

From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
Sent: 5/24/2018 5:37:35 PM
Subject: EHP in the face of DRC Ebola outbreak

Hi Andrew,

Our crack team pulled together a justification document and rough budget, as requested.

Please find it attached. We do think the work would be incredibly valuable and consistent with the EPT philosophy.

A couple of issues that we would like to note:

- NIH and others also have projects in the region, so we would want to select sites that do not overlap with their efforts
- Our plan would include sampling bats in and around households, as well as cane rats & duiker, as human serology has shown increased exposure in individuals with past exposure to these species
- We have incorporated lab capacity building and tech transfer here that is missing from the West Africa EHP, but we still anticipating needing to also test in the US because of timeline and lab throughput capacity
- The proposed timeline includes a delay to fall, as we have seen a seasonal pattern in DRC & would want to capture that window -- also allows for outbreak chaos to calm down

There are a few other nuances. I will call you to discuss in my morning,
Jonna



Expansion of PREDICT's Ebola Host Project to the epicenter of Ebola virus spillover in the Democratic Republic of Congo

Ebola is again causing deaths in the Democratic Republic of Congo (DRC), this time in Equateur province where total cases now exceed 50 across four health zones. Since 1976, the virus has caused 24 known outbreaks with nine of these occurring in DRC alone. Each outbreak presumably begins after a single or limited spillover event from an as yet unknown wildlife reservoir to people. This infected individual then initiates a chain of human-to-human transmission that reveals without remorse the collective vulnerabilities of public health infrastructure and preparedness to contain this highly infectious health foe.

Since 2016, PREDICT has been working extensively in Sierra Leone, Guinea, and Liberia in the largest and most comprehensive investigation into the origins of Ebola and other related filoviruses ever attempted. This effort, collectively referred to as the “Ebola Host Project” (EHP) seeks to improve our understanding of the wildlife reservoir, spillover hosts, and animal origins of Ebola virus; gain a greater understanding of high-risk human behavioral activities associated with spillover and transmission; and improve disease surveillance and laboratory capacities through workforce development in line with Global Health Security Agenda (GHS) priorities.

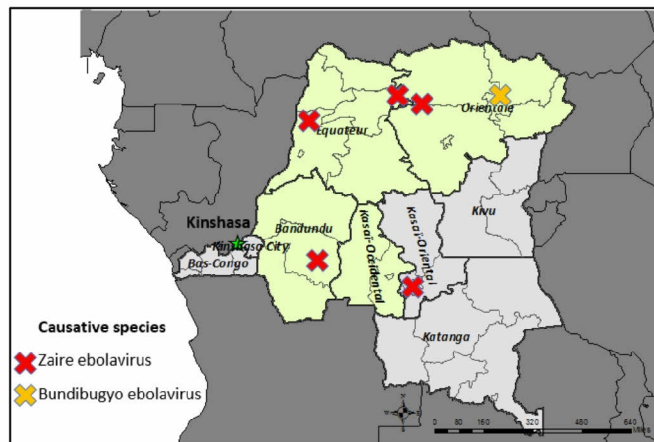


Figure. Map of historic Ebola outbreak sites in DRC 1976-2018

In less than two years, EHP teams in Guinea, Liberia, and Sierra Leone have safely sampled over 12,000 animals (mainly bats and rodents, along with goats, sheep, pigs, and non-human primates), and collected over 66,000 specimens for laboratory analysis to detect Ebola and other related viruses. The EHP approach relies on large scale animal sampling, targeting key animal taxa (bats, rodents) thought to be important in the Ebola virus transmission cycle, and broad-based laboratory detection platforms to detect a wide range of known and other as yet undiscovered ebolaviruses. Recent virus discoveries across the PREDICT project exemplify the power of the our approach to improve One Health disease surveillance.

Although EHP has been successful in West Africa, the epicenter of Ebola virus spillover and emergence has historically been in the Democratic Republic of the Congo. Since the first known Ebola outbreak in Yambuku in 1976, a total of six outbreaks has occurred along a band stretching across the northern portion of the country. This region is the classic “hot-zone” of Ebola virus emergence and likely provides the best target-rich environment to identify the animal reservoir(s) and key spillover hosts of this global health security threat.

We propose to leverage the key lessons and strategies refined and proven in West Africa by the EHP team to conduct a similar extensive investigation of Ebola virus wildlife reservoirs in DRC. We will initiate robust animal sampling at two independent sites in the north-central/east region of the country where multiple previous outbreaks and spillover events into humans have been detected. While the exact animal reservoir(s) remains unknown, it is clear that the majority of outbreaks occur in a roughly seasonal pattern that is likely linked to increased virus shedding from the likely hosts (bats, rodents, and duiker antelope). Our strategy will focus sampling efforts during this time period (roughly October to March), with extensive sample collection targeting a total of 6,000 animals across the two sites (2,500 bats, 400 rodents, and 100 duiker antelope at each site). This sample size while large, is scientifically justified, and is practically attainable given the success and lessons learned in West Africa by the EHP team. From these animals oral, rectal, fecal, and blood/serum specimens will be collected and stored securely and safely for subsequent laboratory testing by multiple molecular approaches including PREDICT's consensus filovirus PCR protocol, serology (especially targeting duiker antelope), and other specific Ebola virus detection assays as warranted.



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FROM THE AMERICAN PEOPLE

Identification of the animal source of the virus is a key step in the design and implementation of effective risk-mitigation and prevention strategies to reduce virus transmission from animals to people. Without this effort, intervention programs will continue to lack critical evidence about Ebola's ecology and transmissibility resulting in lessened impact, and one of the global health communities' biggest mysteries may remain unsolved as future spillover of ebolaviruses from animals into humans occurs.

Budget

Global Personnel & Fringe	\$64,500
Global Personnel to DRC for training & logistics	\$47,100
DRC travel to field sites for sampling	\$354,820
Sample Testing	\$1,336,077
Subagreements	
Field & lab staff, training & logistics	\$1,977,906
INRB staff, lab capacity & tech transfer	\$1,280,141
TOTAL	\$5,060,544



From: [REDACTED]
To: "Valitutto, Marc" <ValituttoM@si.edu>, David John Wolking <djwolking@ucdavis.edu>, Amanda Fine <afine@wcs.org>, Brian H Bird <bhbird@gmx.ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>, "Churchill, Carolina" <[REDACTED]>, "Corina Grigorescu Monagin" <cgmonagin@UCDAVIS.EDU>, Dawn Zimmerman <Zimmermand@si.edu>, Eddy Rubin <erubin@metabiota.com>, Evelyn Luciano <luciano@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, Karen Saylor <ksaylor@metabiota.com>, Leilani Franciso <francisco@ecohealthalliance.org>, "Murray, Suzan" <MurrayS@si.edu>, "Peter Daszak" <daszak@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>, Woutrina A Smith <wasmith@ucdavis.edu>, Sarah Olson <solson@wcs.org>, "Simon Anthony" <sja2127@columbia.edu>, Tammie O'Rourke <torourke@metabiota.com>, Tracey Goldstein <tgoldstein@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, William Karesh <karesh@ecohealthalliance.org>, Elizabeth Leasure <ealeasure@UCDAVIS.EDU>, Kevin Olival <olival@ecohealthalliance.org>
Cc: Alison Andre <andre@ecohealthalliance.org>, Amanda Andre <amanda.andre@ecohealthalliance.org>, Megan M Doyle <mmdoyle@UCDAVIS.EDU>, Ava Sullivan <sullivan@ecohealthalliance.org>, Molly Turner <turner@ecohealthalliance.org>, Emma Lane <lane@ecohealthalliance.org>, Brooke Genovese <bgenovese@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>
Subject: RE: Reminder - EB call May 30 9am PST/12pm EST
Sent: Mon, 28 May 2018 22:45:15 +0000

Hi PREDICT EB team,

<<CORRECTION>>

EB will be on **Wednesday May 30 at 9am PST/12pm EST** at the usual time (not 10am PST).
Sorry for any confusion that my previous email may have caused.

Happy Memorial day,
Eri

From: predict-request@ucdavis.edu <predict-request@ucdavis.edu> **On Behalf Of** [REDACTED]
Sent: Friday, May 25, 2018 2:52 PM
To: Valitutto, Marc <ValituttoM@si.edu>; David John Wolking <djwolking@ucdavis.edu>; Amanda Fine <afine@wcs.org>; Brian H Bird <bhbird@gmx.ucdavis.edu>; Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>; Churchill, Carolina <[REDACTED]>; Corina Grigorescu Monagin <cgmonagin@UCDAVIS.EDU>; Dawn Zimmerman <Zimmermand@si.edu>; Eddy Rubin <erubin@metabiota.com>; Evelyn Luciano <luciano@ecohealthalliance.org>; Jon Epstein <epstein@ecohealthalliance.org>; Karen Saylor <ksaylor@metabiota.com>; Leilani Franciso <francisco@ecohealthalliance.org>; Murray, Suzan <MurrayS@si.edu>; Peter Daszak <daszak@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>; Woutrina A Smith <wasmith@ucdavis.edu>; Sarah Olson <[REDACTED]>; Simon Anthony <sja2127@columbia.edu>; Tammie O'Rourke <torourke@metabiota.com>; Tracey Goldstein <tgoldstein@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>; William Karesh <karesh@ecohealthalliance.org>; Elizabeth Leasure <ealeasure@ucdavis.edu>; Kevin Olival <olival@ecohealthalliance.org>
Cc: Alison Andre <andre@ecohealthalliance.org>; Amanda Andre <amanda.andre@ecohealthalliance.org>; Megan M Doyle <mmdoyle@UCDAVIS.EDU>; Ava Sullivan <sullivan@ecohealthalliance.org>; Molly Turner <turner@ecohealthalliance.org>; Emma Lane <lane@ecohealthalliance.org>; Brooke Genovese <bgenovese@ucdavis.edu>; predict@ucdavis.edu
Subject: [predict] Reminder - EB call May 30

Hi PREDICT EB team,

This is a friendly reminder that the next EB call will be on Tuesday May 29, 10 am PST/1pm EST.
Please let me know if there are any agenda items that you would like to discuss.

Have a wonderful weekend,

[REDACTED]

REDACTED
School of Veterinary Medicine
University of California, Davis

From: Dennis Carroll <dcarroll@usaid.gov>
Sent: Sun, 1 Jul 2018 23:04:16 -0400
Subject: Re: Time Sensitive - Response to recent Commentary in Nature on the GVP
To: Peter Daszak <daszak@ecohealthalliance.org>
Cc: Cara Chrisman <cchrisman@usaid.gov>, "Morzaria, Subhash (TCE)" <[REDACTED]>, Jonna Mazet <jkmazet@ucdavis.edu>, "George F Gao (gaof@im.ac.cn)" <gaof@im.ac.cn>, Carlos Morel <cmmorel@gmail.com>, "Subhash P Morzaria [REDACTED]", Ariel Pablos-Mendez [REDACTED] Oyewale Tomori [REDACTED], "ap39@cumc.columbia.edu" <ap39@cumc.columbia.edu>, Nathan Wolfe <nwolfe@metabiota.com>, Eddy Rubin <erubin@metabiota.com>, Brooke Watson <watson@ecohealthalliance.org>, [REDACTED] [REDACTED] Hongying Li <li@ecohealthalliance.org>

Well done on the response Peter. I heard you also did a great job making the case for GVP at the OH Conference. FYI, just wrapped up a "GVP Tour" in Japan with Eri Met with a great cross section of the scientific and policy community in Tokyo and Sapporo. Lots of interest and likely follow up of national forum to discuss Japan's role. Special kudos to Eri for arranging many of the meetings and doing a great job presenting the Predict evidence

d

Sent from my iPhone

On Jul 2, 2018, at 1:26 AM, Peter Daszak <daszak@ecohealthalliance.org> wrote:

Dear All,

Just to let you know that I did submit the response to Holmes *et al.* I checked in with *Nature* and they only allow 300 words, normally 3 authors for a response to a comment, and usually no figures. I included all of your comments then edited back to 435 words, and included a figure and all of us as authors – let's see how it goes. Note that I've toned down some of the rhetoric to try and take the 'high road' and keep this as a scientific debate rather than a snarky exchange...I've attached the as-submitted text above.

Also – you should know that I gave a talk at the Pasteur Institute, Paris last week at a 1918 flu centenary event. Eddie Holmes spoke after me on the topic "The Fallacy of Predicting Emerging Diseases". I've known Eddie for many years, and he'd submitted that talk a few months earlier, so it wasn't necessarily a direct swipe at the GVP. He also sent me a polite email the day before apologizing for the aggressive title and commenting that he would only show one slide critiquing the GVP.

All that said, I spoke first and gave a solid rebuttal to his critique, including pointing out that he inflated the GVP costs 42 times. I also listed out a series of ways the GVP will target sampling to increase likelihood of finding important viruses, and a series of direct benefits we can expect to public and livestock health. It went down well, and although I'm sure Eddie Holmes was less critical because I was in the room, his response was amicable and polite ...

Let's see what the response is from *Nature*, and if they aren't willing to publish our response, I'll get ready to maybe expand our arguments and submit as a commentary to another journal.

Cheers,

Peter

Peter Daszak
President

EcoHealth Alliance
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UCDUSR0009991

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@PeterDaszak
@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: Cara Chrisman [<mailto:cchrisman@usaid.gov>]

Sent: Tuesday, June 19, 2018 9:44 AM

To: Morzaria, Subhash (TCE)

Cc: Jonna Mazet; Peter Daszak; George F Gao (gaof@im.ac.cn); Carlos Morel; Subhash P Morzaria
[REDACTED]; Ariel Pablos-Mendez; Oyewale Tomori: ap39@cumc.columbia.edu; Nathan Wolfe;
Eddy Rubin; Dennis Carroll (DCarroll@usaid.gov); Brooke Watson; [REDACTED] Hongying Li

Subject: Re: Time Sensitive -Response to recent Commentary in Nature on the GVP

Hi Peter,

This is past the deadline, but if you're still compiling edits, I've attached another draft with additional edits building off of what Subhash shared on Saturday.

Best,
Cara

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: (571) 551-7413

Cell: [REDACTED]

E-mail: cchrisman@usaid.gov

On Sat, Jun 16, 2018 at 11:42 AM, Morzaria, Subhash (TCE) <[REDACTED]> wrote:

Dear Peter,

I have inserted my comments in track changes mode in the same the document (see attached) that Jonna has used. Excellent work and hope that this time the response will be published.

I think that the key message that is clearly coming through is that GVP does not preclude the various ongoing surveillance programs. The GVP actually will enhance these efforts through availability of better, and more improved diagnostics enabling early detection of spill over events of a whole range of new and existing viruses, that has not been possible before. This will also result in dramatically more cost effective early response capabilities of emerging and re-emerging infectious diseases.

With best regards,
Subhash

From: [REDACTED] On Behalf Of Jonna Mazet

Sent: Friday, June 15, 2018 9:16 PM

To: Peter Daszak <daszak@ecohealthalliance.org>

Cc: George F Gao (gaof@im.ac.cn) <gaof@im.ac.cn>; Carlos Morel <[REDACTED]>; Morzaria, Subhash (TCE)
[REDACTED]; Subhash P Morzaria ([REDACTED]);
Ariel Pablos-Mendez [REDACTED]; Oyewale Tomori <[REDACTED]>;
ap39@cumc.columbia.edu; Nathan Wolfe <nwolfe@metabiota.com>; Eddy Rubin <erubin@metabiota.com>; Dennis
Carroll (DCarroll@usaid.gov) <DCarroll@usaid.gov>; Brooke Watson <watson@ecohealthalliance.org>; Cara
Chrisman <cchrisman@usaid.gov>; [REDACTED]; Hongying Li <li@ecohealthalliance.org>

Subject: Re: Time Sensitive -Response to recent Commentary in Nature on the GVP

Very nicely done!

Thank you and Brooke for the heavy-lifting.

I have suggested some insertions and added a comment that I think we might want to address.

Funnily, I was having a chat with Julie Segre (NIH), who didn't know I was involved with the GVP, at the Forum. She asked me if I had seen the Holmes et al. article. I said that I had. She said, didn't you think that was a silly (inferred pathetic) foot stomping from one research group just jealous of another. I laughed & told her that I was from the conceptual other. We had a good giggle. Her general tenor was that NIH, including NIAID, think the GVP is a good idea, and then she offered collaboration for sequencing.

Really appreciate the good work,

Jonna

On Mon, Jun 11, 2018 at 8:54 AM, Peter Daszak <daszak@ecohealthalliance.org> wrote:

Dear Co-authors,

Some of you have already seen a critique of predictive approaches to pandemic prevention that cites our GVP paper and was published in *Nature* last week:

<https://www.nature.com/articles/d41586-018-05373-w>

I feel that it is important to respond, given the high profile nature of the journal, and the inaccuracies of assumptions and analysis this article contains. Brooke, Dennis and I have therefore drafted a response that we'd like you to look at. There are three key issues we highlight:

1. That the surveillance vs. prevention argument is a false dichotomy
2. Inaccurate comparison of GVP vs. other budgets (and please look at the PDF file that re-creates the Figure from the *Nature* Comment).
3. Direct value of GVP data for mitigating outbreaks

Please read the response, make very brief edits, and let us know if you will join as an author. I'm hoping to respond rapidly, **so if you can get any comments back by Friday 15th June (This Friday), that would be much appreciated!!**

We will then circulate further to the SC of the GVP to see if others will also sign on to this.

Cheers,

Peter

Peter Daszak

President

EcoHealth Alliance
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www.ecohealthalliance.org

[@PeterDaszak](#)

[@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: Peter Daszak

Sent: Thursday, March 22, 2018 12:37 PM

To: 'George F Gao' (gaof@im.ac.cn); 'Carlos Morel'; 'Subhash (FAORAP) Morzaria' (**REDACTED**); 'Subhash P Morzaria' (**REDACTED**); 'Ariel Pablos-Mendez'; 'Oyewale Tomori'; ap39@cumc.columbia.edu; 'Dennis Carroll' (DCarroll@usaid.gov); 'Nathan Wolfe'

Cc: 'Jonna Mazet'; Brooke Watson; 'Cara Chrisman'; 'Eri Togami'; Hongying Li

Subject: Time Sensitive - another letter to Science about the GVP - Needs your response

Importance: High

Dear Co-authors,

We've now received a 'letter' about our Science paper (see attachment 'aat5918_Other_seq1_vq.doc'). As you'll see, this is from the same authors as the 'Technical Comment' that we already responded to. I checked with *Science*, and they have asked us to respond, so I drafted a response (attached) which Jonna has helped with. I now need all of you to read the response, then either agree to be an author of that response and send me any edits or comments, or decline to be listed as an author.

Note that we are allowed 600 words maximum and 10 references. We're currently at ~560 words, so please don't add a lot of text!

Also, like the Technical Comment, *Science* editors often will choose not to publish the correspondence, but in this case, if they do it will appear in the journal in print. I've therefore argued back strongly against the points raised by these authors, and made sure to focus the response back onto the GVP (and away from PREDICT), so we get value if it is published.

Please can I ask all of you to respond by email ASAP, and certainly by **5pm Monday March 26th**

At that point, I'll insert edits, confirm authorship and send this back to *Science* for them to decide on the merits of the discussion, ahead of the deadline.

Cheers,

Peter

Peter Daszak

President

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Tel. +1 212-380-4474

www.ecohealthalliance.org

[@PeterDaszak](#)

[@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.

<Response to Holmes et al Final.docx>

UCDUSR0009994

From: Dennis Carroll <dcarroll@usaid.gov>
Sent: Thu, 9 May 2019 13:04:51 -0400
Subject: Re: Proposed dates for the 1st TVPP Core Group meeting
To: Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>
Cc: Cara Chrisman <cchrisman@usaid.gov>, [REDACTED], Jonna Mazet <jkmazet@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>, Daniel Schar <dSchar@usaid.gov>

My flight is 9:05 am on TG 415. If needed I could go later in the day.

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, May 9, 2019 at 1:01 PM Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

That's great. Will plan your meeting itinerary accordingly. Not sure what time your departure flight to Putrajaya on June 25?

Best regards,
Sudarat

Sent from my mobile.

On May 9, 2019, at 11:55 PM, Dennis Carroll <dcarroll@usaid.gov> wrote:

Sudarat, thanks. June 24 should work. I have just booked my flights and am scheduled to arrive in Bangkok from Chiang Mai on June 21 and depart for Putrajaya on June 25.(FYI, I will arrive in Chiang Mai on June 17).

d

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

Office: 571-551-7109

Mobile: [REDACTED]

On Wed, May 8, 2019 at 9:25 PM Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

Apologies, i mean June 24 or 25 before your departure to Putrajaya.
Best regards,
Sudarat

Sent from my mobile.

On May 9, 2019, at 8:21 AM, Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

Dear Dennis and Cara,
It has been such a long process to get an official designation from each government sector (

DLD, DNP, and DDC) to serve as a member of TVPP core group. Now we got all of them including the three representatives from Universities (by voting) on board . The 1st TVPP core group meeting will be organized during the first week of June. We may plan the second meeting 'if you will be in BKK on June 25 or 26 right after ISWALD conference.

Best regards,
Sudarat

Sent from my mobile.

Begin forwarded message:

From: "REDACTED"
<REDACTED>

Date: May 9, 2019 at 7:39:15 AM GMT+7

To: "prasert.aue@mahidol.ac.th" <prasert.aue@mahidol.ac.th>, "noppavan.j@dmisc.mail.go.th" <noppavan.j@dmisc.mail.go.th>, "REDACTED", "REDACTED", "pilaipan.put@mahidol.ac.th" <pilaipan.put@mahidol.ac.th>, "supapon.che@mail.kmutt.ac.th" <supapon.che@mail.kmutt.ac.th>, "romebua@health.moph" <romebua@health.moph>

Cc: Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>, "REDACTED", Daniel Schar <dschar@usaid.gov>

Subject: Proposed dates for the 1st TVPP Core Group meeting

Dear all,

Reference is made to the Roundtable Dialogue towards Establishing a Thailand National Virome Project (October 2018) and the Consultation Meeting – Next Steps for Thailand Virome Project Partnership (January 2019). We would like to congratulate you on your nomination / selection to serve as members of the TVPP Core Group. The official appointment of the TVPP Core Group members is currently under the process by the DMSc. While waiting for the official appointment, and as agreed during the previous meeting in January, we would like to solicit your available to organize a 1-day meeting among the TVPP Core Group members. We have created a Doodle poll in the following link to identify the best suitable date during the first week of June. Objectives and a program of the meeting will be shared with you soon. Please kindly provide your feedback by Friday 24 May so we can identify other logistics.

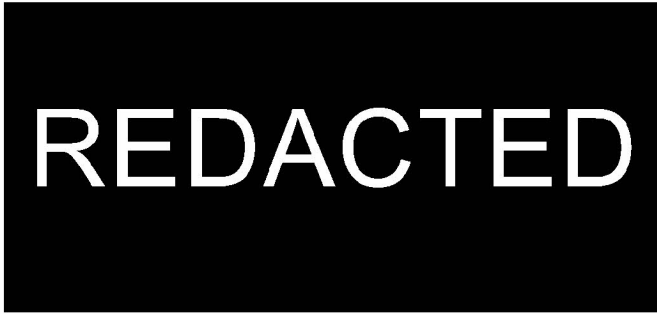
<https://doodle.com/poll/pn2q3fhxz7vq9itm>

Best regards,

Kachen Wongsathapornchai, DVM, PhD

Emergency Centre for Transboundary Animal Diseases (ECTAD)

Food and Agriculture Organization of the United Nations (FAO)



<image001.png>

From: David J Wolking <djwolking@ucdavis.edu>
Sent: Thu, 8 Aug 2019 14:20:07 -0700
To: Lisa Kramer <lkramer@usaid.gov>
Cc: Andrew Clements <aclements@usaid.gov>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Corina Grigorescu Monagin <cgmonagin@ucdavis.edu>, Karen Saylor <ksaylor@labyrinthgh.com>
Subject: [predict] Re: USAID support to INRB
[P2 DRC Impact \(April 2019\).pdf](#)
[USAID Capacity Strengthening to the INRB final.docx](#)

Hi Lisa,
Attached is a quick 1 pager we developed today along with the DRC dashboard pages from our April 2019 report. We are still working on DRC's final report but that will be available later this month.

Let us know if you need anything else....

David

On Thu, Aug 8, 2019 at 6:56 AM Lisa Kramer <lkramer@usaid.gov> wrote:

Hi David,
further to the message I just sent, if you have any specifics about support for diagnostics and response to outbreaks in DRC, that would be great.
Thanks

Lisa Kramer
Regional Emerging Threats Advisor
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

REDACTED | LKramer@usaid.gov
USAID.gov | **REDACTED** | [Flickr](#) | [YouTube](#)

On Thu, Aug 8, 2019 at 2:48 PM Lisa Kramer <lkramer@usaid.gov> wrote:

Hello David,

USAID/DRC will host a high-level visitor and we are looking for some specific bullets about support that has strengthened INRB. Jean-Felly has provided a preliminary list below. Can you add to this for me? I don't need extensive text, just bullet points. I think they need these today if possible.

thanks,
Lisa

Lisa Kramer
Regional Emerging Threats Advisor
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

REDACTED | LKramer@usaid.gov
USAID.gov | **REDACTED** | [Flickr](#) | [YouTube](#)

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

From: Jean-Felly Numbi <jnumbi@usaid.gov>
Date: Thu, Aug 8, 2019 at 2:43 PM
Subject: Re: USAID support to INRB
To: Bethany Haberer <bhaberer@usaid.gov>
Cc: Lisa Kramer <lkramer@usaid.gov>

Hi Bethany,

Over 10 passed years, PREDICT has contributed to INRB staff capacity building in virology skills;
Provided modern equipment such are high capacity Mobil Lab that is used for Ebola testing, Machinery to produce liquid Azote that allows storing samples below 120 celsius degrees.
Through virus sampling, PREDICT was able to store over 128,000 virus (among them known virus as unknown virus)
Thanks,
Jean-Felly.

On Thu, Aug 8, 2019 at 2:03 PM Bethany Haberer <bhaberer@usaid.gov> wrote:

Hi Jean Felly and Lisa,

Would you have a couple of examples of how USAID has strengthened the INRB over the years? The DART would like to include it in their briefing materials. Just a bullet or two would be great if you have the information at your fingertips.

Thanks,
Bethany

Bethany A. Haberer

Deputy Health Office Director | **USAID**/République démocratique du Congo
office (+243) 81 555 4565 | mobile **REDACTED** bhaberer@usaid.gov

--

Jean-Felly Numbi

USAID-DRC TB& Infectious Disease Advisor

Office Phone #: +243 81 555 45 22

Cellular Phone #: **REDACTED**

USAID Capacity Strengthening to the Institut National de Recherche Biomédicale (INRB)

Since 2009, The PREDICT team has been hosted by the National Institute for Biomedical Research (INRB) in the Democratic Republic of Congo. INRB is the nation's leading infectious disease reference laboratory, and through this partnership, PREDICT worked to strengthen capacity and further characterize and understand the potential for zoonotic disease emergence and spread. PREDICT worked to reinforce skills and build professional capabilities within INRB's network of leading national emerging infectious disease specialists, training scientists in core skills required for One Health surveillance, virus detection, and outbreak response.

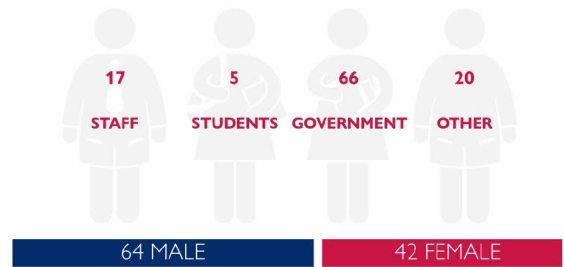
PREDICT provided guidance and mentorship empowering INRB scientists through trainings targeting DRC's One Health workforce (government staff, medical and veterinary students, and other health specialists). Through these in-service training opportunities, animal and human health professionals learned core skills and procedures for sample collection, disease detection, results interpretation, and management of a highly functional laboratory, which includes keeping inventory, sample workflow to avoid contamination, and preparing for maintaining sample integrity in the event of power outages. In addition, PREDICT supported infrastructure and facility enhancements providing -80 freezers, a mobile lab to further empower outbreak response capabilities, and a liquid nitrogen generator for maintaining effective cold chain.

PREDICT achievements to date:

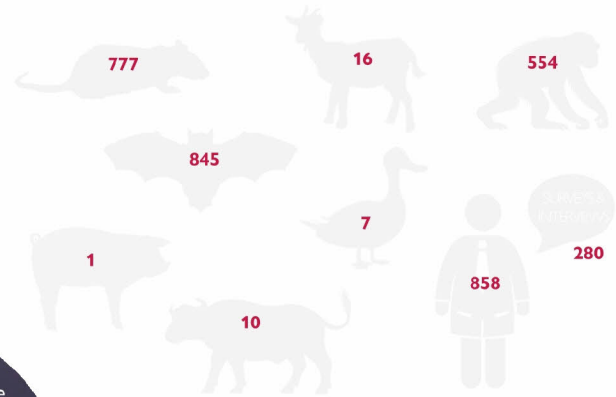
- Trained >100 individuals in core skills for One Health surveillance and disease detection
- Sampled >3K individuals (humans and animals)
- Interviewed >300 individuals about social and behavioral risks of zoonotic disease transmission
- Conducted >28K tests for priority zoonoses and emerging viral threats.
- Detected 50 viruses (26 known viruses and 24 new viruses), including Ebola Zaire and multiple viruses of relevance to human and animal health

On several occasions the PREDICT team was able to assist the INRB and the DRC government with the response to disease outbreaks in the country. Outbreak response support included 3 separate Ebola virus outbreaks, where PREDICT provided personal protective equipment, capacity for field and laboratory testing of samples, and logistical support. In addition, PREDICT assisted during a Yellow Fever outbreak in all 26 provinces by providing cold chain support and purchasing mobile laboratory facilities. Our team was engaged during an outbreak of unknown origin at the Lola Ya Bonobo sanctuary in Kinshasa, where we provided diagnostic testing support and investigation recommendations. Finally in 2014, PREDICT's animal sampling team conducted outbreak investigations in the affected area and supported testing at INRB confirming the presence of Zaire Ebola virus RNA from a human, all part of outbreak response support towards identifying the causative agent of an unknown hemorrhagic fever. PREDICT testing support yielded the first sequence of this outbreak's strain and helped contribute to the rapid containment of the epidemic.

WORKFORCE DEVELOPMENT



ONE HEALTH SURVEILLANCE

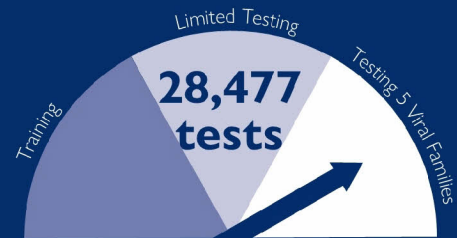


IMPACT

106 trained in One Health skills
3,068 individuals sampled (animals & humans)
1,138 individuals interviewed
8 unique viruses detected

LAB STRENGTHENING

· Institut National de Recherche Biomédicale



VIRAL FINDINGS

P1

49 new viruses
22 known viruses

P2

1 PREDICT-1 viruses
7 known viruses

DEMOCRATIC REPUBLIC OF THE CONGO



Global Health Security Agenda

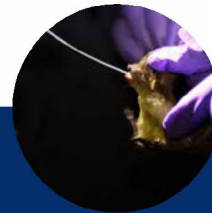
PLACIDE MBALA, MPH, PhD

PREDICT/DRC, Former Laboratory Manager, INRB
Current Director of Viral Hemorrhagic Fevers
Diagnostics Units, INRB

Institut National de Recherche Biomedicale

PARTNERS

- Metabiota, Inc.
- Institut National de Recherche Biomédicale
- Kinshasha School of Public Health
- Mountain Gorilla Veterinary Project
- University of California, Davis



Dr. Mbala now directs the Viral Hemorrhagic Fevers Diagnosis Unit at INRB, and is a key player in the training of physicians, biologists, and laboratory technicians, as well as in the establishment of field laboratories integral to Ebola outbreak response in his country. PREDICT provided Dr. Mbala the opportunity to gain and refine his skills in laboratory management, molecular biology techniques, and field investigations, and through his tireless work and ongoing contributions, Dr. Mbala and those he mentors, improve the capacity of DRC to respond to outbreaks with a One Health approach, and bring a greater understanding of zoonotic diseases in this high-risk area of the world.

From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 4 Sep 2019 13:25:24 +0200
Subject: Re: PREDICT International Travel Requests
To: Katherine Leasure <kaleasure@ucdavis.edu>
Cc: PREDICTMGT <predictmgt@usaid.gov>, Predict inbox <predict@ucdavis.edu>, Jonna Mazet <Jkmazet@ucdavis.edu>

Approved subject to mission concurrence.

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

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

On Wed, Sep 4, 2019 at 2:06 AM Katherine Leasure <kaleasure@ucdavis.edu> wrote:

Please find below international travel requests for your review and approval. Please let me know if you have any questions. Thanks!

1. Epstein, Hagan (Liberia): \$1600 airfare each/\$295 (Monrovia) max daily per diem
2. Monagin (Guinea): \$2400 airfare/\$327 (Conakry) max daily per diem
3. Belkhiria (Senegal): \$900 airfare/\$261 (Dakar) max daily per diem

Travel Requests –

1. EcoHealth Alliance would like to request travel approval for Dr. Jon Epstein and Emily Hagan to travel from New York, NY, USA to Monrovia, Liberia from September 22-28, 2019 for the PREDICT close-out partners and stakeholders meetings for sustainable One Health in Liberia.

Trip Purpose: Dr. Jon Epstein and Ms. Emily Hagan will travel to Liberia to conduct the PREDICT close-out meetings with partners, stakeholders, and key implementing collaborators. Dr. Epstein is the PREDICT West Africa Global Lead for Liberia and will present on the work of PREDICT globally focusing on Liberia's role in the EPT-2 mission and the regional work that has been done in West Africa and Liberia, focusing on key scientific implications for disease preparedness, including the Ebola Zaire finding. Ms. Hagan is the Behavioral Risk Coordinator for PREDICT and will build on past trainings of applied Behavioral Risk evaluation to finalize data analysis advancing Year 5 deliverables and present the Behavioral Risk work of the PREDICT West Africa to stakeholders. This will also serve as a time to provide final support to manage the successful completion of all closeout related action items.

This visit meets the objectives and aims for the PREDICT required closeout meeting, providing the opportunity for sharing the success of PREDICT and ensuring results and data sharing and dissemination to country partners, key stakeholders, and ministries in Liberia. These meeting will present the findings and their implications to our partners with open session time for discussion for policy implications and potentially future multisectoral disease preparedness prevention campaigns. These meetings will also serve to facilitate the conversation about One Health strategies that can be implemented in Liberia for prevention and control of other zoonotic disease threats in the country. These meetings provide a valuable opportunity for sharing the mission of EPT-2's work through the success of the PREDICT West Africa project for sustainable One Health activities in Liberia. As the Global Lead and Behavioral Risk Coordinator of PREDICT Dr. Epstein and Ms. Hagan's presence is invaluable to support operational One Health approaches and future directions for the country's sustainable capacity strengthening in the close-out meetings and continued regional initiatives that allow for broader engagement and success building on the successful foundation of PREDICT.

2. UC Davis would like to request travel approval for Dr. Corina Monagin to travel from Los Angeles, CA, USA to Conakry, Guinea from September 23 to October 3, 2019 for project close-out and final meetings with stakeholders.

Trip purpose: Dr. Monagin will be traveling to Conakry to meet with PREDICT team members and stakeholders to officially close out the PREDICT project in Guinea. She will be participating in events and assisting the teams with close out procedures.

3. UC Davis would like to request travel approval for Dr. Jaber Belkhiria to travel from Tunis, Tunisia to Dakar, Senegal from September 28 to October 3, 2019 for project close-out and final meetings with stakeholders.

Trip purpose: Dr. Belkhiria will be traveling to Dakar to meet with PREDICT team members and stakeholders to officially close out the PREDICT project in Senegal. He will be participating in events and assisting the teams with close out procedures.

--

Katherine Leasure

HR/Payroll/Financial Assistant

One Health Institute

530-752-7526

--

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.

To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAD6-xM%2BVLJsdDcS5mpPGFT4-oOE14WpnJuNGf2U2rKfXrHT%2Beg%40mail.gmail.com>.

From: Andrew Clements <aclements@usaid.gov>
Sent: Tue, 17 Sep 2019 00:52:47 +0000
Subject: Re: Bangladesh and budget revision request
To: Elizabeth Leasure <ealeasure@ucdavis.edu>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, "predictmgt@usaid.gov" <predictmgt@usaid.gov>

Budget revision request approved.

*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*

On Sep 6, 2019, at 9:54 PM, Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

Hi again. Please also note that an additional \$51K will be needed to cover in-country staff severance costs if the stop work order isn't lifted soon.

Thanks,
Liz

Elizabeth Leasure
Financial Operations Manager
One Health Institute
University of California, Davis
Cell: 530-304-1403

From: Elizabeth Leasure
Sent: Thursday, September 5, 2019 2:37:41 PM
To: Andrew Clements <aclements@usaid.gov>; Jonna Mazet <jkmazet@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>
Cc: predictmgt@usaid.gov <predictmgt@usaid.gov>
Subject: RE: Bangladesh and budget revision request

Hi Andrew. Please see the completed form attached. If you have any questions, 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, September 4, 2019 10:18 AM
To: Jonna Mazet <jkmazet@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>; Elizabeth Leasure <ealeasure@UCDAVIS.EDU>
Cc: predictmgt@usaid.gov
Subject: Bangladesh and budget revision request

Here's a template you can use for the proposed FY18 budget revision to cover the Bangladesh deficit.

Please propose what you think is easiest/cleanest.

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

From: Brian Bird <bhbird@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
CC: David J Wolking <[REDACTED]>; Jonna Mazet
<jkmazet@ucdavis.edu>; predictmgt@usaid.gov <predictmgt@usaid.gov>
Sent: 9/24/2019 2:20:15 PM
Subject: Re: Check in

Yes. We should be able to clarify all of these with Monica this week since I'm here in Freetown for the next several days. I'd sent an earlier draft of equipment and plans that we had discussed during my last trip, and we can close the loop on everything to make for a tidy wrap-up of the project on Friday.

B

On Tue, Sep 24, 2019 at 7:21 PM Andrew Clements <aclements@usaid.gov> wrote:
Can you follow up with Monica? 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*

Begin forwarded message:

From: Monica Dea <mdea@usaid.gov>
Date: September 24, 2019 at 9:19:10 PM GMT+2
To: aclements@usaid.gov
Subject: Check in

Hi Andrew,
I hope all is well.
Can you please help me with the process for assets disposition? What are the parameters and who will make the final decision? How much time we have to have this completed?
Also, do you have the SL draft report?
I appreciate all your help and support.
Thank you.

Sent from my iPhone

--

Brian Bird, UC Davis, sent from mobile device

From: "MOHAMMAD FARHAN BIN RUSLI ." <farhan@iium.edu.my>
Sent: Thu, 23 Apr 2020 06:41:03 +0800
Subject: Re: Disclosure Forms - OHW-NG One Health COVID-19 ECHO sessions on 4/22 & 4/23
To: Deodatus Kakoko [REDACTED]
Cc: Amanda M Dezan <aMdezan@salud.unm.edu>, Amy J Armistad <AArmistad@salud.unm.edu>, Brian H Bird <bhbird@ucdavis.edu>, Bruce B Struminger <BStruminger@salud.unm.edu>, Constance Were <cwere@salud.unm.edu>, Eunah Cho Preston <eecho@ucdavis.edu>, Jennifer K Lane <jklane@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, Jutta Lehmer <JLehmer@salud.unm.edu>, Marcela Uhart <muhart@ucdavis.edu>, Nistara Randhawa <nrandhawa@ucdavis.edu>, Teresa Eirena Sorvillo <tesorvillo@ucdavis.edu>, Terra Kelly <trkelly@ucdavis.edu>, Woutrina A Smith <wasmith@ucdavis.edu>, "abrha.bsrat@mu.edu.et" <abrha.bsrat@mu.edu.et>, [REDACTED], "epstein@ecohealthalliance.org" <epstein@ecohealthalliance.org>, [REDACTED], "jhumuza@nursph.org" <jhumuza@nursph.org>, "jkilllewo@afrohun.org" <jkilllewo@afrohun.org>, "lethihuong@hmu.edu.vn" <lethihuong@hmu.edu.vn>, [REDACTED], [REDACTED], [REDACTED], [REDACTED]

I have nothing to disclose

On Thu, Apr 23, 2020 at 03:54 Deodatus Kakoko [REDACTED] > wrote:

I have nothing to disclose

Deodatus CV Kakoko

On Wed, Apr 22, 2020 at 8:21 PM Constance Were <cwere@salud.unm.edu> wrote:

Hello AFROHUN and SEAOHUN session panelists,

We look forward to your participation in the upcoming sessions. As part of our preparations for these sessions, we have worked diligently to be able to provide Continuing Professional Development (CPD) credits for all participants. If you could kindly sign the Disclosure Form that I have sent you via Adobe Sign we would appreciate it.

If it is not signed we are out of compliance with the accreditation society and cannot provide the credits to anyone.

If you are unable to sign the Disclosure Form, simply send a reply email to me stating, **"I have nothing to disclose"**. Then no further action will be required on your part.

Your prompt attention is appreciated.

