can manage the administrative side of this directly and reduce the burden on Dr. Kalpy. That said, project management in-country will be strongly influenced by the country coordinator, and we hope that Dr. Kalpy will continue to work hard on ensuring that the work conducted by LANADA is coordinated well with the work conducted by IPCI
- ❖ It may be (we aren't sure yet) that some equipment originally designated for the LANADA labs has been shipped to IPCI. We will work with you to ensure that all of the equipment and consumables originally planned for LANADA are tracked and sent to the right destination.
- ❖ We will need to check that the appropriate PREDICT lab training modules have also been completed for all staff.

On a final note, we really hope that we can move rapidly and without a break in contracting, but given the things listed above that we need to get through, I hope you'll all understand if there are some slight delays. I hope we'll all be able to work together to rapidly deal with these admin issues and continue the excellent work you've all begun.

Thank you again for your hospitality during our visit and I look forward to working with you all!

Cheers,

Peter

**Peter Daszak**  
*President*

EcoHealth Alliance  
460 West 34<sup>th</sup> Street – 17<sup>th</sup> Floor  
New York, NY 10001

UCDUSR0008655

Tel. +1 212-380-4473

[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that prevent pandemics and promote conservation.*

-----Original Message-----

From: Peter Daszak

Sent: Sunday, July 23, 2017 11:37 PM

To: 'Zandra Andre'; 'Kalpy Julien Coulibaly'; **REDACTED**; 'N'guessan Regina Koko'

Cc: William B. Karesh; Alice Latinne; Evelyn Luciano; Alison Andre; Leticia Gutierrez-Jimenez; 'ksaylors@metabiota.com'; Molly Turner; Amanda Andre; Aleksei Chmura; Leilani Francisco; Emily Hagan; Ava Sullivan

Subject: Thank you for your hospitality in Cote d'Ivoire

Importance: High

Dear Zandra, Kalpy, Prof Dosso and colleagues,

I just wanted to say thank you for your hospitality during our visit to Abidjan and Bouafle. I really appreciate all of your efforts to work with us in setting up meetings, and in the successful launch of the work at the clinic in Bouafle.

I'm now back in the USA after visiting South Korea, right after I left Cote d'Ivoire. I haven't had chance yet to meet up with the rest of the team, but I will be back in the office Monday to do that. I'll also be talking with the rest of the PREDICT leadership to go through all issues we discussed, and continue moving things forward

In the meantime, please continue to email me, cc'ing the people above, and I'll begin going through emails once I'm back in the office.

Thank you all again, and I look forward to working with all of you in the next few weeks and months to make sure we the PREDICT work in Cote d'Ivoire is a huge success!

Cheers,

Peter

Peter Daszak  
President

EcoHealth Alliance  
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New York, NY 10001

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-----Original Message-----

From: Peter Daszak

Sent: Thursday, July 6, 2017 5:20 PM

To: 'Zandra Andre'; Kalpy Julien Coulibaly; **REDACTED**; William B. Karesh; Alice Latinne; Evelyn Luciano; Alison Andre; Leticia Gutierrez-Jimenez; ksaylors@metabiota.com; Molly Turner; Amanda Andre; Aleksei Chmura; Leilani Francisco; Emily Hagan;

UCDUSR0008656



Ava Sullivan  
Cc: N'guessan Regina Koko  
Subject: Out brief

Zandra - are you available to meet on Friday 14th, sometime in the afternoon for an outbrief?

We're hoping to meet with FAO and P&R on Friday morning/lunch and it would be great to let you know how everything is going and get your view on things before we leave - we're all on the evening flight out of Abidjan I think around 10.30pm.

Cheers,

Peter

Peter Daszak  
President

EcoHealth Alliance  
460 West 34th Street – 17th Floor  
New York, NY 10001

Tel. +1 212-380-4473  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that prevent pandemics and promote conservation.

-----Original Message-----

From: Zandra Andre [mailto:[zandre@usaid.gov](mailto:zandre@usaid.gov)]  
Sent: Thursday, July 6, 2017 7:44 AM  
To: Kalpy Julien Coulibaly; **REDACTED**; Peter Daszak; William B. Karesh; Alice Latinne; Evelyn Luciano; Alison Andre; Leticia Gutierrez-Jimenez; [ksaylors@metabiota.com](mailto:ksaylors@metabiota.com); Molly Turner; Amanda Andre; Aleksei Chmura; Leilani Francisco; Emily Hagan; Ava Sullivan  
Cc: N'guessan Regina Koko  
Subject: Re: Contact information for partners

Also, please plan an out brief at the Mission.

Zandra  
Sent from my iPhone

> On Jul 6, 2017, at 10:48, Zandra Andre <[zandre@usaid.gov](mailto:zandre@usaid.gov)> wrote:

>

> Dear Team EHA,

>

> Sorry to email literally all of the EHA email addresses that I have

> but I wasn't sure who should and shouldn't be included.

>

> I just wanted to make sure the PREDICT team coming to Côte d'Ivoire

> had contact information for partners who specifically requested

> meetings with the visiting team. I'm sure Dr. Kalpy has everyone's

> email addresses from previous emails that I've sent to the all the

> partners but to make it easier to contact I'm sending this email.  
>  
> Please feel free to contact FAO and P&R to set up meetings for next  
> week. (Dr Boka is a part of FAO team but it is not apparent from his  
> email address.)  
>  
> Thanks,  
> Zandra  
> Sent from my iPhone

**From:** Elizabeth Leasure <ealeasure@ucdavis.edu>  
**To:** David John Wolking <djwolking@UCDAVIS.EDU>;Jonna Mazet <jkmazet@UCDAVIS.EDU>  
**Sent:** 8/17/2017 7:54:20 AM  
**Subject:** Re: [predict] Re: Ceiling Increase

Nah, I can handle it. Thanks though.

Get [Outlook for iOS](#)

---

**From:** David J Wolking  
**Sent:** Thursday, August 17, 2017 7:36:21 AM  
**To:** Elizabeth Leasure; Jonna Mazet  
**Subject:** Re: [predict] Re: Ceiling Increase

Liz,

Do you want me to join for moral support? I can free up my schedule if that would be helpful.

David

On Thu, Aug 17, 2017 at 7:23 AM, Ryland Marbray <[rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)> wrote:  
Ok great, I attempt to set up a conference call for 1:30 est, 10:30 pst.

On Thu, Aug 17, 2017 at 9:50 AM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:  
Yes, 1:30 pm EDT (10:30 am PDT) today works for me.

Get [Outlook for iOS](#)

---

**From:** Ryland Marbray <[rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)>  
**Sent:** Thursday, August 17, 2017 6:26:35 AM  
**To:** Andrew Clements  
**Cc:** Elizabeth Leasure; Jonna Mazet; [predict@ucdavis.edu](mailto:predict@ucdavis.edu)  
**Subject:** Re: Ceiling Increase

If Elizabeth is available that would be great!

On Thu, Aug 17, 2017 at 9:12 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
Do we have a time for today? 1:30 PM EDT would be good for for me.

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Aug 16, 2017, at 2:25 PM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Ryland. Would today at 1:30 pm work, or is tomorrow morning better?

Elizabeth Leasure

One Health Institute

University of California, Davis

530-754-9034 (office)

530-304-1403 (cell)

**From:** Ryland Marbray [<mailto:rmarbray@usaid.gov>]

**Sent:** Wednesday, August 16, 2017 11:01 AM

**To:** Elizabeth Leasure

**Cc:** Andrew Clements

**Subject:** Ceiling Increase

Hi Elizabeth,

I would like to speak with you today or tomorrow concerning the ceiling increase request concerning PREDICT 2. When would be the best time for you?

**USAID**

(202) 567-5328 [rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)

**USAID**

(202) 567-5328 [rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)

--

Ryland Marbray  
Agreements/Contracting Officer

**USAID** Office of Acquisition & Assistance  
M/OAA/E3  
1300 Pennsylvania Ave., NW,

UCDUSR0008660

Rm. 567-B, SA-44  
Washington, DC 20523

Phone: (202) 567-5328|[rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)



**From:** Yung-Ting Bonnenfant <ybonnenfant@usaid.gov>  
**Sent:** Mon, 21 Aug 2017 08:51:07 +0300  
**Subject:** Ethiopia GHSA biweekly update  
**To:** Lisa Kramer <lkramer@usaid.gov>, Woutrina A Smith <wasmith@ucdavis.edu>, hellen Amuguni <Janetrix.Amuguni@tufts.edu>, Innocent Rwego [REDACTED], Diafuka Saila-Ngita <diafuka.saila\_ngita@tufts.edu>, Serge Nzietchueng [REDACTED] david.mutonga@thepalladiumgroup.com, Katey Pelican <pelicank@umn.edu>, Nigatu kebede [REDACTED] scott newman [REDACTED] Lindsay Parish <lparish@usaid.gov>, Andrea Long-Wagar <alongwagar@usaid.gov>, Alisa Pereira <apereira@usaid.gov>, Ashna Kibria <akibria@usaid.gov>, Andrew Clements <aclements@usaid.gov>, Shana Gillette <sgillette@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, Margaret Morehouse <mmorehouse@trg-inc.com> "Tzipori, Saul" <saul.tzipori@tufts.edu>, Samuel Muriuki [REDACTED] "Makonnen, Yilma (FAORNE)" [REDACTED] "Abebe Wolde (P&R)" [REDACTED] Marilyn Crane <mcrane@usaid.gov>, Innocent Rwego <irwego@umn.edu>, Andrew Kitua <Kitua@dai.com>, Thierry Nyatanyi <nthierry@umn.edu>, Ricardo Echalar <rechalar@usaid.gov>, Jeff Bender <bende002@umn.edu>, [REDACTED] Amanda Paust <apaust@usaid.gov>, Jack Mortenson <jmortenson@usaid.gov>, Yirgalem Gebremeskel <ygebremeskel@usaid.gov>, "Tewolde, Nega (FAOET)" [REDACTED]  
[GHSA Ethiopia BiWeekly Updates Template.docx](#)

Dear Ethiopia GHSA Colleagues,  
It's time for the biweekly update on GHSA activities in Ethiopia. This update should cover all activities from August 14-25. Please use the attached Word document for your updates, and please send in all updates by Wednesday, August 23 COB. Thanks.

Best wishes,

Yung-Ting

--  
**Yung-Ting Bonnenfant, PhD, MPH**  
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

**REDACTED**

[www.usaid.gov/ethiopia](http://www.usaid.gov/ethiopia) | [ybonnenfant@usaid.gov](mailto:ybonnenfant@usaid.gov) | @USAIDEthiopia

### Ethiopia GHSA Implementation Bi-Weekly Updates

#### USAID Implementing Partners

If there is no change from the previous update, please indicate this by stating NSTR (nothing significant to report).

Date Submitted	
Project	

I. **Highlighted Updates:** Please list (maximum five) major updates on activity implementation in Ethiopia.

*FORMAT: Insert 1 sentence summary of update (bold). Insert 1-3 sentences of additional information.*

1.

II. **Coordination:** Please describe any activities in Ethiopia that may benefit from coordination with other GHSA implementing partners or USG agencies (e.g. CDC, USDA, DTRA, etc.) and how.

--

III. **Challenges:** Please describe any significant challenges related to planning or implementation of GHSA activities in Ethiopia.

--

IV. **Upcoming GHSA related TDYs:** Please provide the information requested below on all GHSA-related TDYs to Ethiopia. Insert additional rows as necessary.

Traveler(s)	Location (areas to be visited)	Dates	Trip Objectives	Trip Impact (including deliverables) <i>This should also specify if/how this TDY will build host nation capacity and contributes to overarching GHS objectives</i>

**From:** Elizabeth Leasure <ealeasure@ucdavis.edu>  
**To:** Andrew Clements <aclements@usaid.gov>  
**Cc:** David John Wolking <djwolking@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, Karen L Wood <klwood@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Cara Chrisman <cchrisman@usaid.gov>  
**Subject:** RE: Construction, refurbishment, rehabilitation + Uganda Ministerial  
**Sent:** Wed, 27 Sep 2017 21:17:40 +0000

Hi Andrew. You are correct. The answer is no.

Elizabeth Leasure  
One Health Institute  
University of California, Davis  
530-754-9034 (office)  
**REDACTED** (cell)

**From:** David J Wolking [mailto:djwolking@ucdavis.edu]  
**Sent:** Wednesday, September 27, 2017 1:56 PM  
**To:** Elizabeth Leasure  
**Subject:** Fwd: Construction, refurbishment, rehabilitation + Uganda Ministerial

----- Forwarded message -----

From: **Andrew Clements** <[aclements@usaid.gov](mailto:aclements@usaid.gov)>  
Date: Tue, Sep 26, 2017 at 11:52 PM  
Subject: Fwd: Construction, refurbishment, rehabilitation + Uganda Ministerial  
To: David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>  
Cc: Cara Chrisman <[cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)>

Hi Jonna and David,

We've been asked if any of our projects have done "construction, refurbishment, or rehabilitation" (see definition below) to host country facilities.

I suspect the answer is 'no' for Predict but wanted to confirm with you.

Thanks!

Andrew  
*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: [1-571-345-4253](tel:1-571-345-4253)*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*  
Begin forwarded message:

**From:** Cara Chrisman <[cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)>  
**Date:** September 26, 2017 at 11:09:33 PM GMT+2  
**To:** Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>  
**Cc:** Alisa Pereira <[apereira@usaid.gov](mailto:apereira@usaid.gov)>, Shana Gillette <[sgillette@usaid.gov](mailto:sgillette@usaid.gov)>, Kendra Chittenden <[kchittenden@usaid.gov](mailto:kchittenden@usaid.gov)>, Amalhin Shek <[ashek@usaid.gov](mailto:ashek@usaid.gov)>  
**Subject: Re: Construction, refurbishment, rehabilitation + Uganda Ministerial**

Actually, I'm guessing they would use some part of this [ADS definition](#), although it's not clear to me how exactly refurbishment would be defined within this:

“Improvements, renovation, alteration and refurbishment” for purposes of this policy includes any betterment

or change to an existing property to allow its continued or more efficient use within its designed purpose (renovation), or for the use of a different purpose or function (alteration). Improvements also include improvements to or upgrading of primary mechanical, electrical, or other building systems. "Improvements, renovation, alteration and refurbishment" does NOT include non-structural, cosmetic work, including painting, floor covering, wall coverings, window replacement that does not include changing the size of the window opening, replacement of plumbing or conduits that does not affect structural elements, and non-load bearing walls or fixtures (e.g., shelves, signs, lighting, etc.).

Cara J. Chrisman, PhD  
Senior Infectious Diseases Technical Advisor  
Emerging Threats Division  
Office of Infectious Disease  
Bureau for Global Health  
U.S. Agency for International Development (USAID)

Desk: [\(202\) 712-1161](tel:(202)712-1161)  
Cell: **REDACTED**  
E-mail: [cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)

On Tue, Sep 26, 2017 at 5:05 PM, Cara Chrisman <[cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)> wrote:  
Thanks, Andrew. I'll note that and cc you in my response.

Cara J. Chrisman, PhD  
Senior Infectious Diseases Technical Advisor  
Emerging Threats Division  
Office of Infectious Disease  
Bureau for Global Health  
U.S. Agency for International Development (USAID)

Desk: [\(202\) 712-1161](tel:(202)712-1161)  
Cell: **REDACTED**  
E-mail: [cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)

On Tue, Sep 26, 2017 at 4:41 PM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
I don't think they have. However, it would help to have a definition of what is meant by refurbishment.

On Tue, Sep 26, 2017 at 7:29 PM, Cara Chrisman <[cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)> wrote:  
Hi Andrew & All,

Andrew, for background, in Senior Staff yesterday, they noted that during SMT there was a question around which projects may be doing construction, refurbishment, and/or rehabilitation.



**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Katherine Leasure <kaleasure@ucdavis.edu>  
**CC:** PREDICTMGT <predictmgt@usaid.gov>; Jonna Mazet <jkmazet@ucdavis.edu>; Predict inbox <predict@ucdavis.edu>  
**Sent:** 9/28/2017 6:38:35 AM  
**Subject:** Re: Change to Approved ITA - Hagan/Francisco to Indonesia Postponed

Thanks. I'll let the Mission know.

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Sep 28, 2017, at 12:49 AM, Katherine Leasure <[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)> wrote:

Hi Andrew. The previously approved travel for Emily Hagan and Leilani Francisco to Indonesia has been postponed; Alice Latinne's travel is unchanged, and will proceed as planned (ITA below for reference). Emily and Leilani will likely be rescheduled for November; a new ITA will be submitted once the dates and details have been confirmed. Please let me know if you have any questions. Thanks!

EcoHealth Alliance would like to request travel approval for Dr. Leilani Francisco, Dr. Alice Latinne, and Ms. Emily Hagan to travel from New York City, NY, USA to Jakarta Indonesia from October 11-21, 2017 for Behavioral Risk Training and implementation, coordination, and planning.

**Trip purpose:** Dr. Francisco, Dr. Latinne and the EHA team will be meeting with Indonesia PREDICT implementing partners to discuss human sampling coordination and behavioral research. This will also serve as a time for the Dr. Francisco, the Behavioral Risk global lead, and Emily Hagan, to visit with the Eijkman team members and behavioral risk qualitative researchers in Indonesia for a training after the recent approval of the Indonesia IRB. This will be a refresher training for qualitative data collection methods and a training for community and hospital surveillance data collection. The team will also be traveling to North Sulawesi for scoping visits and meetings with the hospital partners who will be implementing hospitals syndromic surveillance.

**Katherine Leasure**  
HR/Payroll/Financial Assistant  
One Health Institute  
University of California, Davis  
530-752-7526  
530-752-3318 FAX  
[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)

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To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/03a601d337e2%24cef16720%246cd43560%24%40ucdavis.edu>.



**From:** David J Wolking <djwolking@ucdavis.edu>  
**Sent:** Tue, 3 Oct 2017 08:26:40 -0700  
**Subject:** Re: Invitation: SMT call @ Tue Oct 3, 2017 10am - 11am (PDT) (PREDICTMGT)  
**To:** Andrew Clements <aclements@usaid.gov>  
**Cc:** "Prof. Jonna Mazet" <jkmazet@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>, William Karesh <karesh@ecohealthalliance.org>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Amanda Andre <amanda.andre@ecohealthalliance.org>, Alison Andre <andre@ecohealthalliance.org>, Molly Turner <turner@ecohealthalliance.org>, Evelyn Luciano <luciano@ecohealthalliance.org>, Ava Sullivan <sullivan@ecohealthalliance.org>, Leilani Franciso <francisco@ecohealthalliance.org>

Noted thanks Andrew. I'm pretty sure Billy and Peter will be on the call today.  
David

On Tue, Oct 3, 2017 at 8:21 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

On today's call, I'd like to get an update on the management transition in Côte d'Ivoire. Thanks!

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: [1-571-345-4253](tel:1-571-345-4253)*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Oct 2, 2017, at 6:29 PM, David J Wolking <**REDACTED**> wrote:

[more details »](#)

**SMT call**

When	Tue Oct 3, 2017 10am – 11am Pacific Time
Where	<b>REDACTED</b> Access code <b>REDACTED</b> International Dial-in number: <b>REDACTED</b> (toll charges apply) ( <a href="#">map</a> )
Calendar	PREDICTMGT
Who	<ul style="list-style-type: none"><li>• Jonna Mazet - organizer</li><li>• David J Wolking</li><li>• <a href="mailto:erubin@metabiota.com">erubin@metabiota.com</a></li><li>• <a href="mailto:apereira@usaid.gov">apereira@usaid.gov</a></li><li>• <a href="mailto:ckjohnson@ucdavis.edu">ckjohnson@ucdavis.edu</a></li><li>• <a href="mailto:aclements@usaid.gov">aclements@usaid.gov</a></li><li>• <a href="mailto:karesh@ecohealthalliance.org">karesh@ecohealthalliance.org</a></li><li>• Peter Daszak</li><li>• Elizabeth Leasure</li><li>• <a href="mailto:cchrismen@usaid.gov">cchrismen@usaid.gov</a></li><li>• <a href="mailto:sgillette@usaid.gov">sgillette@usaid.gov</a></li><li>• <a href="mailto:klwood@ucdavis.edu">klwood@ucdavis.edu</a></li><li>• <a href="mailto:amanda.andre@ecohealthalliance.org">amanda.andre@ecohealthalliance.org</a></li><li>• PREDICTMGT</li></ul>

- [luciano@ecohealthalliance.org](mailto:luciano@ecohealthalliance.org)
- Ava Sullivan
- [andre@ecohealthalliance.org](mailto:andre@ecohealthalliance.org)
- [francisco@ecohealthalliance.org](mailto:francisco@ecohealthalliance.org)
- [ksaylors@metabiota.com](mailto:ksaylors@metabiota.com)
- [turner@ecohealthalliance.org](mailto:turner@ecohealthalliance.org)

Reoccurring bi-weekly on Tuesday's from 10-11am PDT / 1-2pm EDT

Going? [Yes](#) - [Maybe](#) - [No](#) [more options »](#)

Invitation from [Google Calendar](#)

You are receiving this courtesy email at the account [predictmgt@usaid.gov](mailto:predictmgt@usaid.gov) because you are an attendee of this event.

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<https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/001a114928401bb8c5055a92d0db%40google.com>.

<mime-attachment.ics>

<invite.ics>

**From:** Alison Andre <[andre@ecohealthalliance.org](mailto:andre@ecohealthalliance.org)>  
**To:** Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)>  
**CC:** Peter Daszak <[daszak@ecohealthalliance.org](mailto:daszak@ecohealthalliance.org)>; Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>  
**Sent:** 10/25/2017 9:47:10 AM  
**Subject:** Re: Jonna-Peter Quarterly Call

Hi Brooke,

Thanks for confirming! Peter will be out of the office at the time so he will plan on calling Jonna at 1 (530) 754-9035.

Thanks,  
Alison

**From:** Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)>  
**Date:** Monday, October 23, 2017 at 5:22 PM  
**To:** Alison Andre <[andre@ecohealthalliance.org](mailto:andre@ecohealthalliance.org)>  
**Cc:** Peter Daszak <[daszak@ecohealthalliance.org](mailto:daszak@ecohealthalliance.org)>, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>  
**Subject:** Jonna-Peter Quarterly Call

Hi Alison!

I'm writing to confirm Jonna & Peter's quarterly call for **Wed. 10/25 at 11:00 PDT / 2:00 EST.**

Thanks!

Brooke Genovese  
PREDICT Project Support  
Executive Analyst  
One Health Institute  
School of Veterinary Medicine  
Tel: 530-752-6459  
[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)

**From:** William B. Karesh <karesh@ecohealthalliance.org>  
**To:** Tracey Goldstein <tgoldstein@ucdavis.edu>  
**CC:** Jonna Mazet <jkmazet@ucdavis.edu>; predict@ucdavis.edu" <PREDICT@ucdavis.edu>  
**Sent:** 11/2/2017 11:34:23 AM  
**Subject:** Re: Data meeting

Excellent. Thanks Tracey. That makes great sense and Jonna's been suggesting the Saskatoon opportunity.

BK

**William B. Karesh, D.V.M**

*Executive Vice President for Health and Policy*

EcoHealth Alliance  
460 West 34th Street - 17th Floor  
New York, NY 10001 USA

+1.212.380.4463 (direct)  
+1.212.380.4465 (fax)  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

President, OIE Working Group on Wildlife

Co-chair, IUCN Species Survival Commission - Wildlife Health Specialist Group

EPT Partners Liaison, USAID Emerging Pandemic Threats - PREDICT-2 Program

***EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.***

On Nov 1, 2017, at 9:34 PM, Tracey Goldstein <[tgoldstein@ucdavis.edu](mailto:tgoldstein@ucdavis.edu)> wrote:

Hello Jonna and Billy,

Filip and I just chatted about the data meeting, data availability and timing.

In terms of lab data, testing is ongoing but the livestock results are not yet in EIDITH so it's hard to know how much testing has been done, and as you know, wildlife and human testing is just ramping up. So in our opinion, a data meeting at PMAC is a bit premature.

We would like to suggest tagging on the data meeting to the One Health Congress meeting in Saskatoon in June. That meeting is a good for in country people to come to (if we want to include them in a data meeting) and also by June we should be in better shape data-wise for a discussion. Filip is going to suggest the same to Peter and Subhash.

Let me know what you think, T

--

(530) 752-0412  
(530) 752-3318  
[tgoldstein@ucdavis.edu](mailto:tgoldstein@ucdavis.edu)





**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Fri, 15 Dec 2017 10:45:55 +0100  
**Subject:** Re: USAID's regional activities on "Pandemic Health Threats" in Egypt  
**To:** "William B. Karesh" <karesh@ecohealthalliance.org>  
**Cc:** Patrick Dawson <dawson@ecohealthalliance.org>, David Wolking <djwolking@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>, Peter Daszak <daszak@ecohealthalliance.org>, Aleksei Chmura <chmura@ecohealthalliance.org>, Evelyn Luciano <luciano@ecohealthalliance.org>

Hi Billy,

A quick follow up on this.

In the year 4 Predict work plan for Egypt, the Egyptian Ministry of Agriculture and Land Reclamation is mentioned as an implementing partner. Can you provide more information on exactly what its role/function is relative to the National Research Centre (which is believe is doing the actual sample collection and testing)? I want to be accurate in what information I convey when speaking with MOALR.

Thanks!

Andrew

On Thu, Oct 12, 2017 at 12:13 AM, William B. Karesh <[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)> wrote:

The implementing partner for PREDICT-2 Egypt is the National Research Centre's Center of Scientific Excellence for Influenza Viruses. This team was selected in 2016 based on its excellent track record of conducting similar research with NIH-NIAID, and other scientific entities and their ability to work on humans and animals.

FAO (with support of USAID EPT-2) also works with the National Research Centre's Center of Scientific Excellence for Influenza Viruses for the research FAO is managing for MERS-CoV on camels in Egypt.

On September 25, 2017, PREDICT-2 (Dr. Ehab Abu-Basha from Jordan presented due to Dr. Mohamed Ali from NRC not being able to obtain a visa) presented on its MERS-CoV-related activities on humans and bats in Egypt, Jordan, and other PREDICT-2 countries at the FAO-OIE-WHO Global Technical Meeting on MERS-CoV at WHO headquarters in Geneva.

In the presentation, surveillance activities in Egypt were described. PREDICT-2 Egypt samples bats and humans to look at MERS-CoV and other important viral families. Camel surveillance activities in Egypt are conducted by FAO, not PREDICT-2.

FAO data on camel surveillance activities from 2014-2016 (prior to PREDICT's presence in Egypt) were included since Dr. Ali prepared the presentation and NRC is implementing both the PREDICT-2 and FAO work.

Progress and updates of all PREDICT-2 Egypt activities are sent to the Ministries of Health and Ministry of Agriculture on a quarterly basis, in addition to the USAID/Egypt Mission.

Positive results from PCR and serological tests are not released to the general public until the data have been cleared by the Ministries.

There is a new Deputy Minister at the Ministry of Agriculture and Land Reclamation who was present at this meeting, who said that she was not familiar with the PREDICT-2 project prior to the meeting. However, the PREDICT-2 project in Egypt was launched with the inclusion of the Chairman of the General Organization of Veterinary Services (GOVS), which is a department within the Ministry of Agriculture and Land Reclamation, in 2016. Meetings with PREDICT and the Chairman of GOVS and other GOVS staff have been held in July 2015, February 2016, and at other points in 2016.

Staff changes within the Ministry of Agriculture and Land Reclamation (including GOVS) have required re-visiting the basic purpose and agreements during the above mentioned meetings. At each meeting, the staff have stated that we should terminate agreements with NRC and redirect the project funding their section or sub-section in agriculture regardless of the fact that PREDICT-2 work is focused on humans and wildlife which fall under different ministries and within the purview of the NRC.

Hope this is helpful,

BK

**William B. Karesh, D.V.M**

*Executive Vice President for Health and Policy*

EcoHealth Alliance

[460 West 34th Street - 17th Floor](#)

[New York, NY 10001 USA](#)

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President, OIE Working Group on Wildlife

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*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.*

On Oct 11, 2017, at 3:51 AM, Andrew Clements <[AClements@usaid.gov](mailto:AClements@usaid.gov)> wrote:

Hi Billy and Patrick,

See question below from our Egypt mission about any recent presentation of Egypt data in Jordan.

Thanks!

Andrew

*Andrew P. Clements, Ph.D.*

*Senior Scientific Advisor*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: [1-571-345-4253](tel:1-571-345-4253)*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** Annie Steed <[asteed@usaid.gov](mailto:asteed@usaid.gov)>

**Date:** October 11, 2017 at 8:08:52 AM GMT+2

**To:** Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>

**Cc:** Shana Gillette <[sgillette@usaid.gov](mailto:sgillette@usaid.gov)>, Lindsay Parish <[lparish@usaid.gov](mailto:lparish@usaid.gov)>, Akmal Elerian <[aelerian@usaid.gov](mailto:aelerian@usaid.gov)>, Mohamed Abu-Wafa <[maboelwafa@usaid.gov](mailto:maboelwafa@usaid.gov)>

**Subject: Re: USAID's regional activities on "Pandemic Health Threats" in Egypt**

Thanks Andrew,

We are getting inquiries from the Ministry of Agriculture with concerns that we have not been

UCDUSR0008673

coordinating with them on these issues which can be sensitive. I believe the recent time-frame would be the last couple of weeks for the presentation, not sure when the research was conducted.