Regards

Connie

Constance Were, MBA

UCDUSR0010008

Program Specialist, Global Initiatives

ECHO Institute™

University of New Mexico Health Sciences Center

Office: +1.505.925.7267

Cell: **REDACTED**

cwere@salud.unm.edu

<http://echo.unm.edu/>  [@ProjectECHO](https://twitter.com/ProjectECHO)

[Learn more about the Global Health Initiative](#)



--

Dr. Mohammad Farhan bin Rusli
Asst. Professor DU51
Public Health Medicine Specialist

REDACTED

REDACTED

From: Carlos Morel **REDACTED**
Sent: Tue, 10 Jan 2017 18:56:37 -0200
Subject: Travel arrangements
Cc: katherine Leasure <kaleasure@ucdavis.edu>, Renata Curi Hauegen <rcuri@cdts.fiocruz.br>, Carlos M Morel <morel@cdts.fiocruz.br>
To: Dennis Carroll <dcarroll@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>

Dear Dennis an Jonna,

Thanks for your feedback to my message and also for your support.

From 1979 - when I first travelled to UCLA to start a collaborative project funded by Brazil's CNPq and US National Science Foundation - until 1998 when I was nominated Director TDR at WHO, I only flew economy, even during very long international travels. Either paid by Brazilian agencies of S&T or by WHO/TDR as a temporary adviser to TDR programs before becoming its Director. Even a travel that started in Geneva and then forced me to go to Thailand, Los Angeles, New York and back to Rio (yes, a round trip around the world) was in economy: I had to deliver a seminar in each city and I did not complain, as I was young enough and felt that as routine.

During my period as Director TDR or a member of the Board of Directors of the TB Alliance, they granted me business for long travels. Coming back to Brazil in 2004 one episode really had a big impact on me: the death of John La Montagne, deputy director of NIAID, while standing in line at the Mexico City airport (http://www.nytimes.com/2004/11/06/health/john-lamontagne-61-expert-on-development-of-vaccines-dies.html?_r=0). We were colleagues at the TB Alliance BoD, became colleagues and friends and John started to collaborate with us at Fiocruz shaping a very big collaboration Fiocruz-NIH/NIAID. Once we invited him to come for a two day-meeting in Rio; one week before the meeting he called me to say that a new important meeting at NIAID forced him to shorten his travel to Rio to only ONE DAY - having dinner with us, participating at the meeting in the morning & early afternoon, going back to the Rio airport in the evening. I tried to convince him to cancel his trip, arguing that we could find another suitable date, etc.; no way. John was so committed to the collaboration that he came to the meeting, spending less than 24 hours in Rio. Some months later I got a phone call from Maria Freire, then the CEO of the TB Alliance, crying because of John's death in Mexico airport. John was unique as a colleague, friend and collaborator and was pushed to his limits traveling very long flights in economy, due to the NIH travel policy.

Summary of issues to consider:

- The fastest itinerary (Air France or KLM) Rio-Beijing takes **23 hours and 15 minutes** - with a cheaper option taking **27 hours**;
- I do hope that you can find at the UC Davis travel policy a way to allow business class when dealing with **very** long travels - at least for people of my age, 73;
- If UC Davis wants someone to arrive the same day of the meeting after traveling 23+ hours, they should be prepared to have zombies participating, sleeping during meeting hours or missing sessions due to exhaustion;
- Either flying economy or business, we (both Renata and myself) are not prepared to accept an itinerary that does not allow 1-2 days of rest after over 20 hours flight (we are prepared to cover the hotel expenses for these additional days);
- My MD colleagues as well as my private physician know well how active I am and therefore I will not ask them for a waiver due to medical reasons.

I really believe in the GVP project and really want to attend the Beijing meeting, but not at any cost. Renata has just forwarded to Katie a proposed itinerary and the information requested from her present regular passport (which expires next April). I propose the following: as soon as Renata receives her travel reservation and be able to apply for her travel license and service passport, we then move on this discussion, ok?

Best,

Carlos

Sent: Mon, 13 Feb 2017 16:55:22 -0800
Subject: Re: PREDICT Management Team call
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: "William B. Karesh" <karesh@ecohealthalliance.org>

I know, right?

On Mon, Feb 13, 2017 at 1:15 PM, William B. Karesh <karesh@ecohealthalliance.org> wrote:

#2: Yes, we really need another UN meeting on MERS, paid for with US tax payers dollars.

Sent from my iPhone

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](tel:+12123804463) (direct)
[+1.212.380.4465](tel:+12123804465) (fax)
www.ecohealthalliance.org

President, OIE Working Group on Wildlife

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

EPT 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 Feb 13, 2017, at 9:19 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Thanks -- sorry about the mic,
J

On Mon, Feb 13, 2017 at 11:16 AM, Andrew Clements <aclements@usaid.gov> wrote:

Sorry, the microphone on my phone seems to have broken halfway through the call so I will add a couple more things:

1. A heads up that we are hoping to do an update on the data meetings for the Mainz meeting. To include a summary of the August 2016 discussion and hopefully a preview of the 2017 discussion. If there are any proposed dates and location for the latter, we'd be interested in hearing those.
2. I heard from Subhash today that there will be a new MERS focal point at WHO Geneva who is formerly with Institut Pasteur. Subhash is hoping to host a technical MERS meeting sometime in the Apr-Jun 2017 timeframe.

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

Begin forwarded message:

From: **REDACTED**

To: "aclements@usaid.gov" <aclements@usaid.gov>, "ashek@usaid.gov" <ashek@usaid.gov>, "erubin@metabiota.com" <erubin@metabiota.com>, "karesh@ecohealthalliance.org" <karesh@ecohealthalliance.org>, Peter Daszak <daszak@ecohealthalliance.org>, "apereira@usaid.gov" <apereira@usaid.gov>, "francisco@ecohealthalliance.org" <francisco@ecohealthalliance.org>, Ava Sullivan <sullivan@ecohealthalliance.org>, "andre@ecohealthalliance.org" <andre@ecohealthalliance.org>, "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, "ksaylors@metabiota.com" <ksaylors@metabiota.com>, "sgillette@usaid.gov" <sgillette@usaid.gov>, "fuchs@ecohealthalliance.org" <fuchs@ecohealthalliance.org>, PREDICTMGT <predictmgt@usaid.gov>, "clouisduthil@usaid.gov" <clouisduthil@usaid.gov>, "lparish@usaid.gov" <lparish@usaid.gov>, "telnicki@metabiota.com" <telnicki@metabiota.com>, "luciano@ecohealthalliance.org" <luciano@ecohealthalliance.org>, "cchrisman@usaid.gov" <cchrisman@usaid.gov>, "ckjohnson@ucdavis.edu" <ckjohnson@ucdavis.edu>, "turner@ecohealthalliance.org" <turner@ecohealthalliance.org>

Subject: PREDICT Management Team call

You have been invited to the following event.

Title: PREDICT Management Team call

PREDICT Management Team Agenda

Monday, February 13, 2017

10:00 PST/1:00pm EST

REDACTED

Standing items

USAID Updates

1. Administrative items
 - a. Senior behavioral surveillance coordinator welcome and next steps
 - b. EMMR question follow up – new sector specific guidance, any implications to our plan?
 - c. March meeting in DC regarding PREDICT and GHSA
 - d. Mainz regional meeting
 - e. Success stories
 - f. Preparing for zoonotic disease prioritization workshops in Uganda and Tanzania
2. Mission communications round-up
 - a. RoC
 - b. Liberia
 - c. Viet Nam
 - d. Kenya - attachment
 - e. Cameroon
 - f. Senegal
3. GHSA M&E Workshop outcomes and path forward

4. Outbreak reporting coordination and Avian influenza response updates
(Mongolia, Uganda, Rwanda, Bangladesh, Cambodia...)

5. FAO collaboration/coordination updates (Billy)

a. FAO in Myanmar, Cambodia, Ghana

When: Mon Feb 13, 2017 7pm Zurich

Video call: Join video call

Calendar: aclements@usaid.gov

Who:

- * David J Wolking - organizer
- * ashek@usaid.gov
- * erubin@metabiota.com
- * karesh@ecohealthalliance.org
- * Peter Daszak
- * apereira@usaid.gov
- * francisco@ecohealthalliance.org
- * Ava Sullivan
- * andre@ecohealthalliance.org
- * jkmazet@ucdavis.edu
- * ksaylors@metabiota.com
- * sgillette@usaid.gov
- * fuchs@ecohealthalliance.org
- * PREDICTMGT
- * clouisduthil@usaid.gov
- * lparish@usaid.gov
- * telnicki@metabiota.com
- * luciano@ecohealthalliance.org
- * aclements@usaid.gov
- * cchrisman@usaid.gov
- * ckjohnson@ucdavis.edu
- * turner@ecohealthalliance.org

Event details:

REDACTED

Invitation from Google Calendar: **REDACTED**

You are receiving this email at the account aclements@usaid.gov because you are subscribed for invitations on calendar aclements@usaid.gov.

To stop receiving these emails, please log in to

REDACTED and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. Learn more at

REDACTED

From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: Andrew Clements <aclements@usaid.gov>
Cc: Chris Johnson <ckjohnson@ucdavis.edu>, David Wolking <djwolking@ucdavis.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>, "Alisa Pereira" <alisapereira@yahoo.com>, Jonna Mazet <jkmazet@ucdavis.edu>, "Shana Gillette" <sgillette@usaid.gov>
Subject: Re: PREDICT Management Team call
Sent: Tue, 14 Feb 2017 06:49:38 +0000

Hi Andrew,
I got dropped off the call from my end also.

#1, Do you think new WHO person is Maria van Kerkhove? She was helping them coordinate MERS work a couple of years ago and is now moving back to WHO.

#2, We have been discussing the second week of September for the next data meeting, in NYC. 11th - 15th.

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)
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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

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 Feb 13, 2017, at 2:19 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Thanks -- sorry about the mic,
J

On Mon, Feb 13, 2017 at 11:16 AM, Andrew Clements <aclements@usaid.gov> wrote:

Sorry, the microphone on my phone seems to have broken halfway through the call so I will add a couple more things:

1. A heads up that we are hoping to do an update on the data meetings for the Mainz meeting. To include a summary of the August 2016 discussion and hopefully a preview of the 2017 discussion. If there are any proposed dates and location for the latter, we'd be interested in hearing those.

2. I heard from Subhash today that there will be a new MERS focal point at WHO Geneva who is formerly with Institut Pasteur. Subhash is hoping to host a technical MERS meeting sometime in the Apr-Jun 2017 timeframe.

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*

Begin forwarded message:

From: REDACTED

To: "aclements@usaid.gov" <aclements@usaid.gov>, "ashek@usaid.gov" <ashek@usaid.gov>, "erubin@metabiota.com" <erubin@metabiota.com>, "karesh@ecohealthalliance.org" <karesh@ecohealthalliance.org>, Peter Daszak <daszak@ecohealthalliance.org>, "apereira@usaid.gov" <apereira@usaid.gov>, "francisco@ecohealthalliance.org" <francisco@ecohealthalliance.org>, Ava Sullivan <sullivan@ecohealthalliance.org>, "andre@ecohealthalliance.org" <andre@ecohealthalliance.org>, "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, "ksaylors@metabiota.com" <ksaylors@metabiota.com>, "sgillette@usaid.gov" <sgillette@usaid.gov>, "fuchs@ecohealthalliance.org" <fuchs@ecohealthalliance.org>, PREDICTMGT <predictmgt@usaid.gov>, "clouisduthil@usaid.gov" <clouisduthil@usaid.gov>, "lparish@usaid.gov" <lparish@usaid.gov>, "telnicki@metabiota.com" <telnicki@metabiota.com>, "luciano@ecohealthalliance.org" <luciano@ecohealthalliance.org>, "cchrisman@usaid.gov" <cchrisman@usaid.gov>, "ckjohnson@ucdavis.edu" <ckjohnson@ucdavis.edu>, "turner@ecohealthalliance.org" <turner@ecohealthalliance.org>

Subject: PREDICT Management Team call

You have been invited to the following event.

Title: PREDICT Management Team call
PREDICT Management Team Agenda
Monday, February 13, 2017
10:00 PST/1:00pm EST

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USAID Updates

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5. FAO collaboration/coordination updates (Billy)
 - a. FAO in Myanmar, Cambodia, Ghana

When: Mon Feb 13, 2017 7pm Zurich

Video call: Join video call

Calendar: aclements@usaid.gov

Who:

- * David J Wolking - organizer
- * ashek@usaid.gov
- * erubin@metabiota.com
- * karesh@ecohealthalliance.org
- * Peter Daszak
- * apereira@usaid.gov
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From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: Andrew Clements <AClements@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>
Cc: Chris Johnson <ckjohnson@ucdavis.edu>, David Wolking <djwolking@ucdavis.edu>, [REDACTED]
[REDACTED], "Shana Gillette" <sgillette@usaid.gov>, Catherine Machalaba <machalaba@ecohealthalliance.org>
Subject: PREDICT Management Team call: 1 more item
Sent: Tue, 14 Feb 2017 07:00:44 +0000

Also, I didn't get to mention the **Stakeholders Consultation on Planning, Costing, and Financing for accelerated IHR implementation and Global Health Security (27-28 Feb, Geneva):**

The meeting will help define the process of developing country action plans for health security (particularly multisectoral engagement, all-hazards considerations, and costing). We are invited to provide a brief presentation on One Health economics. It seems we could have a very meaningful role in the development of the costing process and integration of environmental aspects, and should encourage including PREDICT Country Coordinators in the country planning workshops (several EPT-2 countries will undergo country planning this year, including Bangladesh, Ethiopia, Jordan, Liberia, Tanzania, Senegal, and Sierra Leone).

We were invited as an outcome from the WB economics meeting and Ludy from WHO would like Catherine to attend so that they can discuss and use some of the One Health economics work we have been doing.

I think it's too late to submit and ITA, but we have some money left from our World Bank contract and I'm happy to use those funds.

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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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 Feb 13, 2017, at 2:16 PM, Andrew Clements <AClements@usaid.gov> wrote:

Sorry, the microphone on my phone seems to have broken halfway through the call so I will add a couple more things:

1. A heads up that we are hoping to do an update on the data meetings for the Mainz meeting. To include a summary of the August 2016 discussion and hopefully a preview of the 2017 discussion. If there are any proposed dates and location for the latter, we'd be interested in hearing those.

2. I heard from Subhash today that there will be a new MERS focal point at WHO Geneva who is formerly with Institut Pasteur. Subhash is hoping to host a technical MERS meeting sometime in the Apr-Jun 2017 timeframe.

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*

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Video call: Join video call

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From: Andrew Clements <aclements@usaid.gov>
Sent: Tue, 14 Feb 2017 08:28:09 +0100
Subject: Re: PREDICT Management Team call
To: "William B. Karesh" <karesh@ecohealthalliance.org>
Cc: Chris Johnson <ckjohnson@ucdavis.edu>, David Wolking <djwolking@ucdavis.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>, **REDACTED**, Jonna Mazet <jkmazet@ucdavis.edu>, Shana Gillette <sgillette@usaid.gov>

Thanks.

Don't remember her name but she's coming from IP Paris and worked in IP Cambodia at one point.

*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*

On Feb 14, 2017, at 7:49 AM, William B. Karesh <karesh@ecohealthalliance.org> wrote:

Hi Andrew,
I got dropped off the call from my end also.

#1, Do you think new WHO person is Maria van Kerkhove? She was helping them coordinate MERS work a couple of years ago and is now moving back to WHO.

#2, We have been discussing the second week of September for the next data meeting, in NYC. 11th - 15th.

BK

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On Feb 13, 2017, at 2:19 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Thanks -- sorry about the mic,
J

On Mon, Feb 13, 2017 at 11:16 AM, Andrew Clements <aclements@usaid.gov> wrote:

Sorry, the microphone on my phone seems to have broken halfway through the call so I will add a couple more things:

1. A heads up that we are hoping to do an update on the data meetings for the Mainz meeting. To include a summary of the August 2016 discussion and hopefully a preview of the 2017 discussion. If there are any proposed dates and location for the latter, we'd be interested in hearing those.
2. I heard from Subhash today that there will be a new MERS focal point at WHO Geneva who is formerly with Institut Pasteur. Subhash is hoping to host a technical MERS meeting sometime in the Apr-Jun 2017 timeframe.

Andrew

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Sent: Thu, 16 Feb 2017 19:11:36 -0800
Subject: Fwd: GVP Working Group Introductions
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Dennis Carroll <DCarroll@usaid.gov>
[GVP+Quad+Chart.pdf](#)

FYI,
J

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

From: **Jonna Mazet** <jkmazet@ucdavis.edu>
Date: Thu, Feb 16, 2017 at 7:10 PM
Subject: Re: GVP Working Group Introductions
To: "Capua, Ilaria" <icapua@ufl.edu>
Cc: Cara Chrisman <cchrisman@usaid.gov>, Jaime Sepulveda <Jaime.Sepulveda@ucsf.edu>, "REDACTED"
REDACTED

Hi Ilaria,
I can help with any sound bites if you'd like support. Best we have are the bullets Keiji and I worked out on the quad chart. I think you have it, but I've attached it. Also below is a very brief abstract that we had been using in advance of Bellagio, as well as bullets from the website. Not sure if it provides useful fodder for your discussion.
Let me know how else I can help,
Jonna

The Global Virome Project

The frequency of pandemics is increasing, driven by surging populations, environmental change and globalized trade and travel. The SARS, pandemic influenza, MERS, Ebola and Zika virus outbreaks illustrate that we are ill-prepared to mitigate the impact of a novel virus or prevent its emergence – leaving humanity vulnerable to catastrophe. Only a small proportion of viral threats have been identified (estimated to be much less than 1%) and fewer have had vaccines or counter measures developed. Over the coming century we will witness spillover from a pool of more than 1,000,000 “unknown” viruses into human populations. We need to be better informed about these threats so that countermeasures can be prepared. A global initiative to identify and characterize every significant viral threat circulating in the world is achievable over the next ten years at a total cost less than the financial burden of response to just one spillover – a critical and essential step towards ending the pandemic era.

THE GLOBAL VIROME PROJECT WILL (IF FULLY FUNDED):

- Identify 99% of unknown viruses that could jump from wildlife and livestock hosts to people
- Determine the geographic and host range of detected viruses
- Classify the risk of spillover and epidemic potential using virologic, behavioral, epidemiologic and ecologic data on detected viruses and their hosts
- Create a global surveillance network through local and global capacity enhancements
- Develop an open-access database and biobank
- Identify intervention targets, mitigation options and markers for transmission
- Provide insights into virus biology and ecology, as well as conservation benefits

On Thu, Feb 16, 2017 at 4:06 PM, Capua, Ilaria <icapua@ufl.edu> wrote:

Thanks Cara,

Just to reaffirm what I mentioned in the document: I need clear statements which are bullet proof before I engage in any conversation with the press or potential donors.

With reference to the AP piece I am waiting for a few clips and perhaps the group photo to hand them over to the journalist so

that she can put them in her story. I would need to have them by the end of the week.

FYI I will be meeting Bill Gates tomorrow, at lunch time (European) please let me have a soundbite to say about GVP.

Best wishes

Ilaria

Da: [REDACTED] **Per conto di** Jonna Mazet

Inviato: lunedì 13 febbraio 2017 20:01

A: Cara Chrisman

Cc: Capua, Ilaria; Jaime Sepulveda; Amalhin Shek; Ryan Essman; Morzaria, Subhash (FAORAP); Dennis Carroll

Oggetto: Re: GVP Working Group Introductions

Thanks, Cara -- we're trying to schedule our next call, so we'll update the team after that.

For Ryan, I did a phone interview with Bryan Walsh of Time Magazine today. It went fine. He had pretty general questions about preparedness and what is being done now and could be done better in the future. While he had asked for the interview re GVP, he didn't ask about the initiative, so I worked it into answers to his questions as appropriate.

Not sure how info might be used or his timeline, but I will keep you in the loop as he provides us with updates.

Have a nice evening,

Jonna

On Mon, Feb 13, 2017 at 2:29 PM, Cara Chrisman <cchrisman@usaid.gov> wrote:

Dear Ilaria, Jaime, Amalhin, and Ryan,

As a follow up to our GVP meeting in Beijing, and given your roles related to the GVP in terms of communications and outreach, I wanted to connect the four of you so that you can all be made aware of efforts around the GVP going forward.

Ilaria and Jaime are the GVP Working Group Co-chairs for the Communications & Outreach Working Group (this group falls within the Implementation Thematic Area, which is led by Jonna Mazet and Subhash Morzaria, cc'ed). Jaime was unable to attend the Beijing meeting, however Ilaria was in attendance and has composed the attached document to begin to map out the comms strategy and next steps.

Amalhin & Ryan are both at USAID and work in communications. Amalhin is on the Emerging Threats team with Dennis and myself and is in charge of the GVP newsletter. Ryan is our key focal point within the Bureau for Global Health in regards to any press activities.

We would appreciate if Ilaria & Jaime loop Ryan in whenever press will be engaged (for example for the AP article). That will enable us to keep track and be aware of these opportunities and any potential impacts on USAID. We also hope to

have an open channel of communication where Ryan can alert Ilaria and Jaime to potential opportunities to feature the GVP moving forward.

Additionally, since we would like to ensure that the rest of the working group and steering committee members are kept aware, it would be appreciated if Ilaria & Jaime could also ensure that Amalhin is kept in the loop (both for Press and Outreach). That will ensure that the larger group can also keep track of our activities through the regular newsletter. In turn, she will likely be reaching out on a regular basis to check in and gather information for the newsletter.

I look forward to working with everyone going forward and appreciate all the work in this area! Please let me know if I can further clarify anything.

Best,

Cara

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

The Global Virome Project

Global cooperative scientific initiative to massively lower risk of harm from future viral outbreaks over 10 years

A global initiative to characterize the diversity of high consequence viruses over 10 years that will:

- **Characterize risk for future outbreaks posed by unknown viruses**
- **Improve risk assessment for spillover of high-impact viruses**
- **Enable risk mitigations**
- **Strengthen global & local capacities**

Approach:

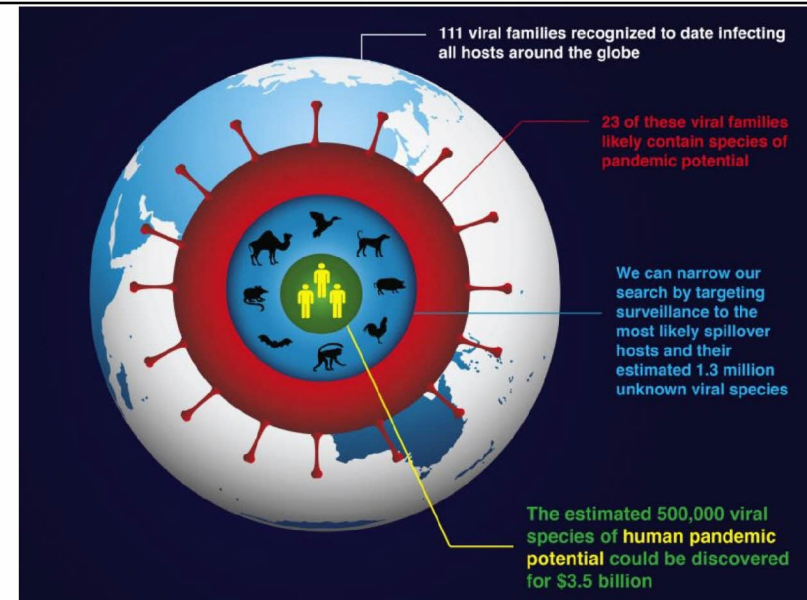
- **Fostering global ownership through an international alliance**
- **Targeted, risk-based surveillance of wildlife hosts, likely livestock amplification hosts & people**

Anticipated Benefits

- Revolutionize the way we think about EIDs, including biomedical countermeasures & food security
- Improved speed, scope & efficiency of outbreak response
- Strengthened & sustainable surveillance & lab networks
- New tools for diagnosis, prevention & treatment of disease
- Dramatic increase in data for wildlife conservation
- Opportunities for follow-on research in virology, diagnostics, therapeutics, epidemiology, ecology, prevention & behavior change/intervention
- Best practices for viral handling, storage & containment
- Trained cohort for next generation of health professionals
- Opportunities for improving legal, regulatory & policy frameworks for global health surveillance & biodiversity

Deliverables

- Identification of 99% of unknown **viruses that could jump from wildlife & livestock hosts to people**
- Geographic & host range of detected viruses
- Classification of risk of spillover and epidemic potential using virologic, behavioral, epidemiologic & ecologic data on detected viruses & their hosts
- Global surveillance network through local and global capacity enhancements
- Open-access database & biobank
- Intervention targets & mitigation options
- Markers for transmission
- New insights into virus biology & ecology, as well as conservation benefits



From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: "Morzaria, Subhash (TCE)" <[REDACTED]>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, Charles Bebay <Charles.Bebay@fao.org>, Yilma Makonnen [REDACTED], Juan Lubroth <[REDACTED]>, "Hasibra, Mirela (TCE)" <[REDACTED]> "Tonetti, Bianca (TCE)" <[REDACTED]>
Subject: Re: Joint Ebola surveillance and Ebola host country project
Sent: Tue, 28 Feb 2017 08:03:37 +0000

Thanks Subhash,
This is consistent with our take-away from the phone call.

We have notified all of our central and country staff of the situation using the brief summary below, and will work from this basis in our planning and interactions with local government counterparts. When will you be notifying FAO regional and country staff of the new plans? It would be good if P-2 personnel, FAO staff and USAID Mission in the affected countries learn of these changes as soon as possible.

As soon as you are able to provide final decisions on any or all countries, that would be extremely helpful also.

As we discussed, this is an unfortunate turn of events given the potential to build capacity for practical integrated surveillance and information sharing and all of the time spent over the last two years in coordinating this complex effort. On the other hand, we are still pleased to see the work moving forward in Asia, Egypt and Jordan.

Here is note I sent out to P-2 people on February 23rd.:

Subhash Morzaria will confirm final decisions in the next week or so, and Jonna will follow-up with USAID in one format or another. This is not set in stone, but is how they see things most likely working out unless USAID provides additional funding (or there is another change in plans).

All Asia Countries: Business as usual, no changes

Egypt and Jordan: Business as usual, no changes

Kenya, Tanzania, and Uganda: The livestock samples FAO have already collected will be made available to be tested by PREDICT if we want them and we can find the money to pay for the testing. If we are able to do the testing, FAO MIGHT be able to include funding (per diems, etc.) for local FAO partners to be trained in the techniques, this would be allowable in their budget under their "capacity building" goals.

S.L., Guinea, Liberia: FAO most likely will not be doing the domestic animal sampling or testing, though there is a slim possibility depending on priority setting. Similar to above, they might be able to include funding (per diems, etc.) for local FAO partners to be trained in the field or lab techniques, under their "capacity building" goals (but currently we are not doing in-country testing). If their budgets allow, FAO may also be able to do some domestic animal sampling and testing, but they are not sure about it at this point in time.

All other African countries: They will not be doing any of the sampling and testing coordinated with PREDICT or using PREDICT protocols as we had been planning.

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

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www.ecohealthalliance.org

President, OIE Working Group on Wildlife

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 Feb 27, 2017, at 5:22 PM, Morzaria, Subhash (TCE) <REDACTED> wrote:

Dear Jonna/Billy,

Thank you for joining on Skype late last week to discuss the future role of FAO in the joint P2/FAO synchronized Ebola surveillance in view of the new directive from USAID for FAO to reorientate its work plans in line with the priorities of the GHSA Phase 1 countries in Africa.

The new directive from the donor entails that FAO utilizes its Ebola grant to be focused more on capacity development in the 12 GHSA Phase 1 countries (4 in East Africa, and 8 in West and Central Africa) than in research. While this is a significant change for us, we have been actively considering the process of revising our work plans to comply with the new directive. In the last 6 weeks we have conducted several formal and informal consultations with the key stakeholders (donors, national and international partners and FAO regional and country offices), and are now beginning to reach a general consensus on the way forward to finalizing the work plans that will reflect the new orientation of the Ebola grant awarded to FAO.

Under the revised focus, it is becoming increasingly clear to us that USAID would not accept FAO to continue to conduct livestock surveillance for Ebola at the joint P-2/FAO surveillance sites in countries where Ebola is not prioritized. However, where Ebola has been prioritized we MAY have limited possibility to continue our collaboration depending on the budget for each country. While we have not completed either the work planning or budgeting exercise, the following scenarios are possible with regard to our collaboration.

1. In those countries where Ebola has not been prioritized it would be highly unlikely for FAO to collaborate with P2 to conduct active surveillance for Ebola in livestock.
2. In those countries where Ebola is a priority disease (Guinea, Liberia and Sierra Leone), FAO is likely to be able to support collection of livestock samples, provided FAO can demonstrate that this exercise will support capacity building, and help countries reach higher levels of capacities under various Action Packages as defined by the JEE process.
3. In those countries where we have already collected some samples from livestock at the agreed joint P2-FAO sites (Kenya, Tanzania and Uganda), we MAY be able to support the testing linked with training of laboratory personnel, provided the budget supports this.
4. Additional longitudinal sampling for Ebola in most East African countries may be difficult particularly if it compromises the work of capacity development under the new USAID directive.

I hope that we will be able to provide you with a clearer picture before mid-March once we have fully completed the work plans, budgeting exercise and analyzed the implications on the delivery of the programme under different scenarios.

I would like to reiterate that we immensely value our collaboration with P2, and while this new directive will impact on our collaboration in various ways in Africa, the work that we do together on MERS CoV, AI and other triangulated surveillance in Asia is in no way affected.

Thanks for your understanding, and with best regards,

Subhash

From: Andrew Clements <aclements@usaid.gov>
Sent: Mon, 6 Mar 2017 16:36:05 +0100
Subject: EPT slides
To: ghsdunitmaillistusaid@usaid.gov, "Daniel Schar (RDMA/OPH)" <dSchar@usaid.gov>, "Sudarat Damrongwatanapokin (RDMA/OPH)" <sDamrongwatanapokin@usaid.gov>, "Lisa Kramer (Nairobi/EA/RHH)" <lkramer@usaid.gov>, rcintron@usaid.gov, "Subhash (FAORAP) Morzaria" <[REDACTED]>, [REDACTED], [REDACTED], "Juan (AGAH) ([REDACTED]) Lubroth" <[REDACTED]>, e.tagliaro@oie.int, delarocques@who.int, "A. Danielle (CDC/OID/NCIRD) Iuliano" <aoi0@cdc.gov>, William Karesh <Karesh@ecohealthalliance.org>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, "Filip Claes (AGAH)" [REDACTED], "Wantanee (FAORAP) Kalpravidh" <[REDACTED]>, Peter Black <[REDACTED]>, tmu0@cdc.gov, [REDACTED], [REDACTED] les@animaldiseaseintelligence.com, Karen.Sliter@aphis.usda.gov

[Attachment](#)
[Emerging Pandemic Threats update 3-3-17.pptx](#)

FYI.

I added a slide comparing number of poultry outbreaks in countries before 2011 and after 2011 in an attempt to see if there was improvement in containment based on experience. Some countries did improve, but many did not.

I also added a slide on HPAI hot spots. This is based on where HPAI viruses have been detected and reported. It's possible that there are other viruses circulating in places where detection/reporting capacities are weak. I did not factor in LPAI viruses because they do not cause outbreaks and get reported. However, LPAIs are important as they contribute to viral evolution by swapping genes with HPAI viruses.

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

Emerging Pandemic Threats

Update: 3/3/17

Andrew Clements, Ph.D.

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



Note on Limitations of Data for this Update

The data generally come from passive surveillance systems designed to detect disease outbreaks.

It is important to note that there may be additional circulation of viruses in animals and people which is not reported by countries due to any or all of the following:

- Surveillance and lab capacity is not necessarily the same within and across countries or between public health and animal health sectors
- Spillover of viruses from one host to another may not always result in illness so that non-symptomatic infections in animals and people may be missed by passive or event-based surveillance
- For avian influenza viruses, some countries vaccinate livestock as a control strategy which may diminish obvious disease outbreaks (and testing for viruses), but not necessarily stop viral shedding



Select Zoonotic Diseases with:
(1) Proven Capacity for Rapid Geographic Expansion
(2) Limited Availability of Effective Medicines or Vaccines

- Chikungunya (mosquito vector)
- Ebola*
- Influenza from animal sources*
- Lassa
- Marburg*
- MERS-Coronavirus*
- Monkeypox *
- Nipah*
- SARS*
- Yellow Fever (mosquito vector)
- Zika (mosquito vector)

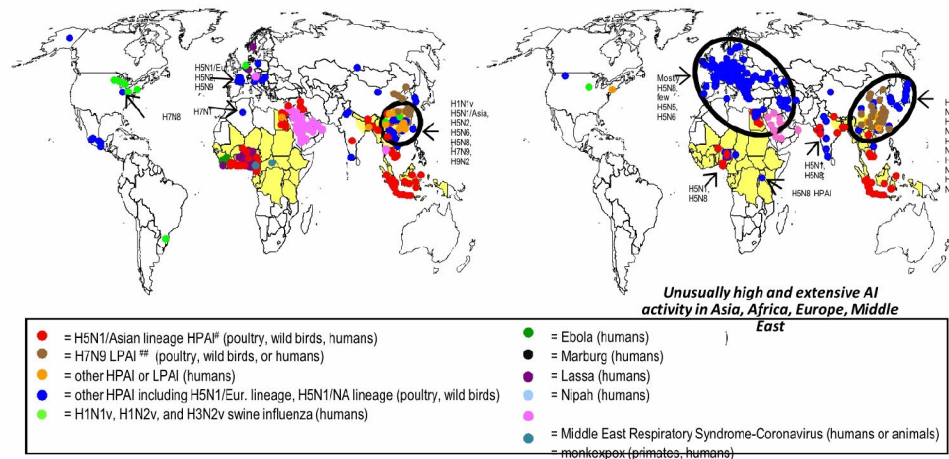
* Can (1) be transmitted directly from animal to human and/or human to human and (2) have an apparent average fatality rate of up to 10% or greater in people. Source: WHO



Detection of Specific Zoonotic Viruses that have Potential to Directly Spread within Human Populations[^]

Nov 2015-Oct 2016

Nov 2016-Oct 2017



Sources = OIE, WHO, CDC, Ministry of Agriculture/FAO (Egypt, Indonesia), and IEDCR (Bangladesh) reports between 11/1/15 and 3/3/17. [^] 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. [§] Highly-pathogenic avian influenza. ^{§§} Low-pathogenic 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 FY2015 and FY2017 for prevention, detection, and response. ^{||} Location where a new virus first detected.



Updates* on

- MERS-Coronavirus
- Zoonotic Influenza (especially avian influenza)
 - H5N1
 - H5N6
 - H7N9
- Other Non-Zoonotic Avian Influenzas
 - H5N8
 - H5N2
 - H5N5

* No new outbreaks due to Ebola, Marburg, Monkeypox, Nipah, or SARS since fall of 2016

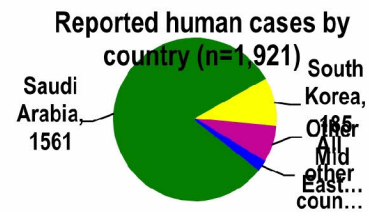
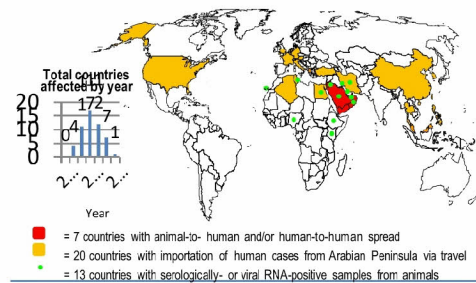


Importance of Monitoring Coronaviruses

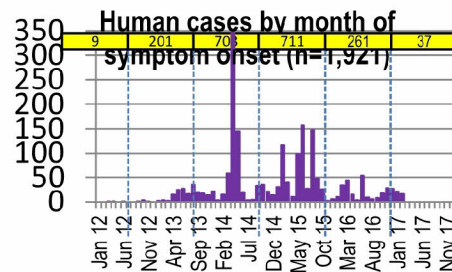
- **ability to cause significant morbidity and mortality in people** – MERS-CoV and SARS have caused thousands of human infections with apparent mortality rates of ~35% and ~11%
- **high rates of evolution** – wide genetic variety in members of coronavirus family suggest high mutation rates
- **multiple hosts (wildlife, livestock, people)** – opportunities for spillover and evolution where there are high densities of hosts
- **multiple mechanisms for geographic spread** – viruses can move via wildlife migration, livestock trade, and human travel
- **human activity likely facilitating evolution** – intensive livestock-rearing practices, interaction of livestock on farms and in live-animal markets, etc.
- **demonstrated pandemic potential** – air-borne, community-level transmission assisted by human travel resulted in SARS pandemic (2002-2003)



MERS – Coronavirus, 2012-2017



Algeria (2), Austria (2), China (1), France (2), Germany (3), Greece (1), Italy (1), Iran (6), Malaysia (1), Netherlands (2), Philippines (2), Thailand (3), Tunisia (3), Turkey (1), UK (3), US (2); @ Bahrain (1), Egypt (1), Jordan (27), Kuwait (4), Lebanon (1), Oman (9), Qatar (17), UAE (78), Yemen (1); 1 Qatar case detected in UK



Summary of human cases:

At least 1,921 cases (and 680 deaths):

- 27 countries affected in 4 regions
- Age range 1-109 years (median 53)
- 67% of cases male
- **Apparent case fatality rate = 35%**
- At least 41% with pre-existing medical conditions
- At least 9% had contact with camels[^]
- At least 37% of cases in clusters of 2 or more
- At least 13% cases in health care workers

Sources = WHO, FAO, OE, ProMed, FluTrackers, and scientific publications through 3/6/17. [^] Includes direct and indirect contact with camels; at least 14% of cases had camel contact since September 2014 when Saudi Arabia started routinely reporting contact with animals.



Importance of Monitoring Influenza A Viruses

- **significant morbidity and mortality in people** – estimated 500,000-1,000,000 deaths from H1N1 and H3N2 “seasonal” influenzas each year; several avian influenzas (H5N1, H5N6, H7N9) have apparent mortality rates >30% in people
- **high rate of evolution** – high mutation rates and genetic “recombination” among sub-types result in greater diversity
- **multiple hosts (wildlife, livestock, people)** – opportunities for spillover and evolution where there are high densities of hosts
- **multiple mechanisms for geographic spread** – viral sub-types can move via wild birds, poultry transport, and human travel
- **human activity likely facilitating evolution** – intensive livestock-rearing practices with weak biosecurity, livestock vaccination, co-locating species on farms and in live-animal markets, etc.
- **demonstrated pandemic potential** – air-borne, community-level transmission assisted by human travel resulted in 4 pandemics in the past 100 years → *H1N1 (1918-19)*, *H2N2 (1957-58)*, *H3N2 (1968-69)*, *H1N1 (2009-10)*



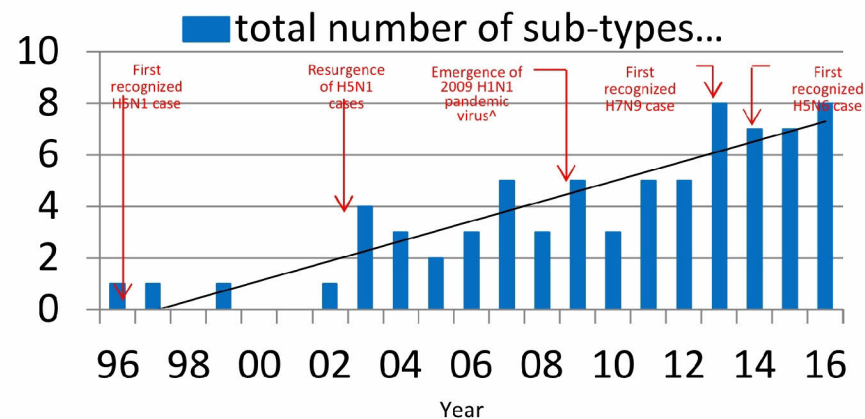
Non-Seasonal Influenza A Sub-Types* Detected in People Worldwide, 1996-2017

<u>Avian influenzas^</u>	<u>Swine influenzas^</u>
H5N1/Asia	2009 H1N1pdm
H5N6	H1N1v (at
least 3 different ones)	
H6N1	H1N2v (at
least 2 different ones)	
H7N2	H3N2v (at
least 2 different ones)	
H7N3	
H7N7	
H7N9	
H9N2	
H10N7	
H10N8	

Sources: CDC and WHO through 3/3/17. * "Non-seasonal" refers to influenza A viruses other than human influenza A viruses (i.e. H1N1, H3N2) that cause seasonal influenza outbreaks. ^ Original hosts for these viral sub-types



Increasing Number of Influenza A Sub-types* Causing Human Infections Worldwide over the Past 20 Years

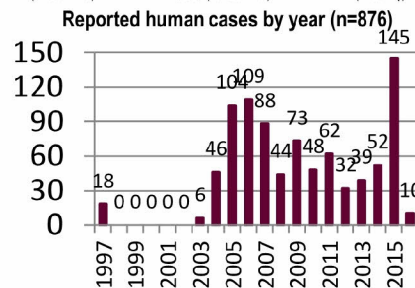
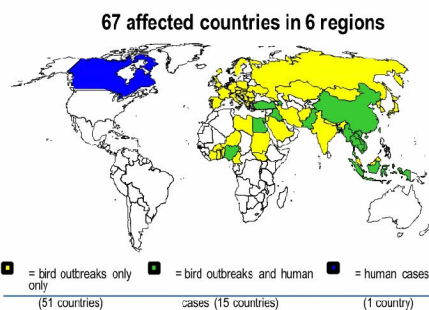


→ Could be due to any or all of the following: improved surveillance/laboratory capacity; increased spillover; increase in human factors driving evolution; or other factors

Sources: CDC and WHO through 3/3/17. * Includes: 2009 H1N1pdm, H1N1v, H1N2v, H3N2v, H5N1/Asia, H5N6, H6N1, H7N2, H7N3, H7N7, H7N9, H9N2, H10N7, H10N8. ^ 2009 H1N1pdm virus not included after 2009 since it was considered a human "seasonal" virus between 2010 and 2016.

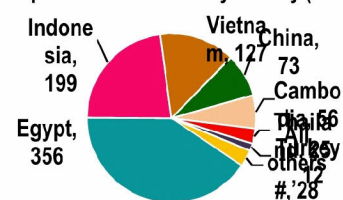


H5N1/Asian lineage HPAI[#], 1997-2017



Source = OIE and WHO reports through 3/3/17. ^a Based on date of symptom onset. [#] Highly Pathogenic (in domestic chickens) Avian Influenza.

Reported human cases by country (n=876)



[#] Azerbaijan (8), Bangladesh (8), Burma (1), Canada (1), Djibouti (1), Iraq (3), Laos (2), Nigeria (1), Pakistan (3).

Summary of human cases:

At least 876 cases (and 459 deaths):

- 16 countries affected in 6 regions
- Age range 0-75 years (median 17)
- 47% of cases male
- **Apparent case fatality rate = 52%**
- 10% of cases in contact with another case
- At least 49% cases had contact with sick or dead poultry



H5N6 HPAI[#], 2014-2017

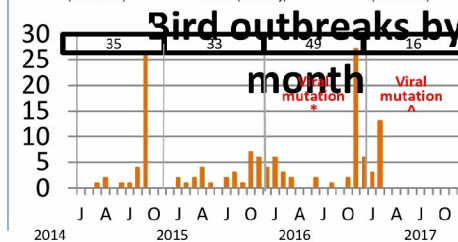
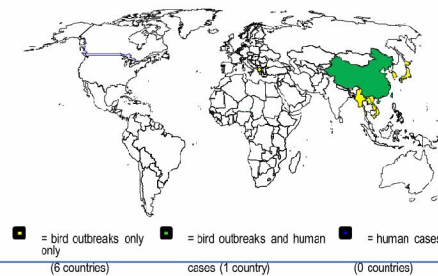
Bird outbreaks (133):

- By country: China (59); Vietnam (37); S. Korea* (20); Japan (12); Laos (3); Burma (1), Greece[^] (1)
- By year: 2014 (35); 2015 (33); 2016 (49); 2017 (16)
- By bird type: poultry (123); wild birds (10)
- By epidemiological unit: farm (59); village (38); market (20); wild bird (8); environment (2); "other" (2); zoo (2); slaughterhouse (1)
- 51% outbreaks between November and March
- 2.2 million birds killed/culled

Human cases (17[^]):

- All cases in 6 provinces in southeastern China
- Age range 5-65 years (median = 40.0)
- 7 male, 10 female
- **Apparent case fatality rate = 35%**
- 65% cases between November and March
- At least 41% had direct contact with poultry

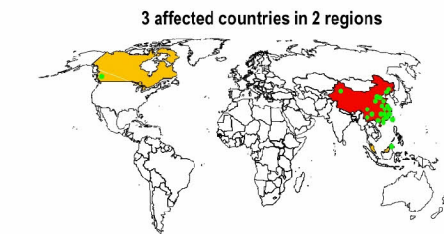
7 affected countries in 2 regions



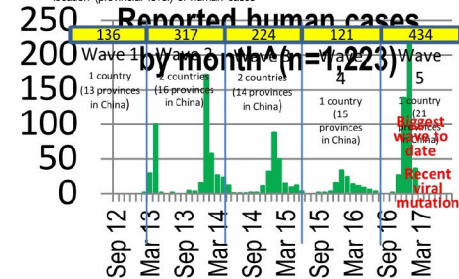
Sources: OIE and WHO reports through 3/3/17. [#] Highly Pathogenic (in domestic chickens) Avian Influenza. ^{*} Reassortant of H5N6, H4N2, and H1N1 avian influenza viruses (around Nov 2016). [^] Early indications of a reassortant of H5N6 and other locally circulating AI viruses (around Feb 2017).



H7N9 Avian Influenza, 2013-2017

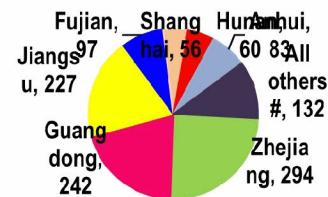


- = 1 country with local animal-to-human (and possible limited human-to-human) spread
- = 2 countries** with importation of human cases from China via travel
- = location (provincial level) of human cases



Source = WHO global reports through 3/3/17. ^ Based on date of symptom onset.

Reported human cases in China by province (n=1,220)



Beijing (11), Guangxi (5), Guizhou (6), Hebei (5), Henan (8), Hong Kong (20), Hubei (22), Jiangxi (13), Jilin (2), Liaoning (3), Macao (2), Shandong (12), Sichuan (6), Taiwan (4), Tianjin (2), Xinjiang (10), Yunnan (2).

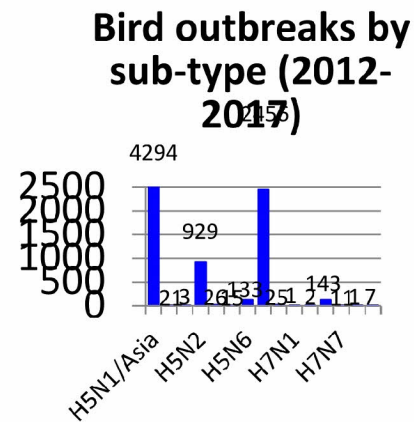
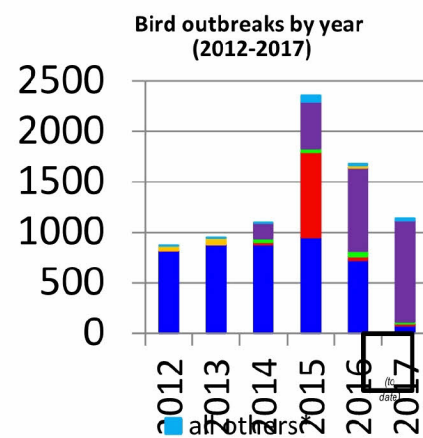
Summary of human cases:

At least 1,223 cases (and 380 deaths):

- 3 countries affected in 2 regions
- Age range 0-91 years (median 58)
- 70% of cases male
- **Apparent case fatality rate = 31%**
- 2% with pre-existing medical conditions
- 3% of cases in clusters of 2 or more
- 0.3% cases in health care workers
- At least 62% had contact with poultry



Since 2012, Other HPAI[#] Viruses Besides H5N1/Asia Increasingly Causing Bird Outbreaks



- At least 15 HPAI viruses circulating in birds since 2012
- Most HPAI bird outbreaks since 2012 caused by H5N1/Asia HPAI and H5N8
- In 2016 and 2017 (so far), most HPAI bird outbreaks caused by H5N8

Source: OIE reports through 3/3/17. * Includes the following HPAI viruses: H5N1/Europe; H5N1/North America; H5N3; H5N5; H5N9; H7N1; H7N2; H7N7; H7N8; H7N9. # Highly Pathogenic (in domestic chickens) Avian Influenza.



Many Other Non-Seasonal Influenza A Viruses Reported in Animals (but Not People So Far), 1996-2017

Sub-type	Animals	Bird Out- breaks	Location(s)	Start of Last Bird Outbreak
H5N1 HPAI*/ European lineage	poultry	21	France	Jul 19, 2016
H5N1 HPAI/North American lineage	poultry, wild birds	3	Canada, USA	Mar 5, 2015
H5N2 HPAI	poultry, wild birds	929	Canada, China, France, USA	Feb 17, 2017
H5N3 HPAI	poultry, wild birds	26	China	Feb 19, 2015
H5N5	poultry, wild birds	15	Croatia, Czech Rep., Germany, Greece, Italy, Montenegro, Netherlands, Poland, Serbia, Slovenia	Feb 12, 2017
H5N8 HPAI	poultry, wild birds^	2,456	44 countries in Africa, Asia, Europe, Middle East, N. America	Mar 2, 2017
H5N9 HPAI	poultry	26	China, France	Apr 13, 2016
H7N1 HPAI	wild birds	1	Algeria	Oct 20, 2016
H7N8 HPAI	poultry^	1	USA	Jan 11, 2016

→ H5N2 and H5N8 widely distributed geographically and have caused a large number of outbreaks
→ Many spillover opportunities if these viruses have (or develop) the capability to infect people

Source: OIE through 3/3/17. * Highly-Pathogenic (in domestic chickens) Avian Influenza. ^ Able to infect mammal cells in a laboratory setting (Sun et al., J Virol., Sep 28, 2016; Wu et al., EID, Vol 20, No. 8, Aug 2014).



H5N8 HPAI[#] in Birds, 2014-2017

Bird outbreaks (2,456):

- **By country:** France (386); China (325); Hungary (282); S. Korea (260); Germany (248); Poland (126); Switzerland (87); Romania (78); Bulgaria (67); Czech Rep (67); Slovakia (65); Netherlands (64); Denmark (42); Israel (33); India (32); Sweden (31); Iran (30); UK (28); Serbia (24); USA (22); Croatia (17); Japan (17); Finland (15); Russia* (14); Italy (13); Greece (12); Spain (12); Ukraine (9); Ireland (8); Nigeria (7); Slovenia (7); Egypt (6); Austria (5); Belgium (3); Uganda (3); Bosnia & Herz. (2); Lithuania (2); Canada (1); Kazakhstan (1); Kuwait (1); Macedonia (1); Portugal (1); Tunisia (1)
- **By bird type[@]:** poultry (1,574); wild birds (851); environment (1)
- **By setting:** farm (1,331); wild bird (851); village (221); slaughterhouse (20); zoo (30); environment (2); market (1)
- **By bird type:** at least 80% of poultry outbreaks (with bird data) involved ducks and/or geese
- **By season:** 95% outbreaks occurred between November and March
- 17.9 million birds killed or culled

No human cases reported to date[^]

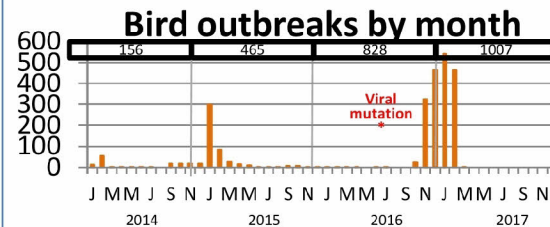
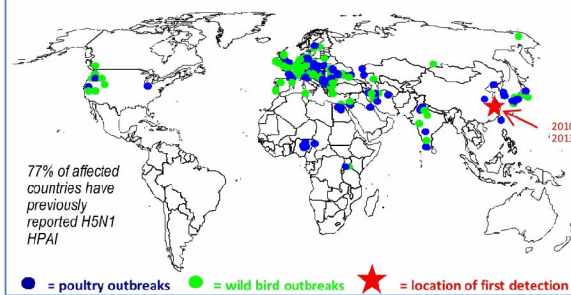
Sources: OIE, WHO through 3/3/17. [#] Highly Pathogenic (in domestic chickens) Avian Influenza. ^{*} Recombination (around July 2016). [@] For bird species affected, see:

http://www.fao.org/ag/againfo/programmes/en/empres/H5N8/situation_update.html

[^] WHO risk assessment at:

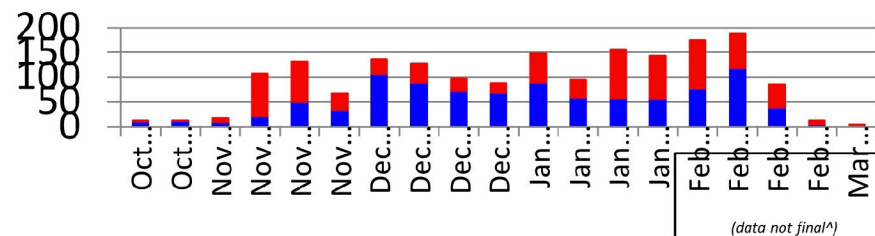
http://www.who.int/influenza/human_animal_interface/avian_influenza/riskassessment_AH5N8_201611/en/

44 affected countries in 6 regions



Weekly H5N8 HPAI[#] Bird Outbreaks in Poultry and Wild Birds Worldwide, Between Oct 2016-Mar 2017*

■ Wild bird and zoo outbreaks
■ Poultry outbreaks

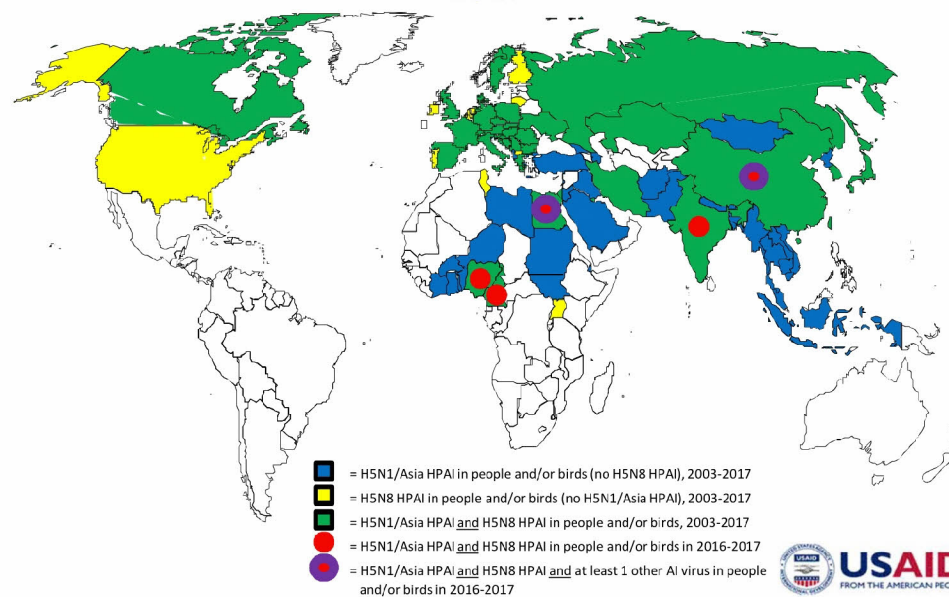


- Total weekly outbreaks between 60 and 200 between mid-November and mid-February
- No apparent decline in the number of weekly outbreaks through mid-February
- >50 poultry outbreaks per month between early December and mid-February

Source: OIE reports through 3/3/17. * Based on event start dates. ^ Data for February and March 2017 are not final as reporting is still occurring. # Highly Pathogenic (in domestic chickens) Avian Influenza.



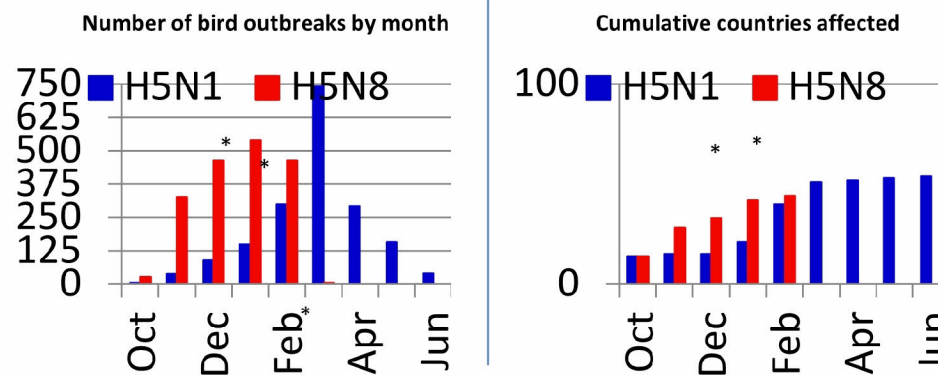
**Similar Vulnerabilities: 34/44 of Countries Affected by
H5N8 HPAI Previously Reported H5N1 HPAI Between 2003-
2017**



Sources: OIE and WHO reports through 3/3/17.



Comparison of the Spread of H5N1 HPAI (Nov 2005-Jun 2006) and H5N8 HPAI (Nov 2016-Mar 2017)



- Based on number of monthly bird outbreaks and cumulative countries affected, H5N8 has spread faster and caused more outbreaks than H5N1 during a comparable time period in 2005-2006
- If H5N8 follows the same pattern of H5N1 spread (2005-2006), H5N8 outbreaks should decline over next few months (but could spread and cause additional outbreaks from Nov 2017 to Mar 2018)

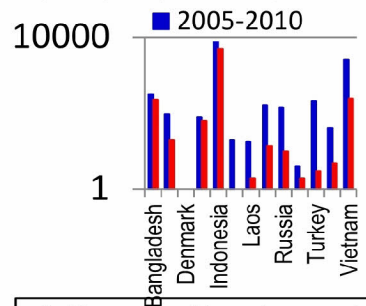
Source: OIE reports through 3/3/17. * Data between January and March 2017 may not be final as reporting is still occurring.



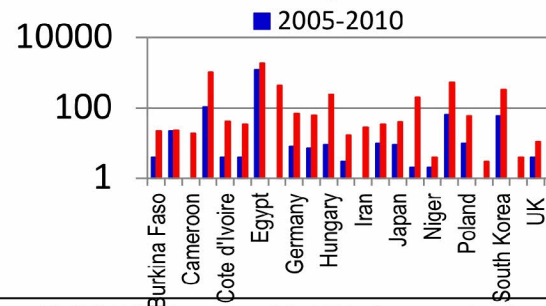
Learning from Previous Experience with HPAI* Viruses in Poultry, 2005-2017

37 countries worldwide had at least 1 poultry outbreak due to H5N1/Asia HPAI between 2005 and 2010 and at least 1 poultry outbreak due to any HPAI between 2011 and 2017

13 countries had **less or same number** of HPAI poultry outbreaks after 2010



24 countries had **more** HPAI poultry outbreaks after 2010



→ Of countries with previous experience with H5N1 HPAI in poultry, 24 of 37 had **more** outbreaks after 2010 compared to 2005-2010; these included many high- and middle-income countries that should have good farm biosecurity to prevent large numbers of poultry outbreaks

Sources: OIE reports through 3/3/17. * Highly-Pathogenic (in domestic chickens) Avian Influenza; includes H5N1/Asia, H5N1/Europe, H5N1/North America, H5N2, H5N3, H5N5, H5N6, H5N8, H5N9, H7N1, H7N2, H7N3, H7N7, H7N8, H7N9.



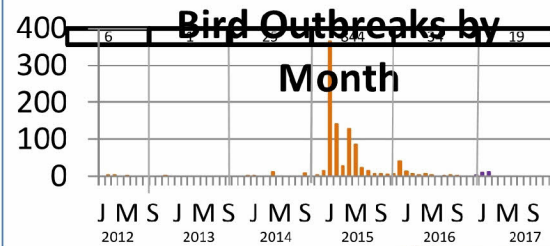
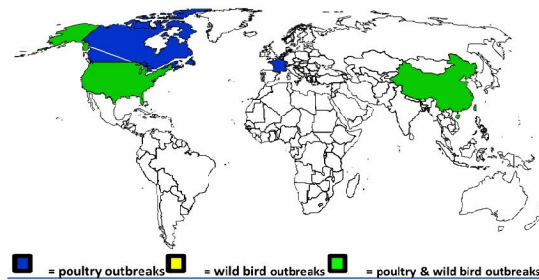
H5N2 HPAI# in Birds, 2012-2017

Bird outbreaks (929):

- **By country:** China (635); USA (243); France (36); Canada (15)
- **By bird type:** poultry (892); wild birds (35); environment (2)
- **By setting:** farm (849); wild bird (35); slaughterhouse (19); village (18); market (6); environment (2); zoo (0)
- **By bird type:** at least 94% of poultry outbreaks (with bird data) involved chicken, geese, and/or turkeys
- **By season:** 69% outbreaks occurred between November and March
- 70.8 million birds killed or culled

No human cases reported to date

4 affected countries in 3 regions



Sources: OIE reports through 3/3/17. # Highly Pathogenic (in domestic chickens) Avian Influenza.



H5N5 HPAI# in Birds, 2016-2017

Bird outbreaks (15):

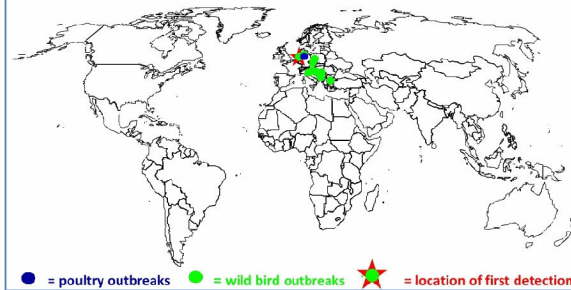
- **By year:** 2016 (4); 2017 (11)
- **By country:** Croatia (1); Czech Rep. (1); Germany (4); Greece (1); Italy (2); Montenegro (1); Netherlands* (1), Poland (2), Serbia (1), Slovenia (1)
- **By bird type:** poultry (3); wild birds (12); environment (0)
- **By setting:** wild bird (11); farm (3); village (0); slaughterhouse (0); zoo (1); environment (0); market (0)
- **By bird type:** common teal (1); Eurasian wigeon (1); gadwall (1); greylag goose (1); mute swan (7); tufted duck (1), farmed turkeys (3), wild goose (1)
- **By season:** 100% outbreaks occurred between November and March
- 32,742 birds killed or culled

No human cases reported to date

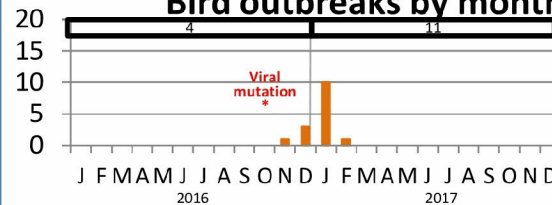
Note: When H5N1 and H5N8 HPAI were previously introduced into Europe, outbreaks in wild birds often preceded outbreaks in poultry

Sources: OIE, WHO through 3/3/17. * Highly Pathogenic (in chickens) Avian Influenza. * According to a 12/15/16 ProMED report, the H5 part of the H5N5 HPAI virus is identical to the H5 part of the H5N8 HPAI virus recently circulating in Europe (including the Netherlands) suggesting that the H5N5 was recently generated by recombination of two or more AI viruses.

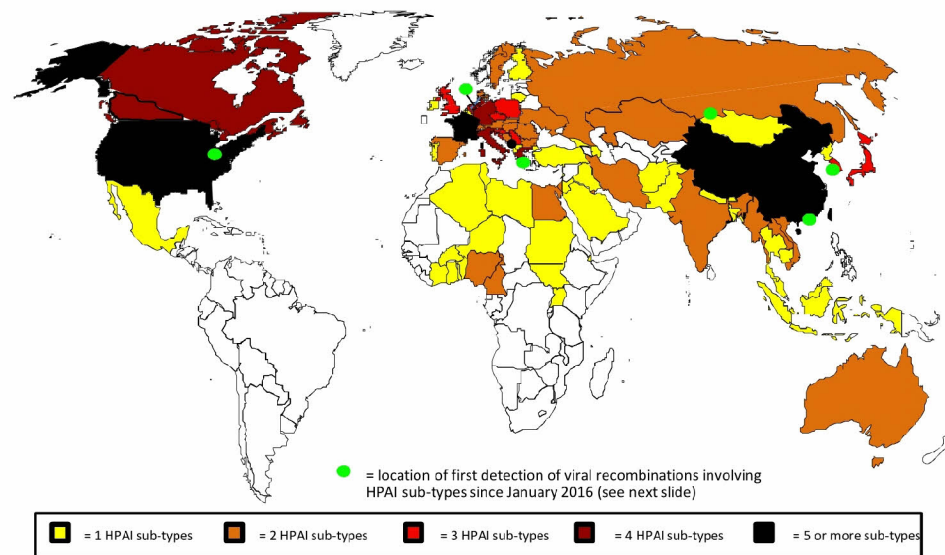
10 affected countries in 1 region



Bird outbreaks by month



Hot-Spots for HPAI* Viruses in Birds, 2005-2017



Sources: OIE reports through 3/3/17. * Highly-Pathogenic (in domestic chickens) Avian Influenza; includes H5N1/Asia, H5N1/Europe, H5N1/North America, H5N2, H5N3, H5N5, H5N6, H5N8, H5N9, H7N1, H7N2, H7N3, H7N7, H7N8, H7N9. Not included are number of different variants within sub-types.



Examples of Avian Influenza Evolution Since 2016

Event [#]	Location of first detection	Date of first detection	Significance
Conversion of H7N8 from LPAI to HPAI	USA	January 2016	H7N8 HPAI lethal to domestic chickens (no subsequent outbreaks after containment measures applied)
H5N8 HPAI reassortment with other AI viruses	Russia	July 2016	New version of H5N8 HPAI virus (since spread to 30+ countries in Africa, Europe, Middle East, Central/South Asia)
H5N8 HPAI reassortment with other AI viruses	Netherlands	November 2016	New H5N5 HPAI virus (since spread to 9 countries within Europe)
H5N6 HPAI reassortment with other AI viruses	South Korea	November/December 2016	New version of the H5N6 HPAI virus (extent of geographic spread not known)
Conversion of H7N9 from LPAI to HPAI	China	January 2017	H7N9 HPAI lethal to domestic chickens (extent of geographic spread not known)
H5N8 HPAI reassortment with other AI viruses	Greece	March 2017	New version of H5N6 HPAI virus (extent of geographic spread not known)

Sources: OIE, WHO, ProMED through 3/3/17. [#] Highly Pathogenic (in domestic chickens) Avian Influenza; LPAI = low pathogenicity in domestic chickens



Sent: Tue, 28 Mar 2017 13:47:38 -0700
Subject: Re: Predict Ebola study on animals
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
Cc: "predict@ucdavis.edu" <predict@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>, "Chittenden, Kendra (Jakarta/Health)" <kchittenden@usaid.gov>, Brian Bird <bhbird@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>

Hi Andrew,

We are preparing the written response, but I wonder if a call with her from our team (and you) wouldn't be a better option. We don't want to be perceived as being dismissive, which can sometimes be assumed with an email response. Part of the problem, that we think we could have/should have handled better in person, is that some of what she is asking for our team to do involves take precautions only appropriate for healthcare or diagnostic workers dealing with acutely ill individuals/samples. We have checked with CDC Special Pathogens, and they do not use these practices when conducting their ecological studies, including when looking for Ebola and Marburg in bats. So, we are preparing the response, but I have concerns that our response (without or instead of an associated discussion) will get us further down a road that we don't want to follow.

Please advise on preferred way forward,
Jonna

PS -- some of the other points are valid and useful and can easily be addressed through email without controversy.

On Tue, Mar 28, 2017 at 12:42 PM, Andrew Clements <aclements@usaid.gov> wrote:

No worries. Things like this happen.

Thanks!

On Tue, Mar 28, 2017 at 6:47 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Sorry,
We thought we would discuss it on the MT call. We'll get you responses instead. Most are misunderstandings, likely stemming from miscommunications from our staff, unfortunately.
Our traveling UCD/Columbia team had offered to do this briefing, which would have alleviated any of this, but the meeting was scheduled after they left. Therefore, a non-optimal person gave the briefing.
We'll get you a written response,
Jonna

On Tue, Mar 28, 2017 at 2:08 AM, Andrew Clements <aclements@usaid.gov> wrote:

Hi Jonna,

Apologies if I missed a reply to the email below.

Can you let us know by COB your time on Wednesday your responses to the suggestions. We'd like to be able to signal back to the mission that the suggestions were reviewed and indicate if there are any steps Predict will take based on them. It's okay to say if suggestions go beyond the scope of Predict or have already been addressed (or are in process) by Predict or others.

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

On Mar 20, 2017, at 7:47 PM, Andrew Clements <aclements@usaid.gov> wrote:

Hi,

See below for comments from CDC following the Predict visit.

Please let me know if you have any questions or if there is something that needs to be discussed or decided.

Thanks!

Andrew

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

From: **Christina Chappell** <cchappell@usaid.gov>

Date: Thu, Mar 16, 2017 at 4:38 PM

Subject: Fwd: Predict Ebola study on animals

To: Kendra Chittenden <kchittenden@usaid.gov>, Andrew Clements <aclements@usaid.gov>

Cc: Jennifer Mbabazi <jmbabazi@usaid.gov>, Tamar Bah <tbah@usaid.gov>

Andrew, Kendra

Here are the technical concerns/recommendations which have been raised by our CDC in-country counterparts following the PREDICT team's visit, which merit consideration and response from the PREDICT experts.

As we also discussed, we need to encourage the appropriate outreach/applications/planning to secure means for the potential/eventual need to export the samples (active or inactive, wildlife or domestic animals).

Thank you

Christina

Christina Chappell, MPH

USAID/Health Office

USAID

US Embassy Guinea



Note: I can also be reached at [\(+1\) 724 698 8751](tel:+17246988751) while I am working from the United States

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

From: **Martel, Lise (CDC/CGH/DGHP)** <diz0@cdc.gov>

Date: Fri, Mar 10, 2017 at 1:36 PM

Subject: Predict Ebola study on animals

To: "Dickerson, Barbara J" <DickersonBJ@state.gov>, Jennifer Mbabazi <jmbabazi@usaid.gov>, "Chappell, Christina (CDC usaid.gov)" <cchappell@usaid.gov>, Tamar Bah <tbah@usaid.gov>

Cc: "Bile, Ebi (CDC/CGH/DGHP) (CTR)" <efb6@cdc.gov>, "Diab, Heba I" <DiabHI@state.gov>

Dear all,

Thank you for organizing the session with Predict. It was very informative and interesting. Ebola is a very sensitive subject, so I have a few suggestion that might prevent issues to arise with the MOH in regards to this study and also help the success of the study.

I was under the impression, after the presentation by Predict, that they had already placed a freezer and a generator at Dr. Magassouba's lab for the storage of specimen. This is not the case.

1. Specimen that have been received for this animal study have been stored in a -20 freezer that is different from the -80 freezer that contains human blood Ebola samples. This is good news from a safety perspective. The -80 freezer with Ebola specimen is locked and should not be opened as it contains positive samples that have not been neutralized. Predict might want to quickly acquire a -80 freezer (recommended temperature for blood samples for better conservation) to ensure proper storage of their samples.
2. Dr. Magassouba did not seem to have total clarity of what Predict would provide (freezer/generator) or the specifics of the study. I would recommend meeting with him, go over supplies and study, and do the same with Dr. Sakoba and Prof. Lamine.

Here are some additional recommendations

1. Predict should have a Memorandum of Understanding (MOU) signed by the MOH and Ministry of Livestock that explains the method used to ensure proper handling, neutralization, storage, and shipping of specimen. This was requested by the GoG for the human samples and is a hot topic of conversation right now because of direct safety concerns expressed by both the President and the Minister of Health.
2. The principal investigator on the ground should also be able to demonstrate that proper measures are being taken to ensure the prevention of human infection from potentially infected animal blood. In addition to PPE, proper training, and Trizol being used at the collection sites, it might be advisable to consider additional measures. No vaccine is available at this time. Possible measures:
 - a. daily temperature monitoring of all collectors and their immediate family
 - b. use of a sheet that records who collected which sample and link lab results to this line list of collectors after confirmation of PCR test in California. This should be regularly shared with MOH and time between collection and testing minimized as much as possible for rapid confirmation.
 - c. Field incidents (needle pricks, bites from bats, spill of test tubes or fluids should be well documented and shared
3. More clarification should be given as to why one aliquot is kept in Guinea. For what research will the samples be used? By whom? These should be captured in a research protocol shared with both MOH and Ministry of Livestock
4. The chain of custody, etc should be documented in an SOP.
5. All of these items should be discussed openly with the MOH and the Ministry of Livestock

Also, the person from the Department of State who is responsible for the MOU for the human samples and organizing the irradiation of samples to the US will be in town this weekend until Wednesday. Her name is Heba Diab. Feel free to reach out to her. She might have helpful tips for you.

I hope this helps. If you have specific lab related questions, do not hesitate to reach out to Ebi (CDC) or Heba (DoS).

Regards,

Lise

Lise D. Martel, PhD, M.Ed, MPH
CDC-Guinea Country Director

REDACTED

Email : lmartel@cdc.gov

--

Andrew 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)
E-mail: aclements@usaid.gov

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

<winmail.dat>

--

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

From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: "Morzaria, Subhash (TCE)" <[REDACTED]>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>
Subject: Re: Joint Ebola surveillance and Ebola host country project
Sent: Mon, 3 Apr 2017 13:37:13 +0000

Happy to speak anytime Subhash. Sorry I missed you in Rome last week.

Wednesday is fine with me. Or, anytime today between your flights.

BK

Sent from my iPhone

On Apr 3, 2017, at 6:47 AM, Morzaria, Subhash (TCE) <[REDACTED]> wrote:

Dear Billy,

I would like to urgently discuss with the issue of livestock sample collection in the three Ebola host countries. This is after my visit in Sierra Leone last week and discussions with the USAID and country P-2.

Please let me know if we can Skype during the week from Wed onwards. I will be in the plane mostly this afternoon and the whole of tomorrow travelling to Thailand.

Best regards,
Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, February 28, 2017 9:04 AM

To: Morzaria, Subhash (TCE) <[REDACTED]>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>; Bebay, Charles (AGAH) <[REDACTED]>; Makonnen, Yilma (FAOKE) <[REDACTED]>; Lubroth, Juan (AGAH) <[REDACTED]>; Hasibra, Mirela (TCE) <[REDACTED]>; Tonetti, Bianca (TCE) <[\[REDACTED\]@tce.org](mailto:[REDACTED]@tce.org)>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Thanks Subhash,

This is consistent with our take-away from the phone call.

We have notified all of our central and country staff of the situation using the brief summary below, and will work from this basis in our planning and interactions with local government counterparts. When will you be notifying FAO regional and country staff of the new plans? It would be good if P-2 personnel, FAO staff and USAID Mission in the affected countries learn of these changes as soon as possible.

As soon as you are able to provide final decisions on any or all countries, that would be extremely helpful also.

As we discussed, this is an unfortunate turn of events given the potential to build capacity for practical integrated surveillance and information sharing and all of the time spent over the last two years in coordinating this complex effort. On the other hand, we are still pleased to see the work moving forward in Asia, Egypt and Jordan.

Here is note I sent out to P-2 people on February 23rd.:

Subhash Morzaria will confirm final decisions in the next week or so, and Jonna will follow-up with USAID in one format or another. This is not set in stone, but is how they see things most likely working out unless USAID provides additional funding (or there is another change in plans).

All Asia Countries: Business as usual, no changes

Egypt and Jordan: Business as usual, no changes

Kenya, Tanzania, and Uganda: The livestock samples FAO have already collected will be made available to be tested by PREDICT if we want them and we can find the money to pay for the testing. If we are able to do the testing, FAO MIGHT be able to include funding (per diems, etc.) for local FAO partners to be trained in the techniques, this would be allowable in their budget under their “capacity building” goals.

S.L., Guinea, Liberia: FAO most likely will not be doing the domestic animal sampling or testing, though there is a slim possibility depending on priority setting. Similar to above, they might be able to include funding (per diems, etc.) for local FAO partners to be trained in the field or lab techniques, under their “capacity building” goals (but currently we are not doing in-country testing). If their budgets allow, FAO may also be able to do some domestic animal sampling and testing, but they are not sure about it at this point in time.

All other African countries: They will not be doing any of the sampling and testing coordinated with PREDICT or using PREDICT protocols as we had been planning.

William B. Karesh, D.V.M

Executive Vice President for Health and Policy

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On Feb 27, 2017, at 5:22 PM, Morzaria, Subhash (TCE) <REDACTED> wrote:

Dear Jonna/Billy,

Thank you for joining on Skype late last week to discuss the future role of FAO in the joint P2/FAO synchronized Ebola surveillance in view of the new directive from USAID for FAO to reorientate its work plans in line with the priorities of the GHSA Phase 1 countries in Africa.

The new directive from the donor entails that FAO utilizes its Ebola grant to be focused more on capacity development in the 12 GHSA Phase 1 countries (4 in East Africa, and 8 in West and Central Africa) than in research. While this is a significant change for us, we have been actively considering the process of revising our work plans to comply with the new directive. In the last 6 weeks we have conducted several formal and informal consultations with the key stakeholders (donors, national and international partners and FAO regional and country offices), and are now beginning to reach a general consensus on the way forward to finalizing the work plans that will reflect the new orientation of the Ebola grant awarded to FAO.

Under the revised focus, it is becoming increasingly clear to us that USAID would not accept FAO to continue to conduct livestock surveillance for Ebola at the joint P-2/FAO surveillance sites in countries where Ebola is not prioritized. However, where Ebola has been prioritized we MAY have limited possibility to continue our collaboration depending on the budget for each country. While we have not completed either the work planning or budgeting exercise, the following scenarios are possible with regard to our collaboration.

1. In those countries where Ebola has not been prioritized it would be highly unlikely for FAO to collaborate with P2 to conduct active surveillance for Ebola in livestock.
2. In those countries where Ebola is a priority disease (Guinea, Liberia and Sierra Leone), FAO is likely to be able to support collection of livestock samples, provided FAO can demonstrate that this exercise will support capacity building, and help countries reach higher levels of capacities under various Action Packages as defined by the JEE process.
3. In those countries where we have already collected some samples from livestock at the agreed joint P2-FAO sites (Kenya, Tanzania and Uganda), we MAY be able to support the testing linked with training of laboratory personnel, provided the budget supports this.
4. Additional longitudinal sampling for Ebola in most East African countries may be difficult particularly if it compromises the work of capacity development under the new USAID directive.

I hope that we will be able to provide you with a clearer picture before mid-March once we have fully completed the work plans, budgeting exercise and analyzed the implications on the delivery of the programme under different scenarios.

I would like to reiterate that we immensely value our collaboration with P2, and while this new directive will impact on our collaboration in various ways in Africa, the work that we do together on MERS CoV, AI and other triangulated surveillance in Asia is in no way affected.

Thanks for your understanding, and with best regards,

Subhash

From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: "Morzaria, Subhash (TCE)" <[REDACTED]>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>
Subject: Re: Joint Ebola surveillance and Ebola host country project
Sent: Tue, 18 Apr 2017 17:00:24 +0000

Hi Subhash,

Currently, we have no additional budget for testing of additional samples provided by FAO. If the situation changes, we will certainly let you know.

BK

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

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On Apr 18, 2017, at 12:21 PM, Morzaria, Subhash (TCE) <[REDACTED]> wrote:

Dear Billy,

Further to our chat while I was in Thailand, I wanted to check if for the Ebola host countries (Guinea, Liberia and Sierra Leone) it would be possible for P-2 to test the livestock samples at their cost, if FAO were to collect these samples (at FAO cost) and hand over the samples to country P-2 teams?

If this is the case then we would ensure that livestock sampling is included in our revised workplans.

Please let me know.

Thanks and with best regards,

Subhash

From: Morzaria, Subhash (TCE)

Sent: Monday, April 03, 2017 12:47 PM

To: William B. Karesh <karesh@ecohealthalliance.org>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>

Subject: FW: Joint Ebola surveillance and Ebola host country project

Dear Billy,

I would like to urgently discuss with the issue of livestock sample collection in the three Ebola host countries. This is after my visit in Sierra Leone last week and discussions with the USAID and country P-2.

Please let me know if we can Skype during the week from Wed onwards. I will be in the plane mostly this afternoon

and the whole of tomorrow travelling to Thailand.

Best regards,

Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, February 28, 2017 9:04 AM

To: Morzaria, Subhash (TCE) <[\[REDACTED\]](#)>

Cc: Jonna Mazet <kmazet@ucdavis.edu>; Bebay, Charles (AGAH) <[\[REDACTED\]](#)>; Makonnen, Yilma (FAOKE)

<[\[REDACTED\]](#)>; Lubroth, Juan (AGAH) <[\[REDACTED\]](#)>; Hasibra, Mirela (TCE)

<[\[REDACTED\]](#)>; Tonetti, Bianca (TCE) <[\[REDACTED\]](#)>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Thanks Subhash,

This is consistent with our take-away from the phone call.

We have notified all of our central and country staff of the situation using the brief summary below, and will work from this basis in our planning and interactions with local government counterparts. When will you be notifying FAO regional and country staff of the new plans? It would be good if P-2 personnel, FAO staff and USAID Mission in the affected countries learn of these changes as soon as possible.

As soon as you are able to provide final decisions on any or all countries, that would be extremely helpful also.

As we discussed, this is an unfortunate turn of events given the potential to build capacity for practical integrated surveillance and information sharing and all of the time spent over the last two years in coordinating this complex effort. On the other hand, we are still pleased to see the work moving forward in Asia, Egypt and Jordan.

Here is note I sent out to P-2 people on February 23rd.:

Subhash Morzaria will confirm final decisions in the next week or so, and Jonna will follow-up with USAID in one format or another. This is not set in stone, but is how they see things most likely working out unless USAID provides additional funding (or there is another change in plans).

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William B. Karesh, D.V.M

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The new directive from the donor entails that FAO utilizes its Ebola grant to be focused more on capacity development in the 12 GHSA Phase 1 countries (4 in East Africa, and 8 in West and Central Africa) than in research. While this is a significant change for us, we have been actively considering the process of revising our work plans to comply with the new directive. In the last 6 weeks we have conducted several formal and informal consultations with the key stakeholders (donors, national and international partners and FAO regional and country offices), and are now beginning to reach a general consensus on the way forward to finalizing the work plans that will reflect the new orientation of the Ebola grant awarded to FAO.

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completed the work plans, budgeting exercise and analyzed the implications on the delivery of the programme under different scenarios.

I would like to reiterate that we immensely value our collaboration with P2, and while this new directive will impact on our collaboration in various ways in Africa, the work that we do together on MERS CoV, AI and other triangulated surveillance in Asia is in no way affected.

Thanks for your understanding, and with best regards,

Subhash

From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: "Morzaria, Subhash (TCE)" <[REDACTED]>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, Brian Bird <bhbird@ucdavis.edu>
Subject: Re: Joint Ebola surveillance and Ebola host country project
Sent: Wed, 19 Apr 2017 17:25:29 +0000

Hi Subhash,
Thanks for the kind offer.