There is a news article referring to USAID funding, but nothing specific.

annie

Annie Steed  
Deputy Director  
Office of Economic Growth  
USAID/Egypt  
Tel.: +20 (2) 2522-6760  
Cell: REDACTED

[asteed@usaid.gov](mailto:asteed@usaid.gov)

[www.usaid.gov/egypt](http://www.usaid.gov/egypt) | [facebook.com/USAIDEgypt](https://facebook.com/USAIDEgypt) | [twitter.com/USAIDEgypt](https://twitter.com/USAIDEgypt)

On Wed, Oct 11, 2017 at 8:06 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

Hi Annie,  
Predict has been conducting surveillance in animals in Egypt and there are similar activities in Jordan so sometimes there have been joint trainings or workshops for the two countries.

So that I can narrow my search, can you tell me: (1) what “recent” time period you are interested in; (2) when was the presentation in Jordan; and (3) is there any specific event that happened that you are trying to zero in on?

Thanks!

Andrew

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Oct 10, 2017, at 7:53 PM, Shana Gillette <[sgillette@usaid.gov](mailto:sgillette@usaid.gov)> wrote:

Hi Annie,  
I am looping in Andrew Clements for PREDICT.  
Best,

Shana

On Tue, Oct 10, 2017 at 10:59 AM, Annie Steed <[asteed@usaid.gov](mailto:asteed@usaid.gov)> wrote:

Hello Lindsay and Shana,  
My name is Annie Steed and I am with USAID/Egypt. Can either of you let me know if your activities have conducted an animal disease surveillance in Egypt recently? Or if any of the consultants working with your activities gave a presentation in Jordan and described an animal disease surveillance activity they conducted in Egypt?



Thanks,  
have a good day,  
annie

Annie Steed  
Deputy Director  
Office of Economic Growth  
USAID/Egypt  
Tel.: +20 (2) 2522-6760  
Cell: **REDACTED** 3

[asteed@usaid.gov](mailto:asteed@usaid.gov)

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----- Forwarded message -----

From: **Akmal Elerian** <[aelerian@usaid.gov](mailto:aelerian@usaid.gov)>  
Date: Mon, Oct 9, 2017 at 11:06 AM  
Subject: USAID's regional activities on "Pandemic Health Threats" in Egypt  
To: Annie Steed <[asteed@usaid.gov](mailto:asteed@usaid.gov)>  
Cc: Tara Simpson <[tsimpson@usaid.gov](mailto:tsimpson@usaid.gov)>

Hi Annie,

As a follow-up to our phone conversation, I reiterate that USAID's activities on "Pandemic Health Threats" in Egypt are currently implemented through the USAID/Washington's Emerging Pandemic Threats 2 (EPT-2) Program. These activities are mainly addressing Avian Flu and Middle East Respiratory Syndrome Corona Virus (MERS-CoV).

Primary EPT-2 partners involved in monitoring viruses in livestock, domestic animals, wildlife, and human populations are the U.N. Food and Agriculture Organization (FAO) and the USAID PREDICT-2 project.

Below are the contact info for the USAID/W AORs for FAO and PREDICT-2:

**FAO AOR:** Lindsay Parish [lparrish@usaid.gov](mailto:lparrish@usaid.gov)

**PREDICT-2 AOR:** [sgillette@usaid.gov](mailto:sgillette@usaid.gov)

Please let me know if I can be of further help.

Akmal

-----  
Akmal M.K. Elerian, MD, MSc | Sr. Project Management Specialist | Office of Education and Health | **USAID/Egypt**  
Office: (20-2) 2522-6866 | Fax: (20-2) 2522-7041 | [aelerian@usaid.gov](mailto:aelerian@usaid.gov)

--

Shana Gillette, PhD  
Senior Risk Mitigation Adviser

Emerging Threats Division  
Office of Infectious Disease  
Bureau for Global Health

UCDUSR0008675

U.S. Agency for International Development (USAID)

Office Phone: [202-712-1456](tel:202-712-1456)

Work Mobile: REDACTED

Personal Cell: REDACTED

Email: [sgillette@usaid.gov](mailto:sgillette@usaid.gov)

--

Andrew Clements, Ph.D.

Senior Scientific Advisor

Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health

U.S. Agency for International Development

Mobile phone: 1-571-345-4253

E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

*For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>*



**From:** "William B. Karesh" <karesh@ecohealthalliance.org>  
**To:** "ronwaldman@gwu.edu" <ronwaldman@gwu.edu>, Subhash Morzaria  
**REDACTED**, John MacKenzie <j.mackenzie@curtin.edu.au>  
**Cc:** Predict inbox <predict@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>  
**Subject:** Advisor notes from last PREDICT meeting  
**Sent:** Wed, 10 Jan 2018 17:18:49 +0000  
[PREDICT Meeting in Pacifica External Advisor Feedback 24 Jan 2017.docx](#)

Attached are the advisor notes from last PREDICT meeting that we went through this afternoon.

Once again, thanks for your time and thoughts.

BK

**USAID EPT-2 PREDICT-2 Meeting 10-11 January 2017 (Pacifica, CA): External Advisor Feedback**  
from: Dr. Ron Waldman, Dr. Jim Hughes, and Dr. Lonnie King

Based on the meeting presentations and discussion, the Advisors highlighted the following key areas for further consideration, clarification, and/or refinement:

**Remaining Time on Project**

- Strongly recommend that project leadership develop a strategy for remainder of PREDICT 2 (2.5 years) and any post-project directions
  - Identify desirable end points and map backward to today to set priorities.
  - Gap analysis
  - Make adjustments
  - Prioritize successes and consider dropping components that are not developing well enough to deliver strong results by the end of the project.
- What is the Exit Strategy?
  - What are you going to leave behind after all the local involvement, capacity building and program building?
  - Determine and make clear how countries and programs are going to benefit?
  - How is risk going to continue to be reduced?
- Consider writing a 10 year retrospective summary for a public audience such as a non-scientific audience, legislators , etc. that demonstrates the relevance, impact and worth of 10 years of PREDICT.
  - Who will write it?
  - Aspects to Include:
    - Program summary – what we know and can use now because of this project
    - Recommendations to countries for moving forward after the project
    - Recommendations to USAID for moving forward after the project

**Open Source Information**

- Reinforced importance of making information openly available and maximize access to project data and findings by other scientists that may add value beyond the scope of the core project.
- Findings may have public health implications so need to be shared ASAP (reinforcing capacity for international reporting obligations)
- Should look to solve issues around open source. What is the intent; how others/scientists can get the most out of data
- People may want to hold information until published, but there should be pressure to get it out faster; External Advisors can provide outside pressure to keep this a priority  
Caution over potential appearance of promotion of intellectual property or commercialized protocols (e.g., PCR approaches)

- Care must be taken in how to notify government officials, especially in agriculture, so that reporting is consistent with OIE requirements and standards.

#### **Behavioral Science**

- Advisors pleased to see the addition of behavioral science and risk reduction to the project.
- Try to link field findings with behavior and these linkages need to be well defined and explained to increase risk mitigation opportunities
- Review ongoing behavioral studies to ensure they will meet expectations within the project timeframe (end point)
- Social science component is quite important; current studies are small and appeared to lack scientific rigor based on the presentations given at the meeting. Didn't understand how they fit together or see coherence.

#### **PREDICT, GVP and AMR**

- Excited about GVP but make sure that energy invested by project leadership doesn't derail the goals of the overall PREDICT project by fusing together and losing focus. Need to define goals for potential future efforts (post-PREDICT-2), e.g. fusing these or focusing on one/addressing them separately.
- If PREDICT 2 is a precursor of GVP then early activities that could be expanded upon in GVP should be explicitly programmed during the final years of PREDICT. Proof of concept in the field could be valuable to GVP start-ups
- AMR could possibly be a major component of future initiatives (alignment as a major focus area for international agencies). Add at least in part to current program to give an idea of possibilities for expansion.

#### **Accounting for changing risk factors and impacts:**

- Factoring in profound changes in urbanization and shift in domestic animals and wildlife can increase risk in sampling
  - May want to drill down in a few urban settings on how changes can predict future threats to explore/demonstrate value.
- Make sure the Hotspots maps are accurate and not just interesting, with links to risk areas
  - What should people do with the information?
  - Follow up around interventions and compare interventions with hot spot risk
  - Why is the risk different in some places that aren't hot spots? This information may help in identifying how to reduce risk.
  - Project activities do not match well with hotspots (notably S. America); more research on whether animal viruses in S. America may or may not have the ability to spillover should be done. These areas are red for a reason and should not be blown off.
- Expand exploring links with food security and relevant economic impacts. The results of the effort could other potential stakeholders in governments, organizations and civil society recognize the value of the project.

- Would like to see more work around global food systems and how food moving worldwide can help increase the risk of spread the current pathways are very good but don't go far enough based on the massive and dynamic global food systems we see today.

### **Miscellaneous**

- Overall impressive results
  - Kudos to the group; virology and genomics in particular were cutting edge.
  - Data analytic capacity and strength in EIDITH – would like to see more access to allow engagement of other scientists.
  - It was great to have representation from so many project staff involved at the country level; there is definitely a positive energy and good momentum
  - Liked idea for viral spillover ranking to understanding risk; good for public understanding and decision making
- Identify key FAO countries and what resources they can deliver. Focus on those countries instead of trying to spread too thin over all countries, or focus on where PREDICT can accomplish its goals without depending on FAO.
- Are you seeing impact of program and products developed on actual Ministry-level changes or local approaches based on findings and incorporated into programs? Would like to hear more on this aspect as it would lengthen the life span of the project.
- Recommend stronger engagement with JEE process.
- One Health approach seems to lack strong environmental component and strong public health surveillance, both of which could and should be added even if they aren't explicitly stated in scope.
- Loss of biodiversity through environmental deterioration: looking at importance in changing virulence and spillover or risk reduction? Can these pathogens go straight to humans and add to their virulence or infectivity?
- Distinguish more clearly between what is "fact" (even alternative facts) and what is opinion.

**From:** Elizabeth Leasure <ealeasure@UCDAVIS.EDU>  
**To:** Andrew Clements <aclements@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>  
**Subject:** RE: Ryland is working on the obligation  
**Sent:** Tue, 30 Jan 2018 20:51:04 +0000

That's great! Thanks for the update. 😊

*Elizabeth Leasure*  
*Financial Operations Manager*  
*One Health Institute*  
**REDACTED**  
*530-754-9034 (office)*  
*Skype: ealeasure*

---

**From:** Andrew Clements [mailto:aclements@usaid.gov]  
**Sent:** Tuesday, January 30, 2018 11:56 AM  
**To:** Jonna Mazet; David John Wolking; Elizabeth Leasure  
**Subject:** Ryland is working on the obligation

So it should be very soon!

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: 1-571-345-4253*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*



**From:** Brooke Watson <watson@ecohealthalliance.org>  
**Sent:** Tue, 27 Feb 2018 16:02:34 -0500  
**Subject:** GVP abstract for ICEID conference  
**To:** Alison Andre <andre@ecohealthalliance.org>, Brooke Watson <watson@ecohealthalliance.org>, Cara Chrisman <cchrisman@usaid.gov>, Dennis Carroll <dcarroll@usaid.gov>, Eddy Rubin <erubin@metabiota.com>, Jonna Mazet <jkmazet@ucdavis.edu>, Nathan Wolfe <nwolfe@metabiota.com>, Peter Daszak <daszak@ecohealthalliance.org>, Eri Togami <etogami@ucdavis.edu>, "Morzaria, Subhash (FAORAP)" <[REDACTED]>, gaof@im.ac.cn, Carlos M Morel <morel@cdts.fiocruz.br>, Carlos Morel <cmmorel@gmail.com>, Prasert Auewarakul <prasert.aue@mahidol.ac.th>, "FUKUDA, Keiji" <[REDACTED]>, "Kurilla, Michael (NIH/NIAID) [E]" <mkurilla@niaid.nih.gov>, <[REDACTED]>, "SOLOMON, Steven Alan" <[REDACTED]>, Oyewale Tomori <[REDACTED]>, Maria VAN KERKHOVE <[REDACTED]>, Kathleen VICTOIR <[REDACTED]>  
[GVP ICEID Abstract v1shared Feb27.docx](#)

Dear GVP colleagues,

In August in Atlanta, GA, the CDC is hosting their biannual International Conference on Emerging Infectious Diseases (ICEID). Peter would like to present the Global Virome Project, and we are planning to include all of you as co-authors on the abstract.

Attached is our abstract outlining the scientific and economic rationale for the Global Virome Project, based largely on the work done for the recent [Science paper](#). We are constrained by format and word counts in this abstract, so we are unable to fit some of the GVP presentation content into the 2000 character limit. However, if you have edits or suggestions for the abstract, please return them with changes tracked before **this Thursday, March 1, at 5 PM EST**.

We intend to submit before the deadline on Friday March 2. If we don't hear back from you, we'll assume your approval and move forward with submission.

Many thanks,

Brooke Watson

--

**Brooke Watson, MSc**

*Research Scientist*

EcoHealth Alliance  
460 West 34th Street – 17th floor  
New York, NY 10001

[1.212.380.4497](tel:1.212.380.4497) (direct)  
[\[REDACTED\]](tel:1.212.380.4465) (mobile)  
[1.212.380.4465](tel:1.212.380.4465) (fax)  
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## GVP ICEID abstract

### Topic Stream: Improving Infectious Disease Surveillance and Outbreak Response

Subtopic: New Data Systems/Platforms for Surveillance

#### Title: Scientific and Economic Rationale for the Global Virome Project

**Authors:** Peter Daszak, Brooke Watson, Jonna Mazet, REDACTED Cara Chrisman, Eddy Rubin, Nathan Wolfe, Subhash Morzaria, George Gao, Carlos Morel, Prasert Auewarakul, Keiji Fukuda, Michael Kurilla, Ariel Pablos-Mendez, Steven Solomon, Oyewale Tomori, Maria Van Kerkhove, Kathleen Victoir, Dennis Carroll

**Background:** The majority of modern pandemics begin as zoonotic pathogens, but less than 1% of the estimated 1.7 million viruses in wildlife host species have been characterized. Virus-specific countermeasure development can be outpaced by the speed of novel viral emergence and spread. Here, we present a scientific and economic rationale for a more proactive, data-driven strategy for preventing infectious emergence and spread: the Global Virome Project.

**Methods:** Using data on more than 20,000 viral tests in mammals, we used ecological mark-recapture techniques to calculate rarefaction curves and estimate the asymptotic limit of total viral richness in 30 unique viral species. We use these estimates to calculate total viral diversity of zoonotic potential currently circulating in mammals and birds (here referred to as the “global virome”). Using the rarefaction curves, we calculated the number of samples required to identify a given percent of a given species’ viral diversity, and apply budget data from USAID’s EPT PREDICT project to all species to estimate sampling costs for these efforts.

**Results:** We estimate that approximately 1.67 million viruses (se 697,623-2,640,590) currently circulate in zoonotic viral families of mammals and birds. Of these, between 631,00 to 827,000 are likely capable of infecting humans. Based on the costs for exhaustive sampling in one species, we project that systematic sampling and testing to uncover 100% of the virome for all mammals and water birds would cost approximately \$7.54 billion, but because the majority of viruses are discovered early in a sampling project, we estimate that 71% of the virome can be sampled, tested, and characterized for \$1.2 billion.

**Conclusion:** The dearth of viral sequence data and metadata in mammals limits our ability to understand and develop countermeasures for emerging zoonoses. Our work suggests that increasing the universe of known viruses more than 700-fold is feasible for less than the cost of a single viral pandemic. A global atlas of viral sequences and their ecological metadata could enable more rapid responses to zoonotic spillovers, and be used to aid development of rapid diagnostics and universal vaccines.



**From:** Oyewale Tomori [REDACTED]  
**Sent:** Wed, 28 Feb 2018 02:18:24 +0100  
**Subject:** Re: GVP abstract for ICEID conference  
**To:** Brooke Watson <watson@ecohealthalliance.org>  
**Cc:** Alison Andre <andre@ecohealthalliance.org>, Cara Chrisman <cchrisman@usaid.gov>, Dennis Carroll <dcarroll@usaid.gov>, Eddy Rubin <erubin@metabiota.com>, Jonna Mazet <jkmazet@ucdavis.edu>, Nathan Wolfe <nwolfo@metabiota.com>, Peter Daszak <daszak@ecohealthalliance.org>, [REDACTED], "Morzaria, Subhash (FAORAP)" [REDACTED], "George F Gao (gaof@im.ac.cn)" <gaof@im.ac.cn>, Carlos M Morel [REDACTED], Carlos Morel <[REDACTED]>, Prasert Auewarakul <[REDACTED]>, "FUKUDA, Keiji" [REDACTED], "Kurilla, Michael (NIH/NIAID) [E]" <mkurilla@niaid.nih.gov>, "Ariel Pablos-Mendez [REDACTED]" [REDACTED], "SOLOMON, Steven Alan" <[REDACTED]>, Maria VAN KERKHOVE <[REDACTED]>, [REDACTED] Kathleen VICTOIR <[REDACTED]>

Dear Brooke  
Thank you for the excellent abstract. I have nothing to add  
Regards

Oyewale

**Oyewale TOMORI**  
Tel: +234 803 499 6524

On Tue, Feb 27, 2018 at 10:02 PM, Brooke Watson <[watson@ecohealthalliance.org](mailto:watson@ecohealthalliance.org)> wrote:

Dear GVP colleagues,

In August in Atlanta, GA, the CDC is hosting their biannual International Conference on Emerging Infectious Diseases ([ICEID](#)). Peter would like to present the Global Virome Project, and we are planning to include all of you as co-authors on the abstract.

Attached is our abstract outlining the scientific and economic rationale for the Global Virome Project, based largely on the work done for the recent [Science paper](#). We are constrained by format and word counts in this abstract, so we are unable to fit some of the GVP presentation content into the 2000 character limit. However, if you have edits or suggestions for the abstract, please return them with changes tracked before **this Thursday, March 1, at 5 PM EST**. We intend to submit before the deadline on Friday March 2. If we don't hear back from you, we'll assume your approval and move forward with submission.

Many thanks,

Brooke Watson

--

**Brooke Watson, MSc**  
*Research Scientist*

EcoHealth Alliance  
460 West 34th Street – 17th floor  
New York, NY 10001

[1.212.380.4497](tel:1.212.380.4497) (direct)  
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**From:** Jonna Mazet <jkmazet@ucdavis.edu>  
**To:** Brooke Watson <watson@ecohealthalliance.org>; Peter Daszak <daszak@ecohealthalliance.org>  
**Sent:** 2/27/2018 8:33:30 PM  
**Subject:** Re: GVP abstract for ICEID conference

Looks good, Brooke.  
Thanks to you both for submitting,  
Jonna

On Tue, Feb 27, 2018 at 1:02 PM, Brooke Watson <watson@ecohealthalliance.org> wrote:  
Dear GVP colleagues,

In August in Atlanta, GA, the CDC is hosting their biannual International Conference on Emerging Infectious Diseases (ICEID). Peter would like to present the Global Virome Project, and we are planning to include all of you as co-authors on the abstract.

Attached is our abstract outlining the scientific and economic rationale for the Global Virome Project, based largely on the work done for the recent Science paper. We are constrained by format and word counts in this abstract, so we are unable to fit some of the GVP presentation content into the 2000 character limit. However, if you have edits or suggestions for the abstract, please return them with changes tracked before **this Thursday, March 1, at 5 PM EST**.

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Brooke Watson

--

**Brooke Watson, MSc**

*Research Scientist*

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*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.*

**Subject:** Re: Availability for a call prior to Liberia visit?  
**From:** James Desmond <[REDACTED]>  
**Sent:** Thu, 1 Mar 2018 18:27:14 +0000  
**Cc:** Brooke Genovese <bgenovese@ucdavis.edu>, "William B. Karesh" <karesh@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, Amanda Andre <amanda.andre@ecohealthalliance.org>, Brian Bird <bhbird@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Andrew Clements <aclements@usaid.gov>  
**To:** Kendra Chittenden <kchittenden@usaid.gov>

See email below from Monica regarding partners meeting next week where I will present on PREDICT

Talk to you all shortly,

Jim

Dear Colleagues:

We are very pleased to have the USAID/Washington GHSA Senior Colleagues, Richard Greene (GHSA Coordinator) and Kendra Chittenden (GHSA POC for Liberia) visiting Liberia next week.

As you are aware, we would like to have an Implementer Partner meeting to present the 2017 progress, the 2018 planning and projections and to exchange best practices, challenges and lessons learned, especially that we have new partners that are implementing GHSA activities (IRC/PACS and PLM).

We scheduled the meeting for [Wednesday, March 7, from 9-12](#), at the Embassy.

Please prepare a presentation highlighting the areas suggested (progress, achievements plans for this year, areas of support, challenges, etc). I kindly request that you send the presentation to me on Tuesday so I can upload them on the Embassy laptop.

Kindly send the names of the participants, to request Embassy access (and bring your ID).

Please let me know if you have any questions, and we are looking forward to seeing you on Wednesday.

Thank you.

--  
Monica N. Dea  
Sr. Public Health Advisor  
Health Team  
USAID Liberia  
[502 Benson Street](#), Monrovia  
Tel (Reception): +(231) [77 677 7000](#)  
Tel (Direct): +(231) [77 677 7226](#)  
Mobile: + [REDACTED]

On Feb 28, 2018, at 5:05 PM, Kendra Chittenden <[kchittenden@usaid.gov](mailto:kchittenden@usaid.gov)> wrote:

Thank you! I also included Andrew in case he'd like to join

On Wed, Feb 28, 2018 at 12:01 PM, Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)> wrote:

Hi everyone,



We can use the PREDICT-EB conference line:

REDACTED Access code REDACTED Security REDACTED

Thanks!

Brooke

---

**From:** James Desmond <[jdesmo01@gmail.com](mailto:jdesmo01@gmail.com)>

**Date:** Wednesday, February 28, 2018 at 6:30 AM

**To:** Kendra Chittenden <[kchittenden@usaid.gov](mailto:kchittenden@usaid.gov)>

**Cc:** "William B. Karesh" <[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)>, Jon Epstein <[epstein@ecohealthalliance.org](mailto:epstein@ecohealthalliance.org)>, Amanda Andre <[amanda.andre@ecohealthalliance.org](mailto:amanda.andre@ecohealthalliance.org)>, Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)>

**Subject:** Re: Availability for a call prior to Liberia visit?

Works for me as well. Talk to you all then.

Jim

**James S. Desmond, DVM, MS**

**Email:** [jdesmo01@gmail.com](mailto:jdesmo01@gmail.com)

**Phone:** [+254701859361](tel:+254701859361) (Kenya)

**Phone:** [+ 231776147565](tel:+231776147565) (Liberia)

**Phone:** [+16172752626](tel:+16172752626) (USA)

**Skype:** [jim.desmond](https://www.skype.com/people/jim.desmond)

On Feb 28, 2018, at 12:52 PM, Kendra Chittenden <[kchittenden@usaid.gov](mailto:kchittenden@usaid.gov)> wrote:

saya juga (me too)

On Tue, Feb 27, 2018 at 7:12 PM, William B. Karesh <[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)> wrote:

baik untuk saya. [good for me ;) ]

BK

**William B. Karesh, D.V.M**

*Executive Vice President for Health and Policy*

EcoHealth Alliance

[460 West 34th Street - 17th Floor](#)

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President, OIE Working Group on Wildlife

Co-chair, IUCN Species Survival Commission - Wildlife Health Specialist Group

EPT Partners Liaison, USAID Emerging Pandemic Threats - PREDICT-2 Program

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On Feb 27, 2018, at 5:50 PM, Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)> wrote:

Hi all,

11:00am PST / 2:00pm EST on Thursday, March 1 works for Jonna as well.

Best,

Brooke Genovese

PREDICT Project Support

Executive Analyst

One Health Institute

School of Veterinary Medicine

Tel: [530-752-6459](tel:530-752-6459)

[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)

[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)

O: [530-752-3630](tel:530-752-3630)

---

**From:** <[jonna.mazet@gmail.com](mailto:jonna.mazet@gmail.com)> on behalf of Jonna Mazet  
<[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>

**Date:** Tuesday, February 27, 2018 at 2:46 PM

**To:** Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)>

**Subject:** Fwd: Availability for a call prior to Liberia visit?

----- Forwarded message -----

From: **Kendra Chittenden** <[kchittenden@usaid.gov](mailto:kchittenden@usaid.gov)>

Date: Tue, Feb 27, 2018 at 2:26 PM

Subject: Re: Availability for a call prior to Liberia visit?

To: Jon Epstein <[epstein@ecohealthalliance.org](mailto:epstein@ecohealthalliance.org)>

Cc: Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>, Brian Bird <[bhbird@ucdavis.edu](mailto:bhbird@ucdavis.edu)>, Emma Lane  
<[lane@ecohealthalliance.org](mailto:lane@ecohealthalliance.org)>, "William B. Karesh, D.V.M"

<[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)>, Jim Desmond  
<[desmond@ecohealthalliance.org](mailto:desmond@ecohealthalliance.org)>, David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>

Let's plan for Thur - how about 2 pm (D.C)

Sent from my iPhone

On Feb 27, 2018, at 5:14 PM, Jon Epstein <[epstein@ecohealthalliance.org](mailto:epstein@ecohealthalliance.org)> wrote:

Terrific! My main limitation is that I'm flying to London tomorrow, which eats up most of the day.

Thursday would be better, at least for me, anytime after 1pm EST should work, which might also be easier for folks on the West Coast.

Cheers,

Jon

On Tue, Feb 27, 2018 at 5:01 PM, Kendra Chittenden  
<[kchittenden@usaid.gov](mailto:kchittenden@usaid.gov)> wrote:

Jon

That would be great. Tomorrow afternoon works for me, I also have a bit of time on Thur or Fri.

Let me know what works best for you. I should also have a draft schedule tomorrow morning to share with you.

Kendra

Sent from my iPhone

On Feb 27, 2018, at 4:23 PM, Jon Epstein  
<[epstein@ecohealthalliance.org](mailto:epstein@ecohealthalliance.org)> wrote:

Hi Kendra,

I hope you're well. I'm not sure of your schedule this week, but I was wondering whether you might be available for a brief phone call prior to your upcoming trip to Liberia, just to know a bit more about what you'd like to see or discuss with our PREDICT team during your visit? The call would include Jim Desmond, our

country coordinator, as well as Jonna and Brian Bird.

Cheers,

Jon

--

**Jonathan H. Epstein DVM, MPH, PhD**

*Vice President for Science and Outreach*

EcoHealth Alliance

460 West 34th Street – 17th floor

New York, NY 10001

1.212.380.4467 (direct)

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web: [ecohealthalliance.org](http://ecohealthalliance.org)

Twitter: [@epsteinjon](https://twitter.com/epsteinjon)

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--

**Jonathan H. Epstein DVM, MPH, PhD**

*Vice President for Science and Outreach*

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-

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--

Kendra Chittenden, Ph.D. | Senior Infectious Disease Advisor| USAID | mobile ([703-209-5424](tel:703-209-5424)) |[KChittenden@usaid.gov](mailto:KChittenden@usaid.gov)

--

Kendra Chittenden, Ph.D. | Senior Infectious Disease Advisor| USAID | mobile ([703-209-5424](tel:703-209-5424)) |[KChittenden@usaid.gov](mailto:KChittenden@usaid.gov)

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** <undisclosed-recipients:>  
**Sent:** 3/5/2018 2:23:08 AM  
**Subject:** March 5, 2018: Emerging Pandemic Threats update

**Summary:** 57 poultry outbreaks, 34 wild bird outbreaks, and 184 human infections with 12 pathogens (various avian influenza viruses, Lassa, and MERS-CoV) were reported by 20 countries between February 5 and March 4, 2018. These outbreaks/infections occurred between November 2017 and February 2018.