Please do not plan to collect any livestock samples for future testing by PREDICT. We have completed enough sampling of livestock, and we are not planning on the triangulated sampling in Guinea, SL or Liberia. Also, we do not have capacity to process and store more samples, nor the funds to do the testing of additional livestock samples.

All the Best,

Billy

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

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On Apr 19, 2017, at 11:05 AM, Morzaria, Subhash (TCE) <[REDACTED]> wrote:

Dear Billy,

Thanks for this information. Would P-2 still want the livestock samples be collected from the joint sites in the Ebola host countries? If not, the countries will redesign the sampling frame based on the country prioritized diseases as defined in the GHSA and the JEE process.

Do you have time to discuss this sometime this week or today?

Best,

Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, April 18, 2017 7:00 PM

To: Morzaria, Subhash (TCE) <[REDACTED]>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Hi Subhash,

Currently, we have no additional budget for testing of additional samples provided by FAO. If the situation changes, we will certainly let you know.

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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On Apr 18, 2017, at 12:21 PM, Morzaria, Subhash (TCE) <REDACTED> wrote:

Dear Billy,

Further to our chat while I was in Thailand, I wanted to check if for the Ebola host countries (Guinea, Liberia and Sierra Leone) it would be possible for P-2 to test the livestock samples at their cost, if FAO were to collect these samples (at FAO cost) and hand over the samples to country P-2 teams?

If this is the case then we would ensure that livestock sampling is included in our revised workplans.

Please let me know.

Thanks and with best regards,

Subhash

From: Morzaria, Subhash (TCE)

Sent: Monday, April 03, 2017 12:47 PM

To: William B. Karesh <karesh@ecohealthalliance.org>

Cc: Jonna Mazet <kmazet@ucdavis.edu>

Subject: FW: Joint Ebola surveillance and Ebola host country project

Dear Billy,

I would like to urgently discuss with the issue of livestock sample collection in the three Ebola host countries. This is after my visit in Sierra Leone last week and discussions with the USAID and country P-2.

Please let me know if we can Skype during the week from Wed onwards. I will be in the plane mostly this afternoon and the whole of tomorrow travelling to Thailand.

UCDUSR0010069

Best regards,
Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, February 28, 2017 9:04 AM

To: Morzaria, Subhash (TCE) <[REDACTED]>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>; Bebay, Charles (AGAH) <[REDACTED]>; Makonnen, Yilma (FAOKE) <[REDACTED]>; Lubroth, Juan (AGAH) <[REDACTED]>; Hasibra, Mirela (TCE) <[REDACTED]>; Tonetti, Bianca (TCE) <[REDACTED]>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Thanks Subhash,

This is consistent with our take-away from the phone call.

We have notified all of our central and country staff of the situation using the brief summary below, and will work from this basis in our planning and interactions with local government counterparts. When will you be notifying FAO regional and country staff of the new plans? It would be good if P-2 personnel, FAO staff and USAID Mission in the affected countries learn of these changes as soon as possible.

As soon as you are able to provide final decisions on any or all countries, that would be extremely helpful also.

As we discussed, this is an unfortunate turn of events given the potential to build capacity for practical integrated surveillance and information sharing and all of the time spent over the last two years in coordinating this complex effort. On the other hand, we are still pleased to see the work moving forward in Asia, Egypt and Jordan.

Here is note I sent out to P-2 people on February 23rd.:

Subhash Morzaria will confirm final decisions in the next week or so, and Jonna will follow-up with USAID in one format or another. This is not set in stone, but is how they see things most likely working out unless USAID provides additional funding (or there is another change in plans).

All Asia Countries: Business as usual, no changes

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Kenya, Tanzania, and Uganda: The livestock samples FAO have already collected will be made available to be tested by PREDICT if we want them and we can find the money to pay for the testing. If we are able to do the testing, FAO MIGHT be able to include funding (per diems, etc.) for local FAO partners to be trained in the techniques, this would be allowable in their budget under their "capacity building" goals.

S.L., Guinea, Liberia: FAO most likely will not be doing the domestic animal sampling or testing, though there is a slim possibility depending on priority setting. Similar to above, they might be able to include funding (per diems, etc.) for local FAO partners to be trained in the field or lab techniques, under their "capacity building" goals (but currently we are not doing in-country testing). If their budgets allow, FAO may also be able to do some domestic animal sampling and testing, but they are not sure about it at this point in time.

All other African countries: They will not be doing any of the sampling and testing coordinated with PREDICT or using PREDICT protocols as we had been planning.

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On Feb 27, 2017, at 5:22 PM, Morzaria, Subhash (TCE)

<[REDACTED]> wrote:

Dear Jonna/Billy,

Thank you for joining on Skype late last week to discuss the future role of FAO in the joint P2/FAO synchronized Ebola surveillance in view of the new directive from USAID for FAO to reorientate its work plans in line with the priorities of the GHSA Phase 1 countries in Africa.

The new directive from the donor entails that FAO utilizes its Ebola grant to be focused more on capacity development in the 12 GHSA Phase 1 countries (4 in East Africa, and 8 in West and Central Africa) than in research. While this is a significant change for us, we have been actively considering the process of revising our work plans to comply with the new directive. In the last 6 weeks we have conducted several formal and informal consultations with the key stakeholders (donors, national and international partners and FAO regional and country offices), and are now beginning to reach a general consensus on the way forward to finalizing the work plans that will reflect the new orientation of the Ebola grant awarded to FAO.

Under the revised focus, it is becoming increasingly clear to us that USAID would not accept FAO to continue to conduct livestock surveillance for Ebola at the joint P-2/FAO surveillance sites in countries where Ebola is not prioritized. However, where Ebola has been prioritized we MAY have limited possibility to continue our collaboration depending on the budget for each country. While we have not completed either the work planning or budgeting exercise, the following scenarios are possible with regard to our collaboration.

1. In those countries where Ebola has not been prioritized it would be highly unlikely for FAO to collaborate with P2 to conduct active surveillance for Ebola in livestock.
2. In those countries where Ebola is a priority disease (Guinea, Liberia and Sierra Leone), FAO is likely to be able to support collection of livestock samples, provided FAO can demonstrate that this exercise will support capacity building, and help

countries reach higher levels of capacities under various Action Packages as defined by the JEE process.

3. In those countries where we have already collected some samples from livestock at the agreed joint P2-FAO sites (Kenya, Tanzania and Uganda), we MAY be able to support the testing linked with training of laboratory personnel, provided the budget supports this.
4. Additional longitudinal sampling for Ebola in most East African countries may be difficult particularly if it compromises the work of capacity development under the new USAID directive.

I hope that we will be able to provide you with a clearer picture before mid-March once we have fully completed the work plans, budgeting exercise and analyzed the implications on the delivery of the programme under different scenarios.

I would like to reiterate that we immensely value our collaboration with P2, and while this new directive will impact on our collaboration in various ways in Africa, the work that we do together on MERS CoV, AI and other triangulated surveillance in Asia is in no way affected.

Thanks for your understanding, and with best regards,

Subhash

Sent: Wed, 19 Apr 2017 21:45:18 -0700
Subject: Re: Joint Ebola surveillance and Ebola host country project
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: "William B. Karesh" <karesh@ecohealthalliance.org>
Cc: Christine Kreuder Johnson <ckjohnson@ucdavis.edu>

Hi Billy,

Chris and I had the opportunity to talk more with Subhash today, as we had a pre-scheduled GVP call. He asked the same question again about testing samples they have or will collect, so we took the opportunity to reinforce the message you delivered very clearly. Thanks again for that.

I also reiterated that we never were planning to triangulate in the three most outbreak affected countries and that we would happily provide them with the results of our SL livestock sampling and testing to help with future planning for EPT-3 or other FAO work. He accepted all as reasonable.

After that he asked about the East Africa samples getting tested that were already collected through the triangulation plan. We explained that we also did not have the funds to test those but that Chris had written up a justification and submitted to Andrew in case USAID had extra funds to get those tested. Subhash thanked us for that and also asked for the totals for those countries, saying that they might have funds to get those tested, as they had just received their country-level budgets (seemingly indicating that they might have received more than they could spend in some countries). So you may hear more about those later. We explained that we had included Tanzania, Ethiopia, and Kenya in the request for testing of samples collected in conjunction with FAO. He mentioned that were similar samples for Uganda. Chris and I weren't aware of that, but we will check-in with Kirsten.

So, maybe more will come of the collaboratively collected samples in East Africa (who knows?).

Wanted to make sure we were all on the same page, as we hadn't planned on this conversation, but Subhash was highly motivated to discuss.

Hope this info is helpful,

Jonna

PS -- I pressed a bit to try to figure out why they keep coming back to us on testing these samples, etc. He mentioned that he has a bunch of highly-motivated junior field teams who are a bit upset about having made these plans and partially executed them only to have no action on the collected samples.

On Wed, Apr 19, 2017 at 2:56 PM, Morzaria, Subhash (TCE) <**REDACTED**> wrote:

Dear Billy,

Thanks for this very clear message. I think that we can now move forward to redirect the work of FAO towards the capacity development for each of the GHSA Phase 1 country as defined by the JEE process.

With best regards,

Subhash

From: William B. Karesh [mailto:karesh@ecohealthalliance.org]
Sent: Wednesday, April 19, 2017 7:25 PM
To: Morzaria, Subhash (TCE) <**REDACTED**>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>; Brian Bird <bhbird@ucdavis.edu>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Hi Subhash,

Thanks for the kind offer.

Please do not plan to collect any livestock samples for future testing by PREDICT. We have completed enough sampling of livestock, and we are not planning on the triangulated sampling in Guinea, SL or Liberia. Also, we do not have capacity to process and store more samples, nor the funds to do the testing of additional livestock samples.

All the Best,

Billy

William B. Karesh, D.V.M

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On Apr 19, 2017, at 11:05 AM, Morzaria, Subhash (TCE) <\$REDACTED> wrote:

Dear Billy,

Thanks for this information. Would P-2 still want the livestock samples be collected from the joint sites in the Ebola host countries? If not, the countries will redesign the sampling frame based on the country prioritized diseases as defined in the GHSA and the JEE process.

Do you have time to discuss this sometime this week or today?

Best,

Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, April 18, 2017 7:00 PM

To: Morzaria, Subhash (TCE) <REDACTED>

Cc: Jonna Mazet <kmazet@ucdavis.edu>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Hi Subhash,

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UCDUSR0010075

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Cc: Jonna Mazet <jkmazet@ucdavis.edu>; Bebay, Charles (AGAH) <**REDACTED**>; Makonnen, Yilma (FAOKE)

<**REDACTED**>; Lubroth, Juan (AGAH) <**REDACTED**>; Hasibra, Mirela (TCE)

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Thanks for your understanding, and with best regards,

Subhash

From: Sarah Paige <spaige@usaid.gov>
Sent: Thu, 20 Apr 2017 16:29:58 -0400
Subject: Re: PREDICT RoC
To: Andrew Clements <aclements@usaid.gov>
Cc: Lisa Kramer <lkramer@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, Alisa Pereira <apereira@usaid.gov>, Andrea Long-Wagar <alongwagar@usaid.gov>

Ok, Thank you!

Sarah Paige, PhD, MPH
Senior Infectious Disease Advisor
USAID Africa Bureau/Health Division
Desk: +1-202-712-1814
Mobile: **REDACTED**
E-mail: spaige@usaid.gov

On Thu, Apr 20, 2017 at 4:02 PM, Andrew Clements <aclements@usaid.gov> wrote:

More or less.

On Thu, Apr 20, 2017 at 9:31 PM, Sarah Paige <spaige@usaid.gov> wrote:

Hi Andrew

Thank you for this update. Is the situation the same for DRC?

Best
Sarah

Sarah Paige, PhD, MPH
Senior Infectious Disease Advisor
USAID Africa Bureau/Health Division
Desk: [+1-202-712-1814](tel:+1-202-712-1814)
Mobile: **REDACTED**
E-mail: spaige@usaid.gov

On Thu, Apr 20, 2017 at 9:53 AM, Lisa Kramer <lkramer@usaid.gov> wrote:

OK, Thanks for the follow-up Andrew.

Lisa

Lisa Kramer
Regional Emerging Pandemic Threats Advisor
USAID/Kenya and East Africa
+254-20-862-2107 (O)
REDACTED (C)

On Thu, Apr 20, 2017 at 3:28 PM, Andrew Clements <aclements@usaid.gov> wrote:

Hi Lisa and Sarah,

We cannot provide any clarity on the future of PREDICT's work in ROC at this time because there are still a number of unknowns including the FY17 funding levels.

We are hoping that in the next 3-4 weeks things will become clearer. At that time we will provide you with an update.

Sorry, but this is the best we can do for now.

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

On Apr 13, 2017, at 10:06 PM, Andrew Clements <aclements@usaid.gov> wrote:

Hi Lisa,

Sarah already asked me about an update for ROC. Jonna and I are trying to schedule a time to talk early next week about ROC plus other countries as well. I'll be in touch with you after that.

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

On Apr 13, 2017, at 1:15 PM, Lisa Kramer <lkramer@usaid.gov> wrote:

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](tel:1-571-345-4253)
E-mail: aclements@usaid.gov

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

From: "Jonna Mazet" <[REDACTED]>
To: <linfa.wang@duke-nus.edu.sg>
Cc: [REDACTED]
Subject: Reminder: Invitation to participate in virus risk ranking assessment
Sent: Wed, 3 May 2017 14:23:38 -0700
[RiskRankingParticipantWorksheet.xlsx](#)

Dear Prof. Linfa Wang,

We hope that you previously received our email soliciting your expert opinion and requesting your participation in a short multidisciplinary process to assess spillover risk from newly detected viruses. As an expert in the field of infectious diseases, your contribution to this exercise would be highly valued and appreciated. If possible, please take a moment of your time to review the information below, and complete the attached worksheet. We anticipate the time allocation to this exercise will be **10 to 20 minutes**.

As you may have heard, the USAID-supported PREDICT project (www.predict.global) has identified short sequences from nearly 1000 unique viral taxonomic units (by consensus PCR followed by sanger sequencing) from viral families known to have members that cause zoonotic diseases. These viruses have been detected in samples collected from animals in more than 20 countries in tropical regions considered to be hotspots for emerging zoonotic disease risk.

As a globally renowned scientist in the field of infectious diseases, we would like to incorporate your expert opinion into an evaluation of the relative impact that select host, environmental, and viral factors contribute to the risk of a new human viral spillover or epidemic event that might originate from novel or known viruses of animal origin. At this point, we are primarily interested in how much each parameter contributes to the overall risk of such an event occurring. The levels of severity within each of the parameters will be evaluated through a different process.

The expert opinion you provide will be combined with that of other top experts in the field and is intended to contribute to a risk ranking module that will be distributed to and evaluated by the scientific community both through the peer-reviewed publication process and via an interactive web application. All contributions to this exercise are voluntary, and identifying information will not be published or be otherwise made available unless you let us know that it is acceptable/desirable to acknowledge you. We are only soliciting opinions from a select group of professionals with relevant expertise; therefore, we ask that the attached worksheet remain confidential and not to be shared with others.

Instructions:

1. Please open and save the worksheet with your initials in the title (i.e. RiskRankingParticipantWorksheet_ZG.xlsx)
2. Complete the 'Demographic Information' at the top of the spreadsheet
3. Answer all categories for 'CONTRIBUTION TO THE RISK OF A NEW HUMAN VIRAL SPILLOVER OR EPIDEMIC EVENT OF ANIMAL-ORIGIN' and 'LEVEL OF EXPERTISE' using provided dropdown options
4. Please return your completed worksheet ASAP to [REDACTED] original deadline **April 28th 2017** extended for your participation to May 12 or by arrangement if this date is impossible and you would still like to contribute.

We sincerely hope that we can count on your important involvement in the process and that you will accept our gratitude for your time and contribution to scientific collaboration.

Sincerely,

Prof. Jonna Mazet

Global Director, PREDICT USAID
Professor of Disease Ecology and Epidemiology
One Health Institute
School of Veterinary Medicine
University of California Davis

REDACTED

Project Scientist, PREDICT USAID
Postdoctoral Researcher in Disease Ecology
One Health Institute
School of Veterinary Medicine
University of California Davis

1089 Veterinary Medicine Drive
Davis, CA 95616, USA
jkmazet@ucdavis.edu

1089 Veterinary Medicine Drive
Davis, CA 95616, USA

REDACTED

Produced in Native Format

From: Peter Daszak <daszak@ecohealthalliance.org>
To: Jonna Mazet (jkmazet@ucdavis.edu) <jkmazet@ucdavis.edu>; Brooke Genovese (bgenovese@ucdavis.edu) <bgenovese@ucdavis.edu>
CC: Alison Andre <andre@ecohealthalliance.org>
Sent: 5/23/2017 1:17:02 PM
Subject: Quick call later this afternoon if possible?

Hi Jonna,

I'm on the train up from DC and want to check a couple of things re. transition from MB countries. Could I give you a call sometime after the train gets in (2.30pm CA time)? Should be just 10-15 mins, and nothing controversial...!

Cheers,

Peter

Peter Daszak
President

EcoHealth Alliance
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From: Andrew Clements <aclements@usaid.gov>
To: Jonna Mazet <jkmazet@ucdavis.edu>
CC: Elizabeth Leasure <ealeasure@ucdavis.edu>; David J Wolking <djwolving@ucdavis.edu>; Alisa Pereira <apereira@usaid.gov>; Shana Gillette <sgillette@usaid.gov>; Amalhin Shek <ashek@usaid.gov>; Matt Blake <mblake@ucdavis.edu>
Sent: 5/24/2017 2:53:12 AM
Subject: Re: Urgent: follow up on EHP funding

Thanks, Jonna. Hope Liz feels better.

*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*

On May 24, 2017, at 4:25 AM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Hi Andrew,
I'm sorry, but I couldn't do this on my own today, and Liz was out sick. If she's in tomorrow morning, we'll try to do it accurately. If not, I will try to estimate.
I have Metabiota transition meetings all morning, but we'll try to make it work by repackaging data.
Jonna

On Tue, May 23, 2017 at 9:01 AM, Andrew Clements <aclements@usaid.gov> wrote:
Hi all,

I need your help with some financial information. We had a chat about EHP funding today and the feeling is that Predict will neither get all the remaining money at one time nor any guarantee of getting all the EHP money. The budget office is intent on metering out the money based on expenditures rates as is the standard USAID procedure for providing incremental funding (despite that fact that you got the 49.2 M in one chunk).

So, our only real way forward is to provide our budget office with the following information:

- * how much money has been expended to date for EHP in each of the 3 countries? (Please provide the date you used as the cut-off, e.g. \$X spent through Y, 2017. Don't worry about providing the most up to date data. Go with whatever is the most current you already have in hand.)
- * how much money is remaining for EHP in each of the 3 countries? (Please provide the date you used as the cut-off, e.g. \$X remaining as of Y, 2017.)
- * what is the estimated monthly or quarterly burn rate (assume full level of implementation) for EHP implementation in each of the countries over the next 6-12 months?
- * what is the estimated amount of funding needed for EHP implementation in each of the 3 countries (assume full level of implementation) for (a) Jun 1, 2017 through Dec 31, 2017 and (b) Jun 1, 2017 through May 31, 2018. (Please use the estimated burn rates above.)

We have an internal USAID follow up discussion planned for Thursday morning DC time, so it would be much appreciated if you could provide the requested information by 3:00 PM EDT on Wednesday.

If you have any questions, please let me know. I would be happy to explain further/clarify by phone if that would be useful.

Lastly, I apologize for any duplication of effort this may cause related to financial information you have

previously provided. I also apologize for this being such a drawn-out process. Hopefully, this information will allow us to get past the bottleneck for at least 7-12 months.

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: Jonna Mazet <jkmazet@ucdavis.edu>
To: Corina Grigorescu Monagin <cgmonagin@ucdavis.edu>
CC: Brian Bird <bhbird@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>
Sent: 5/30/2017 3:41:03 PM
Subject: Re: Request for update on Predict transition in SL and G

Thanks very much,
Jonna

On Tue, May 30, 2017 at 2:11 PM, Corina Grigorescu Monagin <cgmonagin@ucdavis.edu> wrote:

Hi Jonna,

A few updates from Guinea per the below questions from Andrew:

- I'm beginning in-county team interaction later this week but we can probably expect several months of transition depending on what is required for transfer of permits (if transfer is even needed)
- 3 full time PREDICT staff and 22 field team staff covered at least until end of June
 - o 11 field staff in Conakry (these staff may be let go if we concentrate collection in the forest region)
 - o 11 field staff in N'Zérékoré (these should be kept)
- The in country team and MB have not had contact with the Mission about the transition. Please advise how you would like to proceed with that.

Thanks

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

From: **Andrew Clements** <aclements@usaid.gov>
Date: Fri, May 26, 2017 at 8:35 AM
Subject: Request for update on Predict transition in SL and G
To: Jonna Mazet <jkmazet@ucdavis.edu>
Cc: djwolking@ucdavis.edu, Alisa Pereira <apereira@usaid.gov>, Shana Gillette <sgillette@usaid.gov>

Hi Jonna,

Sorry to pile more on your plate.

The mission in Sierra Leone is apparently getting confusing information about the Predict management transition and they are unclear about what happens to the existing staff. I told them to try to ignore the noise and that I would provide them with an update. I'm assuming the same might also happen in Guinea.

So, can you let me know:

* what is the planned timing of the management transitions in SL and G?

* which Predict partner(s) will assume management responsibility in SL and G and what person(s) will be the primary backstop(s) for these countries?

* do you know if the local staff in SL and G will be retained?

(Perhaps it would make sense to have a call with the 2 missions like we did this week for Zandra. Thoughts?)

Two other issues for SL:

1. What is the status of Predict sending a response to the letter from MAFFS? With the various pieces that have fallen into place in the last few days regarding the budget, are you feeling more comfortable (or at least less uncomfortable) committing to capacity building in SL? It would be nice, if possible, to have this issue taken care of before the USAID team visits in mid-June.

2. Are you also feeling more comfortable in moving ahead with more field sampling in SL (and Guinea and Liberia)?

Thanks!

Andrew

P.S. Not sure whether or not there are any opportunities for the visiting USAID to see some of Predict's work in SL. Kendra thought they were planning on going to the lab. Is there anything else nearby they could see or observe while in the neighborhood?

P.P.S. We should plan on proactively reaching out to missions in all other countries where Metabiota is either being replaced or its scope reduced so that we don't have unnecessary confusion for the missions and local staff.

Andrew P. Clements, Ph.D.

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From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
CC: David J Wolking <djwolking@ucdavis.edu>; Alisa Pereira <apereira@usaid.gov>; Shana Gillette <sgillette@usaid.gov>
Sent: 5/30/2017 4:30:24 PM
Subject: Re: Request for update on Predict transition in SL and G

Hi Andrew -- I have added these questions to our MT call agenda, but in advance of that discussion, here are some details for you. UC Davis will be assuming leadership in both countries. The transition will be necessarily slow, only because the permissions to operate in both countries are in Metabiota's name only. That means that we must keep Metabiota in play while we work out permitting transitions to ensure that we don't have a break in project operations. We also want to make things as fair and easy on in-country staff as possible, so we will be retaining most of the staff -- some for the long-term and some for the next couple of months while we evaluate their capacities.

The transition process could take weeks to months, but we plan to continue operations as we transition. We had a call with Nathan and new Metabiota CEO Bill Rossi today, and all appears to be back on track, amicable, and progressing appropriately.

Sierra Leone:

- Global Lead will be Brian Bird, with extensive operational experience in Sierra Leone, including deployments during the most recent outbreak while working for CDC.

Brian H. Bird DVM, MSPH, PhD

One Health Institute

1089 Veterinary Medicine Dr.

School of Veterinary Medicine

University of California, Davis

bhbird@ucdavis.edu

- We are working on a laboratory capacity plan that can help to address the concerns in the MOH/ MAFFS letter. Our Country PI and Country Coordinator are involved in that process. It should be complete in 2 weeks and will be shared with DC and the Mission in advance of the official response. We can discuss the impetus of the letter from the GoSL on the MT call. Our goal is to have a scaled lab capacity plan ready to discuss in advance and during the USAID visit mid-June. It will be scaled based on current financial obligations and planned for further steps as incremental funding is obligated.
- Field sampling will be continued; however, we would like to make sure next steps are scientifically-sound based on the results of the testing from the second shipment of samples (which is in process) and based on the desires of the Mission and the communities in response to the communication roll-out. We believe the communication piece should be the subject of the June visit, rather than field sampling.
- Brian will be able to attend the mid-June USAID/DC visit, should schedules continue to align.
- We are hopeful that introductions and coordination with the in-country communication team could be done together with the USAID/DC visitors mid-June. Is that possible? If not, and we need to move ahead separately, a planning session for roll-out of the finding would be most useful.
- There has been mention of a high-level delegation visit to MOH and MAHHS being desired to get the release of the finding rolling faster. This delegation might be perfect for that, and we would have the capacity building plan ready for delivery by this delegation if you believe that such visits are possible/advantageous.
- The lab is about a 4.5 hour drive from Freetown. Is the USAID/DC team planning on a two-day excursion to see the lab? Not sure a short spin through a lab is worth that trip, but we will accommodate if desirable.
- Now that UCD is working directly with the in-country team, we will reach out ASAP to do a joint call with the Mission, just as we did with Zandra.

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Corina Monagin, MPH, DrPH
 Project Scientist, PREDICT Project of USAID
 One Health Institute
 School of Veterinary Medicine
 University of California Davis
 1089 Veterinary Medicine Drive
 Davis, CA 95616, USA
 Mobile: +1.415.741.6996

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- The in-country team and MB have not had contact with the Mission about the transition. Please advise how you would like to proceed with that, but our plan is to schedule a joint reach-out to introduce the transition and answer questions ASAP. Corina is in Senegal currently, but a call may be possible while she is there. In any case, it can be accomplished soon.

Looking forward to discussing further, and please let us know if you have further questions/concerns,
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To: Jonna Mazet <jkmazet@ucdavis.edu>
CC: David J Wolking <djwolking@ucdavis.edu>; Alisa Pereira <apereira@usaid.gov>; Shana Gillette <sgillette@usaid.gov>
Sent: 5/31/2017 1:34:45 AM
Subject: Re: Request for update on Predict transition in SL and G

Just sent the Guinea mission an email to update them on the transition and included your offer to discuss by phone. I will let you know if they would to take you up on that offer.

*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*

On May 31, 2017, at 1:30 AM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

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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: Andrew Clements <aclements@usaid.gov>
Sent: Mon, 3 Jul 2017 13:27:06 +0200
Subject: Fwd: End of DRC Ebola outbreak
To: Jonna Mazet <jkmazet@ucdavis.edu>, Amalhin Shek <ashek@usaid.gov>, "Subhash (FAORAP) Morzaria" <[REDACTED]>, "Soumare, Baba (RAF)" <[REDACTED]>, "Pereira, Alisa (GH/HIDN)" <apereira@usaid.gov>, Shana Gillette <sgillette@usaid.gov>, Chris Thomas <chthomas@usaid.gov>, "Lim, Matthew L" <LimML@state.gov>
[EbolaDRC-30062017.pdf](#)
[Communication Spéciale sur la Fin de l'Epidémie d'Ebola en RDC 1 juillet 2017.pdf](#)

FYI. Ebola outbreak declared over in DRC.

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

From: Lisa Kramer <lkramer@usaid.gov>
Date: Mon, Jul 3, 2017 at 12:50 PM
Subject: Fwd: End of DRC Ebola outbreak
To: Andrew Clements <aclements@usaid.gov>, Richard Greene <rgreene@usaid.gov>, Andrea Long-Wagar <alongwagar@usaid.gov>, Dennis Carroll <dcarroll@usaid.gov>
Cc: Sarah Paige <spaige@usaid.gov>

FYI, the official communications from the GoDRC MOH.

Lisa Kramer
Regional Emerging Pandemic Threats Advisor
USAID/Kenya and East Africa
+254-20-862-2107 (Office)
[REDACTED] (Mobile)

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

From: Jean-Felly Numbi <jnumbi@usaid.gov>
Date: Mon, Jul 3, 2017 at 1:47 PM
Subject: End of DRC Ebola outbreak
To: Sarah Paige <spaige@usaid.gov>, Lisa Kramer <lkramer@usaid.gov>

Dear Sarah and Lisa,
Here for FYI MOH declaration on the end of Ebola Outbreak.

Keep well,

--
Jean Felly Numbi
USAID-DRC TB& Infectious Disease Advisor
Office Phone #:0815554522

Mind: "One Health is the collaborative effort of multiple disciplines. Working locally, nationally, and globally to attain optimal health for people, animals, and our environment"

--
Andrew Clements, Ph.D.
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UCDUSR0010098

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



Ministère de la Santé Publique

Le Ministre

**Communication spéciale de Son Excellence Dr Oly ILUNGA KALENGA,
Ministre de la Santé, sur la fin de la maladie à virus Ebola**

Chers compatriotes,

Le jeudi 11 mai 2017, suite à la survenue de la maladie à virus Ebola dans la zone de santé de Likati dans la province du Bas-Uélé dans le territoire d'Aketi à environ 165 kilomètres de Buta, j'annonçais à l'opinion nationale et internationale que la République Démocratique du Congo faisait face à une urgence de santé publique de portée internationale.

C'est grâce à la vigilance des professionnels de santé locaux, à leur diligence et à l'efficacité des canaux de communication entre la base et le sommet de la pyramide sanitaire que l'alerte a pu être rapidement donnée.

Sous l'impulsion de Son Excellence Joseph KABILA KABANGE, Président de la République et Chef de l'Etat, et sous la coordination du Premier Ministre, Son Excellence Bruno TSHIBALA NZENZHE, le Gouvernement a réagi promptement pour organiser le déploiement rapide de la riposte, à travers le Comité National de Lutte contre les épidémies basé à Kinshasa et composé de 7 commissions.

Les principales activités de riposte ci-après menées par le Ministère de la Santé Publique, via la Coordination nationale, avec le soutien de nos amis et partenaires que nous remercions OMS, UNICEF, CDC, MSF, UNFPA, PATH, USAID, JICA, MONUSCO, PAM, et la Chine ont permis de stopper la propagation de la maladie. Il s'agit notamment :

14

- Du déploiement en moins de 48 heures à partir de Kinshasa d'une équipe d'intervention rapide composée d'épidémiologistes, biologistes, vétérinaires, logisticiens, cliniciens et spécialistes en Eau, Hygiène et Assainissement ;
- Du déploiement et de l'installation de deux laboratoires mobiles à Likati et à Buta pour faciliter la confirmation rapide des cas ;
- De l'instauration des soins de santé gratuits pour la population de Likati ;
- Des campagnes de communication et de sensibilisation de la population pour la prévention ;
- De la prise en charge psychosociale des victimes d'Ebola et de leurs familles.

Au total en date du 1^{er} juillet, le Comité International de Coordination Scientifique et Technique, avec l'implication des sous-commissions œuvrant sur terrain, a comptabilisé 8 cas dont 3 probables, car antérieurs à l'investigation, et 5 confirmés au laboratoire. De tous ces cas, 4 sont décédés. 105 patients suspects qui répondaient à la définition des cas ont tous été testés négatifs. 583 personnes ayant été en contact avec des cas suspects ont été suivies pendant 21 jours chacun et 137 échantillons ont été prélevés et examinés.

Depuis le 2 juin 2017, aucun autre nouveau cas confirmé de fièvre hémorragique à virus Ebola ni par PCR ni par sérologie, n'a été enregistré dans la Bas-Uélé. Après une observation d'une période de 42 jours, soit 2 fois 21 jours sans aucun nouveau cas confirmé enregistré, et comme l'exige la réglementation sanitaire en matière de surveillance des FHV, je déclare à partir de ce jour à minuit la fin de l'épidémie de Fièvre Hémorragique à virus Ebola en RDC, à Likati, territoire d'Aketi, Province du Bas-Uélé.

Le Gouvernement de la République tient à remercier les populations, les autorités administratives et coutumières des zones de Likati, Nambwa, Muma et Ngay, touchées par la maladie à virus Ebola, pour l'accueil et les facilités qu'elles ont accordées aux équipes, ainsi que leur implication dans la riposte.

Je tiens tout particulièrement à féliciter les professionnels nationaux et provinciaux déployés sur le terrain pour servir la nation, et qui ont donné le meilleur d'eux-mêmes sans jamais se mettre en danger. Ils se portent tous bien. Après avoir passé le flambeau

Suite

aux équipes provinciales venues de Buta, la dernière équipe d'experts centraux déployés sur terrain quittera Liakti demain dimanche 2 juillet, et est attendue à Kinshasa lundi 3. Tous ces acteurs peuvent être fiers de la mission qu'ils ont accomplie.

Comme souligné lors de mon adresse du 11 mai dernier, la population congolaise peut faire confiance à nos professionnels de santé pour faire face à ce type de crise sanitaire.

Chers compatriotes,

En déclarant la fin de la huitième résurgence de la maladie à virus Ebola dans notre pays, il convient de rappeler à l'opinion que tous les efforts doivent maintenant s'orienter vers la stabilisation et la résilience du système de santé de la province du Bas-Uélé qui a été fortement déstabilisé. Sans renforcement du système, aucune surveillance épidémiologique efficace n'est possible. J'appelle donc à la mobilisation générale pour la reprise des activités programmées dans la mise en œuvre du Plan stratégique National de Développement Sanitaire.

Je vous remercie.


Dr Oly ILUNGA KALENGA

EBOLA VIRUS DISEASE

Democratic Republic of the Congo

External Situation Report 28



Date of information: 30 June 2017

1. Situation update

The Ebola virus disease (EVD) outbreak in Likati Health Zone, Bas Uele Province in the north east of the country remains stable. As WHO, UN Agencies, international organizations, non-governmental organizations (NGOs) and partners continue to support the Ministry of Health (MoH) in the Democratic Republic of the Congo to ensure the outbreak remains controlled, planning is also underway to declare the end of the outbreak on 2 July 2017.

Since our last update on 27 June, no new confirmed, probable or suspected cases have been reported. Two alerts were reported between 27 June and 28 June. One alert was from Mobenge and the other, a community death in Tobongisa, was considered a suspected case. All the alerts and the suspected cases were subsequently discarded following further investigation.

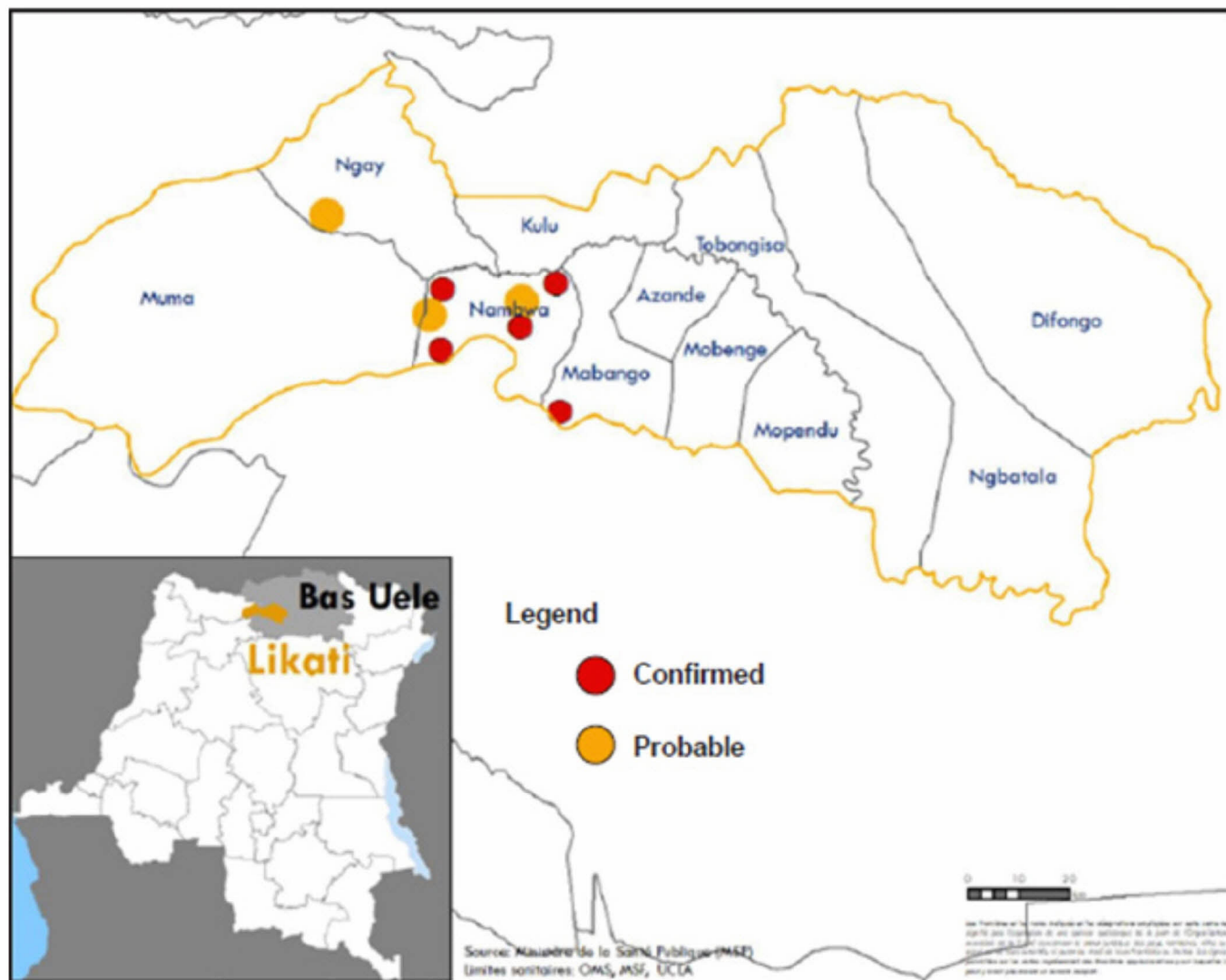
Cumulatively, since the start of the outbreak, there have been five confirmed and three probable cases. The last confirmed case was isolated on 17 May 2017 and tested negative for EVD by PCR for the second time on 21 May 2017. Of the confirmed and probable cases, four survived and four died, resulting in a case fatality rate of 50%. The confirmed and probable cases were reported from Nambwa (three confirmed and two probable), Muma (one probable), Ngayi (one probable) and Mabongo (one confirmed).

All seven response committees are maintaining functionality at the national level, namely monitoring, case management, water sanitation and hygiene (WASH) and biosafety, laboratory and research, psycho-social management, logistics, and communication. A response team will remain in the affected areas until the declaration of the end of the outbreak.

The declaration of the end of the outbreak is expected on 2 July following a 42 day period since the last confirmed case tested negative for the second time. The 42 day period is twice the maximum incubation period for Ebola and is used to confirm the interruption of human to human transmission of the disease. Following this period enhanced surveillance will continue for 90 days together with heightened infection, prevention and control measures.

This EVD outbreak in the Democratic Republic of the Congo was notified to WHO by the MoH on 11 May 2017. The cluster of cases and deaths of previously unidentified illness had been reported since late April 2017. Likati Health Zone shares borders with two provinces in the Democratic Republic of the Congo and with the Central African Republic (Figure 1). The affected area is remote and hard to reach, with limited communication and transport infrastructure.

Figure 1. Geographical distribution of confirmed and probable cases of Ebola virus disease in the Democratic Republic of the Congo as of 26 June 2017



As this is a rapidly changing situation, the reported number of cases and deaths, contacts being monitored and the laboratory results are subject to change due to enhanced surveillance, contact tracing activities, ongoing laboratory investigations, reclassification, and case, contact and laboratory data consolidation.

Current risk assessment

The previous risk assessment undertaken on 16 May 2017 was re-evaluated on 6 June 2017 by WHO in light of the evolution of the outbreak and the available information.

- The overall risk at the national level has been revised to moderate due to the fact that a rapid response team was deployed, field investigation identified cases and contacts and all contacts completed their 21 day monitoring period. A response team remains in the field and treatment units are established.
- The risk at the regional and global level is low as no cases have been reported outside of Likati health zone and the area is remote with limited access and transport to/from the affected area. .

WHO advises against the application of any travel or trade restrictions on the Democratic Republic of the Congo based on the currently available information. WHO continues to monitor reports of measures being implemented at points of entry.

WHO's strategic approach to the prevention, detection and control of EVD

WHO recommends the implementation of proven strategies for the prevention and control of Ebola outbreaks. These strategies include (i) coordination of the response, (ii) enhanced surveillance, (iii) laboratory confirmation, (iv) contact identification and follow-up, (v) case management, (vi) infection prevention and control, (vii) safe and dignified burials, (viii) social mobilization and community engagement, (ix) logistics, (x) risk communication, (xi) vaccination, (xii) partner engagement, (xiii) research and (xiv) resource mobilization.

2. Actions to date

In support of the MoH and the other national authorities, an interagency rapid response team was deployed to Likati Health Zone to support the immediate investigation of the outbreak and rapidly establish key pillars of the response at the epicentre. The interagency response team is coordinated by the MoH, and supported by WHO, Institut National de Recherche Biomédicale (INRB), Médecins Sans Frontières (MSF), United Nations Children's Fund (UNICEF), The Alliance For International Medical Action (ALIMA), International Federation of Red Cross and Red Crescent Societies (IFRC), World Food Programme (WFP), and United Nations Humanitarian Air Service (UNHAS) and other partners.

WHO continues to provide direct technical and operational support to the country, and is collaborating closely with partners to maintain a rapid and effective response to this outbreak.

Coordination of the response

- Regular meetings of the Health Emergency Management Committee (COGUS) at all levels of the response operations continue in the Democratic Republic of the Congo at Health Zone, Provincial and National level, with MOH, and partners.
- Regular coordination meetings of WHO incident management teams in Kinshasa, Brazzaville, and Geneva continue across the 3-Levels of WHO.
- Post-response arrangements are being planned.

Surveillance

- The post-outbreak surveillance response plan for the following 90 days has been sent to the national surveillance committee.

Laboratory

- Briefing and practical exercises conducted amongst clinical staff on the utilisation of Ebola rapid diagnostic tests, phlebotomy, preservation and transport of samples.

Case management

- Support is being provided to the four survivors on prevention against potential sexual transmission of the virus.
- In order to increase access to and use of primary health care services, free health care is operational in Likati covering consultations and essential drug provisions. This has increased service utilisation. Between 31 May 2017 and 28 June 2017, 8,352 patients across 11 health areas.
- The Ministry of Health and WHO have jointly distributed 34 medical kits including essential drugs for malaria, acute respiratory disease and diarrhoeal disease.

Infection prevention and control (IPC) and WASH

- Ongoing distribution and community sensitization on aquatabs and hand washing measures by Red Cross volunteers.
- Community deaths continue to be alerted with safe burials conducted. Joint surveillance and WASH teams are also deployed to investigate and sensitize funeral attendees.
- PPE has been distributed to the teams conducting safe burials
- A distribution plan for bucket with taps in collaboration has been developed.

Social mobilization, community engagement and risk communications

- The psychosocial support plan are currently being finalized
- Sensitization of mosque and church leaders on Ebola
- Awareness-raising sessions through video projections have been held
- Continued community sensitization on use of aquatabs and handwashing by Red Cross volunteers.

Logistics

- Since the beginning of the outbreak, WHO has set up and maintained an airlift between Kinshasa and the affected area, and provides logistic support to response activities. Three logistic bases in Kinshasa, Kisangani, and Likati are still operational and continue to assist with deployment of WHO staff and partner organizations (including UNICEF, MSF, ALIMA, and Red Cross), to and from the affected areas including transportation of over 10 metric tons of materials and equipment.
- WHO logistics team continue to support the distribution of donated drugs and hospital supplies to the health areas in Likati as part of the temporary free medical care programme.
- Planning for the repatriation of staff and return or distribution of equipment has commenced.
- An electrical lighting system has been installed at the Likati hospital

Partnership

- WHO and GOARN continue to mobilize partners to provide technical and logistical support to the country, and work closely together with UN Clusters, stakeholders and donors to ensure appropriate support for the response.
- GOARN Operational Support Team hosts weekly assessment and coordination teleconference for operational partners on current outbreaks of international concern, particularly the EVD outbreak in DRC.
- At the request of Dr Salama (Executive Director of the WHO Health Emergencies Programme) at WHO HQ convened a time-limited Ebola Inter-Agency Coordination Group with senior leadership from MSF, IFRC, UNICEF, US CDC and WFP, to provide agency updates about response actions and discuss any critical coordination issues.

- WHO does not currently recommend any restrictions of travel and trade in relation to this outbreak.
- As of 26 June 2017, nine countries have instituted entry screening at airports and ports of entry (Kenya, Malawi, Nigeria, Rwanda, South Africa, Uganda, the United Republic of Tanzania, Zambia and Zimbabwe), and one country has issued travel advisories to avoid unnecessary travel to the Democratic Republic of the Congo (Rwanda). Two countries (Kenya and Rwanda) implemented information checking on arrival for passengers with travel history from and through the Democratic Republic of the Congo. These measures are within the prerogative of the States Parties and do not qualify as additional health measures that significantly interfere with international traffic under Article 43 of the IHR (2005).
- In addition, Rwanda instituted denial of entry for passengers with fever travelling from the affected areas in the Democratic Republic of the Congo, which significantly interferes with international traffic, in accordance with Article 43 of the IHR (2005). WHO is working with Rwandan authorities to receive the public health rationale and scientific evidence for this measure. It is expected that the measure will be rescinded once the outbreak in Democratic Republic of Congo is declared ended.

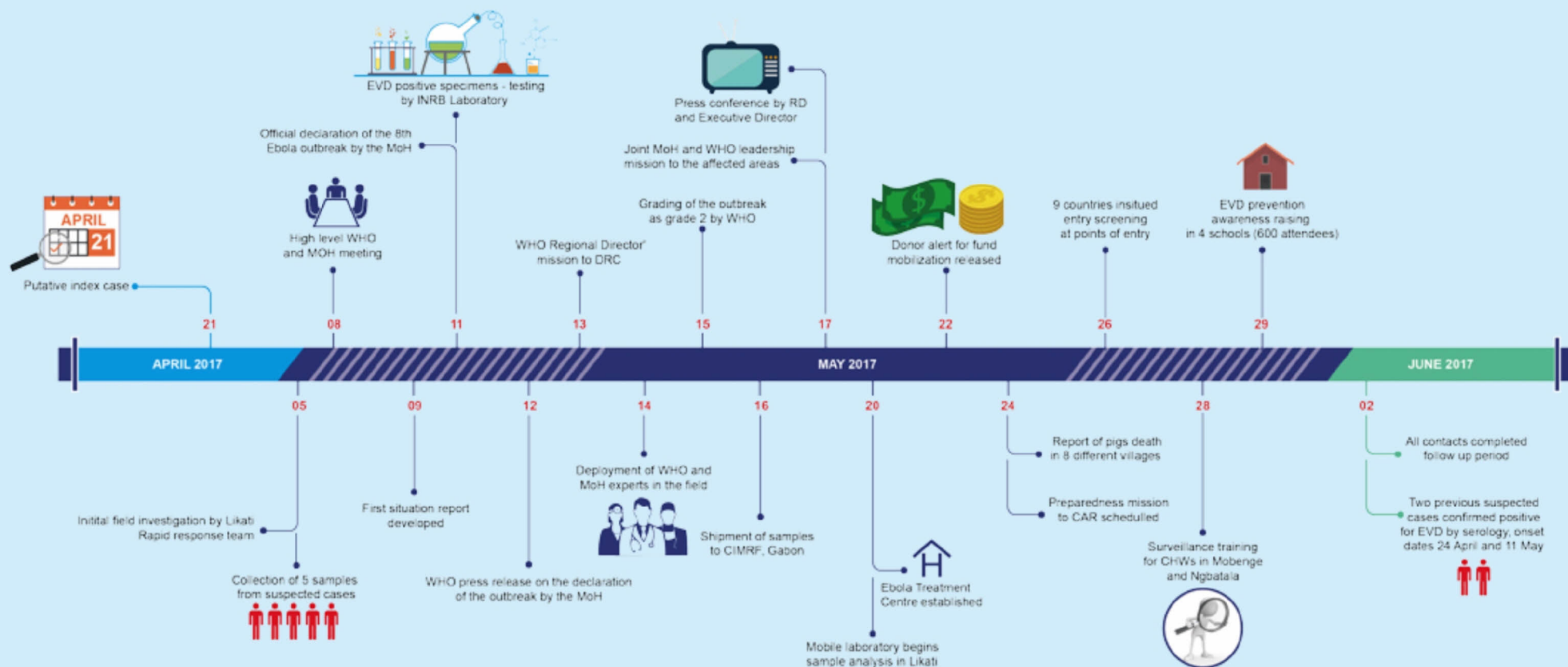
3. Summary of public health risks, needs and gaps

As the outbreak draws to an end, the withdrawal of partners from the response area is being carefully planned. This plan will also consider the gaps that will be left once partners have withdrawn. While the free healthcare policy has seen a large increase in healthcare utilization, long term financing and technical support of the facilities in Likati will need to be addressed to ensure sustainability. The most critical needs include enhanced surveillance activities, maintenance of laboratory capacity in the field to enable rapid confirmation of results, and enhancement of IPC measures. The Ministry of Health with the support of WHO and partners will be looking to address these in the 90 post-Ebola plan which is now under review by the national surveillance committee.

Annex 1: Ebola virus disease outbreak epidemiological data

	Date of data collection	Health area							Cumulative (since beginning of the outbreak)	Comments
		Nambwa	Muma	Ngayi	Azande	Ngabatala	Mogenbe	Mabongo		
Cases										
Suspected	28/06/2017	0	0	0	0	0	0	0	0	
Probable	28/06/2017	2	0	1	0	0	0	0	3	
Confirmed	28/06/2017	3	1	0	0	0	0	1	5	One confirmed case has been reclassified as originating from Muma
Total cases	28/06/2017	5	1	1	0	0	0	1	8	There is a total of 106 non-cases
Deaths										
Deaths among suspected cases	28/06/2017	0	0	0	0	0	0	0	0	
Deaths among probable cases	28/06/2017	2	0	1	0	0	0	0	3	
Deaths among confirmed cases	28/06/2017	1	0	0	0	0	0	0	1	
Total deaths registered	28/06/2017	3	0	1	0	0	0	0	4	
Contacts										
Total contacts registered	28/06/2017	197	116	180	11	10	6	63	583	
Contacts of non-cases no longer under follow-up	28/06/2017	70	28	72	33	10	1	12	226	
Total contacts under follow-up	28/06/2017	0	0	0	0	0	0	0	0	
Contacts seen	28/06/2017									
Contacts who have completed 21 days follow-up	28/06/2017	118	77	93	18	0	0	51	357	The latest date of follow-up completion is 6/06/17.
Contacts lost to follow-up	28/06/2017									
Laboratory										
Cases with a positive result	28/06/2017	4						1	5	2 cases had a positive PCR result and 3 cases were classified as positive following increasing IgG titres. The last confirmed patient had their second EVD PCR negative specimen collected on 21/05/17 following recovery.
Animal samples	28/06/2017	18								Samples were collected after unusually high number of deaths in pigs. As of 12/06/17, 12 pig and 6 goat samples initially tested Ebola PCR negative. Samples from ducks that hand presented with haemorrhagic signs were Ebola-PCR negative.

Annex 2: Timelines of key activities during the EVD outbreak in Likati, Democratic Republic of the Congo



From: Andrew Clements <aclements@usaid.gov>
Sent: Mon, 24 Jul 2017 18:48:46 +0200
Subject: WHO | Middle East respiratory syndrome coronavirus (MERS-CoV)
To: William Karesh <Karesh@ecohealthalliance.org>, "Daniel Schar (RDMA/OPH)" <dSchar@usaid.gov>, "Sudarat Damrongwatanapokin (RDMA/OPH)" <sDamrongwatanapokin@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, "Subhash Morzaria (FAORAP)" **REDACTED**, Iparish@usaid.gov, "Lisa Kramer (Nairobi/EA/RHH)" <lkramer@usaid.gov>, "Juan (AGAH)" (**REDACTED**) Lubroth" <**REDACTED**>

WHO update

<http://www.who.int/emergencies/mers-cov/en/>

*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: William B. Karesh <karesh@ecohealthalliance.org>
To: Jonna Mazet <jkmazet@ucdavis.edu>; David Wolking <djwolving@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Dr. Damien Joly" <djoly@metabiota.com>
Sent: 11/15/2017 11:00:50 AM
Subject: CBEP RFI for wildlife work in Cambodia, Laos, Vietnam

REQUEST FOR INFORMATION
Defense Threat Reduction Agency Cooperative Biological Engagement Program
PACOM Wildlife Surveillance Project

Synopsis:

This is a Request for Information (RFI). This is NOT a solicitation for proposals, proposal abstracts, or quotations. This notice is for MARKET RESEARCH PURPOSES ONLY, and in no way obligates the United States Government to issue a solicitation or otherwise make a contract award. The Defense Threat Reduction Agency is seeking eligible performers to fully plan, organize, and execute a wildlife surveillance project, including training, field work, lab work, document development, and subject matter expert (SME) support.

Background:

The U.S. Department of Defense (DoD) initiated the Cooperative Biological Engagement Program (CBEP) to secure and consolidate Select Agents and Toxins (as identified on the Centers for Disease Control and Prevention and United States Department of Agriculture Select Agent and Toxin list); and enhance biosurveillance, biosafety, and biosecurity standards in accordance with the World Health Organization (WHO) International Health Regulations (IHR 2005) and World Organization for Animal Health (OIE) Guidelines. To achieve its nonproliferation mission, CBEP works collaboratively with partner nations, U.S. Government agencies, and the international community to enhance disease detection, diagnosis, surveillance, and reporting capabilities; develop human resource expertise in public and animal health; promote safe and secure laboratory working environments; and consolidate pathogens of security concern into a minimal number of safe and secure facilities in a sustainable manner.

Purpose and Objectives:

The following are requirements, capabilities, and deliverables the U.S. Government may request in order to satisfy the criteria of the scope as outlined below and subsequently may issue a Request for Proposals (RFP).

- Requirements
 - a. Conduct field and laboratory work related to wildlife disease outbreaks and pathogen emergence (disease surveillance) in Cambodia, Vietnam and Lao PDR;
 - b. Develop and conduct training to government health personnel, particularly in Cambodia, Vietnam and Lao PDR;
 - c. Assist foreign government agencies with the development of national wildlife disease surveillance strategies, and particularly in Cambodia, Vietnam and Lao PDR; and,
 - d. Establish and operate field offices in Cambodia, Vietnam, and/or Lao PDR..

Response Requirements:

The U.S. Government invites sources that have the capability to meet these parameters and would have an interest to bid on a requirement of similar objectives to respond to this RFI. Responses shall be limited to five (5) pages. Company information shall not exceed one full page. Pages not included in the total page count are the cover page, the cover letter and the table of contents.

Submission Instructions:

Responses shall be limited to five (5) 8x11 pages and shall:

1. Confirm interest in meeting purpose and objectives provided;
2. Provide examples of past and current performance information on:
 - a. Field and laboratory work related to wildlife disease outbreaks and pathogen emergence, demonstrating prior work in at least two of the three following countries Cambodia, Vietnam and Lao PDR;
 - b. Developing and conducting training to an audience of foreign government health personnel, demonstrating prior work in at least two of the three following countries Cambodia, Vietnam and Lao PDR;
 - c. Assistance in the development of national wildlife disease surveillance strategies, demonstrating prior work in at least two of the three following countries Cambodia, Vietnam and Lao PDR; and,
 - d. Prior establishment of field office(s) in at least one of the three countries mentioned above.
3. Demonstrate ability to meet all of the requirements and capabilities
4. Identify any aspects of the requirements and capabilities that cannot be met, any issues/concerns with the requirements as stated, and proposed solutions to address or remedy the issues/concerns identified

The submissions should provide administrative information to include the following:

1. Company Information:
 - Company name, CAGE Code, DUNS Number.
 - Name, mailing address, phone number, e-mail of designated point of contact.
2. Sources Sought Questionnaire:
 - Is your company currently providing similar services under any U.S. Government contracts?
 - If yes, for which agency(s)? What is/are the contract number(s)? What contract type? Who is/are the Contracting Officer(s) and Administrative Contracting Officer(s)? What are their pertinent phone numbers, e-mail addresses, etc.? What types of labor categories are you providing under these contracts?
 - How long has your company been providing these types of services? How long has your company provided this type of service to the Federal/DoD/State government?
 - Which NAICS codes do you perform this service under? Which code(s) do you feel best represent this requirement?

The responder should provide information to dtra.belvoir.J4-8C.mbx.fbo-notices@mail.mil with the subject COMPANY NAME_PACOM Wildlife by 25 October 2017 10:00 AM EST.

Disclaimer and Important Notes:

This is a Request for Information. There is no solicitation available at this time. Requests for Solicitation and inquiries related to same will not receive a response. THIS NOTICE IS PUBLISHED FOR MARKET RESEARCH PURPOSES ONLY, AND IN NO WAY OBLIGATES THE GOVERNMENT TO ISSUE A SOLICITATION OR OTHERWISE MAKE A CONTRACT AWARD. Any and all information submitted in response to this synopsis is strictly voluntary. The Government will not pay for any information submitted in response to this notice and shall become the property of DTRA. The Government reserves the right to use information provided by respondents for any purpose deemed necessary and legally appropriate. Any organization responding to this notice should ensure that its response is complete and sufficiently detailed to allow the Government to determine the organizations qualifications to perform the work. Respondents are advised that the Government is under no obligation to acknowledge receipt of the information received or provide feedback to respondents with respect to any information submitted. After a review of the responses received, DTRA CBEP may issue a pre-solicitation synopsis and an RFP. However, responses to this notice will not be considered adequate responses to a solicitation which may be published in the future.

Confidentiality:

No classified or confidential information should be included in your response. The Government reserves the right to use any non-proprietary technical information in any resultant solicitation(s). Any proprietary information should be clearly marked.

From: Cassandra Louis Duthil <clouisduthil@usaid.gov>
Sent: Fri, 1 Dec 2017 16:49:58 -0500
Subject: Re: Change to Pending ITAs - A. Laudisoit/W. Karesh to RoC cancelled
To: Andrew Clements <aclements@usaid.gov>
Cc: Katherine Leasure <kaleasure@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>, Jonna Mazet <Jkmazet@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>

Completed.

Best,

Cassandra Louis Duthil
Program Assistant
Emerging Threats Division
U.S. Agency for International Development (USAID)

Telephone: **REDACTED** clouisduthil@usaid.gov

On Fri, Dec 1, 2017 at 5:12 AM, Andrew Clements <aclements@usaid.gov> wrote:

Thanks.

Cassandra: please forward to the ROC and DRC missions.

On Fri, Dec 1, 2017 at 8:03 AM, Katherine Leasure <kaleasure@ucdavis.edu> wrote:

Hi Andrew. The pending ITAs for Anne Laudisoit and William Karesh's travel to RoC have been cancelled, to be rescheduled at a later date. EcoHealth Alliance will submit a new ITA request once new dates have been confirmed. William Karesh will still be traveling to Sweden and France as approved in his original ITA. I've included both ITAs below for reference. Please let me know if you have any questions. Thank you!

EcoHealth Alliance would like to request travel approval for **Anne Laudisoit** to travel from Brussels, Belgium to Brazzaville, Republic of Congo from December 14-20, 2017 to for Formal meeting with the PREDICT team in Republic of Congo.

Trip purpose: The meeting will provide a forum for partner discussions about staff and expected activities in the region; allow effective work to update the wildlife and human sampling authorizations, and protocols of PREDICT-2 RoC for year 4, and meet the inter-Ministerial group in charge of Emerging diseases monitoring. Anne Laudisoit will be joined by the vice-president of EcoHealth Alliance, Dr. Billy Karesh, to meet the consultants hired by EHA and performing ethnographic and behavioral studies. Previous work will be revised and EIDITH training planned with the team.

EcoHealth Alliance would like to request travel approval for **Dr. William Karesh** to travel from New York, New York, USA to Stockholm, Sweden from December 9-11, 2017 to speaking at the ECDC Expert Consultation on One Health Preparedness in Europe. From Stockholm, Sweden, he will travel to Paris, France from December 11-16, 2017 to speaking at the World Organisation for Animal Health's (OIE) Working Group on Wildlife Meeting. From Paris, France he will travel to Brazzaville, Republic of Congo from December 16-20, 2017 to meet with PREDICT Republic of Congo project collaborators.

Trip purpose: Sweden – Dr. Karesh is to participate in the ECDC Expert Consultation on One Health Preparedness in Europe. Dr. Karesh will present in the first plenary session titled “Towards One Health preparedness for emerging infectious diseases: Insights from the PREDICT project.” As EPT Liaison, it is important for Dr. Karesh to continue to promote and optimize collaborations of the PREDICT-2 objectives. France – Following that meeting, Dr. Karesh will participate in the World Organisation for Animal Health's (OIE) Working Group on Wildlife Meeting, for which he serves as Chairman. The OIE Working Group on Wildlife advises the OIE on all health problems relating to wild animals, including emerging disease events and reporting guidelines. Dr. Karesh will have the opportunity to meet with OIE staff to discuss these and other priority topics. * *As an invited speaker at both events, the ECDC and OIE will provide funds for Dr. Karesh's economy fare and per diem expenses for these meetings.* RoC – Dr. Karesh will be attending meetings to discuss PREDICT work in Republic of Congo with collaborators and check in on the program. [\$12,500 total airfare *business class required due to medical need/\$376 (Stockholm), \$608 (Paris), \$324 (Brazzaville) max daily per diems]

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Katherine Leasure
HR/Payroll/Financial Assistant
One Health Institute
[530-752-7526](tel:530-752-7526)

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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

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

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To post to this group, send email to predictmgt@usaid.gov.
To view this discussion on the web visit
https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAJT_2LHASEAYnd9So0TYScbwxjbg%3D6DXX2CexF5dqbQxPeV9OQ%40mail.gmail.com.

Sent: Wed, 23 May 2018 13:33:33 -0700
Subject: Fwd: FW: Updated supply request from MOH for Ebola Outbreak
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: "AOTR/Grant Manager Andrew Clements" <AClements@usaid.gov>, Alisa Pereira <apereira@usaid.gov>
Cc: PREDICT-outbreak <predict-outbreak@ucdavis.edu>
[Prevision mensuel Budget MVE-PMD 18Mai2018.xlsx](#)

Dear Andrew,

We received the request for approximately \$150K plus indirects for supplies and equipment for the DRC response today. We believe that this list is going out broadly to donors. Much of it is out of the scope of Predict's involvement and may not even be consistent with what would be our technical guidance regarding testing, etc. for this outbreak. I am forwarding to you for awareness and guidance, as I do understand that USAID may want to support the country and government beyond what is absolutely needed for this outbreak.

That said, we have swayed out of scope in DRC for outbreak response before, in the end, at great sacrifice to our program because of inability to reimburse funds in a way that would allow us to complete our 5-year workplan. In speaking with Richard, I understand that Predict may not be governed by country caps, but that USAID still is and that our use of funds allocated for other countries or estimated but not yet obligated to Predict from Ebola funds may not be forthcoming. Therefore, there is a project completion risk in moving forward with outbreak assistance, Richard said that he is working on that and understands that I would want some assurances in writing that we would be afforded the opportunity to fulfill our cooperative agreement obligations in addition to outbreak assistance. I'm not sure if progress has been made on that front since I saw him last in Guinea. Of course, we want to help out as much as possible to the extent that we can support the assistance that USAID wants to provide.

Please advise,
Jonna

From: Beth Edison <bedison@metabiota.com>
Date: Tuesday, May 22, 2018 at 10:24 AM
To: "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, PREDICT-outbreak <predict-outbreak@ucdavis.edu>, Brian Bird <bhbird@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Karen Saylor <ksaylors@metabiota.com>, matthew lebreton <mlebreton@mosaic.cm>
Subject: Updated supply request from MOH for Ebola Outbreak

Hi Jonna,

We've received an updated list of requested supplies from the MOH in DRC (Attached: yellow items are available locally, red items will be provided by other partners). The local mission is working on expediting customs clearance but we don't have an update on that yet.

MOH has asked PREDICT to advise them which items on this list we can provide.

The approximate total cost for all remaining supplies will be 150k (not including IDC) and it will take 2-3 weeks to get them there once we receive notice of customs clearance.

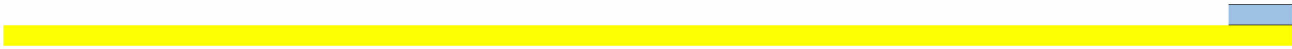
We will need to advise MOH if we have the budget to provide everything on the list. Do you have any guidance on that?

Also, there is the option of requesting special permission from USAID to pay customs and duty fees. This would increase the cost but could potentially get the items there faster. We're looking into how much that would add to the total and whether that would actually speed things up.

Thank you,

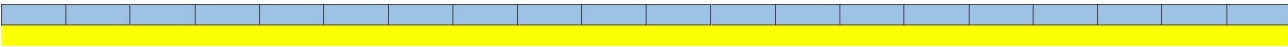
Beth

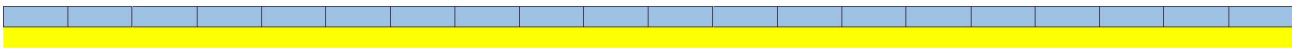
UCDUSR0010119

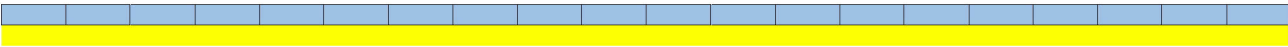


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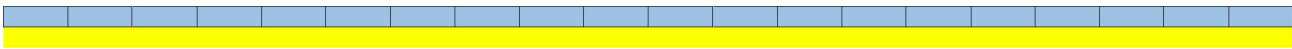


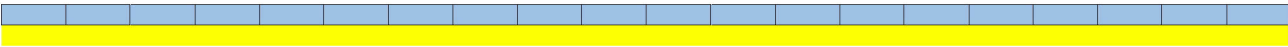


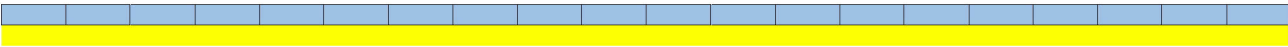




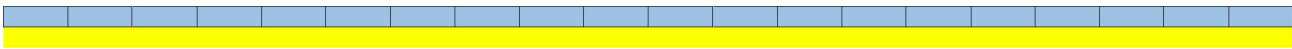














From: Andrew Clements <aclements@usaid.gov>
Sent: Thu, 24 May 2018 22:38:14 +0200
Subject: Re: FW: Updated supply request from MOH for Ebola Outbreak
To: Jonna Mazet <jkmazet@ucdavis.edu>
Cc: Alisa Pereira <apereira@usaid.gov>, PREDICT-outbreak <predict-outbreak@ucdavis.edu>

Hi Jonna,

USAID has provided funding to WHO for the Ebola outbreak which includes lab support. As such, it is not a priority for Predict to provide funding for lab supplies that are outside the scope of the Predict project.

Andrew

On Wed, May 23, 2018 at 10:33 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

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Thank you,

Beth

--

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

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

Sent: Thu, 24 May 2018 14:42:19 -0700
Subject: Re: FW: Updated supply request from MOH for Ebola Outbreak
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
Cc: Alisa Pereira <apereira@usaid.gov>, PREDICT-outbreak <predict-outbreak@ucdavis.edu>

Thanks,
Jonna

On Thu, May 24, 2018 at 1:38 PM, Andrew Clements <aclements@usaid.gov> wrote:

Hi Jonna,

USAID has provided funding to WHO for the Ebola outbreak which includes lab support. As such, it is not a priority for Predict to provide funding for lab supplies that are outside the scope of the Predict project.

Andrew

On Wed, May 23, 2018 at 10:33 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Dear Andrew,

We received the request for approximately \$150K plus indirects for supplies and equipment for the DRC response today. We believe that this list is going out broadly to donors. Much of it is out of the scope of Predict's involvement and may not even be consistent with what would be our technical guidance regarding testing, etc. for this outbreak. I am forwarding to you for awareness and guidance, as I do understand that USAID may want to support the country and government beyond what is absolutely needed for this outbreak.

That said, we have swayed out of scope in DRC for outbreak response before, in the end, at great sacrifice to our program because of inability to reimburse funds in a way that would allow us to complete our 5-year workplan. In speaking with Richard, I understand that Predict may not be governed by country caps, but that USAID still is and that our use of funds allocated for other countries or estimated but not yet obligated to Predict from Ebola funds may not be forthcoming. Therefore, there is a project completion risk in moving forward with outbreak assistance, Richard said that he is working on that and understands that I would want some assurances in writing that we would be afforded the opportunity to fulfill our cooperative agreement obligations in addition to outbreak assistance. I'm not sure if progress has been made on that front since I saw him last in Guinea. Of course, we want to help out as much as possible to the extent that we can support the assistance that USAID wants to provide.

Please advise,
Jonna

From: Beth Edison <bedison@metabiota.com>
Date: Tuesday, May 22, 2018 at 10:24 AM
To: "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, PREDICT-outbreak <predict-outbreak@ucdavis.edu>, Brian Bird <bhbird@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Karen Saylors <ksaylors@metabiota.com>, matthew lebreton <mlebreton@mosaic.cm>
Subject: Updated supply request from MOH for Ebola Outbreak

Hi Jonna,

We've received an updated list of requested supplies from the MOH in DRC (Attached: yellow items are available locally, red items will be provided by other partners). The local mission is working on expediting customs clearance but we don't have an update on that yet.

MOH has asked PREDICT to advise them which items on this list we can provide.

The approximate total cost for all remaining supplies will be 150k (not including IDC) and it will take 2-3 weeks to get them there once we receive notice of customs clearance.

We will need to advise MOH if we have the budget to provide everything on the list. Do you have any guidance on that?

Also, there is the option of requesting special permission from USAID to pay customs and duty fees. This would increase the cost but could potentially get the items there faster. We're looking into how much that would add to the total and whether that would actually speed things up.

Thank you,

Beth

--

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

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

Sent: Thu, 24 May 2018 17:39:00 -0700
Subject: Fwd: EHP in the face of DRC Ebola outbreak
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Karen Saylor <ksaylor@metabiota.com>, Brian Bird <bhbird@ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Billy Karesh <karesh@ecohealthalliance.org>, Tracey Goldstein <tgoldstein@ucdavis.edu>, **REDACTED** **REDACTED** Brooke Genovese <bgenovese@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Megan M Doyle <mmdoyle@ucdavis.edu>
[PREDICT EHP in DRC-5.24.18.pdf](#)

FYI & huge thanks for all of the effort today,
Jonna

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

From: **Jonna Mazet** <jkmazet@ucdavis.edu>
Date: Thu, May 24, 2018 at 5:37 PM
Subject: EHP in the face of DRC Ebola outbreak
To: Andrew Clements <aclements@usaid.gov>

Hi Andrew,
Our crack team pulled together a justification document and rough budget, as requested.
Please find it attached. We do think the work would be incredibly valuable and consistent with the EPT philosophy.

A couple of issues that we would like to note:

- NIH and others also have projects in the region, so we would want to select sites that do not overlap with their efforts
- Our plan would include sampling bats in and around households, as well as cane rats & duiker, as human serology has shown increased exposure in individuals with past exposure to these species
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- The proposed timeline includes a delay to fall, as we have seen a seasonal pattern in DRC & would want to capture that window -- also allows for outbreak chaos to calm down

There are a few other nuances. I will call you to discuss in my morning,
Jonna



Expansion of PREDICT's Ebola Host Project to the epicenter of Ebola virus spillover in the Democratic Republic of Congo

Ebola is again causing deaths in the Democratic Republic of Congo (DRC), this time in Equateur province where total cases now exceed 50 across four health zones. Since 1976, the virus has caused 24 known outbreaks with nine of these occurring in DRC alone. Each outbreak presumably begins after a single or limited spillover event from an as yet unknown wildlife reservoir to people. This infected individual then initiates a chain of human-to-human transmission that reveals without remorse the collective vulnerabilities of public health infrastructure and preparedness to contain this highly infectious health foe.

Since 2016, PREDICT has been working extensively in Sierra Leone, Guinea, and Liberia in the largest and most comprehensive investigation into the origins of Ebola and other related filoviruses ever attempted. This effort, collectively referred to as the “Ebola Host Project” (EHP) seeks to improve our understanding of the wildlife reservoir, spillover hosts, and animal origins of Ebola virus; gain a greater understanding of high-risk human behavioral activities associated with spillover and transmission; and improve disease surveillance and laboratory capacities through workforce development in line with Global Health Security Agenda (GHS) priorities.

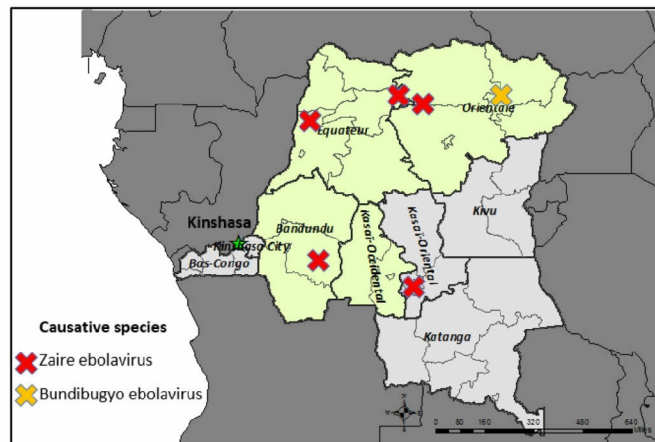


Figure. Map of historic Ebola outbreak sites in DRC 1976-2018

In less than two years, EHP teams in Guinea, Liberia, and Sierra Leone have safely sampled over 12,000 animals (mainly bats and rodents, along with goats, sheep, pigs, and non-human primates), and collected over 66,000 specimens for laboratory analysis to detect Ebola and other related viruses. The EHP approach relies on large scale animal sampling, targeting key animal taxa (bats, rodents) thought to be important in the Ebola virus transmission cycle, and broad-based laboratory detection platforms to detect a wide range of known and other as yet undiscovered ebolaviruses. Recent virus discoveries across the PREDICT project exemplify the power of the our approach to improve One Health disease surveillance.

Although EHP has been successful in West Africa, the epicenter of Ebola virus spillover and emergence has historically been in the Democratic Republic of the Congo. Since the first known Ebola outbreak in Yambuku in 1976, a total of six outbreaks has occurred along a band stretching across the northern portion of the country. This region is the classic “hot-zone” of Ebola virus emergence and likely provides the best target-rich environment to identify the animal reservoir(s) and key spillover hosts of this global health security threat.

We propose to leverage the key lessons and strategies refined and proven in West Africa by the EHP team to conduct a similar extensive investigation of Ebola virus wildlife reservoirs in DRC. We will initiate robust animal sampling at two independent sites in the north-central/east region of the country where multiple previous outbreaks and spillover events into humans have been detected. While the exact animal reservoir(s) remains unknown, it is clear that the majority of outbreaks occur in a roughly seasonal pattern that is likely linked to increased virus shedding from the likely hosts (bats, rodents, and duiker antelope). Our strategy will focus sampling efforts during this time period (roughly October to March), with extensive sample collection targeting a total of 6,000 animals across the two sites (2,500 bats, 400 rodents, and 100 duiker antelope at each site). This sample size while large, is scientifically justified, and is practically attainable given the success and lessons learned in West Africa by the EHP team. From these animals oral, rectal, fecal, and blood/serum specimens will be collected and stored securely and safely for subsequent laboratory testing by multiple molecular approaches including PREDICT's consensus filovirus PCR protocol, serology (especially targeting duiker antelope), and other specific Ebola virus detection assays as warranted.

Identification of the animal source of the virus is a key step in the design and implementation of effective risk-mitigation and prevention strategies to reduce virus transmission from animals to people. Without this effort, intervention programs will continue to lack critical evidence about Ebola's ecology and transmissibility resulting in lessened impact, and one of the global health communities' biggest mysteries may remain unsolved as future spillover of ebolaviruses from animals into humans occurs.

Budget

Global Personnel & Fringe	\$64,500
Global Personnel to DRC for training & logistics	\$47,100
DRC travel to field sites for sampling	\$354,820
Sample Testing	\$1,336,077
Subagreements	
Field & lab staff, training & logistics	\$1,977,906
INRB staff, lab capacity & tech transfer	\$1,280,141
TOTAL	\$5,060,544

From: Andrew Clements <aclements@usaid.gov>
To: Jonna Mazet <jkmazet@ucdavis.edu>
Sent: 5/25/2018 12:59:58 AM
Subject: Re: EHP in the face of DRC Ebola outbreak

Outstanding! 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*

On May 25, 2018, at 2:37 AM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Hi Andrew,
Our crack team pulled together a justification document and rough budget, as requested.
Please find it attached. We do think the work would be incredibly valuable and consistent with the EPT philosophy.

A couple of issues that we would like to note:

- NIH and others also have projects in the region, so we would want to select sites that do not overlap with their efforts
- Our plan would include sampling bats in and around households, as well as cane rats & duiker, as human serology has shown increased exposure in individuals with past exposure to these species
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- The proposed timeline includes a delay to fall, as we have seen a seasonal pattern in DRC & would want to capture that window -- also allows for outbreak chaos to calm down

There are a few other nuances. I will call you to discuss in my morning,
Jonna

From: Peter Daszak <daszak@ecohealthalliance.org>
To: [REDACTED], "Valitutto, Marc" <ValituttoM@si.edu>, David John Wolking <djwolking@ucdavis.edu>, Amanda Fine <afine@wcs.org>, Brian H Bird <bhbird@gmx.ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>, "Churchill, Carolina" <[REDACTED]>, "Corina Grigorescu Monagin" <cgmonagin@UCDAVIS.EDU>, Dawn Zimmerman <Zimmermand@si.edu>, Eddy Rubin <erubin@metabiota.com>, Evelyn Luciano <luciano@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, Karen Saylor <ksaylors@metabiota.com>, Leilani Francisco <francisco@ecohealthalliance.org>, "Murray, Suzan" <MurrayS@si.edu>, "Jonna Mazet" <jkmazet@ucdavis.edu>, Woutrina A Smith <wasmith@ucdavis.edu>, "Sarah Olson" [REDACTED] Simon Anthony <sja2127@columbia.edu>, "Tammie O'Rourke" <torourke@metabiota.com>, Tracey Goldstein <tgoldstein@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, "William B. Karesh" <karesh@ecohealthalliance.org>, Elizabeth Leasure <ealeasure@UCDAVIS.EDU>, Kevin Olival <olival@ecohealthalliance.org>
Cc: Alison Andre <andre@ecohealthalliance.org>, Amanda Andre <amanda.andre@ecohealthalliance.org>, Megan M Doyle <mmdoyle@UCDAVIS.EDU>, Ava Sullivan <sullivan@ecohealthalliance.org>, Molly Turner <turner@ecohealthalliance.org>, Emma Lane <lane@ecohealthalliance.org>, Brooke Genovese <bgenovese@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>
Subject: Agenda item for EB
Sent: Tue, 29 May 2018 15:50:04 +0000

It would be great to have Anne Laudisoit give an update on the work they're doing right now in Cote d'Ivoire. If you can put this on the agenda for EB, I'll talk to her re. calling in...

Cheers,

Peter

Peter Daszak

President

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

Tel. +1 212-380-4474
www.ecohealthalliance.org
[@PeterDaszak](https://twitter.com/PeterDaszak)
[@EcoHealthNYC](https://twitter.com/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: [REDACTED]
Sent: Friday, May 25, 2018 6:32 PM
To: Eri Togami; Valitutto, Marc; David John Wolking; Amanda Fine; Brian H Bird; Christine Kreuder Johnson; Churchill, Carolina; Corina Grigorescu Monagin; Dawn Zimmerman; Eddy Rubin; Evelyn Luciano; Jon Epstein; Karen Saylor; Leilani Francisco; Murray, Suzan; Peter Daszak; Jonna Mazet; Woutrina A Smith; Sarah Olson; Simon Anthony; Tammie O'Rourke; Tracey Goldstein; David John Wolking; William B. Karesh; Elizabeth Leasure; Kevin Olival
Cc: Alison Andre; Amanda Andre; Megan M Doyle; Ava Sullivan; Molly Turner; Emma Lane; Brooke Genovese; predict@ucdavis.edu
Subject: RE: Reminder - EB call May 30

<<CORRECTION>> My apologies for the incorrect date in the previous email. EB will be on **Wednesday May 30**.

Hi PREDICT EB team,

This is a friendly reminder that the next EB call will be on **Wednesday May 30**, 10 am PST/1pm EST.
Please let me know if there are any agenda items that you would like to discuss.

Have a wonderful weekend,

REDACTED

REDACTED

From: predict-request@ucdavis.edu [<mailto:predict-request@ucdavis.edu>] **On Behalf Of** REDACTED

Sent: Friday, May 25, 2018 2:52 PM

To: Valitutto, Marc <ValituttoM@si.edu>; David John Wolking <djwolking@ucdavis.edu>; Amanda Fine <REDACTED> Brian H Bird <bhbird@gmx.ucdavis.edu>; Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>; Churchill, Carolina

REDACTED; Corina Grigorescu Monagin <cgmonagin@UCDAVIS.EDU>; Dawn Zimmerman <Zimmermand@si.edu>; Eddy Rubin <erubin@metabiota.com>; Evelyn Luciano <luciano@ecohealthalliance.org>; Jon Epstein <epstein@ecohealthalliance.org>; Karen Saylors <ksaylors@metabiota.com>; Leilani Franciso <francisco@ecohealthalliance.org>; Murray, Suzan <MurrayS@si.edu>; Peter Daszak <daszak@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>; Woutrina A Smith <wasmith@ucdavis.edu>; Sarah Olson <solson@wcs.org>; Simon Anthony <sja2127@columbia.edu>; Tammie O'Rourke <torourke@metabiota.com>; Tracey Goldstein <tgoldstein@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>; William Karesh <karesh@ecohealthalliance.org>; Elizabeth Leasure <ealeasure@UCDAVIS.EDU>; Kevin Olival <olival@ecohealthalliance.org>

Cc: Alison Andre <andre@ecohealthalliance.org>; Amanda Andre <amanda.andre@ecohealthalliance.org>; Megan M Doyle <mmdoyle@UCDAVIS.EDU>; Ava Sullivan <sullivan@ecohealthalliance.org>; Molly Turner <turner@ecohealthalliance.org>; Emma Lane <lane@ecohealthalliance.org>; Brooke Genovese <bgenovese@ucdavis.edu>; predict@ucdavis.edu

Subject: [predict] Reminder - EB call May 30

Hi PREDICT EB team,

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Have a wonderful weekend,

Eri

Eri Togami DVM MPH

Fellow

One Health Institute

School of Veterinary Medicine

University of California, Davis

Sent: Tue, 29 May 2018 15:16:04 -0700
Subject: Re: FW: EHP in the face of DRC Ebola outbreak
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Peter Daszak <daszak@ecohealthalliance.org>

Yes, that was in my plan, too, and Billy & I discussed that briefly.
Thanks,
J

On Tue, May 29, 2018 at 9:14 AM, Peter Daszak <daszak@ecohealthalliance.org> wrote:

Billy shared the Ebola DRC proposal – looks great. If this pans out, I'd really like to have Anne Laudisoit heavily involved - she's spent years working in DRC, including in the remote regions of the North and has an incredible network there, including INRB, the ministries of relevance, and local communities.