**Specific pathogens and countries affected:**

**H5N1/Asia** Highly-Pathogenic Avian Influenza (HPAI) – 3 new poultry outbreaks and 1 new wild bird outbreak (Cambodia, India)

*A total of 23,649 bird outbreaks (more than 250 million birds affected) and 880 human infections (52% average case fatality rate) have been reported by 67 countries since virus first detected in 1997.*

**H5N2/Asia** HPAI – 27 new poultry outbreaks (China)

*A total of 1,074 bird outbreaks (more than 72.3 million birds affected) have been reported by 4 countries since virus first detected in 2012; no human infections reported to date.*

**H5N6/Asia** HPAI – 1 new poultry outbreak (Vietnam\*)

*A total of 685 bird outbreaks (29.3 million birds affected) and 19 human infections (37% average case fatality rate) have been reported by 7 countries since virus first detected in 2014.*

*\* No genetic data available; assumed to be same lineage as previous H5N6 virus from Asia.*

**H5N6/Asia** (variant) HPAI – 2 new poultry outbreaks and 1 new wild bird outbreak (China, South Korea)

*A total of 32 bird outbreaks (0.8 million birds affected) have been reported by 3 countries since virus first detected in 2017; no human infections reported to date.*

**H5N6/Europe** (variant) HPAI – 1 new poultry outbreak and 16 new wild bird outbreaks (Denmark, Ireland, Netherlands, Sweden, UK)

*A total of 33 bird outbreaks (54 thousand birds affected) have been reported by 7 countries since virus first detected in 2017; no human infections reported to date.*

**H5N6 (lineage unknown)** HPAI – 1 new wild bird outbreak (Iran)

**H5N8** (variant) HPAI – 22 new poultry outbreaks and 15 new wild bird outbreaks (Afghanistan\*, Bulgaria, China, Iraq, Israel, Nigeria, Saudi Arabia, South Africa)

*A total of 2,650 bird outbreaks (more than 26.6 million birds affected) have been reported by 51 countries since virus first detected in 2016; no human infections reported to date.*

*\* Neuraminidase typing not reported and no genetic data available; assumed to be same lineage as previous H5N8 variant virus from Asia.*

**H7N4** Low Pathogenicity Avian Influenza (LPAI) – 1 new confirmed (and non-fatal) human infection (China)

*First-ever reported human infection with this virus. No poultry outbreaks reported.*

**H7N9/Asia** HPAI and LPAI – 1 new confirmed human infection (China)

*A total of 23 bird outbreaks (1.0 million birds affected) and at least 1,567 human infections (39% average case fatality rate) have been reported by 3 countries since virus first detected in 2013.*

**H9N2** HPAI – 1 new poultry outbreak (Ghana)

*First-ever reported bird outbreak with this virus. No human infections reported (all 40 previous human infections with H9N2 were LPAI viruses).*

**Lassa** – 160 new confirmed human cases (Benin, Ghana, Nigeria)

*At least 2,844^ human infections (19% average case fatality rate) have been reported by 15 countries between 2000 and 2018. ^ Total includes confirmed, probable, and suspected cases.*

**MERS-CoV** – 22 new confirmed human cases (Saudi Arabia)

*A total of 26 camel outbreaks and 2,182 confirmed human infections (35% average case fatality rate) have been reported by 27 countries since virus first detected in 2012.*

**Note-worthy reporting during the past month:**

- *UK (H5N6/Europe variant): time from event start to both lab testing and reporting to OIE = 0 days*
- *South Korea (H5N6/Asia variant): time from event start to both lab testing and reporting to OIE = 0 days*
- *Saudi Arabia (H5N8/Asia variant): time from event start to lab testing = 48 days; time from event start to reporting to OIE = 54 days*
- *Bulgaria (H5N8/Asia variant): time from event start to lab testing = 0 days; time from event start to reporting to OIE = 98 days*

**à Next update on/about April 2, 2018**

**Data sources:**

<http://www.who.int/csr/don/en/>  
[http://www.who.int/influenza/human\\_animal\\_interface/en/](http://www.who.int/influenza/human_animal_interface/en/)  
<http://www.afro.who.int/en/clusters-a-programmes/whe/outbreaks-and-other-emergencies-updates.html>  
[http://www.oie.int/wahis\\_2/public/wahid.php/Diseaseinformation/WI](http://www.oie.int/wahis_2/public/wahid.php/Diseaseinformation/WI)  
<http://empres-i.fao.org/eipws3g/>  
<https://www.cdc.gov/flu/weekly/index.htm>  
<http://www.moh.gov.sa/en/CCC/pressreleases/pages/default.aspx>

<http://newsletters.afro.who.int/outbreak-dashboards/p36fcklqcoy1qqvybnlogp?email=true>  
<http://www.chp.gov.hk/en/index.html>  
<http://www.gcs.gov.mo/showNews.php?DataUcn=119808&PageLang=P>

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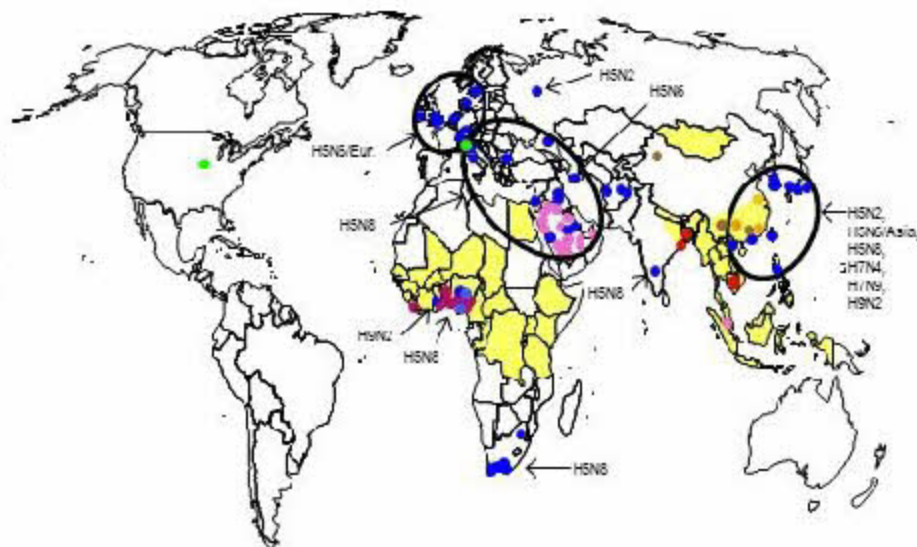
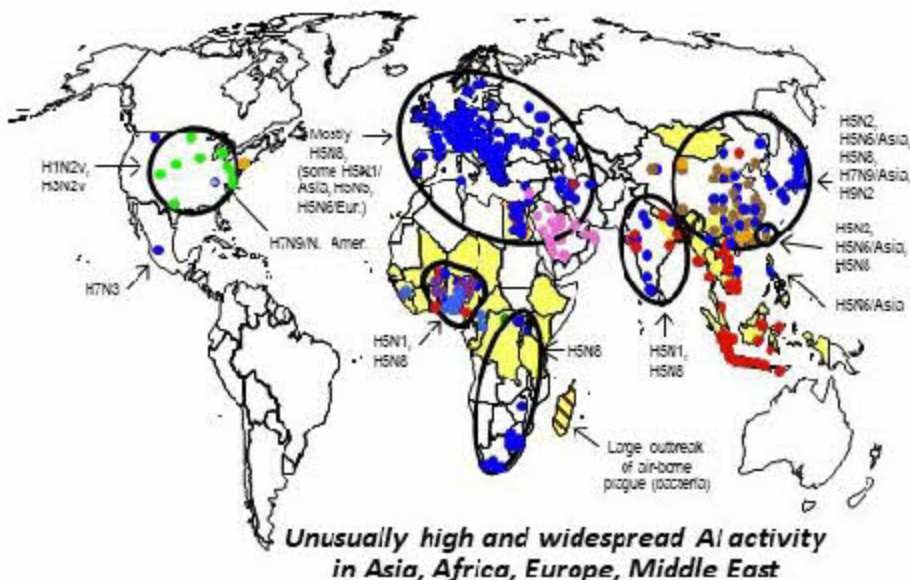
Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: [1-571-345-4253](tel:1-571-345-4253)  
E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

*For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>*

# Detection of Specific Viruses with Potential to Infect and Directly Spread among Humans<sup>^</sup>

Nov 2016-Oct 2017

Nov 2017-Oct 2018



- = H5N1/Asian lineage HPAI<sup>#</sup> (poultry, wild birds, humans)
- = H7N9/LPA/Asia<sup>##</sup> (poultry, wild birds, or humans)
- = other HPAI or LPAI (humans)
- = other HPAI including H5N1/Eur. lineage, H5N1/NA lineage (poultry, wild birds)
- = H1N1v, H1N2v and H3N2v swine influenza (humans)
- = Ebola (humans)
- = Marburg (humans)
- = Lassa (humans)
- = Nipah (humans)
- = Middle East Respiratory Syndrome-Coronavirus (humans or animals)
- = monkeypox (primates, humans)

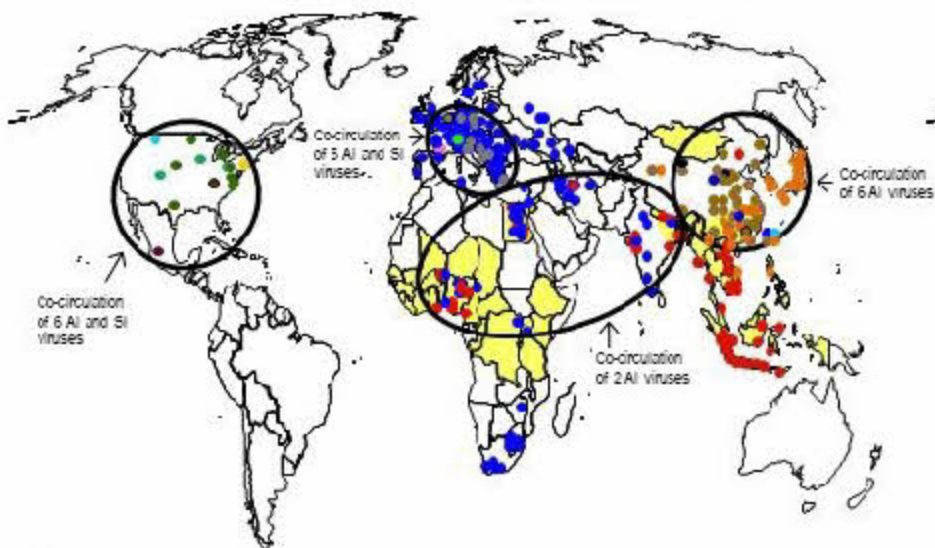
Sources = OIE, WHO, CDC, Ministry of Agriculture/FAD (Egypt, Indonesia), and IEDCR (Bangladesh) reports between 11/1/16 and 3/4/18. <sup>^</sup> While these reports reflect known infections with these viruses, there may be additional viral circulation in these and other countries that is not detected due to limitations in surveillance and/or detection. All of these viruses are from viral families with at least one member that is capable of infecting people and spreading directly from person to person without using food, water or insects as vectors. <sup>#</sup> Highly-pathogenic avian influenza. <sup>##</sup> Low-pathogenicity avian influenza. ■ = countries (including eastern/southeastern China, northeastern India, and most of Indonesia) using USAID avian influenza, Ebola, or other emerging pandemic threats funding between FY2016 and FY2018 for prevention, detection, and response. \* = location where a new virus first detected.



# Recent Detection of Avian and Swine Influenza Viruses in Animals and Humans<sup>^</sup>

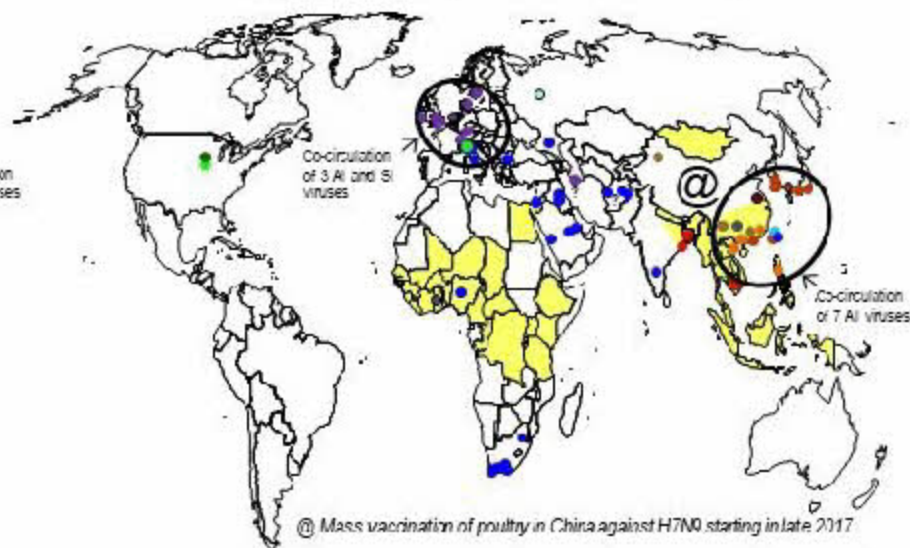
Nov 2016-Oct 2017

→ 3,738 bird outbreaks and 786 human infections with 15 AI/SI sub-types/variants (9 of which are zoonotic)



Nov 2017-Oct 2018

→ 239 bird outbreaks and 10 human infections with 11 AI/SI sub-types/variants (6 of which are zoonotic)



- = H5N1/Asia HPAI\* (F, WB, H)
- = H5N1/Europe HPAI (P, WB, H)
- = H5N2/Asia HPAI (P, WB)
- = H5N2/Eurasia (P)
- = H5N5HPAI (P, WB)
- = H5N6/Asia I I PAI (P, WB, I I)
- = H5N6/Asia HPAI variant (P, WB)

- = H5N6/Europe HPAI (P, WB)
- = H5N6/Europe variant I I PAI (P, WB)
- = H7N2 (F, H)
- = H7N3 (P)
- = H5N8/As a variant HPAI lineage (P, WB)
- = H7N4 LPAI (H)

- = H7N9/Asia HPAI or LPAI (P, WB, H)
- = H7N9/N. America (P)
- = H9N2 HPAI or LPAI (P, H)
- = H1N1v SI (H)
- = H1N2v SI (H)
- = H3N2v SI (I I)
- = first-ever detection of new virus

Sources = OIE, WHO, CDC, and Ministry of Agriculture/GAO (Egypt, Indonesia) reports between 11/1/16 and 3/4/18. <sup>^</sup> While these reports reflect known infections with animal influenza viruses, there may be additional viral circulation in these and other countries that is not detected due to limitations in surveillance and/or detection. \* Highly-pathogenic avian influenza (in chickens). # Low-pathogenicity avian influenza (in chickens). ■ = countries (including eastern/southeastern China, northeastern India and most of Indonesia) using USAID avian influenza, Ebola, or other emerging pandemic threats funding between FY2016 and FY2018 for prevention, detection, and response. P = poultry; WB = wild birds; H = humans; F = feline.



UCDUSR0008697

**From:** Taylor, Jami [GCSOUS] <jtaylo19@its.jnj.com>  
**To:** Shah, Cecilia <cshah@nas.edu>  
**CC:** Peter Daszak <daszak@ecohealthalliance.org>; Beth Cameron <cameron@nti.org>; Dean.Jamison@ucsf.edu <Dean.Jamison@ucsf.edu>; djamison@uw.edu <djamison@uw.edu>; Espinal, Dr. Marcos (WDC)" <espinalm@paho.org>; Jennifer Gardy <Jennifer.gardy@bccdc.ca>; jkmazet@ucdavis.edu <jkmazet@ucdavis.edu>; Joshua Michaud <JoshuaM@kff.org>; mchawla@worldbank.org <mchawla@worldbank.org>; Peter Sands <pasands@icloud.com>; tgevens@worldbank.org <tgevens@worldbank.org>; Thomas Inglesby <tinglesby@jhu.edu>; Timothy Burgess <timothy.burgess@usuhs.edu>; Ogawa, V. Ayano <VOgawa@nas.edu>; Tran, Thu Anh <TTran@nas.edu>  
**Sent:** 3/6/2018 9:06:16 AM  
**Subject:** Re: Please provide feedback by Monday, March 5

Thanks, all. We might also consider Hannah Kettler or Ganesh Ramakrishnan as speakers on the Incentives topic (whether incentives for companies or governments).

Both are from the Gates Foundation, leading the Foundation's efforts related to Sustainable Financing for Global Health.

On Mar 6, 2018, at 11:10 AM, Shah, Cecilia <cshah@nas.edu> wrote:

Thank you, Peter. Any other thoughts on the agenda?

Best,

Ceci

**From:** Peter Daszak [mailto:daszak@ecohealthalliance.org]  
**Sent:** Monday, March 05, 2018 8:18 PM  
**To:** Shah, Cecilia <cshah@nas.edu>; Beth Cameron <cameron@nti.org>; Dean.Jamison@ucsf.edu; djamison@uw.edu; Espinal, Dr. Marcos (WDC) <espinalm@paho.org>; Jennifer Gardy <Jennifer.gardy@bccdc.ca>; jkmazet@ucdavis.edu; 'Joshua Michaud' <JoshuaM@kff.org>; mchawla@worldbank.org; 'Peter Sands' <pasands@icloud.com>; Taylor, Jami [GCSOUS] <jtaylo19@its.jnj.com>; tgevens@worldbank.org; Thomas Inglesby <tinglesby@jhu.edu>; Timothy Burgess <timothy.burgess@usuhs.edu>  
**Cc:** Ogawa, V. Ayano <VOgawa@nas.edu>; Tran, Thu Anh <TTran@nas.edu>  
**Subject:** RE: Please provide feedback by Monday, March 5

Looks great, and well done on getting Larry Summers to confirm already!

All the topics look good to me. My only comment is re. the moderators of the breakout groups, not sure if you want FMT members of invited speakers to do this. If the former, happy to step in for the modeling breakout on the second day. Alternatively, Carlos Castillo-Chavez/Eli Fenichel who are slated to talk on day 1 would do a good job of this.

Cheers,

Peter

**Peter Daszak**  
*President*

EcoHealth Alliance  
460 West 34<sup>th</sup> Street – 17<sup>th</sup> Floor  
New York, NY 10001

Tel. +1 212-380-4474  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)  
[@PeterDaszak](mailto:@PeterDaszak)  
[@EcoHealthNYC](mailto:@EcoHealthNYC)

*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that prevent pandemics and promote conservation.*

**From:** Shah, Cecilia [<mailto:cshah@nas.edu>]  
**Sent:** Wednesday, February 28, 2018 2:41 PM  
**To:** Beth Cameron; [Dean.Jamison@ucsf.edu](mailto:Dean.Jamison@ucsf.edu); [djamison@uw.edu](mailto:djamison@uw.edu); Espinal, Dr. Marcos (WDC); Jennifer Gardy; [jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu); 'Joshua Michaud'; [mchawla@worldbank.org](mailto:mchawla@worldbank.org); Peter Daszak; 'Peter Sands'; Taylor, Jami [GCSOUS]; [tgevens@worldbank.org](mailto:tgevens@worldbank.org); Thomas Inglesby; Timothy Burgess  
**Cc:** Ogawa, V. Ayano; Tran, Thu Anh  
**Subject:** Please provide feedback by Monday, March 5  
**Importance:** High

Dear Planning Committee Members,

With the feedback you provided, we have refined the agenda and added suggested speakers to the topics proposed in the draft attached. The only speaker that has been invited and confirmed is Larry Summers.

I am writing to request your feedback on:

- Finalizing the session and presentation titles - Please let us know if you disagree with any of the content proposed and would like us to select a different topic.
- Suggesting speakers for each topic - All the names you see in the agenda are **proposed** (except for Larry Summers who has been confirmed) so please let us know if you would like us to invite someone different. Also, see attached a spreadsheet where we have compiled all the suggestions we have received from you. If you see someone in the list who should be invited to speak please let us know.

We'd appreciate your feedback by Monday, March 5 so we can start sending invitations out.

Best,

**Cecilia Mundaca Shah, MD, DrPH**  
Director, Forum on Microbial Threats  
Board on Global Health  
Health and Medicine Division | Find us at [nationalacademies.org/HMD](http://nationalacademies.org/HMD)  
The National Academies of Sciences, Engineering, and Medicine  
500 Fifth Street, NW  
Washington, DC 20001  
Phone: [202 334 2622](tel:2023342622)  
E-mail: [cshah@nas.edu](mailto:cshah@nas.edu)

**From:** Dennis Carroll <dcarroll@usaid.gov>  
**Sent:** Tue, 24 Apr 2018 13:30:20 -0400  
**Subject:** Fwd: Smithsonian Scientists Partner With a Global Alliance to Sequence DNA From All Complex Life on Earth  
**To:** Peter Daszak <daszak@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>, Eddy Rubin <erubin@metabiota.com>, Brooke Watson <watson@ecohealthalliance.org>, **REDACTED** Nathan Wolfe <nwolfe@metabiota.com>, Cara Chrisman <cchrisman@usaid.gov>

Another "audacious" project. Smithsonian's natural history museum appears at its epicenter

<https://www.laboratoryequipment.com/news/2018/04/smithsonian-scientists-partner-global-alliance-sequence-dna-all-complex-life-earth#.Wt9o7NP70yk.email>

**From:** William B. Karesh <karesh@ecohealthalliance.org>  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>  
**Sent:** 5/11/2018 1:28:27 PM  
**Subject:** Re: Tanzania - DTRA

Well, thanks for representing us with Richard - that's way more important !!!!

BK

**William B. Karesh, D.V.M**  
*Executive Vice President for Health and Policy*

EcoHealth Alliance  
460 West 34th Street - 17th Floor  
New York, NY 10001 USA

+1.212.380.4463 (direct)  
+1.212.380.4465 (fax)  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

President, OIE Working Group on Wildlife

Co-chair, IUCN Species Survival Commission - Wildlife Health Specialist Group

EPT Partners Liaison, USAID Emerging Pandemic Threats - PREDICT-2 Program

*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.*

On May 11, 2018, at 4:25 PM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Nope -- I am on my way to Guinea to see Richard G ;)  
Thanks for representing.  
Travel well,  
J

On Thu, May 10, 2018 at 2:42 PM, William B. Karesh <[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)> wrote:  
congrats!!

Are you coming back to DC in time for the Outbreak opening? I'm going to go down for the evening and then fly to Paris on Thursday.

BK

**William B. Karesh, D.V.M**  
*Executive Vice President for Health and Policy*

EcoHealth Alliance  
460 West 34th Street - 17th Floor  
New York, NY 10001 USA



+1.212.380.4463 (direct)  
+1.212.380.4465 (fax)  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

President, OIE Working Group on Wildlife

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EPT Partners Liaison, USAID Emerging Pandemic Threats - PREDICT-2 Program

***EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.***

On May 10, 2018, at 4:38 PM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Great -- thanks for the update.

We just did our project final reviews with DTRA and the team here in Tanzania today. Was super positive. We will be applying for continuations of our work in the central and southern highlands on follow-ons for our viral findings, as well as vector biology to follow-up on our RVF work. We have a couple more abstracts into them, but they didn't seem excited about those.

Good luck with yours,

J

On Thu, May 10, 2018 at 10:34 AM, William B. Karesh <[karesh@ecohealthalliance.org](mailto:karesh@ecohealthalliance.org)> wrote:

Just wanted to give you an update on our previous discussions about our working with Sarah Cleveland and Felix Lancaster in Tanzania for a CBEP proposal. Originally, we were interested in a project integrating RVF, PPR and CCHF in the northeast of the country based on where they are well established.

But, following more recent discussions with them, potential Tanzanian partners and DTRA over the last couple of weeks, we've decided to narrow the focus to CCHF but still keep the study area up in the north around the Serengeti ecosystem.

That's where we are now and will keep you posted if things start to go in another direction.

**From:** Elizabeth Leasure <ealeasure@UCDAVIS.EDU>  
**To:** Andrew Clements <aclements@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>  
**Cc:** "predictmgt@usaid.gov" <predictmgt@usaid.gov>, "Lisa Kramer (Nairobi/EA/RHH)" <lkramer@usaid.gov>  
**Subject:** RE: OAA response on MOH Kenya  
**Sent:** Fri, 18 May 2018 17:59:05 +0000

Thanks, Andrew. I will follow up with the SI team regarding the last item on travel costs to see if there is any further action required.

*Elizabeth Leasure*  
*Financial Operations Manager*  
*One Health Institute*  
[REDACTED] (cell)  
530-754-9034 (office)  
Skype: ealeasure

---

**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Wednesday, May 9, 2018 10:29 AM  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>; Elizabeth Leasure <ealeasure@UCDAVIS.EDU>; David John Wolking <djwolking@ucdavis.edu>  
**Cc:** predictmgt@usaid.gov; Lisa Kramer (Nairobi/EA/RHH) <lkramer@usaid.gov>  
**Subject:** OAA response on MOH Kenya

See below.

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: 1-571-345-4253*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*  
Begin forwarded message:

**From:** Ryland Marbray <[rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)>  
**Date:** May 9, 2018 at 6:57:31 PM GMT+2  
**To:** Ashna Kibria <[akibria@usaid.gov](mailto:akibria@usaid.gov)>  
**Cc:** Patricia Bradley <[pbradley@usaid.gov](mailto:pbradley@usaid.gov)>, Cara Chrisman <[cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)>, Amalhin Shek <[ashek@usaid.gov](mailto:ashek@usaid.gov)>, Alisa Pereira <[apereira@usaid.gov](mailto:apereira@usaid.gov)>, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>  
**Subject:** Re: Follow up actions from our call yesterday

Hi Ashna,

Please find my response to the Kenya suspension questions in red below.  
Andrew please contact me if you have any questions since you are the AOR concerning this agreement.

Thanks,

Ryland Marbray

Agreement officer.

**A list of activities or assistance under the agreement that have been suspended:**

PREDICT/Kenya is currently working with Kenya Medical Research Institute (KEMRI) for the implementation of human surveillance. It is our understanding that KEMRI is a parastatal organization that is mandated by the Kenya government to undertake research on human subjects. The Cabinet Secretary to the MoH appoints the director and by extension the director of medical services is a member of the KEMRI management board to ensure regulations set are followed. To our knowledge, there isn't a shared budget between KEMRI and MoH.

Our PREDICT in-country IRB was approved by KEMRI in April 2017. Dr. Allan ole Kwallah is a KEMRI employee who is helping to implement PREDICT human surveillance activities. He is not paid by the project, but his field expenses for human surveillance (such as travel, per diem, etc.) are planned to be covered by PREDICT. We are also planning to utilize the KEMRI lab for human sample testing. KEMRI has agreed that a PREDICT staff technician can be placed at the institution to test samples; testing supplies will be purchased by PREDICT.

PREDICT's human surveillance plan includes engaging government hospitals for syndromic surveillance, for which they would be paid through an AO approved mechanism such as a subcontract for services. We additionally have identified private hospitals that may be suitable for engagement. **We would appreciate guidance from OAA at this time on whether engaging government hospitals in our syndromic surveillance plan will be affected by this suspension. Please advise. Please continue to engage government hospitals in the surveillance plan.**

An additional partner that PREDICT frequently consults with is the Zoonotic Disease Unit (ZDU). The ZDU was established by the MoH and the Ministry of Agriculture and Livestock to advise on zoonotic disease and the One Health approach to disease monitoring, surveillance and testing, prevention and control. The ZDU is mandated by the two parent ministries to come up with strategic guidelines and policies that establish and govern One Health in the country. We have been informed that from June 12-16, 2017, the ZDU will be undertaking a USAID-funded campaign against rabies, which we are hoping is an indicator that they will not be affected by this suspension. PREDICT does not formally engage or pay anyone from the ZDU, but they are frequent attendees to workshops, meetings, etc. and would be consultants on any outbreak events that PREDICT may be invited by the Government of Kenya to support.

PREDICT recognizes that under this suspension representatives of the MoH shall not be invited to project-hosted workshops, trainings, meetings, etc. nor shall PREDICT staff attend workshops, trainings, meetings, etc. hosted by the MoH. **(Note: PREDICT/Kenya is not considering employees of KEMRI or ZDU to be members of the MoH. Please advise if otherwise, as this has implications for future surveillance and testing plans.) This is correct. MOH shall not be invited to project-hosted workshops, training, meeting, etc. nor shall PREDICT staff attend workshops, training meeting etc hosted by MOH.**

**Any impact on personnel to include a list a personnel that have been terminated, furloughed, or temporarily suspended and costs thereof. Please include any severance anticipated to be paid.**

No MoH personnel have been hired by PREDICT/Kenya. **(Note: If permissible, PREDICT plans to pay travel expenses of Alan ol Kwallah, an employee of KEMRI who is assisting with human surveillance activities as noted above.) Please send me travel dates, cost, other travel expenses and objects in a request letter. i will review and provide a response at that point.**

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>  
**Sent:** 6/5/2018 12:56:57 PM  
**Subject:** Re: UPDATE PREDICT DRC EVD outbreak 4 June 2018

Thanks

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Jun 5, 2018, at 9:13 PM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Most recent update attached,  
Jonna

--

You received this message because you are subscribed to the Google Groups "PREDICTMGT" group.  
To unsubscribe from this group and stop receiving emails from it, send an email to [predictmgt+unsubscribe@usaid.gov](mailto:predictmgt+unsubscribe@usaid.gov).  
To post to this group, send email to [predictmgt@usaid.gov](mailto:predictmgt@usaid.gov).  
To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAO5tDrE7JTklux51L%2BCkbXvJJSW51vjwHsUXgowCAnCysePVCg%40mail.gmail.com>.

**From:** Dennis Carroll <dcarroll@usaid.gov>  
**Sent:** Thu, 7 Jun 2018 12:06:05 -0400  
**Subject:** Re: Call tomorrow  
**To:** Brooke Watson <watson@ecohealthalliance.org>  
**Cc:** [REDACTED], Nathan Wolfe <nwolfe@metabiota.com>, Cara Chrisman <cchrisman@usaid.gov>, Eddy Rubin <erubin@metabiota.com>, Jonna Mazet <jkmazet@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>

Only the REALLY important people will be on line :)

Dr. Dennis Carroll  
Director, Emerging Threats Program  
Bureau for Global Health  
U.S. Agency for International Development

Office: 571-551-7109  
Mobile: [REDACTED]

On Thu, Jun 7, 2018 at 12:01 PM, Brooke Watson <[watson@ecohealthalliance.org](mailto:watson@ecohealthalliance.org)> wrote:

Hi all,

Just learned that Peter is also unable to attend. Sorry for the late notice!

On Wed, Jun 6, 2018 at 9:49 PM Nathan Wolfe <[nwolfe@metabiota.com](mailto:nwolfe@metabiota.com)> wrote:

Hi folks

I may also have to miss tomorrow's call. Although I will try to call in for the second half

Thanks

Nathan

On Wed, Jun 6, 2018 at 10:14 AM [REDACTED] > wrote:

Hi everyone,

I wanted to give you a heads up that Jonna will not be available for our GVP call tomorrow (she will be out of office).

Thanks,

[REDACTED]

--

**Brooke Watson, MSc**

*Research Scientist*

EcoHealth Alliance  
[460 West 34th Street – 17th floor](#)  
[New York, NY 10001](#)

1.212.380.4497 (direct)  
[REDACTED] (mobile)  
1.212.380.4465 (fax)  
[www.ecohealthalliance.org](http://www.ecohealthalliance.org)



*EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems.  
With this science we develop solutions that promote conservation and prevent pandemics.*

**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Fri, 15 Jun 2018 13:46:10 -0400  
**Subject:** Fwd: PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert  
**To:** Kirsten Gilardi <kgilardi@ucdavis.edu>, bbbird@ucdavis.edu, Jonna Mazet <jkmazet@ucdavis.edu>, djwolving@ucdavis.edu, [REDACTED], [REDACTED], [REDACTED], [REDACTED] "Lisa Kramer (Nairobi/EA/RHH)" <lkramer@usaid.gov>, rgreene@usaid.gov, Dennis Carroll <dcarroll@usaid.gov>, spaige@usaid.gov, alongwagar@usaid.gov, akibria@usaid.gov, "Subhash Morzaria (FAORAP)" <[REDACTED]>, "Priya Markanday (TCES)" <[REDACTED]>, Angela Wang <awang@usaid.gov>, rechalar@usaid.gov, [REDACTED], Antoine Delaitre <[REDACTED]>, [REDACTED]

FYI

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** [promed-edr@promedmail.org](mailto:promed-edr@promedmail.org)  
**Date:** June 15, 2018 at 7:34:26 PM GMT+2  
**To:** [promed-post@promedmail.org](mailto:promed-post@promedmail.org), [promed-edr-post@promedmail.org](mailto:promed-edr-post@promedmail.org), [promed-ahead-post@promedmail.org](mailto:promed-ahead-post@promedmail.org)  
**Subject:** PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert  
**Reply-To:** [promedNOREPLY@promedmail.org](mailto:promedNOREPLY@promedmail.org)

RIFT VALLEY FEVER - RWANDA (02): (EASTERN) BOVINE, SPREAD, ALERT

\*\*\*\*\*

A ProMED-mail post

<<http://www.promedmail.org>>

ProMED-mail is a program of the  
International Society for Infectious Diseases

<<http://www.isid.org>>

[1]

Date: Wed 13 Jun 2018

Source: OSAC (US Department of State, Bureau Diplomatic Security)

Health alert [edited]

<<https://www.osac.gov/Pages/ContentReportPDF.aspx?cid=24268>>

Health alert: Kigali (Rwanda), Rift Valley fever outbreak in Eastern province

-----  
Location: Ngoma, Kirehe, and Kyonza districts, Eastern province, Rwanda

Event: The US Embassy in Kigali wishes to inform American citizens that the Rwandan Ministry of Agriculture has recently confirmed an outbreak of Rift Valley fever (RVF) in cattle in 3 districts of Eastern province: Ngoma, Kirehe, and Kyonza.

RVF is a viral disease that primarily affects animals but can also infect humans. While most human cases are relatively mild, a small percentage of patients develop a much more severe form of the disease,

including lesions in the eye, meningoencephalitis or haemorrhagic fever.

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<[promed@promedmail.org](mailto:promed@promedmail.org)>

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[2]

Date: Sun 10 Jun 2018

Source: Taarifa (Rwandan news media house) [summ., edited]

<<https://taarifa.rw/2018/06/10/livestock-movements-blocked-over-rift-valley-fever/>>

The 3 districts of Kayanza, Ngoma, and Kirehe have been placed under close monitoring following an outbreak of the deadly Rift Valley fever [RVF] disease.

Livestock in these districts are under quarantine and thus not allowed to be moved to other places.

The Agriculture Ministry has urged all herders across the country to immediately report any suspected cases of livestock including; goats, cattle, and sheep that show signs and symptoms.

Dr Gerardine Mukeshimana said, "all livestock in these districts are not allowed to be moved for purposes of slaughter, sell, or herding."

She said tests conducted by the Rwanda Agriculture Board (RAB) laboratory have confirmed positive the RVF disease.

The virus can be transmitted to humans through the handling of animal tissue during slaughtering or butchering, assisting with animal births, conducting veterinary procedures, or from the disposal of carcasses or fetuses.

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[During its periodic upsurges (usually, once per 10-15 years), the RVF virus is known to initially affect susceptible animals which become its disseminators, infecting additional animals and, often, humans as well. Infected animals are the source for subsequent human infection.

So far, during the current RVF event, no diagnosed human cases have been reported from Rwanda. This is in contrast with the situation seen in other African countries, where RVF epidemics have traditionally been heralded by human cases, with animal cases diagnosed belatedly.

RVF is currently circulating in at least 2 other countries in eastern/southern Africa, namely Kenya and South Africa.

Maps of Rwanda:



<<http://www.nationsonline.org/oneworld/map/rwanda-admin-map.htm>> and  
<<http://healthmap.org/promed/p/15277>>. -Mod.AS]

[See Also:

Rift Valley fever - Rwanda: (ES) bovine

<http://promedmail.org/post/20180609.5846453>

Rift Valley fever - Kenya (03): (WJ) camel, human, OIE

<http://promedmail.org/post/20180609.5847976>

Rift Valley fever - Kenya (02): (WJ) susp

<http://promedmail.org/post/20180609.5847216>

Rift valley fever - Kenya: alert, prevention

<http://promedmail.org/post/20180531.5830703>

Rift Valley fever - South Sudan (09): (EL) human, animal, WHO

<http://promedmail.org/post/20180410.5735975>

Rift Valley fever - South Sudan (08): (EL) animal, human, WHO, FAO

<http://promedmail.org/post/20180313.5683274>

Rift Valley fever - South Sudan (07): (EL)

<http://promedmail.org/post/20180312.5682186>

Rift Valley fever - South Sudan (06): (EL) livestock, RFI

<http://promedmail.org/post/20180310.5678018>

Rift Valley fever - South Sudan (05): (EL) bovine, OIE

<http://promedmail.org/post/20180309.5675819>

Rift Valley fever - South Sudan (04): (EL)

<http://promedmail.org/post/20180309.5675244>

Rift Valley fever - South Sudan (03): (EL)

<http://promedmail.org/post/20180206.5611318>

Rift Valley fever - South Sudan (02): (EL)

<http://promedmail.org/post/20180130.5595636>

Rift Valley fever - South Sudan: (EB) WHO, susp, RFI

<http://promedmail.org/post/20180119.5568536>

Undiagnosed hemorrhagic illness - South Sudan: (EL) fatal

<http://promedmail.org/post/20180109.5545676>

Rift Valley fever - Gambia: (BJ) WHO

<http://promedmail.org/post/20180124.5582524>

Rift Valley fever - Uganda

<http://promedmail.org/post/20180124.5582417>

2017

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Rift Valley fever - Europe: vector competence

<http://promedmail.org/post/20170811.5243601>

Rift Valley fever - Nigeria: livestock, serology, OIE

<http://promedmail.org/post/20170727.5209912>

Rift Valley fever - Mali (02): (KK)

<http://promedmail.org/post/20170721.5195838>

Rift Valley fever - Mauritania: RFI

<http://promedmail.org/post/20170605.5085590>

Rift Valley fever - Niger: livestock, human, risk assessment, FAO

<http://promedmail.org/post/20170404.4947846>

Rift Valley fever - Mali: (GO) ovine, caprine, OIE

<http://promedmail.org/post/20170128.4799130>

2016

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Rift Valley fever - Niger (05): (TH)

<http://promedmail.org/post/20161121.4643103>

Rift Valley fever - Niger (04): (TH)

<http://promedmail.org/post/20161014.4560906>

Rift Valley fever - Niger (03): (TH) livestock, human  
<http://promedmail.org/post/20160929.4525684>

Rift Valley fever - Niger (02): (TH), livestock, human,  
<http://promedmail.org/post/20160922.4506785>

Rift Valley fever - Niger: (TH) livestock, OIE  
<http://promedmail.org/post/20160920.4501514>

Undiagnosed deaths, camels - Kenya: (MB) RFI  
<http://promedmail.org/post/20160128.3973561>

2013

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Rift Valley Fever, Sheep, goat and Camelidae - Mauritania, Senegal:  
OIE <http://promedmail.org/post/20131018.2008030>

2011

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Rift Valley fever - South Africa (05): ovine, vaccine policy  
<http://promedmail.org/post/20110201.0377>

Rift Valley fever - South Africa (04): camelidae  
<http://promedmail.org/post/20110201.0374>

Rift Valley fever - South Africa (03): livestock, OIE, vaccination,  
<http://promedmail.org/post/20110129.0350>

Rift Valley fever - South Africa (02): ovine, vaccination, RFI  
<http://promedmail.org/post/20110125.0304>

Rift Valley fever - South Africa: (WC) ovine OIE  
<http://promedmail.org/post/20110119.0224>

Undiagnosed disease, camel - Kenya: RFI  
<http://promedmail.org/post/20110222.0586>

2010

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Rift Valley fever, animal - South Africa (02): control strategy  
<http://promedmail.org/post/20100606.1886>

Rift Valley fever - Kenya: alert, prevention  
<http://promedmail.org/post/20100520.1675>

2008

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Rift Valley fever - Kenya (02): (NE), alert, prevention  
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Rift Valley fever - Kenya: multiple virus lineages  
<http://promedmail.org/post/20080915.2881>

.....arn/mj/jh

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#####

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**From:** Kirsten Gilardi <kvgilardi@ucdavis.edu>  
**To:** Lisa Kramer <lkramer@usaid.gov>  
**Cc:** [REDACTED], Mike Cranfield <[REDACTED]>, jnziza [REDACTED], [REDACTED], Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Dennis Carroll <dcarroll@usaid.gov>, "akibria@usaid.gov" <akibria@usaid.gov>, Angela Wang <awang@usaid.gov>, Richard Munyaneza <rmunyaneza@usaid.gov>, John Mckay <jmckay@usaid.gov>, Sarah Paige <sipaige@usaid.gov>, Andrew Clements <aclements@usaid.gov>, Marilyn Crane <mcrane@usaid.gov>, Katey Pelican <pelicank@umn.edu>, irwego <irwego@umn.edu>, Irene Naigaga [REDACTED], William Bazeyo <[REDACTED]>, Etienne Rugigana <[REDACTED]>, Robert Kibuuka <[REDACTED]>  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda  
**Sent:** Mon, 18 Jun 2018 15:37:05 +0000

Lisa, thank you for organizing. I will plan to join the call from here in California: 7 am for me, 4 pm in Kigali. Please send call-in information. -Kirsten

On Jun 18, 2018, at 4:14 AM, Lisa Kramer <[lkramer@usaid.gov](mailto:lkramer@usaid.gov)> wrote:

Dear Richard, Yilma, Charles, Julius, Mike, and Kirsten

I would like to bring all of you together on one email to discuss collaboration in providing support to the GoR for response to the RVF outbreak. I understand that the GoR and particularly Dr. Gafarasi has had discussions with both FAO and PREDICT2 about the outbreak and the GoR has sent a formal request for support to FAO. I suggest that a few key individuals from each organization be on call later this week to discuss and that we all agree to promoting a One Health response to the outbreak while documenting lessons for strengthened GoR OHSC collaboration for future zoonotic disease events. Would 4:00 pm Kigali time on Wednesday work?

I have added representatives from OHCEA and OHW to this email because outbreak responses such as this have presented good opportunities in other countries to involve students in the outbreak response. In the other countries, this has been a win-win with the government response team gaining extra labor and the students enhancing their One Health field training.

Best,  
Lisa

**Lisa Kramer**  
Regional Emerging Pandemic Threats Advisor  
USAID/Kenya and East Africa  
+254-20-862-2107 (Office)  
[REDACTED]

On Fri, Jun 15, 2018 at 10:01 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Thank you for forwarding Andrew.  
Our PREDICT Country Coordinator, Dr. Julius Nziza (cc'd), has been in close communication with the Head of Veterinary Services for the Rwanda Agriculture Board, Dr. Isidore Gafarasi, who has confirmed deaths in cattle and goats in the Eastern Province. RAB veterinarians are implementing a vaccination campaign in the outbreak area to limit spread. The Rwanda Biomedical Center (the Ministry of Health's implementation arm) is in the region interviewing families who have lost livestock and is collecting samples for testing at the RBC's National Reference Laboratory (our diagnostic lab partner for PREDICT). Finally, the Rwanda Development Board's chief wildlife veterinarian, Dr. Antoine Mudakikwa, is on his way to the national park in the Eastern Province, Akagera, to meet with park management and inquire about any wildlife mortality.

Our PREDICT team is being kept informed through our participation on the Rwanda One Health Steering Committee and through our PREDICT government partners.

We will of course let you know if PREDICT receives any kind of formal request from the Government of Rwanda.

-Kirsten Gilardi, DVM  
Regional Lead, PREDICT Rwanda

On Jun 15, 2018, at 10:46 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

FYI

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** [promed-edr@promedmail.org](mailto:promed-edr@promedmail.org)  
**Date:** June 15, 2018 at 7:34:26 PM GMT+2  
**To:** [promed-post@promedmail.org](mailto:promed-post@promedmail.org), [promed-edr-post@promedmail.org](mailto:promed-edr-post@promedmail.org), [promed-ahead-post@promedmail.org](mailto:promed-ahead-post@promedmail.org)  
**Subject:** PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert  
**Reply-To:** [promedNOREPLY@promedmail.org](mailto:promedNOREPLY@promedmail.org)

RIFT VALLEY FEVER - RWANDA (02): (EASTERN) BOVINE, SPREAD,  
ALERT

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A ProMED-mail post  
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ProMED-mail is a program of the  
International Society for Infectious Diseases  
<<http://www.isid.org>>

[1]  
Date: Wed 13 Jun 2018  
Source: OSAC (US Department of State, Bureau Diplomatic Security)  
Health alert [edited]  
<<https://www.osac.gov/Pages/ContentReportPDF.aspx?cid=24268>>

Health alert: Kigali (Rwanda), Rift Valley fever outbreak in Eastern  
province

-----  
Location: Ngoma, Kirehe, and Kyonza districts, Eastern province,  
Rwanda

Event: The US Embassy in Kigali wishes to inform American citizens  
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Date: Sun 10 Jun 2018  
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<<http://www.nationsonline.org/oneworld/map/rwanda-admin-map.htm>> and  
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[See Also:

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Rift Valley fever - South Africa (04): camelidae

<http://promedmail.org/post/20110201.0374>

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<http://promedmail.org/post/20110129.0350>

Rift Valley fever - South Africa (02): ovine, vaccination, RFI

<http://promedmail.org/post/20110125.0304>

Rift Valley fever - South Africa: (WC) ovine OIE

<http://promedmail.org/post/20110119.0224>

Undiagnosed disease, camel - Kenya: RFI

<http://promedmail.org/post/20110222.0586>

2010

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Rift Valley fever - Kenya: alert, prevention

<http://promedmail.org/post/20100520.1675>

2008

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Rift Valley fever - Kenya (02): (NE), alert, prevention

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Rift Valley fever - Kenya: multiple virus lineages

<http://promedmail.org/post/20080915.2881>

.....arn/mj/jh

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**From:** Ashna Kibria <akibria@usaid.gov>  
**Sent:** Wed, 20 Jun 2018 16:57:10 -0400  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda  
**To:** "Bebay, Charles (FAOCG)" <[REDACTED]>, Lisa Kramer <lkramer@usaid.gov>, "Makonnen, Yilma (FAOKE)" <[REDACTED]>, Mike Cranfield <[REDACTED]>, jnziza <[REDACTED]>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Dennis Carroll <dcarroll@usaid.gov>, Angela Wang <awang@usaid.gov>, Richard Munyaneza <rmunyaneza@usaid.gov>, John Mckay <jmckay@usaid.gov>, Sarah Paige <spaige@usaid.gov>, Andrew Clements <aclements@usaid.gov>, Marilyn Crane <mcrane@usaid.gov>, Katey Pelican <pelicank@umn.edu>, irwego <irwego@umn.edu>, Irene Naigaga <[REDACTED]>, William Bazeyo <[REDACTED]>, Etienne Rugigana <[REDACTED]>, Robert Kibuuka <[REDACTED]>, "Elidrissi, Ahmed (SP5)" <[REDACTED]>, Kirsten Gilardi <kgilardi@ucdavis.edu>, Omer Njajou <[REDACTED]>  
[Rwanda RVF call.docx](#)

Hi everyone,

Thanks for a productive discussion earlier today, despite the phone line issues. I've attached the notes from the RVF coordination call --please loop in anyone I have missed.

As discussed, going forward, since FAO received a support request from GOR they will be in the "driver's seat" on this so to speak and will coordinate with other EPT-2 partners, keeping us all informed. I've included a number of action items here for everyone so please take a look and feel free to add in any points I've missed.

Thanks,  
Ashna

On Wed, Jun 20, 2018 at 5:28 AM, Bebay, Charles (FAOCG) <[REDACTED]> wrote:

Dear Lisa,

Thank you for suggesting this coordination call. Kindly be informed that Ahmed, Senior Animal Health Officer at FAO HQ and I will participate.

Kindest regards,

Charles

**From:** Lisa Kramer [mailto:[lkramer@usaid.gov](mailto:lkramer@usaid.gov)]  
**Sent:** mardi 19 juin 2018 10:37  
**To:** Kirsten Gilardi <[kgilardi@ucdavis.edu](mailto:kgilardi@ucdavis.edu)>  
**Cc:** Makonnen, Yilma (FAOKE) <[REDACTED]>; Mike Cranfield <[REDACTED]>; jnziza <[REDACTED]>; Bebay, Charles (FAOCG) <[REDACTED]>; Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>; David John Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>; Dennis Carroll <[dcarroll@usaid.gov](mailto:dcarroll@usaid.gov)>; [akibria@usaid.gov](mailto:akibria@usaid.gov); Angela Wang <[awang@usaid.gov](mailto:awang@usaid.gov)>; Richard Munyaneza <[rmunyaneza@usaid.gov](mailto:rmunyaneza@usaid.gov)>; John Mckay <[jmckay@usaid.gov](mailto:jmckay@usaid.gov)>; Sarah Paige <[spaige@usaid.gov](mailto:spaige@usaid.gov)>; Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>; Marilyn Crane <[mcrane@usaid.gov](mailto:mcrane@usaid.gov)>; Katey Pelican <[pelicank@umn.edu](mailto:pelicank@umn.edu)>; irwego <[irwego@umn.edu](mailto:irwego@umn.edu)>; Irene Naigaga <[REDACTED]>; William Bazeyo <[REDACTED]>; Etienne Rugigana <[REDACTED]>; Robert Kibuuka <[REDACTED]>  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda

Thanks Kirsten. The call in details are included in the calendar invite and adding here as well.

Lisa



International: +1

Participant Code

REDACTED

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

REDACTED

On Mon, Jun 18, 2018 at 6:37 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

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On Jun 18, 2018, at 4:14 AM, Lisa Kramer <[lkramer@usaid.gov](mailto:lkramer@usaid.gov)> wrote:

Dear Richard, Yilma, Charles, Julius, Mike, and Kirsten

I would like to bring all of you together on one email to discuss collaboration in providing support to the GoR for response to the RVF outbreak. I understand that the GoR and particularly Dr. Gafarasi has had discussions with both FAO and PREDICT2 about the outbreak and the GoR has sent a formal request for support to FAO. I suggest that a few key individuals from each organization be on call later this week to discuss and that we all agree to promoting a One Health response to the outbreak while documenting lessons for strengthened GoR OHSC collaboration for future zoonotic disease events. Would 4:00 pm Kigali time on Wednesday work?

I have added representatives from OHCEA and OHW to this email because outbreak responses such as this have presented good opportunities in other countries to involve students in the outbreak response. In the other countries, this has been a win-win with the government response team gaining extra labor and the students enhancing their One Health field training.

Best,

Lisa

UCDUSR0008720

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

**REDACTED**

On Fri, Jun 15, 2018 at 10:01 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Thank you for forwarding Andrew.

Our PREDICT Country Coordinator, Dr. Julius Nziza (cc'd), has been in close communication with the Head of Veterinary Services for the Rwanda Agriculture Board, Dr. Isidore Gafarasi, who has confirmed deaths in cattle and goats in the Eastern Province. RAB veterinarians are implementing a vaccination campaign in the outbreak area to limit spread. The Rwanda Biomedical Center (the Ministry of Health's implementation arm) is in the region interviewing families who have lost livestock and is collecting samples for testing at the RBC's National Reference Laboratory (our diagnostic lab partner for PREDICT). Finally, the Rwanda Development Board's chief wildlife veterinarian, Dr. Antoine Mudakikwa, is on his way to the national park in the Eastern Province, Akagera, to meet with park management and inquire about any wildlife mortality.

Our PREDICT team is being kept informed through our participation on the Rwanda One Health Steering Committee and through our PREDICT government partners.

We will of course let you know if PREDICT receives any kind of formal request from the Government of Rwanda.

-Kirsten Gilardi, DVM

Regional Lead, PREDICT Rwanda

On Jun 15, 2018, at 10:46 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

FYI



*Andrew P. Clements, Ph.D.*

*Senior Scientific Advisor*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** [promed-edr@promedmail.org](mailto:promed-edr@promedmail.org)

**Date:** June 15, 2018 at 7:34:26 PM GMT+2

**To:** [promed-post@promedmail.org](mailto:promed-post@promedmail.org), [promed-edr-post@promedmail.org](mailto:promed-edr-post@promedmail.org), [promed-ahead-post@promedmail.org](mailto:promed-ahead-post@promedmail.org)

**Subject:** PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert

**Reply-To:** [promedNOREPLY@promedmail.org](mailto:promedNOREPLY@promedmail.org)

RIFT VALLEY FEVER - RWANDA (02): (EASTERN) BOVINE, SPREAD,  
ALERT

\*\*\*\*\*

A ProMED-mail post

<<http://www.promedmail.org>>

ProMED-mail is a program of the  
International Society for Infectious Diseases

<<http://www.isid.org>>

[1]

Date: Wed 13 Jun 2018

Source: OSAC (US Department of State, Bureau Diplomatic Security)

Health alert [edited]

<<https://www.osac.gov/Pages/ContentReportPDF.aspx?cid=24268>>

Health alert: Kigali (Rwanda), Rift Valley fever outbreak in Eastern  
province

-----  
Location: Ngoma, Kirehe, and Kyonza districts, Eastern province,  
Rwanda

Event: The US Embassy in Kigali wishes to inform American citizens  
that the Rwandan Ministry of Agriculture has recently confirmed an  
outbreak of Rift Valley fever (RVF) in cattle in 3 districts of  
Eastern province: Ngoma, Kirehe, and Kyonza.

RVF is a viral disease that primarily affects animals but can also  
infect humans. While most human cases are relatively mild, a small  
percentage of patients develop a much more severe form of the disease,  
including lesions in the eye, meningoencephalitis or haemorrhagic  
fever.

--

Communicated by:

ProMED-mail

<[promed@promedmail.org](mailto:promed@promedmail.org)>

\*\*\*\*\*

[2]

Date: Sun 10 Jun 2018

Source: Taarifa (Rwandan news media house) [summ., edited]

<<https://taarifa.rw/2018/06/10/livestock-movements-blocked-over-rift-valley-fever/>>

The 3 districts of Kayonza, Ngoma, and Kirehe have been placed under close monitoring following an outbreak of the deadly Rift Valley fever [RVF] disease.

Livestock in these districts are under quarantine and thus not allowed to be moved to other places.

The Agriculture Ministry has urged all herders across the country to immediately report any suspected cases of livestock including; goats, cattle, and sheep that show signs and symptoms.

Dr Gerardine Mukeshimana said, "all livestock in these districts are not allowed to be moved for purposes of slaughter, sell, or herding."

She said tests conducted by the Rwanda Agriculture Board (RAB) laboratory have confirmed positive the RVF disease.

The virus can be transmitted to humans through the handling of animal tissue during slaughtering or butchering, assisting with animal births, conducting veterinary procedures, or from the disposal of carcasses or fetuses.

--

Communicated by:

ProMED-mail

<[promed@promedmail.org](mailto:promed@promedmail.org)>

[During its periodic upsurges (usually, once per 10-15 years), the RVF virus is known to initially affect susceptible animals which become its disseminators, infecting additional animals and, often, humans as well. Infected animals are the source for subsequent human infection.

So far, during the current RVF event, no diagnosed human cases have been reported from Rwanda. This is in contrast with the situation seen in other African countries, where RVF epidemics have traditionally been heralded by human cases, with animal cases diagnosed belatedly.

RVF is currently circulating in at least 2 other countries in eastern/southern Africa, namely Kenya and South Africa.