Let me know what happens and I'll keep my fingers crossed that this goes through...

Cheers,

Peter

Peter Daszak

President

EcoHealth Alliance

460 West 34th Street – 17th Floor

New York, NY 10001

Tel. +1 212-380-4474

www.ecohealthalliance.org

[@PeterDaszak](https://twitter.com/PeterDaszak)

[@EcoHealthNYC](https://twitter.com/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: William B. Karesh
Sent: Tuesday, May 29, 2018 9:44 AM
To: Anne Laudisoit; Peter Daszak
Subject: Fwd: EHP in the face of DRC Ebola outbreak

proposal to USAID for Ebola work in DRC.

Begin forwarded message:

From: Jonna Mazet <jkmazet@ucdavis.edu>
Subject: Fwd: EHP in the face of DRC Ebola outbreak
Date: May 24, 2018 at 8:39:00 PM EDT

To: Karen Saylor <ksaylor@metabiota.com>, Brian Bird <bhbird@ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Billy Karesh <karesh@ecohealthalliance.org>, Tracey Goldstein <tgoldstein@ucdavis.edu>, Eri Togami <etogami@ucdavis.edu>, Brooke Genovese <bgenovese@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Megan M Doyle <mmdoyle@ucdavis.edu>

FYI & huge thanks for all of the effort today,

Jonna

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From: Jonna Mazet <jkmazet@ucdavis.edu>
Date: Thu, May 24, 2018 at 5:37 PM
Subject: EHP in the face of DRC Ebola outbreak
To: Andrew Clements <aclements@usaid.gov>

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There are a few other nuances. I will call you to discuss in my morning,

Jonna

From: Andrew Clements <aclements@usaid.gov>
To: <undisclosed-recipients:>
BCC: jkmazet@ucdavis.edu
Sent: 5/30/2018 8:20:26 AM
Subject: May 29, 2018: Emerging Pandemic Threats update

Summary: 18 poultry outbreaks, 35 wild bird outbreaks, and 86 human infections with 10 pathogens (various avian influenza viruses, Ebola, Lassa, MERS-CoV, monkeypox, and Nipah) were reported by 14 countries between April 30 and May 28, 2018. These outbreaks/infections occurred between February 2018 and May 2018.

Specific pathogens and countries affected:

H5N1/Asia Highly-Pathogenic Avian Influenza (HPAI) – 2 new poultry outbreaks (Nepal)

A total of 23,671 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 – 6 new poultry outbreaks (China)

A total of 846 bird outbreaks (6.7 million birds affected) have been reported by 1 country since virus first detected in 2012; no human infections reported to date.

H5N6/Europe (variant) HPAI – 25 new wild bird outbreaks (Denmark, Finland, Germany, Sweden)

A total of 79 bird outbreaks (83 thousand birds affected) have been reported by 9 countries since virus first detected in 2017; no human infections reported to date.

H5N8/Asia (variant) HPAI – 9 new poultry outbreaks and 10 new wild bird outbreaks (Saudi Arabia, South Africa)

A total of 2,707 bird outbreaks (more than 30.2 million birds affected) have been reported by 52 countries since virus first detected in 2016; no human infections reported to date.

H7N9/Asia HPAI and LPAI – 1 new poultry outbreak (China)

A total of 27 bird outbreaks (1.1 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.

Ebola – 35 new confirmed human cases (DR Congo)

At least 31,145[^] human infections (42% average case fatality rate) have been reported by 17 countries between 1976 and 2018. [^] Total includes confirmed, probable, and suspected cases.

Lassa – 15 new confirmed human cases (Nigeria)

At least 2,947[^] human infections (20% average case fatality rate) have been reported by 13 countries between 2000 and 2018. [^] Total includes confirmed, probable, and suspected cases.

MERS-CoV – 4 new confirmed human cases (Saudi Arabia, UAE)

A total of 26 camel outbreaks and at least 2,207 confirmed human infections (36% average case fatality rate) have been reported by 27 countries since virus first detected in 2012. [Note: country and global reporting has become erratic in past few months]

Monkeypox – 16 new confirmed human cases (Cameroon, Central African Republic, Nigeria)

At least 2,330[^] human infections (3% average case fatality rate) have been reported by 12 countries between 1970 and 2018. [^] Total includes confirmed, probable, and suspected cases.

Nipah – 16 new confirmed human cases (India)

At least 632[^] human infections (59% average case fatality rate) have been reported by 4 countries between 1998 and 2018. [^] Total includes confirmed, probable, and suspected cases.

Examples of reporting during the past month:

Country	Pathogen detected	Number of events	Median days from event start to lab testing	Median days from event start to OIE report
Germany	H5N6/Europe variant HPAI	2	0	2
China	H5N2/Asia HPAI, H7N9/Asia HPAI	7	3	14
Finland	H5N6/Europe variant HPAI	1	7	12
Nepal	H5N1/Asia HPAI	2	7	12
Sweden	H5N6/Europe variant HPAI, H5 LPAI	4	8	16
UAE	MERS-CoV	1	10	24
Denmark	H5N6/Europe variant HPAI, H5 LPAI	20	[not reported]	44
South Africa	H5N8/Asia variant HPAI	12	[not reported]	50
Saudi Arabia	H5N8/Asia variant HPAI	7	43	65

à Next update on/about June 25, 2018

Data sources:

<http://www.who.int/csr/don/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://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>
http://dhs.kerala.gov.in/docs/transfer/addlph/adph_29052018.pdf

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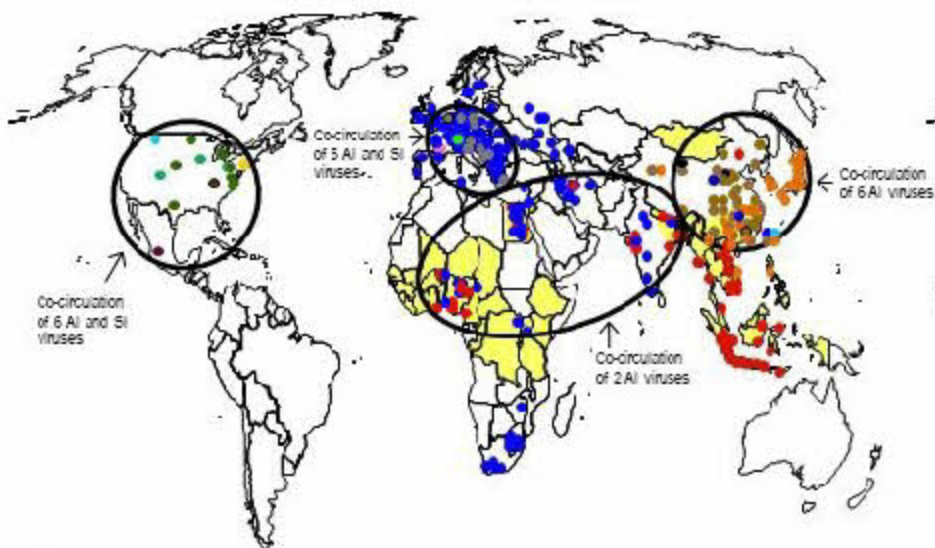
Andrew Clements, Ph.D.
 Senior Scientific Advisor
 Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health
 U.S. Agency for International Development
 Mobile phone: 1-571-345-4253
 E-mail: aclements@usaid.gov

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

Recent Detection of Avian and Swine Influenza Viruses in Animals and Humans[^]

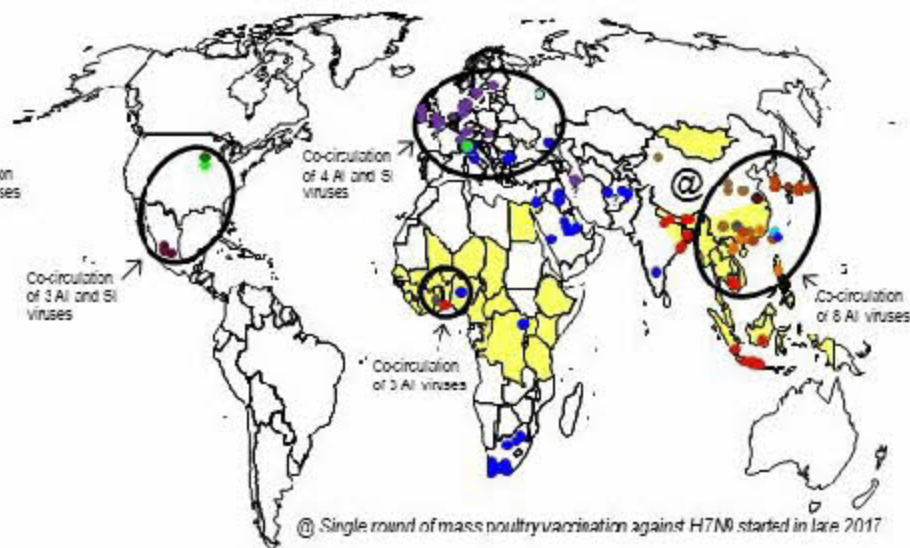
Nov 2016-Oct 2017

→ 3,740 bird outbreaks and 786 human infections with 15 AI/SI sub-types/variants (9 of which are zoonotic)



Nov 2017-Oct 2018

→ 424 bird outbreaks and 13 human infections with 13 AI/SI sub-types/variants (8 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 LPAI (P, H)
- = H1N1v SI (H)
- = H1N2v SI (H)
- = H3N2v SI (I I)
- = first-ever detection of new virus

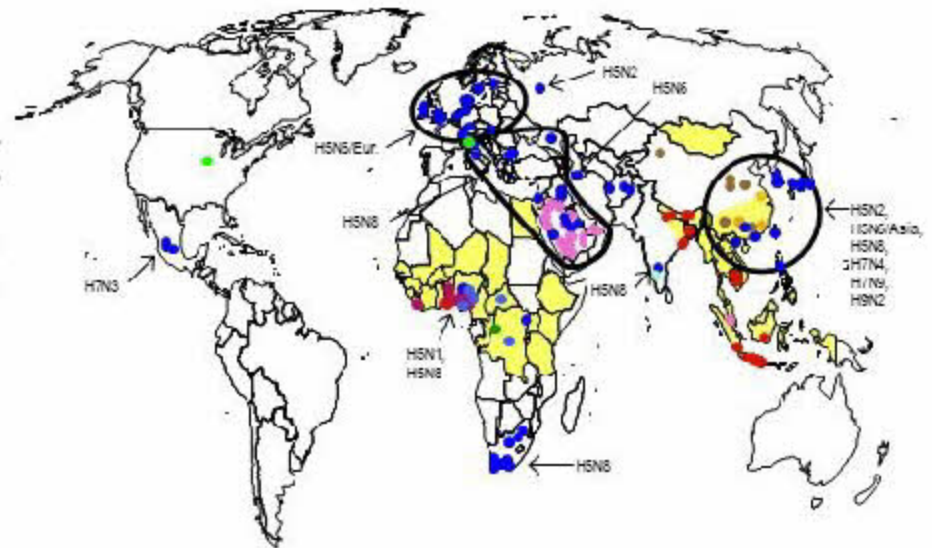
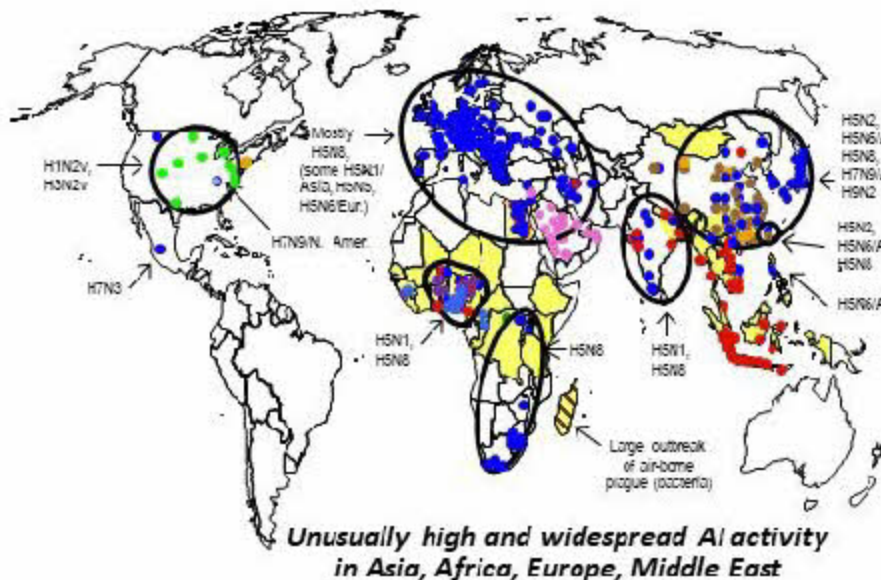
Sources = OIE, WHO, CDC, and Ministry of Agriculture/FAO (Egypt, Indonesia) reports between 11/1/16 and 5/20/18. [^] While these reports reflect known infections with animal influenza viruses, there may be additional viral circulation in these and other countries that is not detected due to limitations 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.



Detection of Specific Viruses with Potential to Infect and Directly Spread among Humans[^]

Nov 2016-Oct 2017

Nov 2017-Oct 2018



- = H5N1/Asian lineage HPAI^{##} (poultry, wild birds, humans)
- = H7N9 LPAI/Asia^{###} (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 5/28/18. [^] 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. ^{##} Highly-pathogenic avian influenza. ^{###} 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.

From: William B. Karesh <karesh@ecohealthalliance.org>
To: Brian Bird <bhbird@ucdavis.edu>; Jonna Mazet <jkmazet@ucdavis.edu>; Corina Grigorescu Monagin <cgmonagin@ucdavis.edu>; Chris Johnson <ckjohnson@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Simon Anthony <anthony@ecohealthalliance.org>; Karen Saylor <ksaylor@metabiota.com>; Jon Epstein <epstein@ecohealthalliance.org>; Anne Laudisoit <laudisoit@ecohealthalliance.org>
CC: Predict inbox <predict@ucdavis.edu>
Sent: 6/4/2018 9:26:53 AM
Subject: EBO-SURSY overview

Hi Everyone,

Attached is a powerpoint presentation that reviews the EU funding Ebolavirus project for west and central africa. It was presented in June at the meeting Karen attended and gives an overview of project goals, countries and partners.

BK



Réunion du Comité Conseil du projet
EBO-SURSY : Renforcement des
capacités et de la surveillance pour la
maladie à Virus Ebola

Vendredi 18 mai 2018
Siège de l'OIE, Paris

Sophie Muset

Coordonnatrice Principale de programme et Coordonnatrice
technique du Projet EBO-SURSY



ORGANISATION MONDIALE DE LA SANTÉ ANIMALE *Protéger les animaux, préserver notre avenir*

Projet EBO-SURSY en bref



- **Objectif** : Renforcement des capacités et de la surveillance pour la maladie à Virus Ebola
- **Bailleur** : Commission Européenne – DEVCO
- **Budget** : 8 000 000 euros
- **Durée** : 5 ans (2017-2022)
- **Mise en œuvre** : OIE, CIRAD, IRD, Institut Pasteur
- **Géographie** : Afrique centrale et de l'ouest, dont 10 pays cibles

Objectifs



Améliorer les capacités nationales et régionales des systèmes de détection précoce dans la faune sauvage en Afrique de l'Ouest et Centrale en utilisant une approche « une seule santé » pour mieux anticiper, différencier et prévenir l'apparition de nouveaux épisodes de maladie à Virus Ebola ou de toutes autres zoonoses émergentes



1. Renforcer les capacités institutionnelles et « une seule santé » à travers l'enseignement et la formation

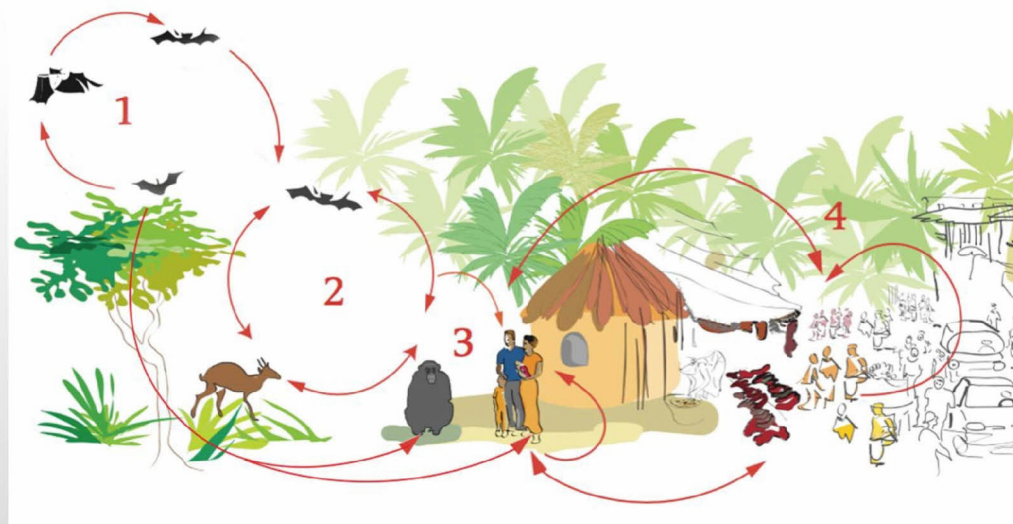


2. Contribuer à la sensibilisation des communautés sur les zoonoses



3. Renforcer les protocoles de surveillance des zoonoses dans 10 pays cibles

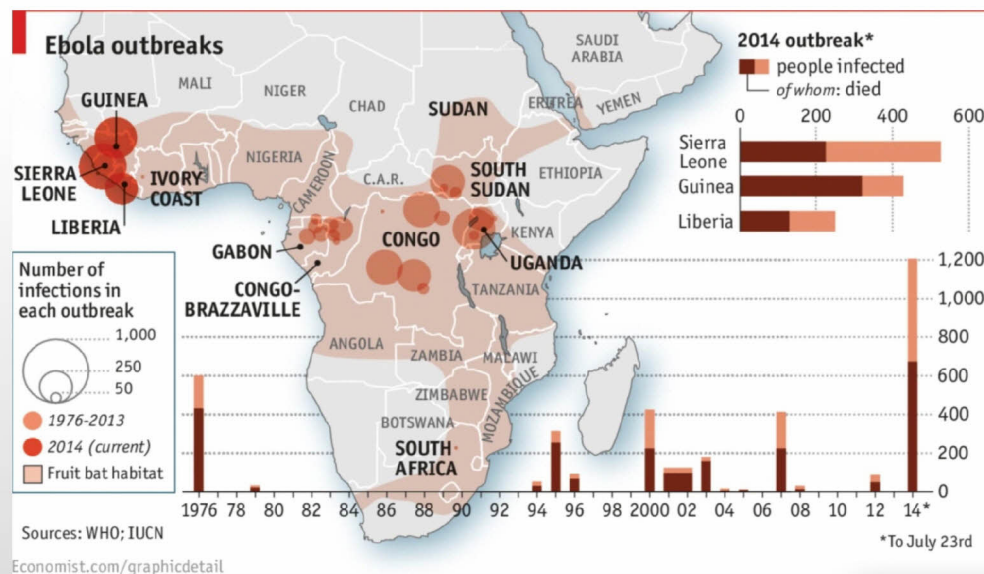
Epidémiologie du virus Ebola



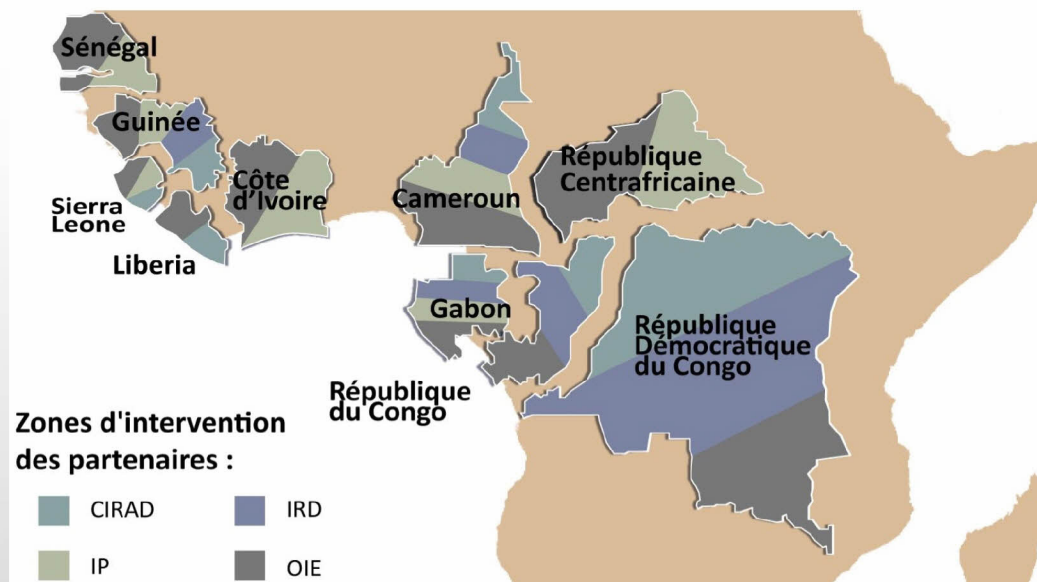
Virus prioritaires

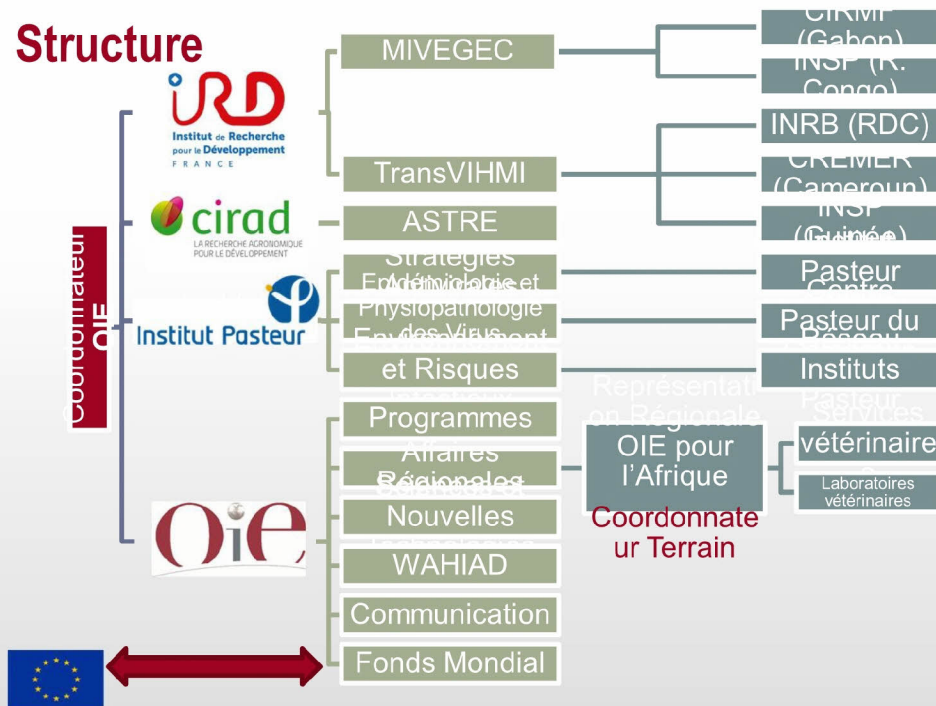
- Virus Ebola Zaïre, Reston, Forêt de Taï, Soudan, Bundibugyo
- Virus Ebola Marburg
- Virus de la Fièvre de Lassa
- Virus de la Fièvre de la vallée du Rift
- Virus de la Fièvre Hémorragique de Crimée-Congo

Habitat des espèces de chauve-souris susceptibles d'héberger le virus Ebola



Zones d'intervention des partenaires

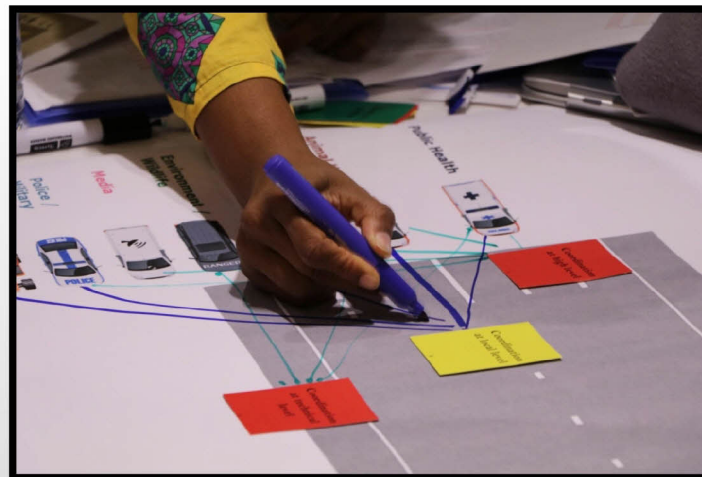




Gouvernance



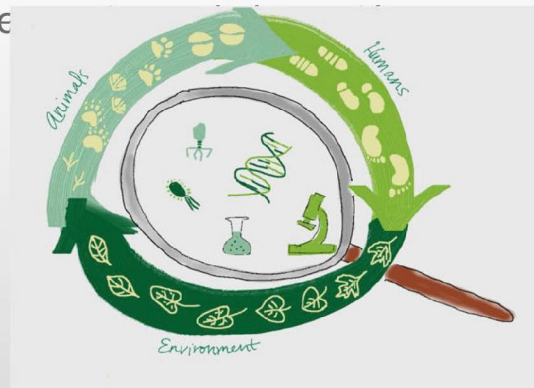
- 1. Renforcer les capacités



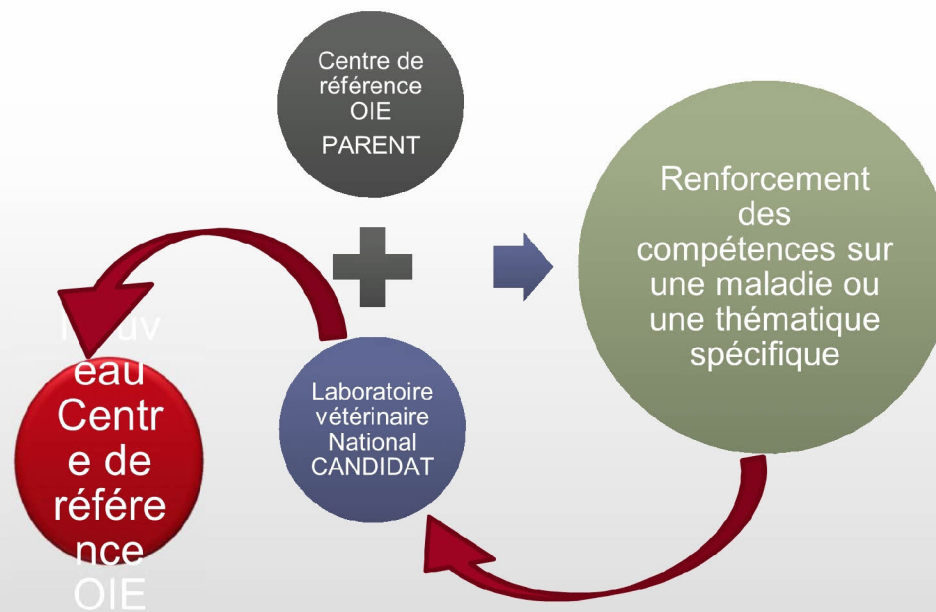
Formations continues et académiques



- Audience ciblée
 - Points focaux OIE
 - Etudiants Masters, Doctorants et Post Doc
 - Professionnels de
- Thématiques
 - Une seule santé
 - Faune sauvage
 - Laboratoire
 - Communication



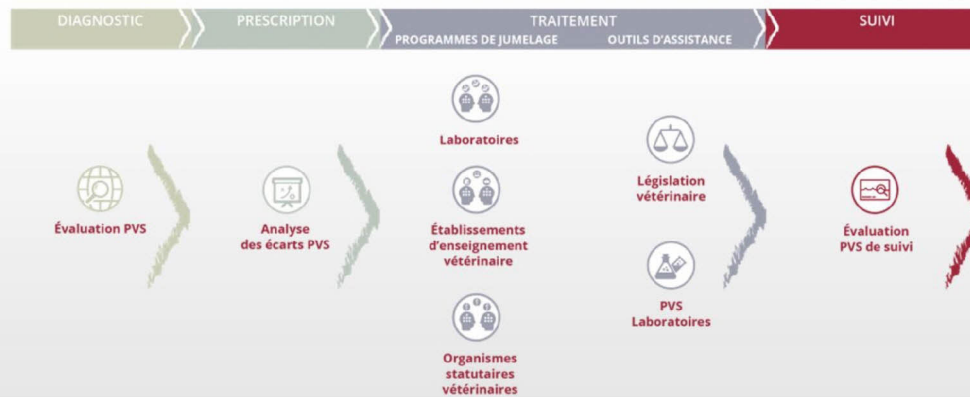
Jumelages entre laboratoires



Processus PVS de l'OIE



Consolidation durable des systèmes nationaux
de santé animale



L'OIE collabore avec des gouvernements, des bailleurs de fonds et d'autres partenaires

Ateliers Nationaux RSI-PVS

Santé animale



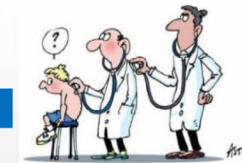
Processus PVS

Une seule Santé

Améliorer le dialogue, la coordination et la collaboration

Planifier stratégiquement des actions conjointes et des approches synergiques entre les secteurs de la santé animale et humaine

Santé humaine



Règlement Sanitaire international (RSI)

- Améliorer les forces et faiblesses
- Renforcer la collaboration intersectorielle
- Solidifier la préparation pour le contrôle de la propagation des maladies zoonotiques

Plan de mis en œuvre en 2018



- Lancement de 3 projets de jumelage laboratoire
 - Sénégal/France
 - Cameroun/Allemagne
 - Côte d'Ivoire/France ou Allemagne



- 4 ateliers nationaux RSI-PVS
 - Libéria, Sierra Leone, Guinée et Côte d'Ivoire



- 3 missions PVS
 - Sénégal, République du Congo, Gabon
 - Guinée (2019)

Plan de mis en œuvre en 2018



- 4 formations Points focaux OIE



- 10 étudiants intégrés au sein des équipes scientifiques



- 3 formations niveau Masters soutenus par le projet



- 4 formations laboratoires en Guinée



- Formations continues sur le terrain

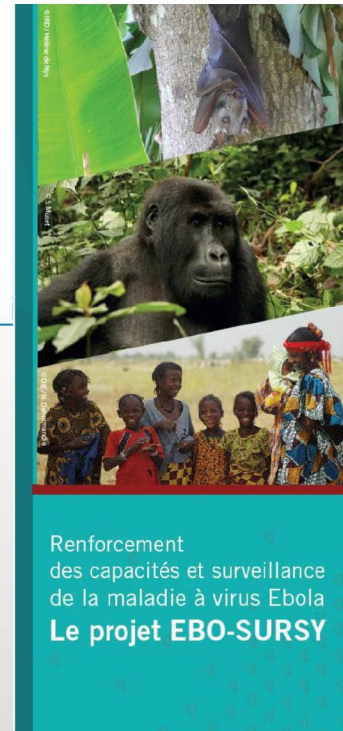


▪ 2. Sensibiliser et communiquer



Communication

- Production du matériel de communication
 - Page web
<http://www.rr-africa.oie.int/projects/EBOSURSY/fr/index.html>
 - Brochure
 - Fiches informatives
- Audiences
 - Ministères
 - Ecoles
 - Communautés



Communication



- Communautés locales
 - Sensibilisation sur les risques associés aux zoonoses
 - Surveillance participative
- Communication scientifique
 - Conférences
 - Publications



Plan de mis en œuvre en 2018



- Consultant et agence de communication



- Coordination avec parties prenantes



- Production des outils



- Diffusion des outils aux partenaires



- +10 séances de sensibilisation des communautés locales (Guinée, Gabon, RDC, République du Congo et Cameroun)




- 3. Renforcer les protocoles de surveillances



Prélèvement d'échantillons



- Faune sauvage
 - Faune domestique
 - Viande de brousse
 - Humain
- 
- Salive, sang, fèces, urine
 - Guinée, Cameroun, Gabon, République du Congo et République Démocratique du Congo

Analyse des échantillons

- Analyses sérologiques et moléculaires
- Détection moléculaire et caractérisation génomique des infections aux maladies ciblées
- Développement de nouvelles valences antigéniques pour le Luminex



Conduite d'études socio-économiques, épidémiologiques, écologiques



- Evaluation et caractérisation des pratiques et des risques
- Etude écologique des chauve-souris
- Etudes sociologiques
- Etude transversales
- Recommandations



Elaboration d'une base de données



- Identification des besoins techniques
- Identification des variables et paramètres
- Elaboration de l'accord d'utilisation de la base
- Base de données fonctionnelle avant fin Décembre 2018

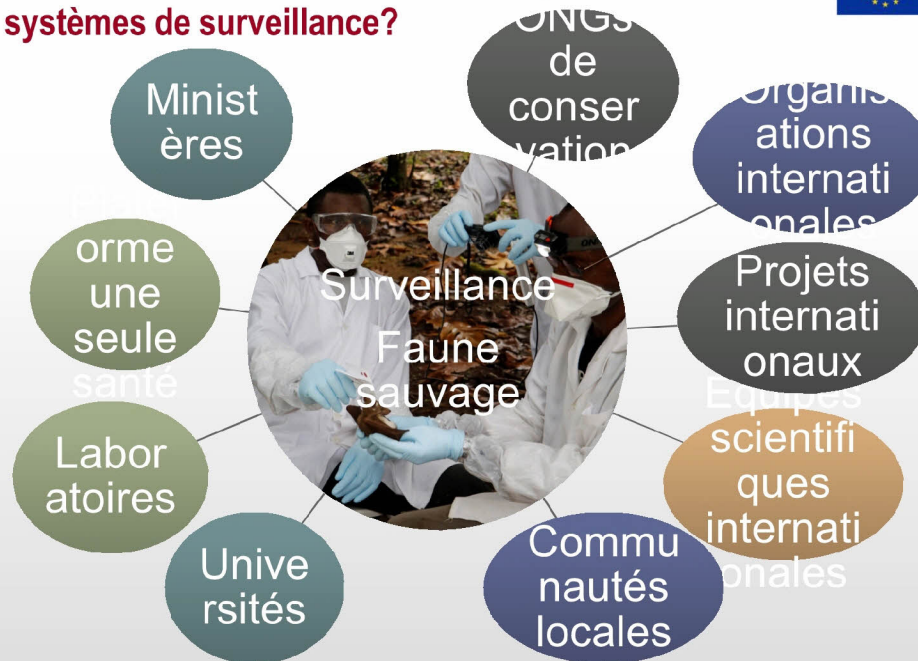


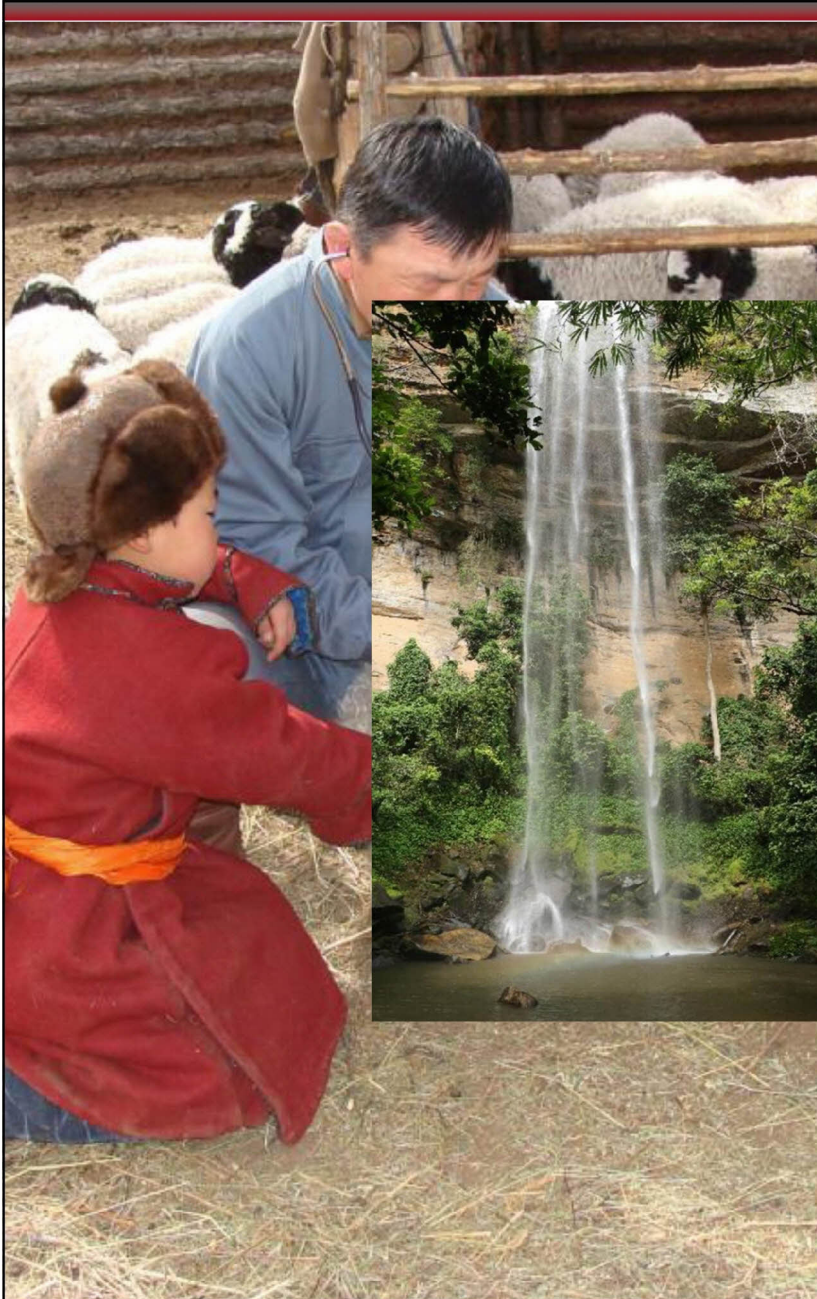
Plan de mis en œuvre en 2018



- 35+ missions de terrain pour prélèvements d'échantillons dans 5 pays
- Analyse des échantillons
- Etablissement d'une base de données
- Pose de 5 balises Argos (Guinée, Gabon, R. Congo)
- 3-4 enquêtes de terrain (Guinée, Cameroun, Gabon)

Comment renforcer la collaboration pour améliorer les systèmes de surveillance?





Organisation mondiale de la santé animale
Protéger les animaux, préserver notre avenir

OIE

Institut Pasteur



Institut de Recherche
pour le Développement
FRANCE

cirad



Merci pour votre
attention

12, rue de Prony, 75017 Paris, France
www.oie.int
media@oie.int - oie@oie.int



From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 13 Jun 2018 06:05:18 -0400
Subject: Fwd: EN / Suspected Ebola breaks out in Kiryandongo
To: Jonna Mazet <jkmazet@ucdavis.edu>, Kirsten Gilardi <kgilardi@ucdavis.edu>, **REDACTED**
djwolking@ucdavis.edu
Cc: predictmgt@usaid.gov

See below for some talk about Predict possibly being asked to test for other pathogens.
If Predict is asked by GOU/UVRI and you have budget, you have my pre-approval to proceed.

*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*

Begin forwarded message:

From: Lisa Kramer <lkramer@usaid.gov>
Date: June 13, 2018 at 11:46:46 AM GMT+2
To: Wilberforce Owembabazi <wowembabazi@usaid.gov>
Cc: Gregory Adams <gadams@usaid.gov>, Andrea Long-Wagar <alongwagar@usaid.gov>, Mark Meassick <mmeassick@usaid.gov>, Jo Lesser-Oltheten <jlesser@usaid.gov>, Laura Gonzales <lgonzales@usaid.gov>, Michelle Lang-Alli <mlang-alli@usaid.gov>, Kassahun Belay <kbelay@usaid.gov>, Sarah Paige <spaige@usaid.gov>, "ETD Unit Mail List (USAID)" <ghsdunitmaillistusaid@usaid.gov>, outbreak@usaid.gov, Andrew Clements <aclements@usaid.gov>
Subject: Re: EN / Suspected Ebola breaks out in Kiryandongo

Thank you Owe and thank you for keeping the broader group informed of the status.

For the specific request to PREDICT, please copy Andrew Clements, Mandy, Sarah and me. This should help to expedite PREDICT's contractual approval process for supporting the lab response. Andrew is the PREDICT AOR.

Best,
Lisa

Lisa Kramer
Regional Emerging Pandemic Threats Advisor
USAID/Kenya and East Africa
+254-20-862-2107 (Office)
REDACTED (Mobile)

On Wed, Jun 13, 2018 at 9:58 AM, Wilberforce Owembabazi <wowembabazi@usaid.gov> wrote:

Hi Lisa,
Thank you for the quick turn round with alternative solution to identifying cause of Ebola-like symptoms with negative VHF laboratory results. We will get in touch with USAID PREDICT to run more tests and additional investigations to determine the cause of deaths. This complicates the GOU reluctance to declare outbreaks where communities suspect that labs are influenced by GOU to falsify results. In the past we have had situations where communities have protested results from central labs especially where people are dying and laboratory tests are negative for usual suspect infections.
We will follow this up and update you accordingly.
Thank you.

WILBERFORCE OWEMBABAZI, MD, MPH
PMS- Global Health Security Agenda, Office of Health and HIV
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
U.S. Mission Compound

REDACTED

wowembabazi@usaid.gov | [usaid.gov](https://www.usaid.gov) | @USAID

On Wed, Jun 13, 2018 at 9:20 AM, Lisa Kramer <lkramer@usaid.gov> wrote:

Thank you Owe. Is UVRI continuing with other tests to try to determine the cause?