Maps of Rwanda:

<<http://www.nationsonline.org/oneworld/map/rwanda-admin-map.htm>> and  
<<http://healthmap.org/promed/p/15277>>. -Mod.AS]

[See Also:

Rift Valley fever - Rwanda: (ES) bovine

<http://promedmail.org/post/20180609.5846453>

Rift Valley fever - Kenya (03): (WJ) camel, human, OIE  
<http://promedmail.org/post/20180609.5847976>  
Rift Valley fever - Kenya (02): (WJ) susp  
<http://promedmail.org/post/20180609.5847216>  
Rift valley fever - Kenya: alert, prevention  
<http://promedmail.org/post/20180531.5830703>  
Rift Valley fever - South Sudan (09): (EL) human, animal, WHO  
<http://promedmail.org/post/20180410.5735975>  
Rift Valley fever - South Sudan (08): (EL) animal, human, WHO, FAO  
<http://promedmail.org/post/20180313.5683274>  
Rift Valley fever - South Sudan (07): (EL)  
<http://promedmail.org/post/20180312.5682186>  
Rift Valley fever - South Sudan (06): (EL) livestock, RFI  
<http://promedmail.org/post/20180310.5678018>  
Rift Valley fever - South Sudan (05): (EL) bovine, OIE  
<http://promedmail.org/post/20180309.5675819>  
Rift Valley fever - South Sudan (04): (EL)  
<http://promedmail.org/post/20180309.5675244>  
Rift Valley fever - South Sudan (03): (EL)  
<http://promedmail.org/post/20180206.5611318>  
Rift Valley fever - South Sudan (02): (EL)  
<http://promedmail.org/post/20180130.5595636>  
Rift Valley fever - South Sudan: (EB) WHO, susp, RFI  
<http://promedmail.org/post/20180119.5568536>  
Undiagnosed hemorrhagic illness - South Sudan: (EL) fatal  
<http://promedmail.org/post/20180109.5545676>  
Rift Valley fever - Gambia: (BJ) WHO  
<http://promedmail.org/post/20180124.5582524>  
Rift Valley fever - Uganda  
<http://promedmail.org/post/20180124.5582417>  
2017

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Rift Valley fever - Europe: vector competence  
<http://promedmail.org/post/20170811.5243601>  
Rift Valley fever - Nigeria: livestock, serology, OIE  
<http://promedmail.org/post/20170727.5209912>  
Rift Valley fever - Mali (02): (KK)  
<http://promedmail.org/post/20170721.5195838>  
Rift Valley fever - Mauritania: RFI  
<http://promedmail.org/post/20170605.5085590>  
Rift Valley fever - Niger: livestock, human, risk assessment, FAO  
<http://promedmail.org/post/20170404.4947846>  
Rift Valley fever - Mali: (GO) ovine, caprine, OIE  
<http://promedmail.org/post/20170128.4799130>  
2016

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Rift Valley fever - Niger (05): (TH)  
<http://promedmail.org/post/20161121.4643103>  
Rift Valley fever - Niger (04): (TH)  
<http://promedmail.org/post/20161014.4560906>  
Rift Valley fever - Niger (03): (TH) livestock, human  
<http://promedmail.org/post/20160929.4525684>  
Rift Valley fever - Niger (02): (TH), livestock, human,  
<http://promedmail.org/post/20160922.4506785>  
Rift Valley fever - Niger: (TH) livestock, OIE  
<http://promedmail.org/post/20160920.4501514>



Undiagnosed deaths, camels - Kenya: (MB) RFI  
<http://promedmail.org/post/20160128.3973561>  
2013

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Rift Valley Fever, Sheep, goat and Camelidae - Mauritania, Senegal:  
OIE <http://promedmail.org/post/20131018.2008030>  
2011

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Rift Valley fever - South Africa (05): ovine, vaccine policy  
<http://promedmail.org/post/20110201.0377>  
Rift Valley fever - South Africa (04): camelidae  
<http://promedmail.org/post/20110201.0374>  
Rift Valley fever - South Africa (03): livestock, OIE, vaccination,  
<http://promedmail.org/post/20110129.0350>  
Rift Valley fever - South Africa (02): ovine, vaccination, RFI  
<http://promedmail.org/post/20110125.0304>  
Rift Valley fever - South Africa: (WC) ovine OIE  
<http://promedmail.org/post/20110119.0224>  
Undiagnosed disease, camel - Kenya: RFI  
<http://promedmail.org/post/20110222.0586>  
2010

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Rift Valley fever, animal - South Africa (02): control strategy  
<http://promedmail.org/post/20100606.1886>  
Rift Valley fever - Kenya: alert, prevention  
<http://promedmail.org/post/20100520.1675>  
2008

-----  
Rift Valley fever - Kenya (02): (NE), alert, prevention  
<http://promedmail.org/post/20081114.3586>  
Rift Valley fever - Kenya: multiple virus lineages  
<http://promedmail.org/post/20080915.2881>

.....arn/mj/jh  
\*#####\*  
\*\*\*\*\*

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For assistance from a human being, send mail to:  
<[postmaster@promedmail.org](mailto:postmaster@promedmail.org)>.  
#####

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List-Unsubscribe: <http://ww4.isid.org/promedmail/subscribe.php>

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**Ashna Kibria, MPH**  
Public Health Advisor  
Emerging Threats Division  
**USAID**/Washington, Bureau for Global Health  
Phone: 571.551.7451 (office) | **REDACTED** (cell)  
Email: [akibria@usaid.gov](mailto:akibria@usaid.gov)



## RWANDA RVF CALL

### NOTES

- **Participants:**
  - USAID – Ashna Kibria, Lisa Kramer, Richard Munyaneza, John McKay, Sarah Paige, Angela Wang
  - FAO – Charles Bebay, Ahmed Eldrissy
  - OHW/OHCEA – Robert Kibuuka, Etienne Rugigana, Omer Njajou
  - PREDICT – Julius Nziza, Mike Cranfield, Kirsten Gillardi
- **Agenda:**
  - What work are partners doing in country?
  - What support is GOR requesting?
  - Where you see gaps?
  - What do you know about the outbreak?
- **PREDICT**
  - Julius met Dr. Gafarasi last week formally and will meet again tomorrow
  - No formal request made to PREDICT
  - RBC collected samples from the families who are affected and this is being tested at the national ref lab
  - Dr. Ivan has reported that all human samples tested negative for RVF
  - Kirsten - any formal request to PREDICT would need to go to the global team and be approved by the AOR
- **FAO**
  - On the ground GOR has started vaccination, media announcement, public education/comms
  - FAO has been asked for lab reagents (molecular testing) and also to provide PPE
  - Expecting Dr. Gafarasi/lab to provide details on protocols regarding size of people to determine PPE type
  - Made provision of 200 PPE for field work and 60 (or 16?) PPE for lab work
  - Gap -started vaccination and further need for more vaccines –does Rwanda have enough in this area?
- **OHW**
  - OHW was already on the ground with faculty during their field attachment
  - Had not planned for outbreak support, but heard at the field and agreed with GOR official to collaborate and support the campaign.
  - On Sunday met the vet officer of the province in Kayonza; OHW was introduced to village vets and provided all the necessary info about the vaccination campaign. Provided with info on the vaccination sites. On Monday they met with students to harmonize with the campaign.
  - On Tuesday covered 200 animals from the diff sectors that make up Kayonza, today did the same
  - Dr. Irimaso is in the field still they have covered 355 cattle, they have challenge of vaccines (not enough). Not yet able to vaccinate goats which are highly impacted.
  - Huge gap in vaccine and needle availability, manpower is lacking, transportation is not there
  - OHW is going to the vaccination sites and doing the mass vaccination campaign; it is not a focused vaccination campaign
- Which vaccine is being used? Maybe RiVac
- Is it affecting small ruminants?

- What is the full picture of the response plan? We don't have a full picture of the overall strategy for the country, unclear if this is in line with a national strategy or just being implemented by the affected district vets
- Can partners reach out to GOR and find out the full scope of the strategy/response?
- Can other resources be brought on –e.g. ILRI developed a video that's being shared by whatsapp
- FAO/Ahmed is working with colleagues in Rwanda already
  - This morning they thought they were only doing ring vaccination, but understood now that its mass vaccination but lacking enough vaccines
  - Small ruminants are having abortions
  - Will work with GOR to put together a comprehensive strategy in terms of response strategy and communication strategy
  - Has Prof. Getachew arrived in Rwanda? He should be there end of this week or next week.
  - If getachew can't get there in a few days FAO needs to deploy someone else there
- Lisa –use this to advance their OH coordination
  - Gafarasi is critical as a vet service member but also in OH
  - FAO to be in the driver's seat (incident coordination group) and keep everyone informed, including CDC
- Ashna
  - Current gaps are vaccines, manpower, etc.
  - When will Getachew arrive? If not, will FAO send someone else?
  - Also FAO can you reach out directly to CDC to coordinate RVF support?
  - Ashna will send notes with list of participants –please keep us all in the loop.
- Richard, USAID/Rwanda –
  - Thanked everyone for their work and for keeping the mission in the loop
  - Just came from CDC meeting, health unit etc - GOR has requested support from CDC to contain RVF
  - Richard has joined; will share CDC contacts with FAO
- Ahmed
  - Which animal species? Where exactly? This info needed to know which vaccine and how much needed
- Julius/PREDICT requested that FAO talk to OHSC and reemphasize that this affects all partners; added that Gafarasi will know numbers
- Robert
  - OHW is leaving Friday and after that will not have local presence in the area
- **Next Steps**
  - FAO please find out more info and coordinate with Gafarasi
  - FAO to be in the lead on this, keeping all partners in the loop (email everyone included in the phone call)
  - Lisa will be on TDY next week in Kigali and can meet with the EPT/GOR team as needed; please let her know if there's any role for her on this to be supportive
  - Richard will share more info from CDC on the GOR request
- This outbreak could be a good opportunity to support one health in Rwanda, and all projects should consider documenting their support so we can eventually put together information on USAID response.



**From:** "Bebay, Charles (FAOCG)" <[REDACTED]>  
**To:** Ashna Kibria <akibria@usaid.gov>, Lisa Kramer <lkramer@usaid.gov>, "Makonnen, Yilma (FAOKE)" <[REDACTED]>, Mike Cranfield <[REDACTED]>, jnziza <[REDACTED]>, "Jonna Mazet" <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Dennis Carroll <dcarroll@usaid.gov>, Angela Wang <awang@usaid.gov>, "Richard Munyaneza" <rmunyaneza@usaid.gov>, John Mckay <jmckay@usaid.gov>, Sarah Paige <spaige@usaid.gov>, Andrew Clements <aclements@usaid.gov>, Marilyn Crane <mcrane@usaid.gov>, Katey Pelican <pelicank@umn.edu>, irwego <irwego@umn.edu>, Irene Naigaga <[REDACTED]>, William Bazeyo <[REDACTED]>, Etienne Rugigana <[REDACTED]>, "Robert Kibuuka" <[REDACTED]>, "Elldrissi, Ahmed (SP5)" <[REDACTED]>, Kirsten Gilardi <kvgilardi@ucdavis.edu>, "Omer Njajou" <[REDACTED]>  
**Cc:** [REDACTED]  
**Subject:** RE: Coordination for RVF Outbreak in Rwanda  
**Sent:** Thu, 21 Jun 2018 08:06:56 +0000  
[Rwanda RVF call\\_cb.docx](#)

Dear Ashna,

Thank you for minutes. Please find attached my little review. On another note, I just want to confirm that Dr Getachew here in copy arrived yesterday in Kigali.

Kindest regards,

C.

**From:** Ashna Kibria [mailto:akibria@usaid.gov]  
**Sent:** mercredi 20 juin 2018 21:57  
**To:** Bebay, Charles (FAOCG) <[REDACTED]>; Lisa Kramer <lkramer@usaid.gov>; Makonnen, Yilma (FAOKE) <[REDACTED]>; Mike Cranfield <[REDACTED]>; jnziza <[REDACTED]>; Jonna Mazet <jkmazet@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>; Dennis Carroll <dcarroll@usaid.gov>; Angela Wang <awang@usaid.gov>; Richard Munyaneza <rmunyaneza@usaid.gov>; John Mckay <jmckay@usaid.gov>; Sarah Paige <spaige@usaid.gov>; Andrew Clements <aclements@usaid.gov>; Marilyn Crane <mcrane@usaid.gov>; Katey Pelican <pelicank@umn.edu>; irwego <irwego@umn.edu>; Irene Naigaga <[REDACTED]>; William Bazeyo <[REDACTED]>; Etienne Rugigana <[REDACTED]>; Robert Kibuuka <[REDACTED]>; Elldrissi, Ahmed (SP5) <[REDACTED]>; Kirsten Gilardi <kvgilardi@ucdavis.edu>; Omer Njajou <[REDACTED]>  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda

Hi everyone,

Thanks for a productive discussion earlier today, despite the phone line issues. I've attached the notes from the RVF coordination call --please loop in anyone I have missed.

As discussed, going forward, since FAO received a support request from GOR they will be in the "driver's seat" on this so to speak and will coordinate with other EPT-2 partners, keeping us all informed. I've included a number of action items here for everyone so please take a look and feel free to add in any points I've missed.

Thanks,  
Ashna

On Wed, Jun 20, 2018 at 5:28 AM, Bebay, Charles (FAOCG) <[REDACTED]> wrote:

Dear Lisa,

Thank you for suggesting this coordination call. Kindly be informed that Ahmed, Senior Animal Health Officer at FAO HQ and I will participate.

Kindest regards,  
Charles

**From:** Lisa Kramer [mailto:lkramer@usaid.gov]  
**Sent:** mardi 19 juin 2018 10:37  
**To:** Kirsten Gilardi <kvgilardi@ucdavis.edu>  
**Cc:** Makonnen, Yilma (FAOKE) <[REDACTED]>; Mike Cranfield <[REDACTED]>; jnziza <[REDACTED]>; Bebay, Charles (FAOCG) <[REDACTED]>; Jonna Mazet <jkmazet@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>; Dennis Carroll <dcarroll@usaid.gov>; akibria@usaid.gov; Angela Wang <awang@usaid.gov>; Richard Munyaneza <rmunyaneza@usaid.gov>; John Mckay <jmckay@usaid.gov>; Sarah Paige <spaige@usaid.gov>; Andrew Clements <aclements@usaid.gov>; Marilyn Crane <mcrane@usaid.gov>; Katey Pelican <pelicank@umn.edu>; irwego <irwego@umn.edu>; Irene Naigaga <[REDACTED]>; William Bazeyo



**REDACTED** >; Etienne Rugigana <**REDACTED**>; Robert Kibuuka <**REDACTED**m>  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda

Thanks Kirsten. The call in details are included in the calendar invite and adding here as well.

Lisa

Toll-free dial-in number (US and Canada): **REDACTED**

International: +1

Participant Code: **REDACTED**

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

**REDACTED**

On Mon, Jun 18, 2018 at 6:37 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Lisa, thank you for organizing. I will plan to join the call from here in California: 7 am for me, 4 pm in Kigali. Please send call-in information. -Kirsten

On Jun 18, 2018, at 4:14 AM, Lisa Kramer <[lkramer@usaid.gov](mailto:lkramer@usaid.gov)> wrote:

Dear Richard, Yilma, Charles, Julius, Mike, and Kirsten

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I have added representatives from OHCEA and OHW to this email because outbreak responses such as this have presented good opportunities in other countries to involve students in the outbreak response. In the other countries, this has been a win-win with the government response team gaining extra labor and the students enhancing their One Health field training.

Best,  
Lisa

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

**REDACTED**

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Our PREDICT Country Coordinator, Dr. Julius Nziza (cc'd), has been in close communication with the



Head of Veterinary Services for the Rwanda Agriculture Board, Dr. Isidore Gafarasi, who has confirmed deaths in cattle and goats in the Eastern Province. RAB veterinarians are implementing a vaccination campaign in the outbreak area to limit spread. The Rwanda Biomedical Center (the Ministry of Health's implementation arm) is in the region interviewing families who have lost livestock and is collecting samples for testing at the RBC's National Reference Laboratory (our diagnostic lab partner for PREDICT). Finally, the Rwanda Development Board's chief wildlife veterinarian, Dr. Antoine Mudakikwa, is on his way to the national park in the Eastern Province, Akagera, to meet with park management and inquire about any wildlife mortality.

Our PREDICT team is being kept informed through our participation on the Rwanda One Health Steering Committee and through our PREDICT government partners.

We will of course let you know if PREDICT receives any kind of formal request from the Government of Rwanda.

-Kirsten Gilardi, DVM  
Regional Lead, PREDICT Rwanda

On Jun 15, 2018, at 10:46 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

FYI

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)  
Begin forwarded message:*

**From:** [promed-edr@promedmail.org](mailto:promed-edr@promedmail.org)

**Date:** June 15, 2018 at 7:34:26 PM GMT+2

**To:** [promed-post@promedmail.org](mailto:promed-post@promedmail.org), [promed-edr-post@promedmail.org](mailto:promed-edr-post@promedmail.org), [promed-ahead-post@promedmail.org](mailto:promed-ahead-post@promedmail.org)

**Subject:** PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert

**Reply-To:** [promedNOREPLY@promedmail.org](mailto:promedNOREPLY@promedmail.org)

RIFT VALLEY FEVER - RWANDA (02): (EASTERN) BOVINE, SPREAD,  
ALERT

\*\*\*\*\*

A ProMED-mail post

<<http://www.promedmail.org>>

ProMED-mail is a program of the  
International Society for Infectious Diseases

<<http://www.isid.org>>

[1]

Date: Wed 13 Jun 2018

Source: OSAC (US Department of State, Bureau Diplomatic Security)

Health alert [edited]

<<https://www.osac.gov/Pages/ContentReportPDF.aspx?cid=24268>>

Health alert: Kigali (Rwanda), Rift Valley fever outbreak in Eastern  
province

Location: Ngoma, Kirehe, and Kyonza districts, Eastern province, Rwanda

Event: The US Embassy in Kigali wishes to inform American citizens that the Rwandan Ministry of Agriculture has recently confirmed an outbreak of Rift Valley fever (RVF) in cattle in 3 districts of Eastern province: Ngoma, Kirehe, and Kyonza.

RVF is a viral disease that primarily affects animals but can also infect humans. While most human cases are relatively mild, a small percentage of patients develop a much more severe form of the disease, including lesions in the eye, meningoencephalitis or haemorrhagic fever.

--  
Communicated by:  
ProMED-mail  
<[promed@promedmail.org](mailto:promed@promedmail.org)>

\*\*\*\*\*  
[2]  
Date: Sun 10 Jun 2018  
Source: Taarifa (Rwandan news media house) [summ., edited]  
<<https://taarifa.rw/2018/06/10/livestock-movements-blocked-over-rift-valley-fever/>>

The 3 districts of Kayonza, Ngoma, and Kirehe have been placed under close monitoring following an outbreak of the deadly Rift Valley fever [RVF] disease.

Livestock in these districts are under quarantine and thus not allowed to be moved to other places.

The Agriculture Ministry has urged all herders across the country to immediately report any suspected cases of livestock including; goats, cattle, and sheep that show signs and symptoms.

Dr Gerardine Mukeshimana said, "all livestock in these districts are not allowed to be moved for purposes of slaughter, sell, or herding."

She said tests conducted by the Rwanda Agriculture Board (RAB) laboratory have confirmed positive the RVF disease.

The virus can be transmitted to humans through the handling of animal tissue during slaughtering or butchering, assisting with animal births, conducting veterinary procedures, or from the disposal of carcasses or fetuses.

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[During its periodic upsurges (usually, once per 10-15 years), the RVF virus is known to initially affect susceptible animals which become its disseminators, infecting additional animals and, often, humans as

well. Infected animals are the source for subsequent human infection.

So far, during the current RVF event, no diagnosed human cases have been reported from Rwanda. This is in contrast with the situation seen in other African countries, where RVF epidemics have traditionally been heralded by human cases, with animal cases diagnosed belatedly.

RVF is currently circulating in at least 2 other countries in eastern/southern Africa, namely Kenya and South Africa.

Maps of Rwanda:

<<http://www.nationsonline.org/oneworld/map/rwanda-admin-map.htm>> and  
<<http://healthmap.org/promed/p/15277>>. -Mod.AS]

[See Also:

Rift Valley fever - Rwanda: (ES) bovine

<http://promedmail.org/post/20180609.5846453>

Rift Valley fever - Kenya (03): (WJ) camel, human, OIE

<http://promedmail.org/post/20180609.5847976>

Rift Valley fever - Kenya (02): (WJ) susp

<http://promedmail.org/post/20180609.5847216>

Rift valley fever - Kenya: alert, prevention

<http://promedmail.org/post/20180531.5830703>

Rift Valley fever - South Sudan (09): (EL) human, animal, WHO

<http://promedmail.org/post/20180410.5735975>

Rift Valley fever - South Sudan (08): (EL) animal, human, WHO, FAO

<http://promedmail.org/post/20180313.5683274>

Rift Valley fever - South Sudan (07): (EL)

<http://promedmail.org/post/20180312.5682186>

Rift Valley fever - South Sudan (06): (EL) livestock, RFI

<http://promedmail.org/post/20180310.5678018>

Rift Valley fever - South Sudan (05): (EL) bovine, OIE

<http://promedmail.org/post/20180309.5675819>

Rift Valley fever - South Sudan (04): (EL)

<http://promedmail.org/post/20180309.5675244>

Rift Valley fever - South Sudan (03): (EL)

<http://promedmail.org/post/20180206.5611318>

Rift Valley fever - South Sudan (02): (EL)

<http://promedmail.org/post/20180130.5595636>

Rift Valley fever - South Sudan: (EB) WHO, susp, RFI

<http://promedmail.org/post/20180119.5568536>

Undiagnosed hemorrhagic illness - South Sudan: (EL) fatal

<http://promedmail.org/post/20180109.5545676>

Rift Valley fever - Gambia: (BJ) WHO

<http://promedmail.org/post/20180124.5582524>

Rift Valley fever - Uganda

<http://promedmail.org/post/20180124.5582417>

2017

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Rift Valley fever - Europe: vector competence

<http://promedmail.org/post/20170811.5243601>

Rift Valley fever - Nigeria: livestock, serology, OIE

<http://promedmail.org/post/20170727.5209912>

Rift Valley fever - Mali (02): (KK)

<http://promedmail.org/post/20170721.5195838>

Rift Valley fever - Mauritania: RFI



<http://promedmail.org/post/20170605.5085590>  
Rift Valley fever - Niger: livestock, human, risk assessment, FAO  
<http://promedmail.org/post/20170404.4947846>  
Rift Valley fever - Mali: (GO) ovine, caprine, OIE  
<http://promedmail.org/post/20170128.4799130>  
2016

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Rift Valley fever - Niger (05): (TH)  
<http://promedmail.org/post/20161121.4643103>  
Rift Valley fever - Niger (04): (TH)  
<http://promedmail.org/post/20161014.4560906>  
Rift Valley fever - Niger (03): (TH) livestock, human  
<http://promedmail.org/post/20160929.4525684>  
Rift Valley fever - Niger (02): (TH), livestock, human,  
<http://promedmail.org/post/20160922.4506785>  
Rift Valley fever - Niger: (TH) livestock, OIE  
<http://promedmail.org/post/20160920.4501514>  
Undiagnosed deaths, camels - Kenya: (MB) RFI  
<http://promedmail.org/post/20160128.3973561>  
2013

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Rift Valley Fever, Sheep, goat and Camelidae - Mauritania, Senegal:  
OIE <http://promedmail.org/post/20131018.2008030>  
2011

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Rift Valley fever - South Africa (05): ovine, vaccine policy  
<http://promedmail.org/post/20110201.0377>  
Rift Valley fever - South Africa (04): camelidae  
<http://promedmail.org/post/20110201.0374>  
Rift Valley fever - South Africa (03): livestock, OIE, vaccination,  
<http://promedmail.org/post/20110129.0350>  
Rift Valley fever - South Africa (02): ovine, vaccination, RFI  
<http://promedmail.org/post/20110125.0304>  
Rift Valley fever - South Africa: (WC) ovine OIE  
<http://promedmail.org/post/20110119.0224>  
Undiagnosed disease, camel - Kenya: RFI  
<http://promedmail.org/post/20110222.0586>  
2010

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Rift Valley fever, animal - South Africa (02): control strategy  
<http://promedmail.org/post/20100606.1886>  
Rift Valley fever - Kenya: alert, prevention  
<http://promedmail.org/post/20100520.1675>  
2008

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Rift Valley fever - Kenya (02): (NE), alert, prevention  
<http://promedmail.org/post/20081114.3586>  
Rift Valley fever - Kenya: multiple virus lineages  
<http://promedmail.org/post/20080915.2881>

.....arn/mj/jh  
\*#####\*  
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For assistance from a human being, send mail to:  
<[postmaster@promedmail.org](mailto:postmaster@promedmail.org)>.

#####  
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List-Unsubscribe: <http://ww4.isid.org/promedmail/subscribe.php>

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**Ashna Kibria, MPH**  
Public Health Advisor  
Emerging Threats Division  
**USAID**/Washington, Bureau for Global Health  
Phone: 571.551.7451 (office) | **REDACTED** (cell)  
Email: [akibria@usaid.gov](mailto:akibria@usaid.gov)



## RWANDA RVF CALL

### NOTES

- **Participants:**
  - USAID – Ashna Kibria, Lisa Kramer, Richard Munyaneza, John McKay, Sarah Paige, Angela Wang
  - FAO – Charles Bebay, Ahmed Eldrissi
  - OHW/OHCEA – Robert Kibuuka, Etienne Rugigana, Omer Njajou
  - PREDICT – Julius Nziza, Mike Cranfield, Kirsten Gillardi
- **Agenda:**
  - What work are partners doing in country?
  - What support is GOR requesting?
  - Where you see gaps?
  - What do you know about the outbreak?
- **PREDICT**
  - Julius met Dr. Gafarasi last week formally and will meet again tomorrow
  - No formal request made to PREDICT
  - RBC collected samples from the families who are affected and this is being tested at the national ref lab
  - Dr. Ivan has reported that all human samples tested negative for RVF
  - Kirsten - any formal request to PREDICT would need to go to the global team and be approved by the AOR
- **FAO**
  - On the ground GOR has started vaccination, media announcement, public education/comms
  - FAO has been asked for lab reagents (molecular testing) and also to provide PPE
  - Expecting Dr. Gafarasi/lab to provide details on protocols regarding size of people to determine PPE type
  - Made provision of 200 PPE for field work and 60 PPE for lab work
  - Gap -started vaccination and further need for more vaccines –does Rwanda have enough in this area?
- **OHW**
  - OHW was already on the ground with faculty during their field attachment
  - Had not planned for outbreak support, but heard at the field and agreed with GOR official to collaborate and support the campaign.
  - On Sunday met the vet officer of the province in Kayonza; OHW was introduced to village vets and provided all the necessary info about the vaccination campaign. Provided with info on the vaccination sites. On Monday they met with students to harmonize with the campaign.
  - On Tuesday covered 200 animals from the diff sectors that make up Kayonza, today did the same
  - Dr. Irimaso is in the field still they have covered 355 cattle, they have challenge of vaccines (not enough). Not yet able to vaccinate goats which are highly impacted.
  - Huge gap in vaccine and needle availability, manpower is lacking, transportation is not there
  - OHW is going to the vaccination sites and doing the mass vaccination campaign; it is not a focused vaccination campaign
- Which vaccine is being used? Maybe RiVac
- Is it affecting small ruminants?

- What is the full picture of the response plan? We don't have a full picture of the overall strategy for the country, unclear if this is in line with a national strategy or just being implemented by the affected district vets
- Can partners reach out to GOR and find out the full scope of the strategy/response?
- Can other resources be brought on –e.g. ILRI developed a video that's being shared by whatsapp
- FAO/Ahmed is working with colleagues in Rwanda already
  - This morning they thought they were only doing ring vaccination, but understood now that its mass vaccination but lacking enough vaccines
  - Small ruminants are having abortions
  - Will work with GOR to put together a comprehensive strategy in terms of response strategy and communication strategy
  - Has Prof. Getachew arrived in Rwanda? He should be there end of this week or next week.
  - If Getachew can't get there in a few days FAO needs to deploy someone else there
- Lisa –use this to advance their OH coordination
  - Gafarasi is critical as a vet service member but also in OH
  - FAO to be in the driver's seat (incident coordination group) and keep everyone informed, including CDC
- Ashna
  - Current gaps are vaccines, manpower, etc.
  - When will Getachew arrive? If not, will FAO send someone else?
  - Also FAO can you reach out directly to CDC to coordinate RVF support?
  - Ashna will send notes with list of participants –please keep us all in the loop.
- Richard, USAID/Rwanda –
  - Thanked everyone for their work and for keeping the mission in the loop
  - Just came from CDC meeting, health unit etc - GOR has requested support from CDC to contain RVF
  - Richard has joined; will share CDC contacts with FAO
- Ahmed
  - Which animal species? Where exactly? This info needed to know which vaccine and how much needed
- Julius/PREDICT requested that FAO talk to OHSC and reemphasize that this affects all partners; added that Gafarasi will know numbers
- Robert
  - OHW is leaving Friday and after that will not have local presence in the area
- **Next Steps**
  - FAO please find out more info and coordinate with Gafarasi
  - FAO to be in the lead on this, keeping all partners in the loop (email everyone included in the phone call)
  - Lisa will be on TDY next week in Kigali and can meet with the EPT/GOR team as needed; please let her know if there's any role for her on this to be supportive
  - Richard will share more info from CDC on the GOR request
- This outbreak could be a good opportunity to support one health in Rwanda, and all projects should consider documenting their support so we can eventually put together information on USAID response.



**From:** Richard Munyaneza <[rmunyaneza@usaid.gov](mailto:rmunyaneza@usaid.gov)>  
**Sent:** Thu, 21 Jun 2018 10:36:31 +0200  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda  
**To:** Ashna Kibria <[akibria@usaid.gov](mailto:akibria@usaid.gov)>  
**Cc:** "Bebay, Charles (FAOCG)" <[\[REDACTED\]](mailto:[REDACTED])>, Lisa Kramer <[lkramer@usaid.gov](mailto:lkramer@usaid.gov)>, "Makonnen, Yilma (FAOKE)" <[\[REDACTED\]](mailto:[REDACTED])>, Mike Cranfield <[\[REDACTED\]](mailto:[REDACTED])>, jnziza <[\[REDACTED\]](mailto:[REDACTED])>, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>, David John Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>, Dennis Carroll <[dcarroll@usaid.gov](mailto:dcarroll@usaid.gov)>, Angela Wang <[awang@usaid.gov](mailto:awang@usaid.gov)>, John Mckay <[jmckay@usaid.gov](mailto:jmckay@usaid.gov)>, Sarah Paige <[spaige@usaid.gov](mailto:spaige@usaid.gov)>, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>, Marilyn Crane <[mcrane@usaid.gov](mailto:mcrane@usaid.gov)>, Katey Pelican <[pelicank@umn.edu](mailto:pelicank@umn.edu)>, irwego <[irwego@umn.edu](mailto:irwego@umn.edu)>, Irene Naigaga <[\[REDACTED\]](mailto:[REDACTED])>, William Bazeyo <[\[REDACTED\]](mailto:[REDACTED])>, Etienne Rugigana <[\[REDACTED\]](mailto:[REDACTED])>, Robert Kibuuka <[\[REDACTED\]](mailto:[REDACTED])>, "Elldrissi, Ahmed (SP5)" <[\[REDACTED\]](mailto:[REDACTED])>, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)>, Omer Njajou <[\[REDACTED\]](mailto:[REDACTED])>

Thanks Ashna for sharing and I will get back you all if have something to share from my side after meeting with CDC.  
Richard

**Munyaneza Richard**  
Maternal, Newborn, Child Health and Family Planning (MNCH-FP) Specialist  
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T [x2809](tel:+250788314285) | M +250 (0)78 8314285  
USAID.gov | [rmunyaneza@usaid.gov](mailto:rmunyaneza@usaid.gov) | @USAIDRwanda

On Wed, Jun 20, 2018 at 10:57 PM, Ashna Kibria <[akibria@usaid.gov](mailto:akibria@usaid.gov)> wrote:

Hi everyone,

Thanks for a productive discussion earlier today, despite the phone line issues. I've attached the notes from the RVF coordination call --please loop in anyone I have missed.

As discussed, going forward, since FAO received a support request from GOR they will be in the "driver's seat" on this so to speak and will coordinate with other EPT-2 partners, keeping us all informed. I've included a number of action items here for everyone so please take a look and feel free to add in any points I've missed.

Thanks,  
Ashna

On Wed, Jun 20, 2018 at 5:28 AM, Bebay, Charles (FAOCG) <[\[REDACTED\]](mailto:[REDACTED])> wrote:

Dear Lisa,

Thank you for suggesting this coordination call. Kindly be informed that Ahmed, Senior Animal Health Officer at FAO HQ and I will participate.

Kindest regards,

Charles

**From:** Lisa Kramer [mailto:[lkramer@usaid.gov](mailto:lkramer@usaid.gov)]  
**Sent:** mardi 19 juin 2018 10:37  
**To:** Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)>  
**Cc:** Makonnen, Yilma (FAOKE) <[\[REDACTED\]](mailto:[REDACTED])>; Mike Cranfield <[\[REDACTED\]](mailto:[REDACTED])>; jnziza <[\[REDACTED\]](mailto:[REDACTED])>; Bebay, Charles (FAOCG) <[\[REDACTED\]](mailto:[REDACTED])>; Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>; David John Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>; Dennis Carroll <[dcarroll@usaid.gov](mailto:dcarroll@usaid.gov)>; akibria@usaid.gov; Angela Wang <[awang@usaid.gov](mailto:awang@usaid.gov)>; Richard Munyaneza <[rmunyaneza@usaid.gov](mailto:rmunyaneza@usaid.gov)>; John Mckay <[jmckay@usaid.gov](mailto:jmckay@usaid.gov)>; Sarah Paige <[spaige@usaid.gov](mailto:spaige@usaid.gov)>; Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>; Marilyn Crane <[mcrane@usaid.gov](mailto:mcrane@usaid.gov)>; Katey Pelican <[pelicank@umn.edu](mailto:pelicank@umn.edu)>; irwego <[irwego@umn.edu](mailto:irwego@umn.edu)>; Irene Naigaga <[\[REDACTED\]](mailto:[REDACTED])>; William Bazeyo <[\[REDACTED\]](mailto:[REDACTED])>; Etienne Rugigana <[\[REDACTED\]](mailto:[REDACTED])>; Robert Kibuuka <[\[REDACTED\]](mailto:[REDACTED])>  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda



Thanks Kirsten. The call in details are included in the calendar invite and adding here as well.

Lisa

Toll-free dial-in number (US and Canada): REDACTED

International: +1

Participant Code: REDACTED

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

+ REDACTED

On Mon, Jun 18, 2018 at 6:37 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Lisa, thank you for organizing. I will plan to join the call from here in California: 7 am for me, 4 pm in Kigali. Please send call-in information. -Kirsten

On Jun 18, 2018, at 4:14 AM, Lisa Kramer <[lkramer@usaid.gov](mailto:lkramer@usaid.gov)> wrote:

Dear Richard, Yilma, Charles, Julius, Mike, and Kirsten

I would like to bring all of you together on one email to discuss collaboration in providing support to the GoR for response to the RVF outbreak. I understand that the GoR and particularly Dr. Gafarasi has had discussions with both FAO and PREDICT2 about the outbreak and the GoR has sent a formal request for support to FAO. I suggest that a few key individuals from each organization be on call later this week to discuss and that we all agree to promoting a One Health response to the outbreak while documenting lessons for strengthened GoR OHSC collaboration for future zoonotic disease events. Would 4:00 pm Kigali time on Wednesday work?

I have added representatives from OHCEA and OHW to this email because outbreak responses such as this have presented good opportunities in other countries to involve students in the outbreak response. In the other countries, this has been a win-win with the government response team gaining extra labor and the students enhancing their One Health field training.

Best,

Lisa

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

**REDACTED**

On Fri, Jun 15, 2018 at 10:01 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Thank you for forwarding Andrew.

Our PREDICT Country Coordinator, Dr. Julius Nziza (cc'd), has been in close communication with the Head of Veterinary Services for the Rwanda Agriculture Board, Dr. Isidore Gafarasi, who has confirmed deaths in cattle and goats in the Eastern Province. RAB veterinarians are implementing a vaccination campaign in the outbreak area to limit spread. The Rwanda Biomedical Center (the Ministry of Health's implementation arm) is in the region interviewing families who have lost livestock and is collecting samples for testing at the RBC's National Reference Laboratory (our diagnostic lab partner for PREDICT). Finally, the Rwanda Development Board's chief wildlife veterinarian, Dr. Antoine Mudakikwa, is on his way to the national park in the Eastern Province, Akagera, to meet with park management and inquire about any wildlife mortality.

Our PREDICT team is being kept informed through our participation on the Rwanda One Health Steering Committee and through our PREDICT government partners.

We will of course let you know if PREDICT receives any kind of formal request from the Government of Rwanda.

-Kirsten Gilardi, DVM

Regional Lead, PREDICT Rwanda

On Jun 15, 2018, at 10:46 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

FYI

*Andrew P. Clements, Ph.D.*

*Senior Scientific Advisor*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** [promed-edr@promedmail.org](mailto:promed-edr@promedmail.org)

**Date:** June 15, 2018 at 7:34:26 PM GMT+2

**To:** [promed-post@promedmail.org](mailto:promed-post@promedmail.org), [promed-edr-post@promedmail.org](mailto:promed-edr-post@promedmail.org), [promed-ahead-post@promedmail.org](mailto:promed-ahead-post@promedmail.org)

**Subject:** PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert

**Reply-To:** [promedNOREPLY@promedmail.org](mailto:promedNOREPLY@promedmail.org)

RIFT VALLEY FEVER - RWANDA (02): (EASTERN) BOVINE, SPREAD,  
ALERT

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A ProMED-mail post

<<http://www.promedmail.org>>

ProMED-mail is a program of the  
International Society for Infectious Diseases

<<http://www.isid.org>>

[1]

Date: Wed 13 Jun 2018

Source: OSAC (US Department of State, Bureau Diplomatic Security)

Health alert [edited]

<<https://www.osac.gov/Pages/ContentReportPDF.aspx?cid=24268>>

Health alert: Kigali (Rwanda), Rift Valley fever outbreak in Eastern  
province

-----  
Location: Ngoma, Kirehe, and Kyonza districts, Eastern province,  
Rwanda

Event: The US Embassy in Kigali wishes to inform American citizens  
that the Rwandan Ministry of Agriculture has recently confirmed an  
outbreak of Rift Valley fever (RVF) in cattle in 3 districts of  
Eastern province: Ngoma, Kirehe, and Kyonza.

RVF is a viral disease that primarily affects animals but can also infect humans. While most human cases are relatively mild, a small percentage of patients develop a much more severe form of the disease, including lesions in the eye, meningoencephalitis or haemorrhagic fever.

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[2]

Date: Sun 10 Jun 2018

Source: Taarifa (Rwandan news media house) [summ., edited]

<<https://taarifa.rw/2018/06/10/livestock-movements-blocked-over-rift-valley-fever/>>

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Dr Gerardine Mukeshimana said, "all livestock in these districts are not allowed to be moved for purposes of slaughter, sell, or herding."

She said tests conducted by the Rwanda Agriculture Board (RAB) laboratory have confirmed positive the RVF disease.

The virus can be transmitted to humans through the handling of animal tissue during slaughtering or butchering, assisting with animal births, conducting veterinary procedures, or from the disposal of carcasses or fetuses.

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[During its periodic upsurges (usually, once per 10-15 years), the RVF virus is known to initially affect susceptible animals which become its disseminators, infecting additional animals and, often, humans as well. Infected animals are the source for subsequent human infection.

So far, during the current RVF event, no diagnosed human cases have been reported from Rwanda. This is in contrast with the situation seen in other African countries, where RVF epidemics have traditionally been heralded by human cases, with animal cases diagnosed belatedly.

RVF is currently circulating in at least 2 other countries in



eastern/southern Africa, namely Kenya and South Africa.

Maps of Rwanda:

<<http://www.nationsonline.org/oneworld/map/rwanda-admin-map.htm>> and  
<<http://healthmap.org/promed/p/15277>>. -Mod.AS]

[See Also:

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<http://promedmail.org/post/20180609.5846453>

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<http://promedmail.org/post/20180609.5847216>

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<http://promedmail.org/post/20180206.5611318>

Rift Valley fever - South Sudan (02): (EL)

<http://promedmail.org/post/20180130.5595636>

Rift Valley fever - South Sudan: (EB) WHO, susp, RFI

<http://promedmail.org/post/20180119.5568536>

Undiagnosed hemorrhagic illness - South Sudan: (EL) fatal

<http://promedmail.org/post/20180109.5545676>

Rift Valley fever - Gambia: (BJ) WHO

<http://promedmail.org/post/20180124.5582524>

Rift Valley fever - Uganda

<http://promedmail.org/post/20180124.5582417>

2017

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Rift Valley fever - Europe: vector competence

<http://promedmail.org/post/20170811.5243601>

Rift Valley fever - Nigeria: livestock, serology, OIE

<http://promedmail.org/post/20170727.5209912>

Rift Valley fever - Mali (02): (KK)

<http://promedmail.org/post/20170721.5195838>

Rift Valley fever - Mauritania: RFI

<http://promedmail.org/post/20170605.5085590>

Rift Valley fever - Niger: livestock, human, risk assessment, FAO

<http://promedmail.org/post/20170404.4947846>

Rift Valley fever - Mali: (GO) ovine, caprine, OIE

<http://promedmail.org/post/20170128.4799130>

2016

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Rift Valley fever - Niger (05): (TH)

<http://promedmail.org/post/20161121.4643103>

Rift Valley fever - Niger (04): (TH)

<http://promedmail.org/post/20161014.4560906>

Rift Valley fever - Niger (03): (TH) livestock, human

<http://promedmail.org/post/20160929.4525684>

Rift Valley fever - Niger (02): (TH), livestock, human,

<http://promedmail.org/post/20160922.4506785>

Rift Valley fever - Niger: (TH) livestock, OIE

<http://promedmail.org/post/20160920.4501514>

Undiagnosed deaths, camels - Kenya: (MB) RFI

<http://promedmail.org/post/20160128.3973561>

2013

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Rift Valley Fever, Sheep, goat and Camelidae - Mauritania, Senegal:

OIE <http://promedmail.org/post/20131018.2008030>

2011

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Rift Valley fever - South Africa (05): ovine, vaccine policy

<http://promedmail.org/post/20110201.0377>

Rift Valley fever - South Africa (04): camelidae

<http://promedmail.org/post/20110201.0374>

Rift Valley fever - South Africa (03): livestock, OIE, vaccination,

<http://promedmail.org/post/20110129.0350>

Rift Valley fever - South Africa (02): ovine, vaccination, RFI

<http://promedmail.org/post/20110125.0304>

Rift Valley fever - South Africa: (WC) ovine OIE

<http://promedmail.org/post/20110119.0224>

Undiagnosed disease, camel - Kenya: RFI

<http://promedmail.org/post/20110222.0586>

2010

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Rift Valley fever, animal - South Africa (02): control strategy

<http://promedmail.org/post/20100606.1886>

Rift Valley fever - Kenya: alert, prevention

<http://promedmail.org/post/20100520.1675>

2008

----

Rift Valley fever - Kenya (02): (NE), alert, prevention

<http://promedmail.org/post/20081114.3586>

Rift Valley fever - Kenya: multiple virus lineages

<http://promedmail.org/post/20080915.2881>

.....arn/mj/jh

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Emerging Threats Division  
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Phone: 571.551.7451 (office) | [571.213.6982](tel:571.213.6982) (cell)  
Email: [akibria@usaid.gov](mailto:akibria@usaid.gov)



**From:** Ashna Kibria <akibria@usaid.gov>  
**Sent:** Thu, 21 Jun 2018 08:14:02 -0400  
**Subject:** Re: Coordination for RVF Outbreak in Rwanda  
**To:** Robert Kibuuka <[REDACTED]>  
**Cc:** "Bebay, Charles (FAOCG)" <[REDACTED]>, Lisa Kramer <lkramer@usaid.gov>, "Makonnen, Yilma (FAOKE)" <[REDACTED]>, Mike Cranfield <[REDACTED]>, jnziza <[REDACTED]>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Dennis Carroll <dcarroll@usaid.gov>, Angela Wang <awang@usaid.gov>, Richard Munyaneza <rmunyaneza@usaid.gov>, John Mckay <jmckay@usaid.gov>, Sarah Paige <spaige@usaid.gov>, Andrew Clements <aclements@usaid.gov>, Marilyn Crane <mcrane@usaid.gov>, Katey Pelican <pelicank@umn.edu>, irwego <irwego@umn.edu>, Irene Naigaga <[REDACTED]>, William Bazeyo <[REDACTED]>, Etienne Rugigana <[REDACTED]>, "Elldrissi, Ahmed (SP5)" <[REDACTED]>, Kirsten Gilardi <kgvgilardi@ucdavis.edu>, Omer Njajou <[REDACTED]>

Robert, thank you for letting us know and for support the risk communication in the region.

Charles, thanks for the edits. I'm really glad to hear Dr. Getachew is now in Kigali and will be able to support FAO's RVF response efforts in-person. We look forward to hearing back from you after you talk to GOR about the remaining gaps and get specifics on the vaccine shortage.

Best,  
Ashna

On Thu, Jun 21, 2018 at 4:52 AM, Robert Kibuuka <[REDACTED]> wrote:

Thank you Ashna for the report.

Today one health workforce has not participated in the vaccination because of vaccine shortage. However, we are in the field carrying out public Health education campaigns about this outbreak and other identified challenges.

Thanks

On Wednesday, June 20, 2018, 4:58:56 PM EDT, Ashna Kibria <akibria@usaid.gov> wrote:

Hi everyone,  
Thanks for a productive discussion earlier today, despite the phone line issues. I've attached the notes from the RVF coordination call --please loop in anyone I have missed.

As discussed, going forward, since FAO received a support request from GOR they will be in the "driver's seat" on this so to speak and will coordinate with other EPT-2 partners, keeping us all informed. I've included a number of action items here for everyone so please take a look and feel free to add in any points I've missed.

Thanks,  
Ashna

On Wed, Jun 20, 2018 at 5:28 AM, Bebay, Charles (FAOCG) <[REDACTED]> wrote:

Dear Lisa,

Thank you for suggesting this coordination call. Kindly be informed that Ahmed, Senior Animal Health Officer at FAO HQ and I will participate.

Kindest regards,

Charles

**From:** Lisa Kramer [mailto:lkramer@usaid.gov]  
**Sent:** mardi 19 juin 2018 10:37



**To:** Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)>

**Cc:** Makonnen, Yilma (FAOKE) <[\[REDACTED\]](#)>; Mike Cranfield <[\[REDACTED\]](#)>; jnziza <[\[REDACTED\]](#)>; Bebay, Charles (FAOCCG) <[\[REDACTED\]](#)>; Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>; David John Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>; Dennis Carroll <[dcarroll@usaid.gov](mailto:dcarroll@usaid.gov)>; akibria@usaid.gov; Angela Wang <[awang@usaid.gov](mailto:awang@usaid.gov)>; Richard Munyaneza <[rmunyaneza@usaid.gov](mailto:rmunyaneza@usaid.gov)>; John Mckay <[jmckay@usaid.gov](mailto:jmckay@usaid.gov)>; Sarah Paige <[spaige@usaid.gov](mailto:spaige@usaid.gov)>; Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>; Marilyn Crane <[mcrane@usaid.gov](mailto:mcrane@usaid.gov)>; Katey Pelican <[pelicank@umn.edu](mailto:pelicank@umn.edu)>; irwego <[irwego@umn.edu](mailto:irwego@umn.edu)>; Irene Naigaga <[\[REDACTED\]](#)>; William Bazeyo <[\[REDACTED\]](#)>; Etienne Rugigana <[\[REDACTED\]](#)>; Robert Kibuuka <[\[REDACTED\]](#)>

**Subject:** Re: Coordination for RVF Outbreak in Rwanda

Thanks Kirsten. The call in details are included in the calendar invite and adding here as well.

Lisa

Toll-free dial-in number (US and Canada): [\[REDACTED\]](#)

International: +[\[REDACTED\]](#)  
Participant Code: [\[REDACTED\]](#)

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

[\[REDACTED\]](#)

On Mon, Jun 18, 2018 at 6:37 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Lisa, thank you for organizing. I will plan to join the call from here in California: 7 am for me, 4 pm in Kigali. Please send call-in information. - Kirsten

On Jun 18, 2018, at 4:14 AM, Lisa Kramer <[lkramer@usaid.gov](mailto:lkramer@usaid.gov)> wrote:

Dear Richard, Yilma, Charles, Julius, Mike, and Kirsten

I would like to bring all of you together on one email to discuss collaboration in providing support to the GoR for response to the RVF outbreak. I understand that the GoR and particularly Dr. Gafarasi has had discussions with both FAO and PREDICT2 about the outbreak and the GoR has sent a formal request for support to FAO. I suggest that a few key

individuals from each organization be on call later this week to discuss and that we all agree to promoting a One Health response to the outbreak while documenting lessons for strengthened GoR OHSC collaboration for future zoonotic disease events. Would 4:00 pm Kigali time on Wednesday work?

I have added representatives from OHCEA and OHW to this email because outbreak responses such as this have presented good opportunities in other countries to involve students in the outbreak response. In the other countries, this has been a win-win with the government response team gaining extra labor and the students enhancing their One Health field training.

Best,

Lisa

**Lisa Kramer**

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

**REDACTED**

On Fri, Jun 15, 2018 at 10:01 PM, Kirsten Gilardi <[kvgilardi@ucdavis.edu](mailto:kvgilardi@ucdavis.edu)> wrote:

Thank you for forwarding Andrew.

Our PREDICT Country Coordinator, Dr. Julius Nziza (cc'd), has been in close communication with the Head of Veterinary Services for the Rwanda Agriculture Board, Dr. Isidore Gafarasi, who has confirmed deaths in cattle and goats in the Eastern Province. RAB veterinarians are implementing a vaccination campaign in the outbreak area to limit spread. The Rwanda Biomedical Center (the Ministry of Health's implementation arm) is in the region interviewing families who have lost livestock and is collecting samples for testing at the RBC's National Reference Laboratory (our diagnostic lab partner for PREDICT). Finally, the Rwanda Development Board's chief wildlife veterinarian, Dr. Antoine Mudakikwa, is on his way to the national park in the Eastern Province, Akagera, to meet with park management and inquire about any wildlife mortality.

Our PREDICT team is being kept informed through our participation on the Rwanda One Health Steering Committee and through our PREDICT government partners.

We will of course let you know if PREDICT receives any kind of formal request from the Government of Rwanda.

-Kirsten Gilardi, DVM

Regional Lead, PREDICT Rwanda

On Jun 15, 2018, at 10:46 AM, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

UCDUSR0008750

FYI

*Andrew P. Clements, Ph.D.*

*Senior Scientific Advisor*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** [promed-edr@promedmail.org](mailto:promed-edr@promedmail.org)

**Date:** June 15, 2018 at 7:34:26 PM GMT+2

**To:** [promed-post@promedmail.org](mailto:promed-post@promedmail.org), [promed-edr-post@promedmail.org](mailto:promed-edr-post@promedmail.org), [promed-ahead-post@promedmail.org](mailto:promed-ahead-post@promedmail.org)

**Subject:** PRO/AH/EDR> Rift Valley fever - Rwanda (02): (ES) bovine, spread, alert

**Reply-To:** [promedNOREPLY@promedmail.org](mailto:promedNOREPLY@promedmail.org)

RIFT VALLEY FEVER - RWANDA (02): (EASTERN) BOVINE, SPREAD, ALERT

\*\*\*\*\*

A ProMED-mail post

<<http://www.promedmail.org>>

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International Society for Infectious Diseases

<<http://www.isid.org>>

[1]

Date: Wed 13 Jun 2018

Source: OSAC (US Department of State, Bureau Diplomatic Security)

Health alert [edited]

<<https://www.osac.gov/Pages/ContentReportPDF.aspx?cid=24268>>

Health alert: Kigali (Rwanda), Rift Valley fever outbreak in Eastern  
province

Location: Ngoma, Kirehe, and Kyonza districts, Eastern province,  
Rwanda

Event: The US Embassy in Kigali wishes to inform American citizens  
that the Rwandan Ministry of Agriculture has recently confirmed an  
outbreak of Rift Valley fever (RVF) in cattle in 3 districts of  
Eastern province: Ngoma, Kirehe, and Kyonza.

RVF is a viral disease that primarily affects animals but can also  
infect humans. While most human cases are relatively mild, a small  
percentage of patients develop a much more severe form of the disease,  
including lesions in the eye, meningoencephalitis or haemorrhagic  
fever.

--  
Communicated by:  
ProMED-mail  
<[promed@promedmail.org](mailto:promed@promedmail.org)>

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[2]

Date: Sun 10 Jun 2018

Source: Taarifa (Rwandan news media house) [summ., edited]

<<https://taarifa.rw/2018/06/10/livestock-movements-blocked-over-rift-valley-fever/>>

The 3 districts of Kayonza, Ngoma, and Kirehe have been placed under  
close monitoring following an outbreak of the deadly Rift Valley fever

UCDUSR0008751



[RVF] disease.

Livestock in these districts are under quarantine and thus not allowed to be moved to other places.

The Agriculture Ministry has urged all herders across the country to immediately report any suspected cases of livestock including; goats, cattle, and sheep that show signs and symptoms.

Dr Gerardine Mukeshimana said, "all livestock in these districts are not allowed to be moved for purposes of slaughter, sell, or herding."

She said tests conducted by the Rwanda Agriculture Board (RAB) laboratory have confirmed positive the RVF disease.

The virus can be transmitted to humans through the handling of animal tissue during slaughtering or butchering, assisting with animal births, conducting veterinary procedures, or from the disposal of carcasses or fetuses.

--  
Communicated by:  
ProMED-mail  
<[promed@promedmail.org](mailto:promed@promedmail.org)>

[During its periodic upsurges (usually, once per 10-15 years), the RVF virus is known to initially affect susceptible animals which become its disseminators, infecting additional animals and, often, humans as well. Infected animals are the source for subsequent human infection.

So far, during the current RVF event, no diagnosed human cases have been reported from Rwanda. This is in contrast with the situation seen in other African countries, where RVF epidemics have traditionally been heralded by human cases, with animal cases diagnosed belatedly.

RVF is currently circulating in at least 2 other countries in eastern/southern Africa, namely Kenya and South Africa.

Maps of Rwanda:  
<<http://www.nationsonline.org/ oneworld/map/rwanda-admin-map. htm>> and  
<<http://healthmap.org/promed/ p/15277>>. -Mod.AS]

[See Also:  
Rift Valley fever - Rwanda: (ES) bovine  
<http://promedmail.org/post/ 20180609.5846453>  
Rift Valley fever - Kenya (03): (WJ) camel, human, OIE  
<http://promedmail.org/post/ 20180609.5847976>  
Rift Valley fever - Kenya (02): (WJ) susp  
<http://promedmail.org/post/ 20180609.5847216>  
Rift valley fever - Kenya: alert, prevention  
<http://promedmail.org/post/ 20180531.5830703>  
Rift Valley fever - South Sudan (09): (EL) human, animal, WHO  
<http://promedmail.org/post/ 20180410.5735975>  
Rift Valley fever - South Sudan (08): (EL) animal, human, WHO, FAO  
<http://promedmail.org/post/ 20180313.5683274>  
Rift Valley fever - South Sudan (07): (EL)  
<http://promedmail.org/post/ 20180312.5682186>  
Rift Valley fever - South Sudan (06): (EL) livestock, RFI  
<http://promedmail.org/post/ 20180310.5678018>  
Rift Valley fever - South Sudan (05): (EL) bovine, OIE  
<http://promedmail.org/post/ 20180309.5675819>  
Rift Valley fever - South Sudan (04): (EL)  
<http://promedmail.org/post/ 20180309.5675244>  
Rift Valley fever - South Sudan (03): (EL)  
<http://promedmail.org/post/ 20180206.5611318>  
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<http://promedmail.org/post/20161014.4560906>  
Rift Valley fever - Niger (03): (TH) livestock, human  
<http://promedmail.org/post/20160929.4525684>  
Rift Valley fever - Niger (02): (TH), livestock, human,  
<http://promedmail.org/post/20160922.4506785>  
Rift Valley fever - Niger: (TH) livestock, OIE  
<http://promedmail.org/post/20160920.4501514>  
Undiagnosed deaths, camels - Kenya: (MB) RFI  
<http://promedmail.org/post/20160128.3973561>  
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OIE <http://promedmail.org/post/20131018.2008030>  
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<http://promedmail.org/post/20110201.0374>  
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<http://promedmail.org/post/20110125.0304>  
Rift Valley fever - South Africa: (WC) ovine OIE  
<http://promedmail.org/post/20110119.0224>  
Undiagnosed disease, camel - Kenya: RFI  
<http://promedmail.org/post/20110222.0586>  
2010

-----  
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<http://promedmail.org/post/20100520.1675>  
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Rift Valley fever - Kenya: multiple virus lineages  
<http://promedmail.org/post/20080915.2881>

.....arn/mj/jh  
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**From:** Molly Turner <turner@ecohealthalliance.org>  
**Sent:** Fri, 6 Jul 2018 09:44:56 -0400  
**To:** Hannah R Chale <hrchale@ucdavis.edu>  
**Cc:** "luciano@ecohealthalliance.org" <luciano@ecohealthalliance.org>, "sullivan@ecohealthalliance.org" <sullivan@ecohealthalliance.org>, "daszak@ecohealthalliance.org" <daszak@ecohealthalliance.org>, "ZimmermanD@si.edu" <ZimmermanD@si.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>  
**Subject:** [predict] Re: DUE JULY 13th - Q3Y4 PREDICT COST SHARE REPORT

Hey Hannah,  
We'll have this for you for next Friday. Are you aware of any updates regarding our revised cost share plan?

Thanks,  
Molly

On Thu, Jul 5, 2018 at 5:04 PM, Hannah R Chale <[hrchale@ucdavis.edu](mailto:hrchale@ucdavis.edu)> wrote:

Hello Everyone!

Please email me your Q3Y4 PREDICT Cost Share Report no later than COB Friday June 13<sup>th</sup>, 2018

Please let me know if you have any questions

Thank you!

**Hannah Chale**

Contracts & Grants Analyst

One Health Institute

University of California, Davis

**Cell – 530-219-9987**

<http://www.vetmed.ucdavis.edu/ohi/>

--  
**Molly Turner**  
*Federal Grants Coordinator  
EcoHealth Alliance Operations*

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New York, NY 10001

1.212.380.4461 (direct)

**REDACTED**

[www.ecohealthalliance.org](http://www.ecohealthalliance.org)

*EcoHealth Alliance leads cutting-edge scientific research into the critical connections between human and wildlife health and delicate ecosystems. With this science, we develop solutions that prevent pandemics and promote conservation.*



**From:** Elizabeth Leasure <ealeasure@UCDAVIS.EDU>  
**To:** Ryland Marbray <rmarbray@usaid.gov>  
**Cc:** "predictmgt@usaid.gov" <predictmgt@usaid.gov>, "Lisa Kramer (Nairobi/EA/RHH)" <lkramer@usaid.gov>, Andrew Clements <aclements@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>  
**Subject:** RE: OAA response on MOH Kenya  
**Sent:** Wed, 22 Aug 2018 00:42:08 +0000  
[PREDICT-2 HumanSurveillanceTravelForKEMRIemployee\\_Kenya.pdf](#)

Hi Ryland. Please find attached a request letter outlining travel costs paid to date for KEMRI employee Dr. Alan ol Kwallah for implementation of PREDICT-2 human surveillance activities in Kenya. If you have any questions or need additional information, please let me know.

Thanks!  
Liz

*Elizabeth Leasure*  
*Financial Operations Manager*  
*One Health Institute*  
[REDACTED] (cell)  
530-754-9034 (office)  
Skype: ealeasure

---

**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Wednesday, May 9, 2018 10:29 AM  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>; Elizabeth Leasure <ealeasure@UCDAVIS.EDU>; David John Wolking <djwolking@ucdavis.edu>  
**Cc:** predictmgt@usaid.gov; Lisa Kramer (Nairobi/EA/RHH) <lkramer@usaid.gov>  
**Subject:** OAA response on MOH Kenya

See below.

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: 1-571-345-4253*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*  
Begin forwarded message:

**From:** Ryland Marbray <[rmarbray@usaid.gov](mailto:rmarbray@usaid.gov)>  
**Date:** May 9, 2018 at 6:57:31 PM GMT+2  
**To:** Ashna Kibria <[akibria@usaid.gov](mailto:akibria@usaid.gov)>  
**Cc:** Patricia Bradley <[pbradley@usaid.gov](mailto:pbradley@usaid.gov)>, Cara Chrisman <[cchrisman@usaid.gov](mailto:cchrisman@usaid.gov)>, Amalhin Shek <[ashek@usaid.gov](mailto:ashek@usaid.gov)>, Alisa Pereira <[apereira@usaid.gov](mailto:apereira@usaid.gov)>, Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>  
**Subject: Re: Follow up actions from our call yesterday**

Hi Ashna,

Please find my response to the Kenya suspension questions in red below.  
Andrew please contract me if you have any questions since you are the AOR concerning this agreement.

Thanks,

Ryland Marbray

Agreement officer.

**A list of activities or assistance under the agreement that have been suspended:**

PREDICT/Kenya is currently working with Kenya Medical Research Institute (KEMRI) for the implementation of human surveillance. It is our understanding that KEMRI is a parastatal organization that is mandated by the Kenya government to undertake research on human subjects. The Cabinet Secretary to the MoH appoints the director and by extension the director of medical services is a member of the KEMRI management board to ensure regulations set are followed. To our knowledge, there isn't a shared budget between KEMRI and MoH.