The USAID PREDICT project supported lab is also located at UVRI and they may be able to run the samples through the PREDICT protocols to determine if the pathogen to help narrow the diagnosis.

Lisa

Lisa Kramer

Regional Emerging Pandemic Threats Advisor

USAID/Kenya and East Africa

+254-20-862-2107 (Office)

REDACTED (Mobile)

On Wed, Jun 13, 2018 at 9:09 AM, Wilberforce Owembabazi <wowembabazi@usaid.gov> wrote:

Hi All,

This is to update you that UVRI results for the Ebola suspect in Kiryandogo are negative for all Viral Hemorrhagic Fevers (VHF).

Thanks,

WILBERFORCE OWEMBABAZI, MD, MPH
PMS- Global Health Security Agenda, Office of Health and HIV
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
U.S. Mission Compound

REDACTED

wowembabazi@usaid.gov | [usaid.gov](https://www.usaid.gov) | @USAID

On Tue, Jun 12, 2018 at 2:56 PM, Gregory Adams <gadams@usaid.gov> wrote:

Dear Andrea,

I have reached out to our contact at WHO Kampala for updates. Nothing more to report yet. We'll get the UVRI test results as soon as they are available. No Government mobilization at this point in time. No NTF meeting called.

We will keep you posted.

Gregory J. Adams

Global Health Security Agenda (GHSA) Advisor

USAID Mission Kampala

Cellphone: +**REDACTED**

Office Phone: +256 0414 306001 ext. 6599

Email: gadams@usaid.gov

On Tue, Jun 12, 2018 at 1:43 PM, Andrea Long-Wagar <alongwagar@usaid.gov> wrote:

Dear Greg,
Thank you for this information. Please keep us posted on the results from uvri. Is there anymore information about the suspected case? Has the government mobilized an investigation team to trace potential contacts?

Thank you
Andrea

Andrea Long-Wagar, ScM, MPH, CPH
Senior Infectious Disease Advisor
USAID Africa Bureau
Phone: 202-712-4514
Cell phone: **REDACTED**
E-mail: alongwagar@usaid.gov

Sent from my iPhone

On Jun 12, 2018, at 1:00 AM, Gregory Adams <gadams@usaid.gov> wrote:

FYI Urgent - Suspected case of Ebola/Marburg in Kiryandongo District in the Western Region of Uganda. Sample from deceased victim has been sent to UVRI for testing. We will track this with the Emergency Operations Center.
Regards,

Gregory J. Adams
Global Health Security Agenda (GHS) Advisor
USAID Mission Kampala
Cellphone: +**REDACTED**
Office Phone: +256 0414 306001 ext. 6599
Email: gadams@usaid.gov

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

From: **Ricardo Echalar** <rechalar@usaid.gov>
Date: Mon, Jun 11, 2018 at 5:59 PM
Subject: Fwd: EN / Suspected Ebola breaks out in Kiryandongo
To: ghsdunitmaillistusaid@usaid.gov, Wilberforce Owembabazi <wowembabazi@usaid.gov>, Gregory Adams <gadams@usaid.gov>

FYI - sample sent to UVRI for confirmation

--

Ricardo Echalar, MPH
Senior Public Health Advisor
Office of Infectious Diseases, [Emerging Threats Division](#)
Bureau for Global Health
U.S. Agency for International Development (USAID)
[2100 Crystal Drive, 8th Floor](#) - 8088B
Arlington, VA 22202
(m) **REDACTED** | **New number** (w) +1.571.551.7456 | E-mail: rechalar@usaid.gov

USAID Contractor
GHSI-III - CAMRIS International, Inc.

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

From: **GPHIN Alert - Alerte RMISP** <gphin-rmisp@phac-aspc.gc.ca>
Date: Mon, Jun 11, 2018 at 10:53 AM
Subject: EN / Suspected Ebola breaks out in Kiryandongo

To: rechalar@usaid.gov

This is an automated alert from the GPHIN System; please do not reply to this e-mail. The following article is brought to your attention and may require action on your part.

Publication language: EN

Article ID: [1003418616](#)

Received: 2018-06-11 14:02 UTC

Published: 2018-06-11 14:01 UTC

Location:

- Uganda
 - Central Region
 - Kayunga District
 - Bweyale
 - Western Region
 - Kiryandongo

News provider: MANUAL

Publication name: pmldaily.com

Suspected Ebola breaks out in Kiryandongo

Posted on June 11, 2018

KIRYANDONGO – A disease, suspected to be Ebola or Marburg haemorrhagic fever, has broken out in Kiryandongo district.

On Sunday morning, a woman patient identified as Cungi Odoki, a resident of Bweyale town council, was admitted with signs of the two ailments but died shortly after arrival.

According to the district Secretary for Health Rashid Okecha, health officials tried all they could to give her treatment but in vain.

“The woman was admitted at around 8am on Sunday with a severe fever and blood was flowing out of her body passing through every opening,”Okecha said.

He, however said a blood sample has been taken to the Uganda Virus Research Institute.

“After testing, we shall be able to ascertain what the patient was suffering from. The deceased will however be buried today Monday to avoid any chances of contact being made,”Okecha said.

According to Okecha, burial will be carried out by the medical control team.

Efforts to get additional information from the hospital’s medical superintendent were futile as our calls went unanswered.

Okecha said the community is going to be sensitised to take preventive measures against the virus.

The original article is available at <http://www.pnldaily.com/news/2018/06/0935723-49723.html>.

This email has been sent because you participate in the Global Public Health Intelligence Network; it was sent by the Centre for Emergency Preparedness & Response, Public Health Agency of Canada, [100 Colonnade Road](#), A.L. 6201A Ottawa, Ontario, Canada K1A 0K9. We dislike spam as much as you do, so if you're no longer interested in receiving email alerts, you may [unsubscribe](#) at any time.

From: Andrew Clements <aclements@usaid.gov>
To: <undisclosed-recipients:>
BCC: jkmazet@ucdavis.edu
Sent: 6/25/2018 3:23:35 AM
Subject: June 25, 2018 Emerging Pandemic Threats update

Summary: 43 poultry outbreaks, 4 wild bird outbreaks, and 35 human infections with 10 pathogens (various avian influenza viruses, Ebola, Lassa, MERS-CoV, and Nipah) were reported by 14 countries between May 30 and June 24, 2018. These outbreaks/infections occurred between January and June 2018.

Specific pathogens and countries affected:

H5NX HPAI – 17 new poultry outbreaks (Russia)

At present, no additional information available about the N-type of this virus. A total of 17 bird outbreaks (0.4 million birds affected) have been reported by 1 country; no human infections reported to date.

H5N1/Asia Highly-Pathogenic Avian Influenza (HPAI) – 10 new poultry outbreaks (Bangladesh, Indonesia, Nepal)

A total of 23,681 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 – 6 new poultry outbreaks (China)

A total of 852 bird outbreaks (6.7 million birds affected) have been reported by 1 country since virus first detected in 2012; no human infections reported to date.

H5N6/Europe (variant) HPAI – 3 new wild bird outbreaks (Denmark, Sweden, UK)

A total of 82 bird outbreaks (83 thousand birds affected) have been reported by 9 countries since virus first detected in 2017; no human infections reported to date.

H5N8/Asia (variant) HPAI – 9 new poultry outbreaks and 1 new wild bird outbreak (Bulgaria, Saudi Arabia, South Africa)

A total of 2,717 bird outbreaks (more than 30.8 million birds affected) have been reported by 52 countries since virus first detected in 2016; no human infections reported to date.

H7N9/Asia HPAI and LPAI – 1 new poultry outbreak (China)

A total of 28 bird outbreaks (1.1 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.

Ebola – 3 new confirmed human cases (DR Congo); last confirmed case tested negative on June 12.

At least 31,141[^] human infections (42% average case fatality rate) have been reported by 17 countries between 1976 and 2018. [^] Total includes confirmed, probable, and suspected cases.

Lassa – 9 new confirmed human cases (Nigeria)

At least 2,987[^] human infections (20% average case fatality rate) have been reported by 13 countries between 2000 and 2018. [^] Total includes confirmed, probable, and suspected cases.

MERS-CoV – 21 new confirmed human cases (Saudi Arabia)

A total of 26 camel outbreaks and at least 2,223 confirmed human infections (36% average case fatality rate) have been reported by 27 countries since virus first detected in 2012. [Note: no daily updates posted on Saudi Arabia Ministry of Health website since May 13, 2018]

Nipah – 2 new confirmed human cases (India); last confirmed case reported on June 2.

At least 634[^] human infections (59% average case fatality rate) have been reported by 4 countries between 1998 and 2018. [^] Total includes confirmed, probable, and suspected cases.

Examples of reporting during the past month:

Country	Pathogen detected	Affected population	Number of events	Median days from event start to lab testing	Median days from event start to OIE report
UK	H5N6/Europe variant HPAI	Wild birds	1	1	1
Russia	H5NX HPAI	Poultry	17	1	3
Nepal	H5N1/Asia HPAI	Poultry	1	2	4
China	H5N2/Asia HPAI, H7N9/Asia HPAI	Poultry	7	3	14
South Africa	H5N8/Asia variant HPAI	Poultry, wild birds	2	[not reported]	15
Bangladesh	H5N1/Asia HPAI	Poultry	1	9	16
Bulgaria	H5N8/Asia variant HPAI	Poultry	5	0	52
Saudi Arabia	H5N8/Asia variant HPAI	Poultry	3	6	55
Sweden	H5N6/Europe variant HPAI	Wild birds	1	54	60
Denmark	H5N6/Europe variant HPAI	Wild birds	1	[not reported]	87

à Next update on/about July 20, 2018

Data sources:

<http://www.who.int/csr/don/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://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://dhs.kerala.gov.in>

About the USAID Emerging Pandemic Threats update: first started in 2012*, this monthly update brings together information on both human and animal infectious disease outbreaks involving viruses having known or potential ability to infect and spread directly from human to human without vectors such as insects, water, or food. The current mailing list includes readers from USAID (Washington and missions in 22 countries in Africa, Asia, and the Middle East), other US Government Departments/Agencies (including HHS, CDC, NIH, USDA, Department of Defense, Department of Interior, State Department), international organizations (FAO, IFRC, OIE, UNDP, WHO), universities, and NGOs.

* Between 2005 and 2011, the monthly update covered only H5N1 avian influenza.

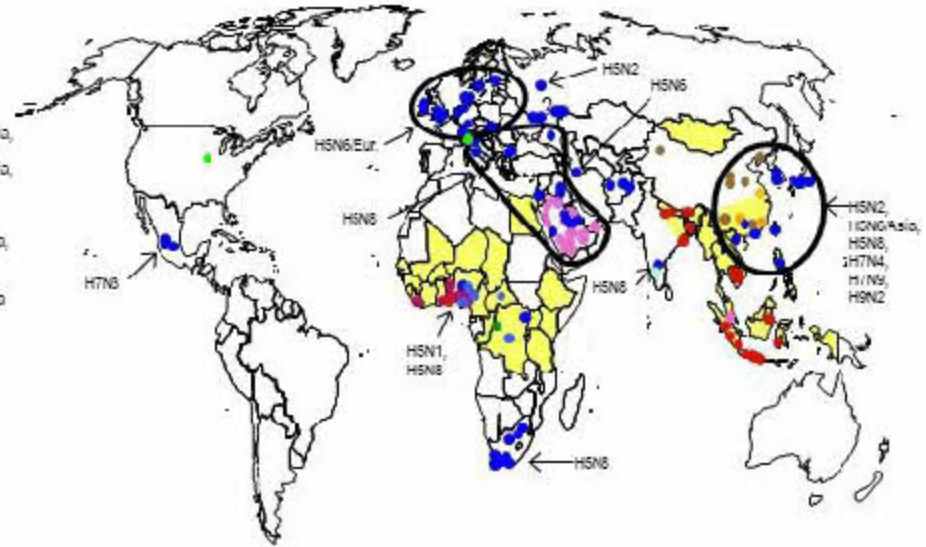
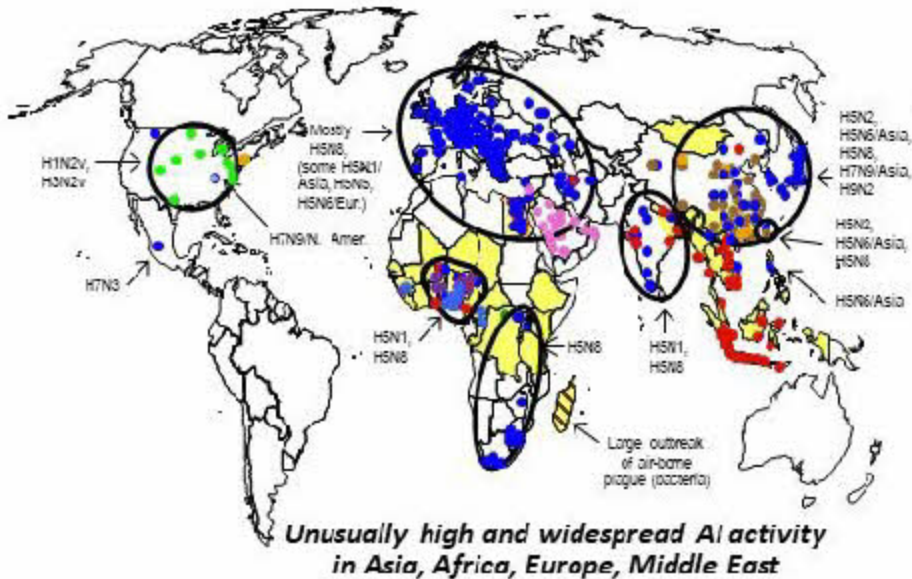
Andrew Clements, Ph.D.
Senior Scientific Advisor
Emerging Threats Division/Office of Infectious Diseases/Bureau for Global Health
U.S. Agency for International Development
Mobile phone: 1-571-345-4253
E-mail: aclements@usaid.gov

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^

Nov 2016-Oct 2017

Nov 2017-Oct 2018



- = H5N1/Asian lineage HPAI# (poultry, wild birds, humans)
- = H7N9 LPAI/Asia### (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/FAO (Egypt, Indonesia), and IEDCR (Bangladesh) reports between 11/1/16 and 6/25/18. ^ 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. * Highly-pathogenic avian influenza. *** 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.

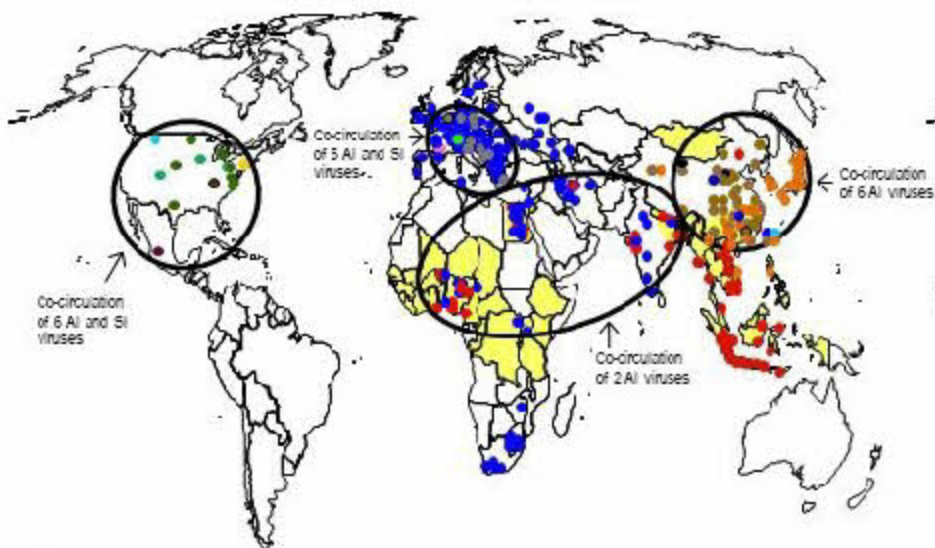


UCDUSR0010187

Recent Detection of Avian and Swine Influenza Viruses in Animals and Humans[^]

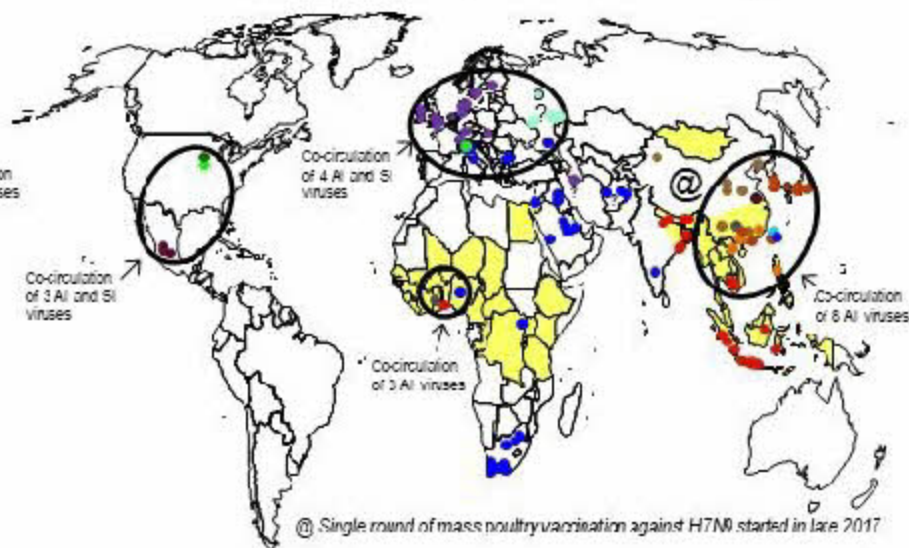
Nov 2016-Oct 2017

→ 3,740 bird outbreaks and 786 human infections with 15 AI/SI sub-types/variants (9 of which are zoonotic)



Nov 2017-Oct 2018

→ 471 bird outbreaks and 13 human infections with 13 AI/SI sub-types/variants (8 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 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 6/25/18. [^] 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.



USAID
FROM THE AMERICAN PEOPLE

Global Health/Emerging Threats Division

UCDUSR0010188

From: Andrew Clements <aclements@usaid.gov>
Sent: Thu, 19 Jul 2018 11:20:06 -0700
Subject: Re: Name of new virus
To: Tracey Goldstein <tgoldstein@ucdavis.edu>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, Brian Bird <bhbird@ucdavis.edu>

Good. Thanks for confirming!

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

On Jul 19, 2018, at 5:57 PM, Tracey Goldstein <tgoldstein@ucdavis.edu> wrote:

Hello Andrew,

We followed the conventional strategy for naming ebolaviruses, so this virus would be consistent with other known viruses. Changing this approach will require that the scientific community reach a consensus of a new naming strategy... We have ensured that specific villages or houses cannot be identified as we have always reported locations to two decimal degrees only, and these data are only included in the Genbank metadata.

To date, none of our GoSL co-authors have raised concern or asked questions.

Hope that helps, Tracey

On Thu, Jul 19, 2018 at 6:35 AM, Andrew Clements <aclements@usaid.gov> wrote:

Can you verify that the local researchers and their home organizations and affected communities are all okay with naming the new virus after the district? It's a good descriptor, but people may have concerns about their district being stigmatized.

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

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

--

Tracey Goldstein, PhD
One Health Institute
School of Veterinary Medicine
University of California
Davis, CA 95616
Phone: (530) 752-0412
Fax: (530) 752-3318
E-mail: tgoldstein@ucdavis.edu

From: Andrew Clements <aclements@usaid.gov>
Sent: Fri, 10 Aug 2018 08:48:46 -0700
Subject: Re: Smithsonian presentation
To: "William B. Karesh" <karesh@ecohealthalliance.org>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, "djwolking@ucdavis.edu" <djwolking@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>, "MurrayS@si.edu" <MurrayS@si.edu>, "cchrisman@usaid.gov" <cchrisman@usaid.gov>, Alisa Pereira <apereira@usaid.gov>

Thanks, Billy.

*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: **REDACTED**
Email: aclements@usaid.gov*

On Aug 10, 2018, at 5:05 PM, William B. Karesh <karesh@ecohealthalliance.org> wrote:

It was a confluence of a few concepts that came up at the Midyear meeting in Napa, including : people's availability, early enough to stimulate enthusiasm about an EPT-3, and not too late to be heavy into the Mid-term election cycle if we want to get Hill staffers and some attention there.

Sent from my iPhone

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](tel:+12123804463) (direct)
[+1.212.380.4465](tel:+12123804465) (fax)
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 Aug 10, 2018, at 10:29 AM, Andrew Clements <aclements@usaid.gov> wrote:

Hi all,

Turns out Dennis, Alisa, and I will not be available for this presentation on the current date.

Can you remind me if there was a specific reason you/we selected this date? Would a future date be possible (assuming there is availability at the castle)?

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: **REDACTED**

Email: aclements@usaid.gov

From: Peter Daszak <daszak@ecohealthalliance.org>
To: **REDACTED**, Brooke Genovese <bgenovese@ucdavis.edu>, Kevin Olival <olival@ecohealthalliance.org>, Alison Andre <andre@ecohealthalliance.org>
Cc: Luke Hamel <hamel@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>
Subject: RE: October 5th - Peter's Availability to meet with Jonna
Sent: Fri, 21 Sep 2018 16:58:16 +0000

Can prob do the Friday but not the Monday – I'm flying to China on the Saturday.

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
www.ecohealthalliance.org
@PeterDaszak
@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: **REDACTED**
Sent: Friday, September 21, 2018 12:52 PM
To: Peter Daszak; Brooke Genovese; Kevin Olival; Alison Andre
Cc: Luke Hamel; Jonna Mazet
Subject: RE: October 5th - Peter's Availability to meet with Jonna

Dear all,

I have been informed that Thanat's visiting dates have been changed to the third week of October due to training availability at CII. He is very much looking forward to meet EHA scientists, so I am now exploring alternative dates.

Kevin and Peter/Alison, would you be available to meet with Thanat on Fri Oct 12 or Mon Oct 15?

Thank you,

REDACTED

From: Peter Daszak [<mailto:daszak@ecohealthalliance.org>]
Sent: Wednesday, September 19, 2018 8:55 PM
To: **REDACTED**; Brooke Genovese <bgenovese@ucdavis.edu>; Kevin Olival <olival@ecohealthalliance.org>; Alison Andre <andre@ecohealthalliance.org>

Cc: Luke Hamel <hamel@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>

Subject: RE: October 5th - Peter's Availability to meet with Jonna

I think I'm in Atlanta giving a talk at the zoo, but I'll check this week...

Cheers,

Peter

Peter Daszak
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www.ecohealthalliance.org

[@PeterDaszak](#)

[@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: **REDACTED**

Sent: Wednesday, September 19, 2018 7:47 PM

To: Brooke Genovese; Kevin Olival; Alison Andre

Cc: Luke Hamel; Jonna Mazet; Peter Daszak

Subject: RE: October 5th - Peter's Availability to meet with Jonna

Hi everyone,

Could we tentatively hold 2-4pm ET on Friday Oct 5 for a meeting with Thanat, Jonna, Kevin, and Peter at EHA? I know how tight everyone's schedules are, so it would be great if we could block off a time while we wait for various approvals.

Thank you,



From: Brooke Genovese

Sent: Tuesday, September 18, 2018 4:56 PM

To: Kevin Olival <olival@ecohealthalliance.org>; Alison Andre <andre@ecohealthalliance.org>

Cc: Luke Hamel <hamel@ecohealthalliance.org>; **REDACTED**

Subject: Re: October 5th - Peter's Availability to meet with Jonna

Great! Let's plan for meetings on Oct. 5. Eri is checking in with Thanat and we'll get back to you with some potential meeting times in the afternoon.

-Brooke

From: Kevin Olival <olival@ecohealthalliance.org>

Date: Tuesday, September 18, 2018 at 12:31 PM

To: Alison Andre <andre@ecohealthalliance.org>

UCDUSR0010193

Cc: Brooke Genovese <bgenovese@ucdavis.edu>, Luke Hamel <hamel@ecohealthalliance.org>

Subject: Re: October 5th - Peter's Availability to meet with Jonna

I should be around on Oct 5th. Thanks.

On Sep 18, 2018, at 11:27 PM, Alison Andre <andre@ecohealthalliance.org> wrote:

Hi Brooke,

Peter will be returning from Atlanta on the 5th but would be available to meet that afternoon.

Best,
Alison

From: Brooke Genovese <bgenovese@ucdavis.edu>

Date: Tuesday, September 18, 2018 at 1:28 PM

To: Alison Andre <andre@ecohealthalliance.org>

Cc: Kevin Olival <olival@ecohealthalliance.org>

Subject: October 5th - Peter's Availability to meet with Jonna

Hi Alison & Kevin,

Jonna will be in NYC on October through 5 and would like to meet with Peter and/or Kevin, if possible. Thanat Chookajorn (GVP) will also be in town.

Do you know if Peter is available? Kevin, are you also available to meet?

-Brooke

From: [REDACTED]
To: Kevin Olival <olival@ecohealthalliance.org>
Cc: Peter Daszak <daszak@ecohealthalliance.org>, Brooke Genovese <bgenovese@ucdavis.edu>, Alison Andre <andre@ecohealthalliance.org>, Luke Hamel <hamel@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>
Subject: RE: October 5th - Peter's Availability to meet with Jonna
Sent: Mon, 24 Sep 2018 20:18:45 +0000

Hi Kevin,

Thank you very much, that would be great. Please feel free to take the 'hold' off of your schedules on Oct 5, and place a hold on Oct 12.

More updates to follow soon,



From: Kevin Olival [mailto:olival@ecohealthalliance.org]
Sent: Monday, September 24, 2018 8:03 AM
To: [REDACTED]
Cc: Peter Daszak <daszak@ecohealthalliance.org>; Brooke Genovese <bgenovese@ucdavis.edu>; Alison Andre <andre@ecohealthalliance.org>; Luke Hamel <hamel@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>
Subject: Re: October 5th - Peter's Availability to meet with Jonna

Friday the 12th will work for me too. Let [REDACTED] know, but cc'ing all.

Thanks,
kevin

Kevin J. Olival, PhD
Vice President for Research

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

REDACTED

@nycbat (twitter)

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.

On Sep 21, 2018, at 1:01 PM, [REDACTED] wrote:

Thanks Peter!

From: Peter Daszak [mailto:daszak@ecohealthalliance.org]
Sent: Friday, September 21, 2018 9:58 AM
To: [REDACTED]; Brooke Genovese <bgenovese@ucdavis.edu>; Kevin Olival <olival@ecohealthalliance.org>; Alison Andre <andre@ecohealthalliance.org>
Cc: Luke Hamel <hamel@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>
Subject: RE: October 5th - Peter's Availability to meet with Jonna

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Cheers,

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REDACTED

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To: Alison Andre <andre@ecohealthalliance.org>

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Alison

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Date: Tuesday, September 18, 2018 at 1:28 PM

To: Alison Andre <andre@ecohealthalliance.org>

Cc: Kevin Olival <olival@ecohealthalliance.org>

Subject: October 5th - Peter's Availability to meet with Jonna

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Thanat Chookajorn (GVP) will also be in town.

Do you know if Peter is available? Kevin, are you also available to meet?

-Brooke

From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 17 Oct 2018 12:52:46 -0700
Subject: Fwd: FAO/EMPRES - MERS-CoV Update - 17 October 2018
To: William Karesh <Karesh@ecohealthalliance.org>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, dawson@ecohealthalliance.org, Tracey Goldstein <tgoldstein@ucdavis.edu>, Kevin Olival PhD <olival@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, daszak@ecohealthalliance.org, "D. Phil Simon Anthony" <anthony@ecohealthalliance.org>

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*

Begin forwarded message:

From: Sophie von Dobschuetz <[REDACTED]>
Date: October 17, 2018 at 8:14:46 PM GMT+2
To: <aclements@usaid.gov>
Subject: FAO/EMPRES - MERS-CoV Update - 17 October 2018
Reply-To: Sophie von Dobschuetz <[REDACTED]>

FAO/EMPRES - MERS-CoV Update - 17 October 2018

THIS MESSAGE IS SENT ON BEHALF OF JUAN LUBROTH, CHIEF, ANIMAL HEALTH SERVICE (AGAH)

Please be informed that the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Situation Update for 17 October 2018 from FAO/EMPRES – Animal Health is now available online at the following link:

http://www.fao.org/ag/againfo/programmes/en/empres/mers/situation_update.html

from where it can be printed or saved as pdf file using the 'print' button in the upper right corner.

For your convenience, you may download a PDF below.

Updates

- Eleven new human cases reported in Saudi Arabia;
- Updated map on MERS-CoV livestock field surveys by country;
 - Three new relevant publications;
- Project Updates by Egypt, Ethiopia, Jordan and Kenya;
 - And more....

Kindly note that the next MERS Update will be issued on 21 November 2018.

With best regards,

Sophie, on behalf of

Juan Lubroth

Chief Veterinary Officer

Animal Health Service

Food and Agriculture Organization of the United Nations Viale delle Terme di Caracalla

00153 Rome, ITALY

Tel: +39 06 570 54184

[Click to Open PDF Version](#)

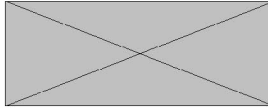
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FAO · Viale delle Terme di Caracalla · Rome, Rm 00153 · Italy



From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 12 Dec 2018 11:43:12 -0800
Subject: Re: DDL provision in PREDICT award
To: Elizabeth Leasure <ealeasure@ucdavis.edu>
Cc: Amalhin Shek <ashek@usaid.gov>, Alisa Pereira <apereira@usaid.gov>, predict Sympa List <predict@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>

I approved the request.

*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*

On Dec 12, 2018, at 8:39 PM, Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

This standard provision was added in Mod 4 of the award, which incorporated the updated standard provisions using the new uniform guidance. I submitted a request to create a partner account, so Andrew should see that come to him soon for his approval.

M25. SUBMISSION OF DATASETS TO THE DEVELOPMENT DATA LIBRARY (OCTOBER 2014)

a. Definitions. For the purpose of submissions to the DDL:

(1) “Dataset” is an organized collection of structured data, including data contained in spreadsheets, whether presented in tabular or non-tabular form. For example, a Dataset may represent a single spreadsheet, an extensible mark-up language (XML) file, a geospatial data file, or an organized collection of these. This requirement does not apply to aggregated performance reporting data that the recipient submits directly to a USAID portfolio management system or to unstructured data, such as email messages, PDF files, PowerPoint presentations, word processing documents, photos and graphic images, audio files, collaboration software, and instant messages. Neither does the requirement apply to the recipient’s information that is incidental to award administration, such as financial, administrative, cost or pricing, or management information. Datasets submitted to the DDL will generally be those generated with USAID resources and created in support of Intellectual Work that is uploaded to the Development Experience Clearinghouse (DEC) (See M21. SUBMISSIONS TO THE DEVELOPMENT EXPERIENCE CLEARINGHOUSE AND PUBLICATIONS (JUNE 2012)).

(2) “Intellectual Work” includes all works that document the implementation, monitoring, evaluation, and results of international development assistance activities developed or acquired under this award, which may include program and communications materials, evaluations and assessments, information products, research and technical reports, progress and performance reports required under this award (excluding administrative financial information), and other reports, articles and papers prepared by the recipient under the award, whether published or not. The term does not include the recipient’s information that is incidental to award administration, such as financial, administrative, cost or pricing, or management information.

b. Submissions to the Development Data Library (DDL)

(1) The recipient must submit to the Development Data Library (DDL) at www.usaid.gov/data, in a machine-readable, non-proprietary format, a copy of any Dataset created or obtained in performance of this award, including Datasets produced by a subawardee or a contractor at any tier. The submission must

include supporting documentation describing the Dataset, such as code books, data dictionaries, data gathering tools, notes on data quality, and explanations of redactions.

(2) Unless otherwise directed by the Agreement Officer (AO) or the Agreement Officer Representative (AOR), the recipient must submit the Dataset and supporting documentation to the DDL within thirty (30) calendar days after the Dataset is first used to produce an Intellectual Work or is of sufficient quality to produce an Intellectual Work. Within thirty (30) calendar days after award completion, the recipient must submit to the DDL any Datasets and supporting documentation that have not previously been submitted to the DDL, along with an index of all Datasets and Intellectual Work created or obtained under the award. The recipient must also provide to the AOR an itemized list of any and all DDL submissions.

The recipient is not required to submit the data to the DDL, when, in accordance with the terms and conditions of this award, Datasets containing results of federally funded scientific research are submitted to a publicly accessible research database. However, the recipient must submit a notice to the DDL by following the instructions at www.usaid.gov/data, with a copy to the agreement officer representative, providing details on where and how to access the data. The direct results of federally funded scientific research must be reported no later than when the data are ready to be submitted to a peer-reviewed journal for publication, or no later than five calendar days prior to the conclusion of the award, whichever occurs earlier.

(3) The recipient must submit the Datasets following the submission instructions and acceptable formats found at www.usaid.gov/data.

(4) The recipient must ensure that any Dataset submitted to the DDL does not contain any proprietary or personally identifiable information, such as social security numbers, home addresses, and dates of birth. Such information must be removed prior to submission.

(5) The recipient must not submit classified data to the DDL.

[End

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

From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 20 Mar 2019 12:53:07 -0700
Subject: Pending equipment approval for Jordan?
To: ealeasure@ucdavis.edu
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, William Karesh <Karesh@ecohealthalliance.org>, dawson@ecohealthalliance.org, djwolking@ucdavis.edu, predictmgt@usaid.gov

Hi Liz,

Is there an equipment approval coming for Jordan? When I was there in October, there was mention of it, but I don't recall having approved anything. The mission was asking about the status of this.

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
Email: aclements@usaid.gov*

From: Andrew Clements <aclements@usaid.gov>
To: Katherine Leasure <kaleasure@ucdavis.edu>; tbah@usaid.gov <tbah@usaid.gov>
CC: PREDICTMGT <predictmgt@usaid.gov>; Predict inbox <predict@ucdavis.edu>; Jonna Mazet <Jkmazet@ucdavis.edu>
Sent: 4/26/2019 1:27:07 AM
Subject: Re: Time Sensitive: PREDICT International Travel Requests (Monagin/Belkhiria)

Approved subject to Mission concurrence.

Tamar: please provide concurrence as soon as you are able. The proposed travel is for May 6.

*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*

On Apr 25, 2019, at 11:29 PM, Katherine Leasure <kaleasure@ucdavis.edu> wrote:

Hi Andrew. Please find below requests for Corina Monagin and Jaber Belkhiria travel to Guinea. Our apologies for the late submission. There are questions that need to be resolved with the in-country team to facilitate data analysis and planning for close-out activities, including community engagement. In order to not disrupt activities, it would be best for Jaber and Corina to visit as soon as possible, and before the data workshop being held at UC Davis that is happening at the beginning of June (which the Guinea Country Coordinator is attending). This will give the team the maximum time to clean data and start analysis. Please let me know if you have any questions. Thanks!

1. Monagin (Guinea): \$2121 airfare/\$327 (Conakry) max daily per diem
2. Belkhiria (Guinea): \$700 airfare/\$327 (Conakry) max daily per diem

Travel Requests –

1. UC Davis would like to request travel approval for Dr. Corina Monagin to travel from Los Angeles, USA to Conakry, Guinea from May 6-18 for team meetings regarding sample data and project close-out.

Trip Purpose: Dr. Monagin will be traveling to Conakry to meet with PREDICT team members, including Dr. Jaber Belkhiria to review procedures related to surveillance and behavior data entry and analysis. Dr. Monagin will also be meeting with the team to discuss 6-month staff plan and end of project workplan to ensure capacity development of the team and proper transition timeline. Dr. Monagin also plans to meet with project stakeholders to discuss these work plans and the ongoing community engagement strategy that focuses on risk communication.

2. UC Davis would like to request travel approval for Dr. Jaber Belkhiria to travel from Tunis, Tunisia to Conakry, Guinea from May 4 – 18, 2019 for team meetings about sample data and closeout plans.

Trip purpose: Dr. Belkhiria will be traveling to Conakry to meet with PREDICT team members, including Dr. Corina Monagin to review procedures related to surveillance and behavior data entry and analysis. While he is there, he plans to meet with project stakeholders to discuss project close out plans and the ongoing community engagement strategy that focuses on risk communication. He will also be meeting with the PREDICT Country Coordinator to review data analysis techniques in preparation for his attendance at the upcoming data conference that will be held in June 2019 at UC Davis.

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

--

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.
To post to this group, send email to predictmgt@usaid.gov.
To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAD6-xM%2BNno-Hw7E6FhPA0dnF6vKmUQNOJ7E%3Dx0BrOaaTwdv-DA%40mail.gmail.com>.

Sent: Mon, 29 Apr 2019 16:10:24 -0700
Subject: Re: TIP RoC
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: "William B. Karesh" <karesh@ecohealthalliance.org>
Cc: Andrew Clements <AClements@usaid.gov>, Evelyn Luciano <luciano@ecohealthalliance.org>

Thanks for the update,
Jonna

On Mon, Apr 29, 2019 at 11:02 AM William B. Karesh <karesh@ecohealthalliance.org> wrote:

Anne met with the new Economic Officer at the Embassy in Brazzaville (David Kelm) to review the project to date. She asked about TIP and he said that he has not heard any updates recently but said that the issue will be addressed project by project, and the USAID Kinshasa may know more since there is no USAID Mission in RoC.
BK

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

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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.

From: Andrew Clements <aclements@usaid.gov>
Sent: Thu, 2 May 2019 09:06:35 -0400
Subject: Fwd: Predict-2 update
To: Jonna Mazet <jkmazet@ucdavis.edu>, djwolking@ucdavis.edu, ealeasure@ucdavis.edu
Cc: predictmgt@usaid.gov

FYI. I've notified all the missions about P-2 end and extension.

*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*

Begin forwarded message:

From: Andrew Clements <aclements@usaid.gov>
Date: May 1, 2019 at 3:06:13 PM PDT
To: ghsdglobal@usaid.gov
Subject: Predict-2 update

Hi all,

As AOR of USAID/Predict-2, I'm writing to provide an update on the project.

Here are the key points:

- The original 5-year project will end as planned on 9/30/2019. The project is currently in the process of finishing testing, analysis, preparing data reports for disseminating to governments and communities, and identifying where/how samples will continued to be stored or used in the future.
- Two caveats—1. Five countries in which Predict works (China, Laos, Myanmar, DR Congo, Rep. of Congo) may have to end activities earlier than 9/30/2019 because of their Tier 3 ranking for TVPA. (We are waiting for formal guidance.) 2. Predict has had to slow year 5 implementation because of delays by USAID to provide funding. (This could possibly result in some activities not being finished by 9/30/2019.)
- There will be no follow-on Predict award as part of the 2019-2024 EPT/GHSA portfolio. Also note that IDDS and/or FAO are not continuing the Predict scope of work.
- We are planning an extension of Predict-2 for a limited-time (10/1/2019 to 9/30/2020), limited scope (country risk assessment training, recommendations to countries for augmenting surveillance related to wildlife and their microbes, and maintenance of the global EIDITH database used by Predict-2), and in a limited number of countries (Bangladesh, Cameroon, Côte d'Ivoire, DR Congo [unless excluded by TVPA restrictions], Ghana, Guinea, Indonesia, Kenya, Liberia, Senegal, Sierra Leone, Tanzania, Uganda, Vietnam). Note: there will be no additional surveillance or testing of samples during the extension period*.
- Because of the reduced scope of activities for the 1-year extension, the overall number of staff for the project will be reduced, including at the country level.
- If year 5 activities are not completed by 9/30/2019, this is not expected to affect the start of the extension on 10/1/2019.

**An exception might be advanced testing of a limited number of select viruses in Predict global labs.*

Please let me know if you have any questions.

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
Email: aclements@usaid.gov

From: Andrew Clements <aclements@usaid.gov>
To: djwolking@ucdavis.edu <djwolking@ucdavis.edu>
CC: Jonna Mazet <jkmazet@ucdavis.edu>; predictmgt@usaid.gov <predictmgt@usaid.gov>
Sent: 5/20/2019 2:23:56 AM
Subject: Bat book

Hi David,

Can you send me the latest version of the bat book? I want to look through it again, but want to make sure I have the most-recent version.

Also, I would like to look at the Asia adaptation of the bat book if a draft is available.

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
Email: aclements@usaid.gov*

From: Brooke Genovese <bgenovese@ucdavis.edu>
To: Peter Daszak <daszak@ecohealthalliance.org>, Kevin Olival <olival@ecohealthalliance.org>
Cc: Jon Epstein <epstein@ecohealthalliance.org>, Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>, Alison Andre <andre@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>
Subject: Re: PREDICT Emerging Disease Insights for USAID Products Package
Sent: Fri, 16 Aug 2019 17:03:14 +0000
[EDI_Diego_jm.docx](#)
[2019_USAID-EDI_final_NR_jm.docx](#)

Hi all,

I'm attaching two more EDI's here from Diego & Nistara. Jonna has already passed through these two with edits.

Thanks!
-Brooke

From: Jonna Mazet <jkmazet@ucdavis.edu>
Date: Thursday, August 15, 2019 at 8:40 PM
To: Peter Daszak <daszak@ecohealthalliance.org>, Kevin Olival <olival@ecohealthalliance.org>
Cc: Jon Epstein <epstein@ecohealthalliance.org>, Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>, Alison Andre <andre@ecohealthalliance.org>, Brooke Genovese <bgenovese@ucdavis.edu>, **REDACTED**
Jaber Belkhiria <jabelkhiria@ucdavis.edu>
Subject: Re: PREDICT Emerging Disease Insights for USAID Products Package

My edits on these, if you'd like to review the version with edits.
Thanks to Zoe & Jaber for drafting!
Jonna

On Mon, Aug 12, 2019 at 10:51 AM Brooke Genovese <bgenovese@ucdavis.edu> wrote:
Hi everyone,

Attached are two of four EDI pieces for review from Zoe & Jaber. Jonna will be co-reviewing these with you all. Deadline for review is **August 19th** – please track your changes.