Our PREDICT in-country IRB was approved by KEMRI in April 2017. Dr. Allan ole Kwallah is a KEMRI employee who is helping to implement PREDICT human surveillance activities. He is not paid by the project, but his field expenses for human surveillance (such as travel, per diem, etc.) are planned to be covered by PREDICT. We are also planning to utilize the KEMRI lab for human sample testing. KEMRI has agreed that a PREDICT staff technician can be placed at the institution to test samples; testing supplies will be purchased by PREDICT.

PREDICT's human surveillance plan includes engaging government hospitals for syndromic surveillance, for which they would be paid through an AO approved mechanism such as a subcontract for services. We additionally have identified private hospitals that may be suitable for engagement. **We would appreciate guidance from OAA at this time on whether engaging government hospitals in our syndromic surveillance plan will be affected by this suspension. Please advise.** *Please continue to engage government hospitals in the surveillance plan.*

An additional partner that PREDICT frequently consults with is the Zoonotic Disease Unit (ZDU). The ZDU was established by the MoH and the Ministry of Agriculture and Livestock to advise on zoonotic disease and the One Health approach to disease monitoring, surveillance and testing, prevention and control. The ZDU is mandated by the two parent ministries to come up with strategic guidelines and policies that establish and govern One Health in the country. We have been informed that from June 12-16, 2017, the ZDU will be undertaking a USAID-funded campaign against rabies, which we are hoping is an indicator that they will not be affected by this suspension. PREDICT does not formally engage or pay anyone from the ZDU, but they are frequent attendees to workshops, meetings, etc. and would be consultants on any outbreak events that PREDICT may be invited by the Government of Kenya to support.

PREDICT recognizes that under this suspension representatives of the MoH shall not be invited to project-hosted workshops, trainings, meetings, etc. nor shall PREDICT staff attend workshops, trainings, meetings, etc. hosted by the MoH. *(Note: PREDICT/Kenya is not considering employees of KEMRI or ZDU to be members of the MoH. Please advise if otherwise, as this has implications for future surveillance and testing plans.) This is correct. MOH shall not be invited to project-hosted workshops, training, meeting, etc. nor shall PREDICT staff attend workshops, training meeting etc hosted by MOH.*

**Any impact on personnel to include a list a personnel that have been terminated, furloughed, or temporarily suspended and costs thereof. Please include any severance anticipated to be paid.**

No MoH personnel have been hired by PREDICT/Kenya. *(Note: If permissible, PREDICT plans to pay travel expenses of Alan ol Kwallah, an employee of KEMRI who is assisting with human surveillance activities as noted above.) Please send me travel dates, cost, other travel expenses and objects in a request letter. i will review and provide a response at that point.*







# USAID | PREDICT

FROM THE AMERICAN PEOPLE

August 21, 2018

Mr. Ryland Marbray  
Agreements/Contracting Officer  
M/OAA/E3  
1300 Pennsylvania Ave., NW  
Washington, DC 20523

Dear Mr. Marbray,

Per your May 9, 2018 email response to our initial request for guidance regarding the Kenya MOH suspension in June 2017, please find below a breakdown of in-country travel costs incurred to date for Alan ol Kwallah, an employee of KEMRI who has assisted with PREDICT human surveillance activities in Kenya. With the exception of the first trip into the field in June 2017 where Dr. ol Kwallah drove his personal vehicle and was reimbursed 3,600 Kenyan Shillings (KSH) for fuel, all costs paid reflect per diem for Dr. ol Kwallah at the KEMRI rate of 12,000 KSH (120 USD at 100 KSH/1 USD) per day, which is well within the established federal limits for such costs.

Dates	# travel days	Per diem paid (KSH)	Per diem paid (USD)	Fuel costs paid (KSH)	Fuel costs paid (USD)	Total Cost (KSH)	Total Cost (USD)
June 2-11, 2017	10	120,000	\$ 1,200	3,600	\$ 36	123,600	\$ 1,236
September 27-October 3, 2017	8	96,000	\$ 960	-	\$ -	96,000	\$ 960
May 11-14, 2018	3	36,000	\$ 360	-	\$ -	36,000	\$ 360
May 19-21, 2018	3	36,000	\$ 360	-	\$ -	36,000	\$ 360
May 24-27, 2018	3	36,000	\$ 360	-	\$ -	36,000	\$ 360
		324,000	\$ 3,240	3,600	\$ 36	327,600	\$ 3,276

As you can see, long-planned field activities for human surveillance in Kenya were initiated the same day that notice of the Kenya MOH suspension was received by UC Davis as prime recipient (Kenya is 10 hours ahead). Once the initial trip was completed, additional trips into the field for human sampling were put on hold pending receipt of guidance from OAA. Field activities and the payment of travel costs for Dr. ol Kwallah resumed in September 2017, as to not do so would seriously impair our ability to complete our objectives by the end of the project in September 2019. The decision to resume these activities absent clear AO guidance was made in consultation with our AOR and based on our understanding of the relationship between KEMRI and the MOH of Kenya and the parameters of the suspension in place. At this time, we request your guidance as to whether or not any additional action is required on our part regarding payment of the travel expenses outlined above. If you have any questions or require any additional information, please let me know ([ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu), 530-754-9034).

Thank you,

Elizabeth Leasure  
PREDICT Financial Operations Manager  
UC Davis One Health Institute





**From:** [REDACTED]  
**To:** Cara Chrisman <cchrisman@usaid.gov>, "nwolfe@metabiota.com" <nwolfe@metabiota.com>, "erubin@metabiota.com" <erubin@metabiota.com>, Peter Daszak <daszak@ecohealthalliance.org>  
**Cc:** Jonna Mazet <jkmazet@ucdavis.edu>  
**Subject:** The Hive-quick note  
**Sent:** Thu, 13 Sep 2018 18:47:14 +0000

Hi all,

We checked the TEDMED Hive invite and Jonna's invitation is supposed to be secret, so we would appreciate it if you could keep the information internal.

Thanks and have a great day!

[REDACTED]

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Katherine Leasure <kaleasure@ucdavis.edu>  
**CC:** predictmgt@usaid.gov <predictmgt@usaid.gov>; Predict inbox <predict@ucdavis.edu>; Jonna Mazet <jkmazet@ucdavis.edu>  
**Sent:** 11/6/2018 12:51:32 AM  
**Subject:** Re: Change to Approved ITA (J. Lane - Date Change/Add Ethiopia)

Thanks, Katie. I approve subject to mission concurrence.

Cassandra: please let the Tanzania mission know of the change and ask the Ethiopia mission for concurrence. Thanks!

Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>

On Tue, Nov 6, 2018 at 3:17 AM Katherine Leasure <[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)> wrote:

Hi Andrew. The below travel for Jennie Lane has been rescheduled for late November/early December, with travel to Ethiopia added prior to her travel to Tanzania. The amended and previous ITAs are below; please let me know if you have any questions. Thanks!

#### ***AMENDED ITA:***

UC Davis would like to request travel approval for Jennifer Lane to travel from Davis, California, USA to Addis Ababa, Ethiopia from November 26 to December 1, 2018 to support the PREDICT Ethiopia team with concurrent human and wildlife laboratory activities. From Addis Ababa, Ethiopia she will travel to Bagamoyo and Morogoro, Tanzania from December 1-7, 2018 to work with the PREDICT Tanzania team on concurrent surveillance and community engagement activities, with a focus on wrapping up field work activities and planning for the final phase of laboratory testing and YR 5 work plan implementation. [\$3000 airfare/\$400 (Addis Ababa), \$157 (Bagamoyo), \$197 (Morogoro max daily per diems)].

**Trip purpose:** Ethiopia – Dr. Lane (PREDICT East Africa Field Veterinarian based at UC Davis) will provide programmatic support to the PREDICT Ethiopia team and country coordinator. She will work with partners, Addis Ababa University and the Ethiopian Public Health Institute, in their combined concurrent surveillance activities. Tanzania – Dr. Lane will provide programmatic support to the PREDICT Tanzania team and country coordinator. She will work with PREDICT implementing partners, Ifakara Health Institute and Sokoine University of Agriculture on ongoing laboratory and community engagement activities.

-

-

#### ***PREVIOUS ITA:***

UC Davis would like to request approval for Jennifer Lane to travel from Davis, California, USA to Bagamoyo and Morogoro, Tanzania from November 5-15, 2018 to support the PREDICT Tanzania team with concurrent human and wildlife surveillance and laboratory activities.

**Trip purpose:** Dr. Lane, PREDICT East Africa Field Veterinarian, will provide programmatic support to the

PREDICT Tanzania team and country coordinators during her trip. She will work with partners Sokoine University of Agriculture and the Ifakara Health Institute in their combined concurrent surveillance activities, with a focus on wrapping up field work activities and planning for the final phase of laboratory testing and YR 5 work plan implementation.

**Katherine Leasure**

One Health Institute

University of California, Davis

530-752-7526

530-752-3318 FAX

[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)

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You received this message because you are subscribed to the Google Groups "PREDICTMGT" group.

To unsubscribe from this group and stop receiving emails from it, send an email to

[predictmgt+unsubscribe@usaid.gov](mailto:predictmgt+unsubscribe@usaid.gov).

To post to this group, send email to [predictmgt@usaid.gov](mailto:predictmgt@usaid.gov).

To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/06f401d4756e%24378e44f0%24a6aaced0%24%40ucdavis.edu>.

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** David J Wolking <djwolking@ucdavis.edu>  
**CC:** Jonna Mazet <jkmazet@ucdavis.edu>; PREDICTMGT <predictmgt@usaid.gov>  
**Sent:** 11/26/2018 11:48:17 AM  
**Subject:** Re: additional thought for the semi-annual meeting....

Thanks, David.

Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>

On Mon, Nov 26, 2018 at 8:32 PM David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)> wrote:  
Hi Andrew,

I'm finally back from leave. Just wanted you to know I received this message and will certainly do my best to make sure we address this important factor in New York.

See you soon!

David

On Wed, Nov 21, 2018 at 6:41 AM Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:  
Hi Jonna and David,

During the data discussion, let's make sure to talk about what happens to the electronic information in the PREDICT website and healthmap once the project ends and USAID funds are no longer able to support these platforms.

Thanks!

Andrew

Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov)

For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>



**From:** "Tammie O'Rourke" <torourke@metabiota.com>  
**Sent:** Wed, 5 Dec 2018 13:54:50 -0800  
**Subject:** Re: [predict-surveillance] Surveillance team call this Thurs, Dec 6th @ 10am PT/1pm ET  
**To:** Megan M Doyle <mmdoyle@ucdavis.edu>  
**Cc:** predict-surveillance@ucdavis.edu, Catherine Machalaba <machalaba@ecohealthalliance.org>, "Karesh, William" <karesh@ecohealthalliance.org>, jkmazet <jkmazet@ucdavis.edu>  
[SpeciesNames\\_20181205.xlsx](#)

Hello team,  
I have attached the species list that I have prepared for discussion tomorrow. The rows highlighted in color need to be addressed by the team; I will explain further what the various colors mean on the call tomorrow.  
Tammie

On Tue, Dec 4, 2018 at 6:59 PM Megan M Doyle <[mmdoyle@ucdavis.edu](mailto:mmdoyle@ucdavis.edu)> wrote:

Hi PREDICT Surveillance Team,

Our next call (and last one for the year!) will be this Thurs, Dec 6<sup>th</sup> at 10am PT/1pm ET.

Please see agenda items below and let us know if you have others to add.

Join from PC, Mac, Linux, iOS or Android: **REDACTED**

Or iPhone one-tap :

US: + **REDACTED**

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: + **REDACTED**

Meeting ID: **REDACTED**

International numbers available: **REDACTED**

## Agenda

- Serology updates
  - CII virus list (attached)
- EIDITH
  - Data cleanup schedule
  - Data display needs
  - Species issues list

- Asia country updates
- Others?

--

Tammie O'Rourke

Metabiota

Senior Information Management Developer

Emerging Pandemic Threats - PREDICT Program

tel +1-250-618-2460

Produced in Native Format

**From:** David J Wolking <djwolking@ucdavis.edu>  
**Sent:** Thu, 13 Dec 2018 13:13:22 -0800  
**Subject:** PREDICT Bombali Communications Packet  
**To:** "Clements, Andrew (GH/HIDN)" <AClements@usaid.gov>  
**Cc:** "Prof. Jonna Mazet" <jkmazet@ucdavis.edu>

Hi Andrew,

We've posted what we believe are the most essential and useful materials regarding communicating the Bombali finding in Sierra Leone. Brian kindly provided comments and notes for context about each document and file in the folder below. You can access them in Box with this password protected link.

Link:   
Password: 

Let us know if you can't access the folder or if you have any questions,

David



**From:** Jonna Mazet <jkmazet@ucdavis.edu>  
**To:** AOTR/Grant Manager Andrew Clements <AClements@usaid.gov>  
**CC:** Predict inbox <predict@ucdavis.edu>  
**Sent:** 12/13/2018 9:36:18 PM  
**Subject:** Fwd: Updates from SL team today

Here you go,  
Jonna

----- Forwarded message -----

From: **Brian Bird** <bhbird@ucdavis.edu>  
Date: Thu, Dec 13, 2018 at 3:55 PM  
Subject: Updates from SL team today  
To: Jonna Mazet <jkmazet@ucdavis.edu>, Towner, Jonathan (Jon) (CDC/DDID/NCEZID/DHCPP) <jit8@cdc.gov>, Nichol, Stuart T. (CDC/DDID/NCEZID/DHCPP) <stn1@cdc.gov>  
Cc: David J Wolking <djwolking@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>, Brooke Genovese <bgenovese@ucdavis.edu>, Bridgette Smith <brpsmith@ucdavis.edu>

Hi everyone,

Sorry this is coming a bit late in the day...

I talked with James this morning about the events of the past 24 hours.

1. **Today at around 10AM the technical working group (TWG)** that has CDC, Njala, PREDICT, US Mission, WHO, and MoHS and MAF members met and discussed how their briefing for the Ministers would go later that day. It was decided to overhaul the slide deck that Jon, Dr. Lebbie, and I worked on to make it more lay-person (aka politician) friendly. The final results of that is attached so everyone can see what was presented later in the day.
2. Discussion about IHR reporting and OIE reporting was discussed with the point of view that at least IHR is probably not the right venue for reporting, but some sort of notification/memo would be made somehow to inform WHO Geneva and OIE. Just not triggering some official existing reporting mechanism per se.
3. **14:00 Inter-ministerial Meeting was convened**
  - a. Minister of Health (Wurie) and Minister of Higher Education (Gbakima) led the meeting
  - b. Representatives from EPA, MAF, MoHS, Njala, UNIMAK, Ministry of Local Governments, and others attended.
    - i. Not in attendance ONS and some other Ministers since the President had called a separate meeting at 14:00 at the State House.
  - c. DCMO – T.T. Samba presented the slide deck and there was lots of discussion from lots of viewpoints.
    - i. One main take home was that the group was very keen on the international community providing some mechanism and path to get advanced training for young scientists in the country into high quality MS and PhDs to study infectious diseases and other health related matters. This was driven by Prof Gbakima and is certainly a good idea and would be a huge plus and outcome of these findings if we can manage it.
  - d. Some decisions were made during this to move the process forward:
    - i. Recognized the need to notify the DMO and

DAOs or the Moyamba, Kono, and Koinadugu districts verbally this week.

ii. Minister of Health Called for a Parliamentary Briefing (most of the Parliamentarians to be present) for tomorrow (Friday at 11AM).

1. This is one where they were asking if CDC and WHO could pay the “sitting fee” for the Parliamentarians....

iii. It’s a bit vague now (to me at least) if there will be an official Presidential briefing per se or will all of these other briefings make that kind of unnecessary at this time...

iv. The Public Roll-out timings are firming up though...

1. **Next Thursday Dec 20<sup>th</sup> is slated tentatively as the official National Public notification day** (similar to what we did for Bombali virus).

a. All DMOs and DAOs invited to attend, along with select press, and others.

i. Costs proposed by GoSL to be split three-ways between PREDICT-CDC-WHO

ii. Would require some press releases, FAQs, and other docs similar to what we did for Bombali to be created and drafted.

iii. The main EOC point of contact for comms is Harold Thomas who is currently away, but will return to FT on Monday. He can lead the charge for these as long as we can feed him the technical information.

b. I’m working on adapting our general docs from Bombali and an “Ebola” perspective over to a “Marburg” perspective. I can share those once we have a draft for everyone’s input at least as a starting point.

1. Then after the holidays in first week or two of January there would be a district level and village level engagements to share the information and ask questions and concerns in each of the affected communities and areas. Jon: I hope that Dr. Lebbie and his team can be ready and supportive of those? It really helped a lot in Bombali that the same people and faces that they’ve been working with came back to deliver the news and not just the GoSL representatives.

3. In general, it sounds like everyone in the room from CDC/USAID/GoSL/WHO etc. are working together to make this a smooth roll-out of the information and it’s a testament to how far I think that they’ve come in really being motivated to move on important health information. So that’s pretty cool and neat.

Have a great evening everyone,

-b

Brian H. Bird DVM, MSPH, PhD

Global Lead Sierra Leone and

Multi-Country Ebola operations

PREDICT-USAID

One Health Institute

1089 Veterinary Medicine Dr.

School of Veterinary Medicine

University of California, Davis

Email: [bhbird@ucdavis.edu](mailto:bhbird@ucdavis.edu)

Skype: brianhbird1

<http://www.vetmed.ucdavis.edu/ohi/predict/index.cfm>



The Government of Sierra Leone

Detection of Marburg Virus in Bats in Sierra  
Leone

**Presentation by MOHS  
Under One Health Platform**



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**Emerging Pandemic Threats  
Program 2 (EPT-2)**



## Viral Hemorrhagic Fevers in Sierra Leone

- Ebola outbreak (2014-2016) with more than 4,000 deaths
- Lassa fever, ongoing cases with high mortality
- New Bombali Ebola virus detected in bats (2017)
  - not known yet if it can cause disease in humans
- Now: detection of Marburg virus (MARV) in fruit eating bats – it is known that this virus cause disease in humans



Emerging Pandemic Threats  
Program 2 (EPT-2)

## First discovery of Marburg virus in West Africa

- Marburg virus (MARV) is closely related to Ebola virus
- MARV causes a disease in humans clinically similar to Ebola virus disease
- First discovered in 1967 in Marburg, Germany
- It can cause hemorrhagic fever with high case fatality (50-90%)
- Previous human outbreaks have been limited to East, Central and Southern Africa



Emerging Pandemic Threats  
Program 2 (EPT-2)

## Marburg Virus (MARV) Discovery in SL

### Marburg virus in cave-dwelling fruit eating bats

First discovery of Marburg virus in West Africa

- All positive bats in Sierra Leone were *Rousettus aegyptiacus* fruit bats
- Three bats (Moyamba)
- Two bats (Koinadugu, Kono)

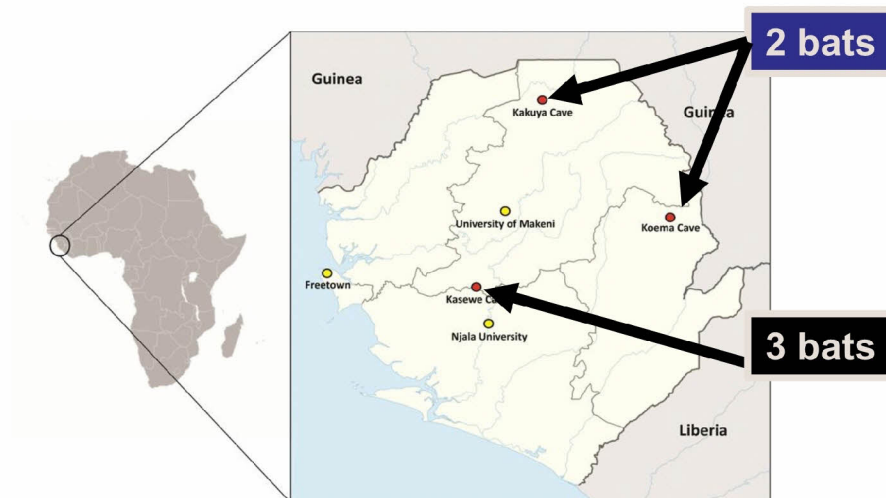
**Success: BEFORE** any known human or animal sickness or deaths

- Not yet known if this has spilled over into people previously in SL



Emerging Pandemic Threats  
Program 2 (EPT-2)

## Locations of Marburg Virus in Bats in Sierra Leone



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## Our Partners: Complementary VHF Projects

### Njala University – CDC

- Collaborative Agreement (CoAg) on Capacity Building for Ecological Surveillance and Molecular Diagnosis of Hemorrhagic Fever Viruses in Sierra Leone



### PREDICT – USAID – UC Davis & UNIMAK “Ebola Host Project”

- Global program operational in 28 countries. In Sierra Leone, a special focus finding the animal origins of filoviruses (ebolaviruses and marburgviruses).

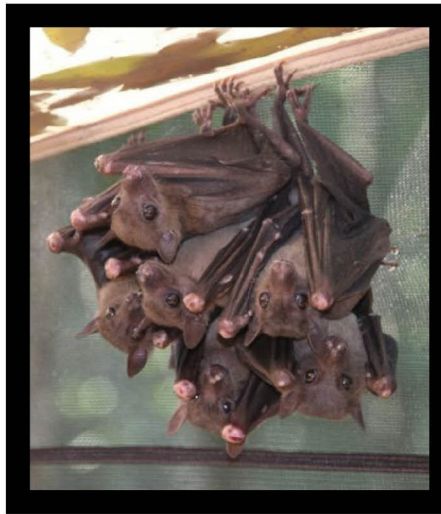


Emerging Pandemic Threats  
Program 2 (EPT-2)



### ***Rousettus aegyptiacus* background information**

- Size: up to 40-50 cm wingspan
- Avg. mass: ~120 grams
- Preference for caves and subterranean mines
- Diet: fruit and nectar
- Found in many countries in sub-Saharan African
- Colony size: up to >100,000s (East Africa)



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Program 2 (EPT-2)**

## Marburg Virus Disease ( MVD)

- MVD is caused by Marburg virus (MARV) and is closely related to Ebola Virus Disease, with similar clinical manifestations
- MVD has high case fatality (50-90%)
- Human outbreaks have occurred in East, Central and Southern Africa (Uganda, DRC, Gabon, and Angola)



<https://www.cdc.gov/vhf/marburg/outbreaks/distribution-map.html>



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Program 2 (EPT-2)

## Significance and implication of discovery

- It is important that this virus has been discovered before Marburg virus disease being recognized/diagnosed in people
- Cost for prevention and detection of the disease is far less than the cost for response and control including human lives
- Sierra Leone government under the one health approach is taking proactive steps to prevent, detect and respond to potential epidemics.
- Marburg Virus actively circulates in Sierra Leone, a highly pathogenic virus with proven transmission from animals to humans and from human to human



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Program 2 (EPT-2)**

## Recommendations

- Strengthen surveillance to enhance early case detection for Marburg
- Enhance laboratory capacity to include confirmation of Marburg in the testing algorithm.
- Increase community awareness through social mobilization activities for effective disease prevention and control
- Improve inter-sectorial collaboration through One health approach among relevant MDAs (MOHS, MAF, EPA, ONS, MMR, MLGRD, MLCPE) and partners
- Integrate MVD into all hazard's preparedness and response plan



Emerging Pandemic Threats  
Program 2 (EPT-2)

## ESTIMATED COST FOR MARBURG VIRUS DISEASE PREVENTION, DETECTION PREPAREDNESS AND INITIAL RESPONSE PLAN

No	Activity	Timeline	Responsible Entity/Agency/Department	Cost
1	<b>STRENGTHENING SURVEILLANCE SYSTEM TO INCLUDE MARBURG VIRAL DISEASE (MVD) FOR BATS AND HUMANS</b>			
1.1	Integrate MVD into the surveillance system for humans:	Immediately (December 12- January 12	MOHS DHSE Surveillance	\$ 120,000
1.2	Strengthen Cross border surveillance activities	February 2019 onward	DHSE Surveillance	\$100,000
1.3	Expand Bats Surveillance	January 2019 – March 2019	MAF/Njala/PREDICT	\$50,000
2	<b>STRENGTHEN LABS TO DETECT MVD</b>			
2.1	Inclusion MVD in MOHS priority Disease testing	December 2018 – February 2019	MOHS labs Directorate/ US CDC/China CDC	\$163,000
2.2	Building lab testing capacity at Teko for bats	January 2019 onward	Njala/PREDICT/MAF/FAO/MOHS	\$92,000
2.3	Biosafety and Biosecurity activities	January 2019 onward	MOHS/MAF/ONS/CDC/WHO	\$20,000
2.4	Specimen management capacity	January 2019 onward	MOHS/MAF/CDC/WHO/PREDICT	\$20,000
3	<b>COMMUNICATIONS</b>			
4	Preparedness and response activities	January 2019 onward	MOHS/MAF/ONS/CDC/WHO	<b>\$32,000</b>
5	Coordination, collaboration and operational support	January 2019 onward	MOHS/MAF/ONS/CDC/WHO	<b>\$40,000</b>
	<b>GRAND TOTAL</b>			<b>\$777,000</b>



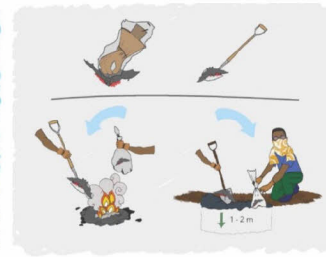
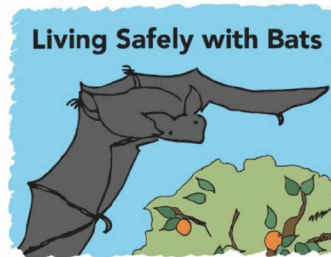
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Program 2 (EPT-2)**

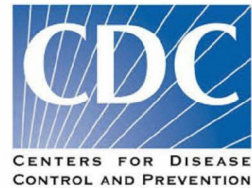


## Strategies for Community Outreach about Bats

- Discusses key benefits and risks of bats
- Describes way to reduce risk and contact with bats
- Can be used in households or at the community level



# Acknowledgments and thank you!



The Sierra Leone Ministries of Health and Sanitation;  
Agriculture & Forestry, and our other Partners in 31 Countries

**From:** Andrew Clements <aclements@usaid.gov>  
**To:** Jonna Mazet <jkmazet@ucdavis.edu>  
**CC:** Predict inbox <predict@ucdavis.edu>  
**Sent:** 12/14/2018 2:05:49 AM  
**Subject:** [predict] Re: Updates from SL team today

Thanks, Jonna

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development  
Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Dec 14, 2018, at 6:36 AM, Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)> wrote:

Here you go,  
Jonna

----- Forwarded message -----

From: Brian Bird <[bhbird@ucdavis.edu](mailto:bhbird@ucdavis.edu)>  
Date: Thu, Dec 13, 2018 at 3:55 PM  
Subject: Updates from SL team today  
To: Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>, Towner, Jonathan (Jon) (CDC/DDID/NCEZID/DHCPP) <[jit8@cdc.gov](mailto:jit8@cdc.gov)>, Nichol, Stuart T. (CDC/DDID/NCEZID/DHCPP) <[stn1@cdc.gov](mailto:stn1@cdc.gov)>  
Cc: David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>, Tracey Goldstein <[tgoldstein@ucdavis.edu](mailto:tgoldstein@ucdavis.edu)>, Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)>, Bridgette Smith <[brpsmith@ucdavis.edu](mailto:brpsmith@ucdavis.edu)>

Hi everyone,

Sorry this is coming a bit late in the day...

I talked with James this morning about the events of the past 24 hours.

1. \*Today at around 10AM the technical working group (TWG)\* that has CDC, Njala, PREDICT, US Mission, WHO, and MoHS and MAF members met and discussed how their briefing for the Ministers would go later that day. It was decided to overhaul the slide deck that Jon, Dr. Lebbie, and I worked on to make it more lay-person (aka politician) friendly. The final results of that is attached so everyone can see what was presented later in the day.
2. Discussion about IHR reporting and OIE reporting was discussed with the point of view that at least IHR is probably not the right venue for reporting, but some sort of notification/memo would be made somehow to inform WHO Geneva and OIE. Just not triggering some official existing reporting mechanism per se.
3. \*14:00 Inter-ministerial Meeting was convened\*

1. Minister of Health (Wurie) and Minister of Higher Education (Gbakima) led the meeting
2. Representatives from EPA, MAF, MoHS, Njala, UNIMAK, Ministry of Local Governments, and others attended.

i. Not

in attendance ONS and some other Ministers since the President had called a separate meeting at 14:00 at the State House.

1. DCMO – T.T. Samba presented the slide deck and there was lots of discussion from lots of viewpoints.

i. One

main take home was that the group was very keen on the international community providing some mechanism and path to get advanced training for young scientists in the country into high quality MS and PhDs to study infectious diseases and other health related matters. This was driven by Prof Gbakima and is certainly a good idea and would be a huge plus and outcome of these findings if we can manage it.

1. Some decisions were made during this to move the process forward:

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Recognized

the need to notify the DMO and DAOs or the Moyamba, Kono, and Koinadugu districts verbally this week.

ii. Minister

of Health Called for a Parliamentary Briefing (most of the Parliamentarians to be present) for tomorrow (Friday at 11AM).

1. This is one where they were asking if CDC and WHO could pay the “sitting fee” for the Parliamentarians....

iii. It's a

bit vague now (to me at least) if there will be an official Presidential briefing per se or will all of these other briefings make that kind of unnecessary at this time...

iv. The

Public Roll-out timings are firming up though...

1. \*Next Thursday Dec 20th is slated tentatively as the official National Public notification day\* (similar to what we did for Bombali virus).
  1. All DMOs and DAOs invited to attend, along with select press, and others.

i. Costs proposed by GoSL to be split three-ways between PREDICT-CDC-WHO

ii. Would require some press releases, FAQs, and other docs similar to what we did for Bombali to be created and drafted.

iii. The main EOC point of contact for comms is Harold Thomas who is currently away, but will return to FT on Monday. He can lead the charge for these as long as we can feed him the technical information.

1. I'm working on adapting our general docs from Bombali and an "Ebola" perspective over to a "Marburg" perspective. I can share those once we have

a draft for everyone's input at least as a starting point.

1. Then after the holidays in first week or two of January

there would be a district level and village level

engagements to share the

information and ask questions and concerns in each of the affected

communities and areas. Jon: I hope that Dr. Lebbie and his

team can be

ready and supportive of those? It really helped a lot in

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same people and faces that they've been working with came

back to deliver

the news and not just the GoSL representatives.

1. In general, it sounds like everyone in the room from

CDC/USAID/GoSL/WHO etc. are working together to make this a smooth roll-out

of the information and it's a testament to how far I think that they've

come in really being motivated to move on important health information. So that's pretty cool and neat.

Have a great evening everyone,

-b

Brian H. Bird DVM, MSPH, PhD

Global Lead Sierra Leone and

Multi-Country Ebola operations

PREDICT-USAID

One Health Institute

1089 Veterinary Medicine Dr.

School of Veterinary Medicine

University of California, Davis

Email: [bhbird@ucdavis.edu](mailto:bhbird@ucdavis.edu)

Skype: brianhbird1





**Sent:** Sat, 15 Dec 2018 11:36:46 -0800  
**Bcc:** David J Wolking <djwolking@ucdavis.edu>  
**Subject:** Fwd: Updates MARV SL 14 Dec 2018  
**From:** Jonna Mazet <jkmazet@ucdavis.edu>  
**To:** "AOTR/Grant Manager Andrew Clements" <AClements@usaid.gov>

Update, FYI that the public release may move up (most likely Tuesday now), but we will keep you in the loop,  
J

----- Forwarded message -----

From: **Brian Bird** <bhbird@ucdavis.edu>  
Date: Fri, Dec 14, 2018 at 11:10 AM  
Subject: Updates MARV SL 14 Dec 2018  
To: Jonna Mazet <jkmazet@ucdavis.edu>, Towner, Jonathan (Jon) (CDC/DDID/NCEZID/DHCPP) <jit8@cdc.gov>, Nichol, Stuart T. (CDC/DDID/NCEZID/DHCPP) <stn1@cdc.gov>, Aiah Lebbie <aiahlebbie@gmail.com>  
Cc: David J Wolking <djwolking@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>, Brooke Genovese <bgenovese@ucdavis.edu>, Bridgette Smith <brpsmith@ucdavis.edu>

Trying to be a bit timelier with the update today:

The meeting of the TWG (MoHS, and MAF, CDC, Njala, PREDICT, Mission, WHO,) with the Parliamentary Committee for Health happened today and was well attended and engaged. A total of 21 parliamentarians attended with their staffs. Apparently, the Permanent Secretary labelled the invite letters as “important for National Health Security” so people came and paid attention.

They had lots of questions about both Bombali and Marburg viruses. Mainly centered around how the messaging and communications went/would go for the previous and now current virus findings. The main take home was that they are pushing for a public briefing early next week. They recommended Monday...

WHO has a meeting of all DMOs already scheduled on Tuesday/Wednesday and they offered to utilize that meeting and space to invite others (Min of Ag folks etc.) and do the presentation at that venue. Seems like a reasonable target of opportunity.. although it would be a WHO event. I don't know what those costs might be, but as a frame of reference the Bombali National meeting was budgeted at ~\$8400. For this meeting it seems that the MoHS is leading efforts for it, but I'm sure a request for funds will arrive soon.

At the technical level the main needs now are for public communications materials (Press briefings, FAQs, leave behinds etc.). The Freetown EOC communications team is engaged to work on these for the meetings, but the request looped back to “us” to provide some updated technical information etc. Bridgette and Brooke (here at UCD) were taking first whacks at updating the Bombali documents yesterday, and I hope to have at least something to share later today as a starting point for more review/edits. Basically, whatever we share back to the EOC will be what makes it into their government documents, so it's worth a little time and energy to get it right and appropriate for the messaging. They are asking for these for use on Monday morning F/T time.

There is also a GoSL cabinet level document that needs some review and possible editing. Jon and Stuart: y'all should be seeing that from Tushar. It's our four-pager text turned into a GoSL communique-cable type of document for internal consumption and intra-government communications. Interestingly, it is now labelled a “Briefing Paper by the MoHS”.

Despite efforts to keep this close-hold for now... our PREDICT team in Guinea was called by someone in Sierra Leone and asked to talk about the Marburg finding. So obviously word is getting out. With that in mind, I'll be this will out by the end of next week regardless of what plans are made and followed.

Happy Friday everyone,

-Brian

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**From:** Brian Bird <[bhbird@ucdavis.edu](mailto:bhbird@ucdavis.edu)>  
**Date:** Thursday, December 13, 2018 at 3:55 PM  
**To:** Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu)>, "Towner, Jonathan (Jon) (CDC/DDID/NCEZID/DHCPP)" <[jit8@cdc.gov](mailto:jit8@cdc.gov)>, "Nichol, Stuart T. (CDC/DDID/NCEZID/DHCPP)" <[stn1@cdc.gov](mailto:stn1@cdc.gov)>  
**Cc:** David J Wolking <[djwolking@ucdavis.edu](mailto:djwolking@ucdavis.edu)>, Tracey Goldstein <[tgoldstein@ucdavis.edu](mailto:tgoldstein@ucdavis.edu)>, Brooke Genovese <[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)>, Bridgette Smith <[brpsmith@ucdavis.edu](mailto:brpsmith@ucdavis.edu)>  
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i. One main take home was that the group was very keen on the international community providing some mechanism and path to get advanced training for young scientists in the country into high quality MS and PhDs to study infectious diseases and other health related matters. This was driven by Prof Gbakima and is certainly a good idea and would be a huge plus and outcome of these findings if we can manage it.

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Brian H. Bird DVM, MSPH, PhD

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Email: [bhbird@ucdavis.edu](mailto:bhbird@ucdavis.edu)

Skype: brianhbird1

<http://www.vetmed.ucdavis.edu/ohi/predict/index.cfm>



**From:** Beth Edison <bedison@metabiota.com>  
**Sent:** Tue, 19 Feb 2019 13:47:33 -0800  
**To:** "Churchill, Carolina" [REDACTED]  
**Cc:** Molly Turner <turner@ecohealthalliance.org>, Elizabeth Leasure <ealeasure@ucdavis.edu>, Evelyn Luciano <luciano@ecohealthalliance.org>, "RyanB@si.edu" <RyanB@si.edu>, predict Sympa List <predict@ucdavis.edu>  
**Subject:** [predict] Re: PREDICT Semi Annual Meeting April 30-May 1

Hi Carolina,

We're working with the JW Marriott Parq and are hoping it will all fit together. It's a big week for conferences in Vancouver so the choices were limited, but this location is a good one.

Thanks for the update. As soon as I finalize numbers I'll send out all the hotel details. Here's the website if you are curious : <https://www.marriott.com/hotels/travel/yvrjw-jw-marriott-parq-vancouver>

Best,  
Beth

On Tue, Feb 19, 2019 at 12:54 PM Churchill, Carolina [REDACTED] wrote:

Hi Beth,

I probably won't stay on the 1<sup>st</sup> but I believe Sarah is planning to stay and fly out on May 2 in the morning.

Do you know what hotel you are looking at?

Best,

Carolina

**From:** Beth Edison <[bedison@metabiota.com](mailto:bedison@metabiota.com)>  
**Sent:** Tuesday, February 19, 2019 1:58 PM  
**To:** Churchill, Carolina <[REDACTED]>  
**Cc:** Molly Turner <[turner@ecohealthalliance.org](mailto:turner@ecohealthalliance.org)>; Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)>; Evelyn Luciano <[luciano@ecohealthalliance.org](mailto:luciano@ecohealthalliance.org)>; [RyanB@si.edu](mailto:RyanB@si.edu); predict Sympa List <[predict@ucdavis.edu](mailto:predict@ucdavis.edu)>  
**Subject:** Re: PREDICT Semi Annual Meeting April 30-May 1

Thanks Carolina! Do you have any thoughts yet on whether you will stay the night of the 1st? I have to guarantee 90% of the rooms with the hotel so I'm trying to get as accurate as I can. I was planning on mentioning this on EB tomorrow as

it's a new development.

Thanks again for the quick reply!

Beth

On Tue, Feb 19, 2019 at 9:19 AM Churchill, Carolina <REDACTED> wrote:

Hi Beth,

We are expecting to send two from WCS, myself and Sarah Olson. Will let you know if anything changes after tomorrow's EB call.

Best,

Carolina

**From:** Molly Turner <[turner@ecohealthalliance.org](mailto:turner@ecohealthalliance.org)>

**Sent:** Tuesday, February 19, 2019 11:21 AM

**To:** Beth Edison <[bedison@metabiota.com](mailto:bedison@metabiota.com)>

**Cc:** Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)>; Evelyn Luciano <[luciano@ecohealthalliance.org](mailto:luciano@ecohealthalliance.org)>; Churchill, Carolina <REDACTED>; RyanB@si.edu; predict Sympa List <[predict@ucdavis.edu](mailto:predict@ucdavis.edu)>

**Subject:** Re: PREDICT Semi Annual Meeting April 30-May 1

Hi Beth,

We'll get you an estimated headcount from EHA by Friday.

Cheers,

Molly

On Fri, Feb 15, 2019 at 1:33 PM Beth Edison <[bedison@metabiota.com](mailto:bedison@metabiota.com)> wrote:

Hi Liz,

If possible, the end of next week would be great.

Thanks,

Beth

On Fri, Feb 15, 2019 at 10:26 AM Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Beth. When do you need the information by? We'll be discussing this as an item on EB next week, so perhaps by end of next week?

*Elizabeth Leasure*

*Financial Operations Manager*

*One Health Institute*

REDACTED (cell)

530-754-9034 (office)

Skype: ealeasure

**From:** Beth Edison <[bedison@metabiota.com](mailto:bedison@metabiota.com)>

**Sent:** Friday, February 15, 2019 10:18 AM

**To:** Molly Turner <[turner@ecohealthalliance.org](mailto:turner@ecohealthalliance.org)>; Evelyn Luciano <[luciano@ecohealthalliance.org](mailto:luciano@ecohealthalliance.org)>; REDACTED  
<[RyanB@si.edu](mailto:RyanB@si.edu)>; Elizabeth Leasure <[ealeasure@UCDAVIS.EDU](mailto:ealeasure@UCDAVIS.EDU)>

**Cc:** predict Sympa List <[predict@ucdavis.edu](mailto:predict@ucdavis.edu)>

**Subject:** PREDICT Semi Annual Meeting April 30-May 1

Hi everyone,

I'm working on booking space for the next Semi Annual meeting in Vancouver and I'd like to confirm the number of participants. I assume most people will arrive April 29 and depart either the evening of May 1 or on the 2nd.

Can you please talk to your teams and let me know how many people plan on attending?

Thank you and have a good weekend!

Beth

--

Beth Edison

Program Manager | Metabiota

(250)739-8987

--

Beth Edison

Program Manager | Metabiota

(250)739-8987

--

**Molly Turner**

*Federal Grants Coordinator*

*EcoHealth Alliance Operations*

EcoHealth Alliance  
460 West 34th Street, Suite 1701  
New York, NY 10001

1.212.380.4469 (office)

**REDACTED** (mobile)

<http://www.ecohealthalliance.org>

***EcoHealth Alliance leads cutting-edge scientific research into the critical connections between human and wildlife health and delicate ecosystems. With this science, we develop solutions that prevent pandemics and promote conservation.***

--

Beth Edison

Program Manager | Metabiota

(250)739-8987

--

Beth Edison

Program Manager | Metabiota

(250)739-8987

**From:** Andrew Clements <aclements@usaid.gov>  
**Sent:** Fri, 22 Feb 2019 04:24:52 -0800  
**Subject:** Re: Dates for PREDICT All Country meeting  
**To:** Elizabeth Leasure <ealeasure@ucdavis.edu>  
**Cc:** Alisa Pereira <apereira@usaid.gov>, Cara Chrisman <cchrisman@usaid.gov>, predict Sympa List <predict@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>

Sounds good. Thanks, Liz.

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: 1-571-345-4253*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Feb 21, 2019, at 11:39 PM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Andrew. Thanks for sharing your preferred dates. I'll circle up with the team and get back to you. We're planning on three full days.

Thanks,  
Liz

Elizabeth Leasure  
Financial Operations Manager  
One Health Institute  
University of California, Davis  
Cell: **REDACTED**

**From:** Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)>  
**Sent:** Thursday, February 21, 2019 12:17 PM  
**To:** Elizabeth Leasure  
**Cc:** Alisa Pereira; Cara Chrisman; predict Sympa List; Jonna Mazet; David John Wolking  
**Subject:** Re: Dates for PREDICT All Country meeting

Look like the best week for me is Sep 16-20 with a preference for the meeting being Sep 18-19 (but may be some flexibility).  
Were you thinking 2 days or 3?

*Andrew P. Clements, Ph.D.*  
*Senior Scientific Advisor*  
*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*  
*U.S. Agency for International Development*  
*Mobile phone: 1-571-345-4253*  
*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On Feb 20, 2019, at 6:43 PM, Elizabeth Leasure <[ealeasure@ucdavis.edu](mailto:ealeasure@ucdavis.edu)> wrote:

Hi Andrew. Just following up regarding your preferred dates for the All Country meeting. We're at a point now where we need to start obtaining quotes from meeting venues and visas for participants from certain countries. If you could provide a range of dates that work for you, we can circle back with EB to pick the optimal date.



Thanks,  
Liz

*Elizabeth Leasure*  
*Financial Operations Manager*  
*One Health Institute*

**REDACTED**

*530-754-9034 (office)*

*Skype: ealeasure*

**From:** Jonna Mazet <jkmazet@ucdavis.edu>  
**To:** Lewis, Paul E III Lt Col USAF DHA HEALTH SURV (US) <paul.e.lewis10.mil@mail.mil>  
**CC:** AOTR/Grant Manager Andrew Clements <AClements@usaid.gov>; Peter Daszak <daszak@ecohealthalliance.org>; PREDICTMGT <predictmgt@usaid.gov>; Predict inbox <predict@ucdavis.edu>; Christine Kreuder Johnson <ckjohnson@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Billy Karesh <karesh@ecohealthalliance.org>; Ubiera, Juan I CIV DHA HEALTH SURV (USA) <juan.ubiera2.civ@mail.mil>; Badzik, Douglas A COL USARMY DHA HEALTH SURV (US) <douglas.a.badzik.mil@mail.mil>; Forshey, Brett M LT USPHS DHA HEALTH SURV (USA) <brett.m.forshey.mil@mail.mil>; Friendly, Oscar S (Sean) CIV DHA HEALTH SURV (USA) <oscar.s.friendly.civ@mail.mil>; Sanchez, Jose L Jr CIV DHA HEALTH SURV (USA) <jose.l.sanchez76.civ@mail.mil>; Jones, Franca R CDR USN DHA HEALTH SURV (US) <franca.r.jones.mil@mail.mil>  
**Sent:** 3/19/2019 9:33:45 AM  
**Subject:** Re: PREDICT briefing for DOD?

Great, Paul,  
Thank you and Franca very much for the invitation and details.  
We are certainly happy to travel to you for a briefing and/or discussion.  
Brooke will help with the dates and logistics when you are ready.  
Looking forward to it,  
Jonna

Jonna AK Mazet, DVM, MPVM, PhD  
Professor of Epidemiology & Disease Ecology  
Executive Director, One Health Institute  
Global Director, PREDICT Project of USAID Emerging Pandemic Threats Program

School of Veterinary Medicine  
University of California  
1089 Veterinary Medicine Drive  
Davis, CA 95616, USA  
+1-530-752-3630  
[onehealthinstitute.net](http://onehealthinstitute.net)

For scheduling and logistical issues, please contact:  
Ms. Brooke Genovese  
[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu)  
+1-530-752-3630

On Fri, Mar 15, 2019 at 12:01 PM Lewis, Paul E III Lt Col USAF DHA HEALTH SURV (US) <paul.e.lewis10.mil@mail.mil> wrote:  
Jonna,

We would welcome a visit here at AFHSB or a telcon to learn more about PREDICT. I know that our Chief, COL Badzik, would be interested in attending as well. We will reach out to Ms. Brooke Genovese to coordinate a time in the near future.

Regards,

Paul

Paul E. Lewis, MD, MPH  
Lt Col, USAF, MC  
Lead, Innovation & Evaluation  
Integrated Biosurveillance Section  
Armed Forces Health Surveillance Branch  
Public Health Division (PHD)  
Assistant Director, Combat Support (AD-CS)  
Defense Health Agency (DHA)  
[paul.e.lewis10.mil@mail.mil](mailto:paul.e.lewis10.mil@mail.mil)  
W) 301-319-2235  
DSN) 285-2235

-----Original Message-----

From: Jones, Franca R CDR USN DHA HEALTH SURV (US)

Sent: Thursday, March 14, 2019 3:50 PM

To: Jonna Mazet <jkmazet@ucdavis.edu>

Cc: AOTR/Grant Manager Andrew Clements <AClements@usaid.gov>; Peter Daszak <daszak@ecohealthalliance.org>; PREDICTMGT <predictmgt@usaid.gov>; Predict inbox <predict@ucdavis.edu>; Christine Kreuder Johnson <ckjohnson@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Billy Karesh <karesh@ecohealthalliance.org>; Ubiera, Juan I CIV DHA HEALTH SURV (USA) <juan.ubiera2.civ@mail.mil>; Lewis, Paul E III Lt Col USAF DHA HEALTH SURV (US) <paul.e.lewis10.mil@mail.mil>; Badzik, Douglas A COL USARMY DHA HEALTH SURV (US) <douglas.a.badzic.mil@mail.mil>; Forshey, Brett M LT USPHS DHA HEALTH SURV (USA) <brett.m.forshey.mil@mail.mil>; Friendly, Oscar S (Sean) CIV DHA HEALTH SURV (USA) <oscar.s.friendly.civ@mail.mil>; Sanchez, Jose L Jr CIV DHA HEALTH SURV (USA) <jose.l.sanchez76.civ@mail.mil>

Subject: PREDICT briefing for DOD?

Hi Jonna,

It's great to reconnect with you and thanks for getting back to us. I am currently (only for the next 6 weeks) the Chief of the Global Emerging Infections Surveillance Section in the Armed Forces Health Surveillance Branch. We are under the Defense Health Agency. Our boss, VADM Bono, is very interested in learning what we can do as an Agency to get more predictive, in a variety of areas, infectious disease being one. Our Integrated Biosurveillance Section is working on some things that I think could be informed by a lot of your efforts. It is with this context that I reached out to see if you could provide us with the latest briefing. Since I won't be here for much longer, I'd like to request that you coordinate further with Mr. Juan Ubiera and Lt Col Lewis (both cc'd) to set up a date and time to meet. I'll definitely attend if this happens while I'm still here.

Great to hear from you!

All the best,

Franca

-----Original Message-----

From: Jonna Mazet [mailto:jkmazet@ucdavis.edu]

Sent: Friday, March 8, 2019 1:15 PM

To: Jones, Franca R CDR USN DHA HEALTH SURV (US) <franca.r.jones.mil@mail.mil>

Cc: AOTR/Grant Manager Andrew Clements <AClements@usaid.gov>; Peter Daszak <daszak@ecohealthalliance.org>; PREDICTMGT <predictmgt@usaid.gov>; Predict inbox <predict@ucdavis.edu>; Christine Kreuder Johnson <ckjohnson@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Billy Karesh <karesh@ecohealthalliance.org>

Subject: [Non-DoD Source] Fwd: PREDICT briefing for DOD?

All active links contained in this email were disabled. Please verify the identity of the sender, and confirm the authenticity of all links contained within the message prior to copying and pasting the address to a Web browser.

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Dear Franca,

Hope you are well -- it has been some time.

Andrew mentioned that you would like to arrange for a Predict briefing. We'd be happy to put something together that is tailored toward the interests of your audience. Do you have a timeframe in mind?

Looking forward to seeing you again,

Jonna

Jonna AK Mazet, DVM, MPVM, PhD

Professor of Epidemiology & Disease Ecology

Executive Director, OneHealth Institute

Global Director, PREDICT Project of USAID Emerging Pandemic Threats Program

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[onehealthinstitute.net](http://onehealthinstitute.net) < Caution-<http://onehealthinstitute.net/> >

For scheduling and logistical issues, please contact:

Ms. Brooke Genovese

[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu) < Caution-mailto:[bgenovese@ucdavis.edu](mailto:bgenovese@ucdavis.edu) >

+1-530-752-3630 < tel:%2B1-530-752-3630 >

----- Forwarded message -----

From: Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov) < Caution-mailto:[aclements@usaid.gov](mailto:aclements@usaid.gov) > >

Date: Wed, Feb 27, 2019 at 5:49 AM

Subject: PREDICT briefing for DOD?

To: Jonna Mazet <[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu) < Caution-mailto:[jkmazet@ucdavis.edu](mailto:jkmazet@ucdavis.edu) > >, Peter Daszak  
<[daszak@ecohealthalliance.org](mailto:daszak@ecohealthalliance.org) < Caution-mailto:[daszak@ecohealthalliance.org](mailto:daszak@ecohealthalliance.org) > >

Cc: PREDICTMGT <[predictmgt@usaid.gov](mailto:predictmgt@usaid.gov) < Caution-mailto:[predictmgt@usaid.gov](mailto:predictmgt@usaid.gov) > >

Hi Jonna and Peter,

Franca Jones wrote to us recently to see if PREDICT could, at your convenience, provide a briefing/update to the Armed Forces Health Surveillance Branch and perhaps others at the Defense Health Agency. The briefing would be relevant to their Integrated Biosurveillance Section and GEIS. They are interested in progress, surveillance, hot-spot mapping (algorithms), etc.

Please let me know if this is something that could be arranged.

Thanks!

Andrew

Andrew Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
U.S. Agency for International Development

Mobile phone: 1-571-345-4253

E-mail: [aclements@usaid.gov](mailto:aclements@usaid.gov) < Caution-mailto:[aclements@usaid.gov](mailto:aclements@usaid.gov) >

For more information on USAID's Emerging Pandemic Threats program, see: Caution-  
<http://www.usaid.gov/ept2> < Caution-<http://www.usaid.gov/ept2> >



**From:** David J Wolking <djwolking@ucdavis.edu>  
**To:** Andrew Clements <aclements@usaid.gov>  
**CC:** Jonna Mazet <jkmazet@ucdavis.edu>; Wolking David <djwolking@ucdavis.edu>; Cara J. Chrisman <cchrisman@usaid.gov>; Alisa Pereira <apereira@usaid.gov>  
**Sent:** 5/7/2019 1:38:51 PM  
**Subject:** Re: PREDICT International Travel Requests

Thanks Andrew, noted. I talked this over with Katie in the morning so the additional guidance is much appreciated.

David

On Tue, May 7, 2019 at 10:21 AM Andrew Clements <aclements@usaid.gov> wrote:  
Hope this doesn't cause tension within the project....

To further clarify my position:

- \* Participation in meetings to present on what Predict has accomplished is okay (eg Australia GHS).
- \* Doing outreach to others is okay if linked to existing trips related to wrapping up activities in countries.
- \* At this point, separate trips to do only outreach are not a high priority for me.

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health  
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Mobile phone: 1-571-345-4253  
Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

Begin forwarded message:

**From:** Andrew Clements <aclements@usaid.gov>  
**Date:** May 7, 2019 at 7:08:11 PM GMT+2  
**To:** Katherine Leasure <kaleasure@ucdavis.edu>  
**Cc:** PREDICTMGT <predictmgt@usaid.gov>, Predict inbox <predict@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>  
**Subject:** Re: PREDICT International Travel Requests

Thanks, Katie.

I'm going to say no to this travel request because 1) while it may be nice to do, it doesn't sound essential for the Predict mission, and 2) we're at a stage with uncertainty about funding where I think it would be wise to save funds for only the most essential activities including those related to completing countries activities.

I will judge future travel requests over the next five months using the same criteria.

*Andrew P. Clements, Ph.D.  
Senior Scientific Advisor  
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On May 7, 2019, at 5:34 PM, Katherine Leasure <kaleasure@ucdavis.edu> wrote:

Hi Andrew,

Please see additional information from EHA below:

*Attendees and participants of the Future Earth Health Knowledge-Action Network (KAN) hosted by Academia Sinica, the national academy in Taipei, are leaders in medicine, global health, business, and policy in Asia. Attending will give Peter the opportunity to network with these leaders and stakeholders about PREDICT to help shape the Health KAN research strategy for the next 3 years, and represent PREDICT partners to stress zoonotic disease surveillance and prevention. Wellcome Trust, Convention on Biological Diversity, UN Disaster Risk Reduction, UN Environment Programme, and more will be represented. Peter will be a moderating two group discussions, one about forming the Health KAN Research Agenda for the next 3 years and one about Funding Opportunities.*

If you need anything further, please let me know.

Thank you,

Katie

On Fri, May 3, 2019 at 2:17 PM Katherine Leasure <[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)> wrote:

Hi Andrew,

I have reached out to EHA for more information, and will follow-up when I receive their response.

Thanks,

Katie

On Thu, May 2, 2019 at 6:55 PM Andrew Clements <[aclements@usaid.gov](mailto:aclements@usaid.gov)> wrote:

I need more information on the significance of Predict being represented at the Future Earth meeting and if it's worth \$10,000.

*Andrew P. Clements, Ph.D.*

*Senior Scientific Advisor*

*Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health*

*U.S. Agency for International Development*

*Mobile phone: 1-571-345-4253*

*Email: [aclements@usaid.gov](mailto:aclements@usaid.gov)*

On May 2, 2019, at 8:04 PM, Katherine Leasure <[kaleasure@ucdavis.edu](mailto:kaleasure@ucdavis.edu)> wrote:

*Please find below international travel requests for your review and approval. Our apologies for the late submission of the ITA for Peter Daszak's travel to Taipei; per EHA, the meeting agenda only just became solidified. Please let me know if you have any questions. Thanks!*

1. Daszak (Taiwan): \$11398 airfare \*business class **REDACTED** \$278 (Taipei) max daily per diem
2. Kusumaningrum (USA): \$2000 airfare/\$329 (New York) max daily per diem
3. Saputro (USA): \$2000 airfare/\$329 (New York) max daily per diem

Travel Requests –

1. EcoHealth Alliance would like to request travel approval for Dr. Peter Daszak to travel from New York, NY, USA to Taipei, Taiwan from May 18-23, 2019 to attend the FutureEarth Launch of the Health-Knowledge Action Network.

**Trip purpose:** Dr. Daszak's attendance at the FutureEarth meeting will be a valuable opportunity to have international representation for PREDICT-2. The FutureEarth Group is specifically interested to know more about PREDICT-2. *\*The conference organizers will reimburse Dr. Daszak for his economy flight equivalent*

cost estimated at \$1,853; above estimated airfare cost reflects the PREDICT portion.

2. EcoHealth Alliance (EHA) would like to request travel approval for Ms. Tina Kusumaningrum to travel from Jakarta, Indonesia to New York, NY, USA from June 7-22, 2019 for training in human behavioral analysis, PREDICT data analysis and manuscript preparation.

**Trip purpose:** In New York, Ms. Kusumaningrum will visit EcoHealth Alliance headquarters where she will receive training in human behavioral qualitative data coding and analysis. She will work in collaboration with the EHA team to analyze PREDICT behavioral data from Indonesia and write scientific papers.

3. EcoHealth Alliance (EHA) would like to request travel approval for Dr. Suryo Saputro to travel from Jakarta, Indonesia to New York, NY, USA from June 29 to July 26, 2019 for modeling and analytics training, PREDICT data analysis and manuscript preparation.

**Trip purpose:** In New York, Dr Saputro will visit EcoHealth Alliance headquarters where he will receive training in phylogeny, modeling and analytics. He will work in collaboration with the EHA team to analyze PREDICT data from Indonesia and write scientific papers including Indonesia viral findings.

--

**Katherine Leasure**  
HR/Payroll/Financial Assistant  
One Health Institute  
530-752-7526

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**Katherine Leasure**  
HR/Payroll/Financial Assistant  
One Health Institute  
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