Two more EDI pieces will follow in the coming days. Let me know if you have any questions!

Thanks,
Brooke

From: Brooke Genovese <bgenovese@ucdavis.edu>
Date: Friday, July 26, 2019 at 1:27 PM
To: Peter Daszak <daszak@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, Kevin Olival <olival@ecohealthalliance.org>, Christine Kreuder Johnson <ckjohnson@UCDAVIS.EDU>
Cc: Alison Andre <andre@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>
Subject: PREDICT Emerging Disease Insights for USAID Products Package

Hi Peter, Kevin, Jon, and Chris,

Jonna asked me to give you all a heads-up that she has three EDI pieces in the works to be featured in the August Products Package / Newsletter for USAID. Zoe, Nistara, and Diego intend to have drafts for review by the M&A team no later than **August 12th**, and we'd like to have drafts reviewed and finalized 1 week from then (**Aug. 19**).

We're also going to include the EDI that Peter just sent out and will link out to the full version. If you have any EDI's in the works that you'd like to have featured in this upcoming products package, please let us know and plan to have those ready for review by August 12th. Our graphic design guru, Eunah, will be laying out the EDI's into a common format (just like the Pathogen Discovery piece that went out in July) so she'll just need finalized text and figures (with captions) for formatting after the 19th. Note: These EDI's will double as content for the PREDICT digital report/website, just as the PD package does.

If you have any questions, please let Jonna or I know.

Thank you!

-Brooke

Brooke Genovese

PREDICT Project Support

Executive Analyst

One Health Institute

School of Veterinary Medicine

bgenovese@ucdavis.edu

o: 530-752-3630

Seasonal shedding of coronaviruses in straw-colored fruit bats at urban roosts in Africa

The adaptation of bats (order Chiroptera) to use and occupy human dwellings across the planet has created intensive bat-human interfaces. Because bats provide important ecosystem services and also host and shed zoonotic viruses, these interfaces represent a double challenge: i) the conservation of bats and their services and ii) the prevention of viral spillover.

Many species of bats have evolved a seasonal life history that has resulted in the development of specific reproductive and foraging activities during distinctive periods of the year. For example, many species mate, give birth, and nurse during particular and predictable times of the year. Moreover, bat migration can produce predictable variations in colony sizes during a typical year, from complete absence of bats to the aggregation of millions of individuals depending on the season. The seasonal changes in the reproductive activities and colony occupancy are expected to produce temporal modifications in the contact rate between bats and likely alter their susceptibility to infection, causing differing levels of transmission, and therefore, infection. If this hypothesis is correct then: i) the proportion of bats shedding viruses and the risk of viral spillover will follow temporal variations that can be predictable and ii) high-risk spillover periods could be established in colonies that have not been studied independently of the ideal but expensive and logistically difficult sampling of bats. However, before the PREDICT Project, the dynamics of viral shedding in bats over time has been assessed in only a restricted number of species and mostly in single colonies. Thus, the elucidation of seasonal high-risk periods can lead to the use of non-lethal methods to prevent spillover supporting bat populations, such as the banning of hunting and bat consumption temporally or restricting access to colony grounds during high-risk periods. Beyond the ethical debate on lethal management, its application has caused counterproductive results in the past¹.

For these reasons, we assessed the seasonality of coronavirus (CoV) shedding by the straw-colored fruit bat (*Eidolon helvum*) during an entire year on a monthly basis not in a single but in two urban colonies: Accra, Ghana (West Africa) and Morogoro, Tanzania (East Africa; Fig 1). This fruit bat shows a single birth pulse during the year, its colonies show spectacular periodical changes in size, and similarly to other tree-roosting megabats, several roosts are

located in busy urban centers across sub-Saharan Africa. Moreover, we concomitantly collected data on the roost sizes and precipitation levels over time, and we established the reproductive periods through the year (birth pulse, weaning of pups, and the rest of the year). The reproductive periods were based on previous literature on *Eidolon helvum* and PREDICT data from other locations in Tanzania.

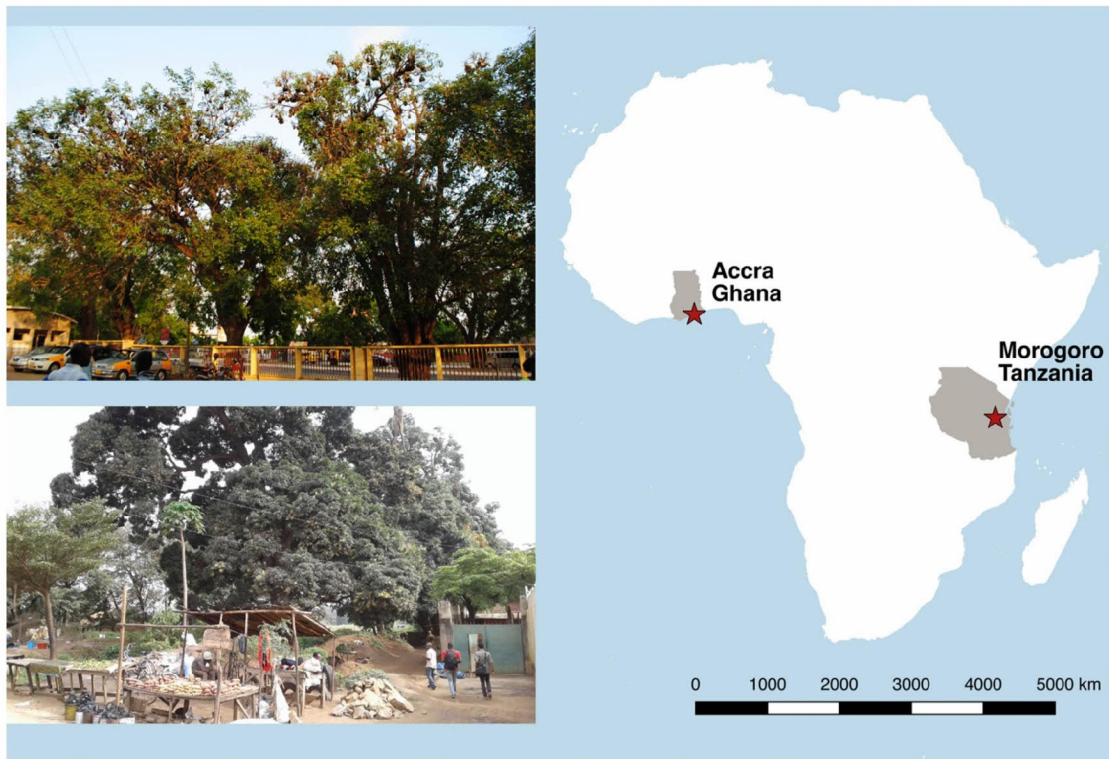


Figure 1. Location of the assessed *E. helvum* roost in Accra, Ghana, and in Morogoro, Tanzania.

The frames at the left shows some of the trees occupied at former and later colonies, respectively.

Data from over two thousand samples revealed three patterns consistent in both colonies: i) CoV shedding varied over time; ii) CoV shedding peaked during the period pups are being weaned; and iii) CoV shedding peaked during the wet season (Fig. 2).

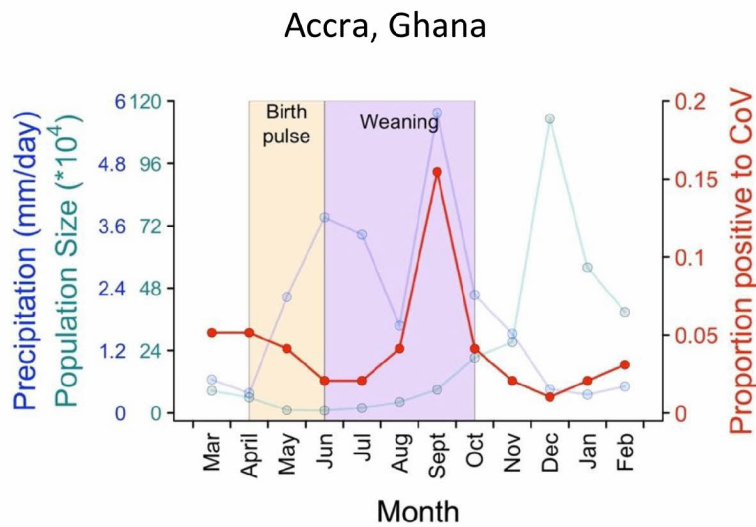
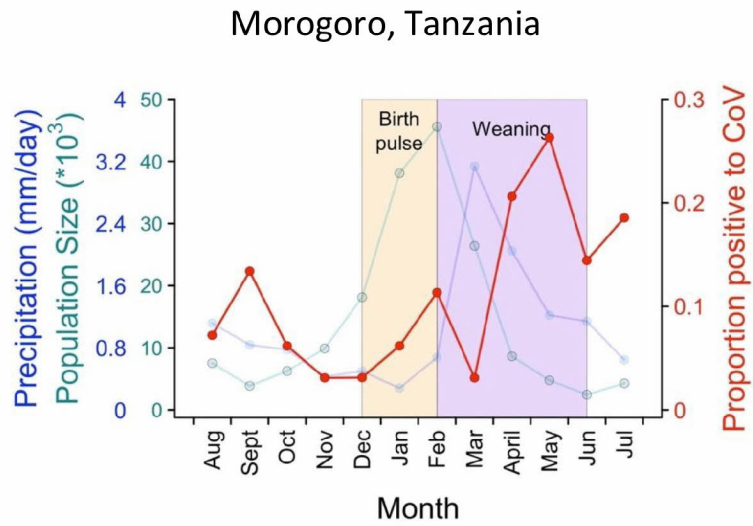


Figure 2. . Monthly *Eidolon helvum* roost size (green dots and line), precipitation (mm/day; grey dots and lines), and the proportion of *E. helvum* feces that were found positive for coronaviruses (red dots and lines) in Morogoro, Tanzania, between August 2017 and July 2018; and in Accra, Ghana, between March 2017 and February 2018. The pale orange and purple areas show the inferred birth pulse and the weaning of pups in both colonies, respectively.

Specifically, the proportion of positive feces to CoV increased to at least 15% during the “weaning of pups” from about 5% observed in the “rest of the year” and “birth pulse” periods. The peak detection values were observed a month prior to the end of the “weaning of pups”. From this point in time, the proportion of feces positive to CoV decreases, and following the results in Accra, it stabilizes in values similar to the observed before the start of the weaning period.

Thanks to the longitudinal sampling collection in two roosts, we can observe that the increase in CoV detection occurs independently of the changes in the roost size (Accra). This conclusion would not have been possible if only a single colony had been studied. In Morogoro, the weaning period matched the peak in colony size; therefore, if the study had only included this roost, higher CoV detections would have seemed positively associated with colony size. Finally, the birth pulse–weaning of pups periods matched the wet season in both cases. This concomitance is expected as *E. helvum* seems to have adapted to wean at the end of the wet season when more fruit is available for juveniles becoming independent of the dams^{2,3}.

Conclusion: Data strongly supports the association between CoV shedding in urban *E. helvum* roosts and the reproductive cycle of these bats, with a significant increase in the proportion of feces positive to these viruses during the period when the pups are being weaned, and ~4 times lower detections in other seasons of the year. The detection of juvenile straw-colored fruit bats during the wet season can be useful to establish period of high shedding in unstudied urban colonies of straw-colored fruit bats across its sub-Saharan range. Because the identification of juveniles may not be easy in this species⁴, the wet season could be used as a proxy for identifying periods of high CoV shedding. The establishment of these seasons can guide spillover mitigation efforts efficiently, through mechanisms promoting the conservation of these bats. These mechanisms may include the seasonal banning of hunting or consumption of bats or the exclusion of people from the roosting grounds.

Literature cited

1. Amman BR *et al.* 2014 Marburg virus resurgence in Kitaka Mine bat population after extermination attempts, Uganda. *Emerg. Infect. Dis.* **20**, 1761–1764.
2. Mutere FA. 1967 The breeding biology of equatorial vertebrates: reproduction in the fruit bat, *Eidolon helvum*, at latitude 0 20' N. *J. Zool.* **153**, 153–161.
3. Fayenuwo JO, Halstead LB. 1974 Breeding cycle of straw-colored fruit bat, *Eidolon helvum*, at Ile-Ife, Nigeria. *J. Mammal.* **55**, 453–454.
4. Peel AJ *et al.* 2017 How does Africa's most hunted bat vary across the continent? Population traits of the straw-coloured fruit bat (*Eidolon helvum*) and its interactions with humans. *Acta Chiropt.* **19**, 77–92.

Satellite Enhanced Epidemic and Disease Network Model

Advances in mobility have enabled humans and animals to travel far and wide, and in tandem, allowed for the rapid dissemination of infectious diseases. If we can better predict how diseases spread and how they react to different interventions, we stand an improved chance of mitigating and controlling them. We developed a modeling framework using fine-grained satellite data on areas of human settlements and high-resolution population data, to build a road-connected network upon which to model disease spread. Prior to modeling disease spread, we incorporated mobility patterns in this network by estimating the commuting rates between the road-connected settlement/urban areas. We demonstrate this approach for Rwanda and simulate the spread of the 2009 pandemic H1N1 influenza across the constructed network.

Road-connected network for Rwanda

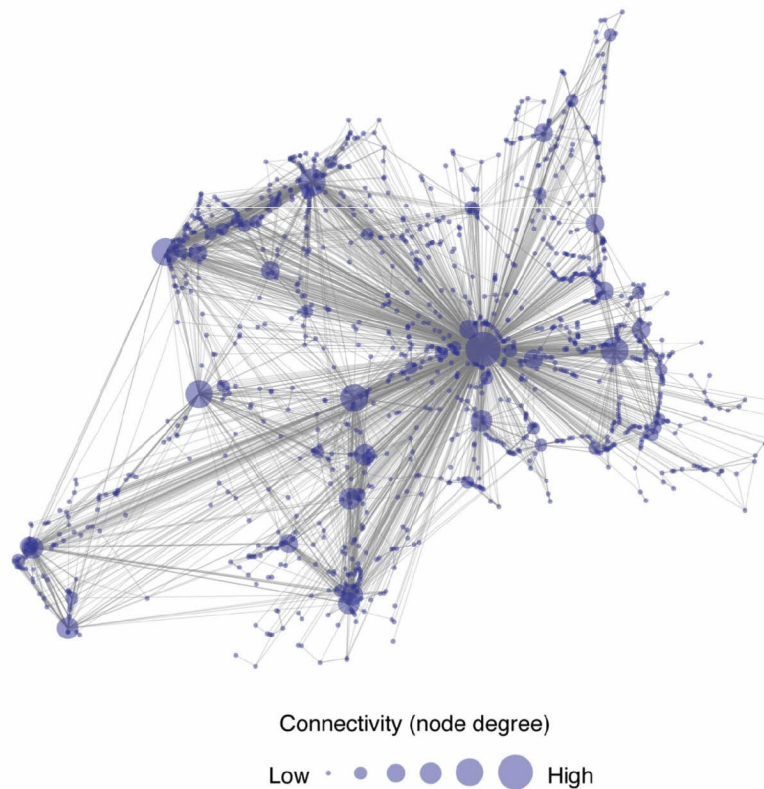


Figure 1. Map showing the connectivity of urban areas in the Rwandan human settlement network.

Modeling of H1N1 influenza outbreak across network

To test the created network as a framework upon which to model infectious diseases, we simulated the spread of pandemic influenza A H1N1 via an SEIR (susceptible, exposed, infectious, recovered) compartmental model, where the disease spread is simulated both within and between urban areas. In the SEIR model, a susceptible person becomes infected upon contact with an infectious individual and transitions to the exposed or latent compartment, after which the individual becomes infectious (symptomatic or asymptomatic) and subsequently recovers with immunity to future infections. The disease parameters used in the model were obtained from existing literature on pandemic influenza.^{1,2,3,4}

Simulation results

The simulated outbreaks accurately forecasted influenza spread in terms of outbreak lengths and the order in which areas were infected.

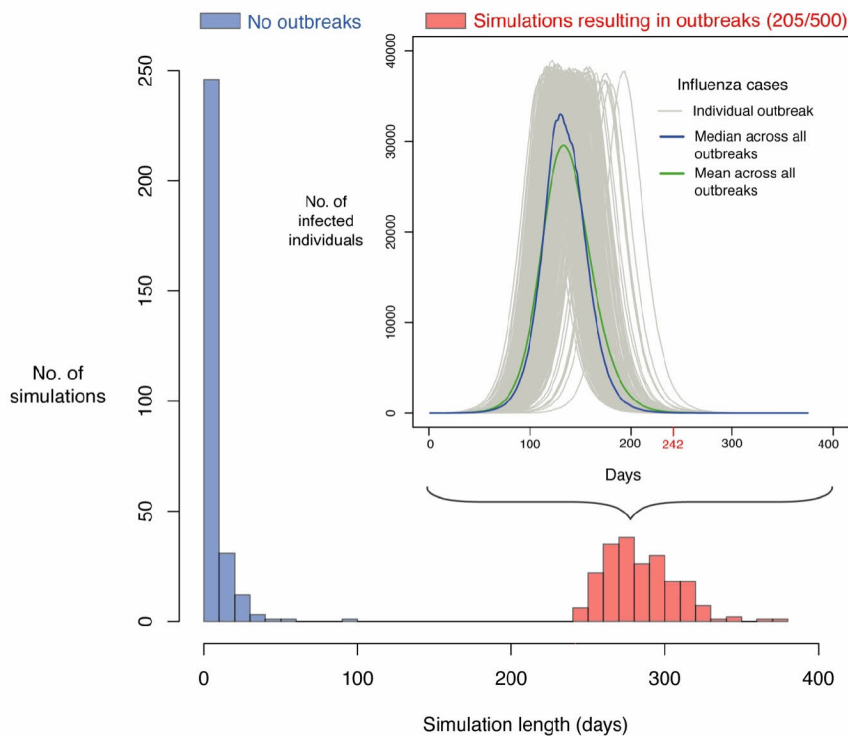


Figure 2. Histogram of simulation lengths (epidemic sizes) and inset showing infectious epidemic curves of those simulations that resulted in widespread geospatial outbreaks. The red arrow points out the reported length of the observed 2009 pH1N1 outbreak in Rwanda (242 days).

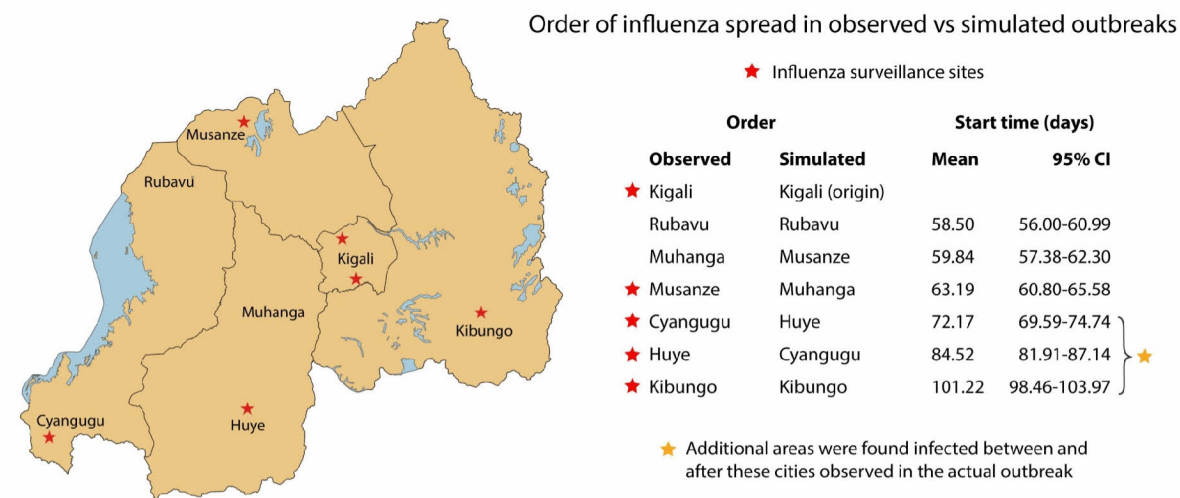


Figure 3. Comparison between observed and simulated outbreak spreads across Rwanda. Left: map showing the location of influenza surveillance sites and the cities documented to have confirmed pH1N1 influenza clusters. Right: comparison between the observed and simulated order of pandemic influenza spread in Rwanda. The dashed line depicts additional cities found to be infected during the course of simulated outbreaks.

Future directions

The modeling framework developed above has been used to write an R package which facilitate the application of this model to other diseases in different geographic regions.

References

1. Pourbohloul B, Ahued A, Davoudi B *et al.* Initial human transmission dynamics of the pandemic (H1N1) 2009 virus in north america. *Influenza Other Respi Viruses* 2009; **3**: 215–22.
2. Tuite AR, Greer AL, Whelan M *et al.* Estimated epidemiologic parameters and morbidity associated with pandemic H1N1 influenza. *CMAJ* 2010; **182**: 131–6.
3. Longini IM Jr, Nizam A, Xu S *et al.* Containing pandemic influenza at the source. *Science* 2005; **309**: 1083–7.
4. Balcan D, Gonçalves B, Hu H, Ramasco JJ, Colizza V, Vespignani A. Modeling the spatial spread of infectious diseases: The GLobal epidemic and mobility computational model. *J Comput Sci* 2010; **1**: 132–45.

From: Andrew Clements <aclements@usaid.gov>
To: Brian Bird <bhbird@ucdavis.edu>
CC: David J Wolking <djwolk@gmail.com>; Jonna Mazet
<jkmazet@ucdavis.edu>; predictmgt@usaid.gov <predictmgt@usaid.gov>
Sent: 9/25/2019 1:59:02 AM
Subject: Re: Check in

Thanks. I assumed these discussions have taken place (and will be discussed during your visit) so was unsure why she was asking.

*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*

On Sep 24, 2019, at 11:20 PM, Brian Bird <bhbird@ucdavis.edu> wrote:

Yes. We should be able to clarify all of these with Monica this week since I'm here in Freetown for the next several days. I'd sent an earlier draft of equipment and plans that we had discussed during my last trip, and we can close the loop on everything to make for a tidy wrap-up of the project on Friday.

B

On Tue, Sep 24, 2019 at 7:21 PM Andrew Clements <aclements@usaid.gov> wrote:
Can you follow up with Monica? 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*

Begin forwarded message:

From: Monica Dea <mdea@usaid.gov>
Date: September 24, 2019 at 9:19:10 PM GMT+2
To: aclements@usaid.gov
Subject: Check in

Hi Andrew,
I hope all is well.
Can you please help me with the process for assets disposition? What are the parameters and who will make the final decision? How much time we have to have this completed?
Also, do you have the SL draft report?
I appreciate all your help and support.
Thank you.

Sent from my iPhone

--

Brian Bird, UC Davis, sent from mobile device

From: Peter Daszak <daszak@ecohealthalliance.org>
To: Elizabeth Leasure <ealeasure@UCDAVIS.EDU>, Evelyn Luciano <luciano@ecohealthalliance.org>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, predict Sympa List <predict@ucdavis.edu>, Armine Arustamyan <arustamyan@ecohealthalliance.org>, Aleksei Chmura <chmura@ecohealthalliance.org>, Alison Andre <andre@ecohealthalliance.org>
Subject: RE: EHA sub available balance as of Sept 1 (PREDICT)
Sent: Thu, 3 Oct 2019 16:54:53 +0000

Can't do right now – I've got a call with the NAM Forum – free after that... Alison can let you know

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
Website: www.ecohealthalliance.org
Twitter: [@PeterDaszak](https://twitter.com/PeterDaszak)

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: Elizabeth Leasure [mailto:ealeasure@UCDAVIS.EDU]
Sent: Thursday, October 3, 2019 12:43 PM
To: Peter Daszak; Evelyn Luciano
Cc: Jonna Mazet; predict Sympa List; Armine Arustamyan; Aleksei Chmura
Subject: RE: EHA sub available balance as of Sept 1 (PREDICT)

We're free right now. Does that work?

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

From: Elizabeth Leasure
Sent: Thursday, October 3, 2019 9:08 AM
To: Peter Daszak <daszak@ecohealthalliance.org>; Evelyn Luciano <luciano@ecohealthalliance.org>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>; predict Sympa List <predict@ucdavis.edu>; Armine Arustamyan <arustamyan@ecohealthalliance.org>; Aleksei Chmura <chmura@ecohealthalliance.org>
Subject: RE: EHA sub available balance as of Sept 1 (PREDICT)

Thanks, Evelyn and Peter. I'll follow up with Jonna about times and get back to you.

Elizabeth Leasure

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

From: Peter Daszak <daszak@ecohealthalliance.org>
Sent: Thursday, October 3, 2019 6:08 AM
To: Evelyn Luciano <luciano@ecohealthalliance.org>; Elizabeth Leasure <ealeasure@UCDAVIS.EDU>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>; predict Sympa List <predict@ucdavis.edu>; Armine Arustamyan <arustamyan@ecohealthalliance.org>; Aleksei Chmura <chmura@ecohealthalliance.org>
Subject: RE: EHA sub available balance as of Sept 1 (PREDICT)

Great – look forward to talking...

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
Website: www.ecohealthalliance.org
Twitter: [@PeterDaszak](https://twitter.com/PeterDaszak)

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: Evelyn Luciano
Sent: Thursday, October 3, 2019 8:50 AM
To: Elizabeth Leasure
Cc: Peter Daszak; Jonna Mazet; predict Sympa List; Armine Arustamyan; Aleksei Chmura
Subject: Re: EHA sub available balance as of Sept 1 (PREDICT)

Hi Liz,

Apologies for not responding sooner. I am just seeing your message, as I left early yesterday. If you and Jonna are available today, we'd be happy to connect this afternoon. Let me know what might work for you and Jonna.

Thanks.

Evelyn

On Oct 2, 2019, at 4:27 PM, Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

Hi Evelyn and Peter. Jonna and I are both available for a call from now until the end of your work day, so please let us know when you can hop on a call. We'll use the same Zoom link as yesterday.

<https://onehealth.zoom.us/j/401896666>

Thanks,
Liz

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

From: Elizabeth Leasure

Sent: Wednesday, October 2, 2019 12:33 PM

To: Evelyn Luciano <luciano@ecohealthalliance.org>

Cc: Peter Daszak <daszak@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>; predict Sympa List <predict@ucdavis.edu>; Armine Arustamyan <arustamyan@ecohealthalliance.org>; Aleksei Chmura <chmura@ecohealthalliance.org>

Subject: RE: EHA sub available balance as of Sept 1 (PREDICT)

Hi Evelyn. I understand your logic, but given the uncertainty as to when/if the remaining \$1.8M will be received, you really cannot include funds not yet obligated by USAID in your planning. The funds for Bangladesh and Bali are fine to include because UCD has that money in-hand and can obligate the funds immediately, but anything above and beyond that amount is tentative and should not be factored in when discussing available fund balances at this point in the project. Based on your email, it sounds like you agree that the \$290K figure remaining as of the August invoice plus the \$198K pending obligation for Bangladesh and Bali leaves you with \$488K until USAID obligates additional money. Given this, I think we can proceed with trying our call again.

I'm open the rest of today, but please let me know when you and Peter are available in the next couple hours.

Thanks,
Liz

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

From: Evelyn Luciano <luciano@ecohealthalliance.org>

Sent: Wednesday, October 2, 2019 12:06 PM

To: Elizabeth Leasure <ealeasure@UCDAVIS.EDU>

Cc: Peter Daszak <daszak@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>; predict Sympa List <predict@ucdavis.edu>; Armine Arustamyan <arustamyan@ecohealthalliance.org>; Aleksei Chmura <chmura@ecohealthalliance.org>

Subject: Re: EHA sub available balance as of Sept 1 (PREDICT)

Hi Liz,

I've compared your records to ours and we agree on the total amendment amounts received to date for Y1-Y5 of \$42,928,923 (off by \$2). Our billed amounts to date are slightly off (by around \$600 only) so we're looking into our records to figure this out. However, last year, we submitted a budget of \$10,632,995 for Y5 which was approved by USAID and which we've been working with, having now committed to PREDICT expenses. For Y5, specifically, we have

only received \$9,896,012 (in 9 amendments), hence the remaining \$736,983 we are still waiting for. Once we get the 188K for Bangladesh, the remaining amount would then be \$548,983. Does that make sense to you at this point?

Let me know your thoughts.

Thanks.

Evelyn

On Oct 1, 2019, at 5:57 PM, Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

Hi Evelyn and Peter. My records show a total of \$42,638,783 spent from October 2014-August 2019 (summary below). With a total of \$42,928,921 obligated to date (summary below), a balance of \$290,139 is remaining to be spent. This amount is approximately \$60K more than the balance reflected in the invoicing/reporting spreadsheets as of August, so I'll need to dig into this further to see where the problem is with regard to the reporting templates. That said, based on obligations less expenditures, \$290K is the available balance figure that we need to work with, as this is the available balance reflected on the UCD ledgers. \$290K plus the \$188K additional for Bangladesh and \$10K additional for Bali leaves you with **\$488K total to spend until we get additional funding from USAID**. I won't have time to dig into where the reporting spreadsheet issue is until at least mid-October, but I don't think the details on that need to be worked out in order for tomorrow's call to be productive. Hopefully the information below will help you figure things out on your end. Thanks!

	FY15	FY16	FY17	FY18	FY19
October		273,994	728,101	705,332	580,970
November		295,833	811,385	823,765	602,350
December	589,823	259,943	470,892	915,017	784,024
January	213,018	378,950	594,022	1,064,415	740,933
February	412,356	496,281	861,196	985,205	1,338,646
March	437,549	557,588	798,431	1,149,867	808,852
April	309,868	751,875	613,036	1,077,505	1,114,796
May	192,684	827,294	848,022	810,775	898,058
June	433,176	733,297	886,791	1,007,322	932,580
July	510,945	989,736	1,233,802	592,256	1,408,851
August	549,708	633,358	919,433	1,204,861	630,886

September	550,873	681,301	1,019,056	1,597,901		
		6,879,449	9,784,167	11,934,221	9,840,946	42,638,783
	4,200,000					

<image002.png>

Elizabeth Leasure

Financial Operations Manager

One Health Institute

REDACTED (cell)

530-754-9034 (office)

Skype: ealeasure

From: Andrew Clements <aclements@usaid.gov>
Sent: Mon, 28 Oct 2019 12:12:12 -0700
Subject: Re: Request for PREDICT-2 Key Personnel change
To: Jonna Mazet <jkmazet@ucdavis.edu>
Cc: Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>

Maybe this is a good time to think about a new staffing structure for the next 5 months since the LOE for the key positions will be different than it was before. Might there be cost savings that could be used for activities? Feel free to propose....

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

On Oct 28, 2019, at 8:05 PM, Andrew Clements <aclements@usaid.gov> wrote:

An option OAA might consider is dropping the overall COP LOE to 80% and having Chris do all of that 80%.

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

On Oct 28, 2019, at 7:45 PM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Well, yes, as I am stepping out of that position & into a different one, similar to Peter & rest of EB. So Chris would in fact be serving in 2 of the key personnel positions at 80%. If you prefer to handle it a different way, please advise. For example, Chris & I could switch key personnel positions with me dropping to 25% of her previous 80% time as head of surveillance to wrap up that portion of the project. In every scenario, the change represents a decrease in our combined effort in recognition of the lack of funding currently available to complete the project & the reduction in oversight of in-country activities that have wrapped-up.
Let us know how you'd like to proceed,
Jonna

On Mon, Oct 28, 2019 at 10:08 AM Andrew Clements <aclements@usaid.gov> wrote:

Jonna continuing at 25% level of effort with PREDICT-2 + 80% with Chris as Director sounds like 105% LOE for this position. Are we reading this incorrectly?

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

From: Jonna Mazet <jkmazet@ucdavis.edu>
Date: Mon, Oct 21, 2019 at 5:21 AM
Subject: Request for PREDICT-2 Key Personnel change
To: PREDICTMGT <predictmgt@usaid.gov>
Cc: Predict inbox <predict@ucdavis.edu>

Dear Andrew and Alisa,
UC Davis is requesting a modification to PREDICT-2 project (Cooperative Agreement AID-OAA-A-14-

00102) Key Personnel regarding my role as Director. As you know, I have served as the Global Director and Principal Investigator for the project over the lifetime of the award. It has been a very rewarding professional experience to have been facilitating the amazing work of our qualified and talented team spanning many organizations, disciplines, and geographic regions. The PREDICT-2 project is now ramping down into the wrap-up and reporting stage. Thus there is a reduction in international coordination work, and we have a strong and capable deputy in Dr. Christine Kreuder Johnson available to lead us through this final phase. We also have a limited amount of funding available to complete the analyses and reporting in the remaining funded period, and any financial efficiencies we can find will help us achieve an optimal outcome. I will retain financial and compliance responsibility as the Principal Investigator for the University of California.

With the reduction of day-to-day responsibilities on PREDICT-2 and according to the details provided in our recently successful application for USAID's newly awarded One Health Workforce -- Next Generation project, I will now be transitioning to Project Director for this new project. This role requires a minimum level of effort from the project director of 75%. As a result, I have begun to transition to a supporting leadership role (Director Emeritus from a consortium perspective) with a continuing 25% level of effort with the PREDICT-2 project through the remaining period of performance.

In order to ensure adequate leadership during the final phase of the project, UC Davis proposes that Dr. Christine Kreuder Johnson, PREDICT-2's current Senior Biological and Ecological Surveillance Coordinator, take over the role of Director at 80% level of effort for the remainder of the period of performance and completion of the award, as she is well positioned to assume these duties and meets the minimum requirements for the Project Director position as outlined in the original RFA.

At this stage in the project, PREDICT-2 has completed all country-level activities and is actively closing out subawards. If approved, Dr. Johnson will continue to work with Dr. Mazet, USAID's Management Team, and PREDICT-2's Executive Board to oversee remaining close-out activities and to complete all remaining work and planned deliverables, as funding allows. This leadership transition has been discussed with you, as the project AOR (Dr. Andrew Clements) and leadership and is agreeable with PREDICT-2's consortium partners.

With less than six months remaining in the project period of performance and the majority of project activities now complete, UC Davis advises against the appointment of an external candidate in the role of PREDICT-2 Director, as recruitment and hiring procedures and onboarding of new personnel at this stage of the project would hinder, rather than enhance, our ability to successfully complete the remaining scope of work and closeout the award.

Please let us know if we can answer any questions and whether or not this arrangement is acceptable.

Thank you for the opportunity to have served in this leadership role,
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.

To view this discussion on the web visit

<https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAO5tDrE4Y2n%2BLQVvxvAqACBbaCBuA3zWP5jsv%2Btk41BMWKwN2A%40mail.gmail.com>.

From: David J Wolking <djwolking@ucdavis.edu>
Sent: Wed, 6 Nov 2019 10:31:49 -0800
Subject: Re: Peer-reviewed publications request _ FY2019 Performance Plan and Report (PPR)
To: Andrew Clements <aclements@usaid.gov>
Cc: David J Wolking <djwolking@ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>

Interesting, we'll take a look and do a pubmed or web of science search. Might be some "reporting bias" from our team ;-)
David

On Wed, Nov 6, 2019 at 3:51 AM Andrew Clements <aclements@usaid.gov> wrote:

Thanks. Seems surprising. What about Dr. Supaporn's publication on HKU-1 from a human guano miner in Thailand?

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

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

On Tue, Nov 5, 2019 at 6:58 PM David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Andrew,

We looked through our publications tracker and all of the content we received for our annual and final reports but don't have any publications from these countries (at least from PREDICT) that fall within the time period requested.

Let us know if you need anything else,

David

On Mon, Oct 28, 2019 at 7:36 AM Andrew Clements <aclements@usaid.gov> wrote:

Hi David,

Can you help with this? Seems pretty straightforward.

It says FY2019 so that would be October 1, 2018 to September 30, 2019 for any studies done in China, Laos, Thailand, and Malaysia.

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
Email: aclements@usaid.gov*

Begin forwarded message:

From: Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>
Date: October 28, 2019 at 2:32:46 PM GMT+1

To: "Clements, Andrew(ANE/TS)" <AClements@usaid.gov>, PREDICTMGT <predictmgt@usaid.gov>, Angela Wang <awang@usaid.gov>, "Amalhin Shek at ashek@usaid.gov" <ashek@usaid.gov>, Daniel Schar <dSchar@usaid.gov>, Jittinee Khienvichit <jkhienvichit@usaid.gov>

Subject: Fwd: Peer-reviewed publications request _ FY2019 Performance Plan and Report (PPR)

Dear Andrew and team,

Please see below the request that we sent to our partners for peer review publications for FY 2019 PPR. Since most PREDICT Project at the country level ended in September 2019, thus we reach out to you for information provision that cover regional, Thailand and Laos activities. Our time line to have the list of publications is Nov 5.

Thank you very much and look forward to hearing from you.

"Welcome to USAID FY2019 Performance Plan and Report (PPR) season. As previously discussed, RDMA is collecting peer-reviewed scientific publications resulting from USG support to research and implementing programs. Please submit the list of "Peer reviewed publication" by Nov. 5 COB

STIR -12 "Peer reviewed publication" are defined as and include : scientific studies published in technical journals which conduct technical peer review of the submissions as part of their decision process; technical reports that are subject to external peer-review and then disseminated; and peer-reviewed conference proceedings. Please see below an example list of publications for FY 2018 PPR.

Thank you very much for your kind assistance and collaboration upon this process"

47	F Y 18	24	GHS D	Future one health workforce for effective prevention and control of emerging infectious diseases	Saengduen, M. (et al.) (2018).	June 22-25, 2018, the 5th International One Health Congress, Canada	Conferenc e	C	Ci
48	F Y 18	25	GHS D	Geographical and historical patterns in the emergences of novel highly pathogenic avian influenza (HPAI) H5 and H7 viruses in poultry	Dhingra, M.S., Artois, J., Dellicour, S., Lemey, P., Dauphin, G., Von Dobschuetz, S., Van Boeckel, T.P., Castellan, D.M., Morzaria, S., Gilbert, M., 2018.	(Journal: Frontiers in Veterinary Science 5. https://doi.org/10.3389/fvets.2018.00084)		P	
49	F Y 18	26	GHS D	Guideline on AMR Surveillance in bacteria from healthy food animals intended for consumption	Mary Joy Gordoncillo, Rungtip Chuanchuen, Taradon Luangtongkum, Saharuetai Jeamsripong, Carolyn Benigno, Katinka DeBalogh, and Wantanee Kalpravidh	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract	C	
50	F Y 18	27	GHS D	Identifying avian flu(H5N1 and H1N1) as an emerging infectious disease to threaten both human and animal health especially to immunologically naive communities.	Masibulele, SZ. (et al.) (2018)	June 22-25, 2018, the 5th International One Health Congress, Canada	Conferenc e	C	Ci

51	F Y 18	28	GHS D	Longitudinal study of age-specific pattern of coronavirus infection in Lyle's flying fox (<i>Pteropus lylei</i>) in Thailand	Wacharapluesadee S, Duengkae P, Chaiyes A, Kaewpom T, Rodpan A, Yingsakmongkon S, Petcharat S, Phengsakul P, Maneeorn P, Hemachudha T.	Virologia. 2018 Feb 20;15(1):38	Peer-reviewed journal	P	Th
52	F Y 18	29	GHS D	Manual for laboratory diagnosis of Leptospirosis one health approach	Sitti Khairni Bejo (et al.) (2018)	First Print Universiti Putra Malaysia Press	Book	T	
53	F Y 18	30	GHS D	Middle East Respiratory Syndrome Coronavirus Antibodies in Dromedary Camels, Bangladesh, 2015	Ariful Islam, Jonathan H. Epstein, Melinda K. Rostal, Shariful Islam, Mohammed Ziaur Rahman, Mohammed Enayet Hossain, Mohammed Salim Uzzaman, Vincent J. Munster, Malik Peiris, Meerjady Sabrina Flora, Mahmudur Rahman, and Peter Daszak.	Emerging Infectious Diseases Volume 24, Number 5. May 2018	Peer-reviewed journal	P	Bh
54	F Y 18	31	GHS D	One Health approach involving rabies control and prevention in Thailand	Sivapong, S (et al.) (2018)	Aug 26-29, 2018, International Conference on Emerging Infectious Diseases, Georgia, USA.	Conference	C	U:
55	F Y 18	32	GHS D	One health implementation for prevention and control intestinal parasite infection in under-privileged communities of Thai-Myanmar border	Aulia,RP (et al.) (2018).	June 22-25, 2018, the 5th International One Health Congress, Canada	Conference	C	Ci
56	F Y 18	33	GHS D	Organophosphorus flame retardants (PFRs) and phthalates in floor and road dust from a manual e-waste dismantling facility and adjacent communities in Thailand	Dudsadee Muenhor, Hyo-Bang Moon, Sunggyu Lee & Emma Goosey (2018).	Journal of Environmental Science and Health, Part A, Environmental Management, Prince of Songkla University	Peer-reviewed journal	P	Th
57	F Y 18	34	GHS D	Participatory One Health Disease Detection (PODD): A Novel Approach for Community-Based Reporting of Emerging Infectious Diseases	Assoc.Prof.Dr. Lertrak Srikiyakarn (et al) (2018)	29 Jan-3 Feb, 2018, Prince Mahidol Award Conference, 2018, Thailand	Conference	C	Th
58	F Y 18	35	GHS D	Pilot surveillance study on Extended Spectrum Beta-Lactamase (ESBL)-producing <i>E. coli</i> in commercial broiler	Romeo S. Gundran, Paul A. Cardenio, Fredelon B. Sison, Carolyn C. Benigno	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract	C	

				farms in Central Luzon, Philippines						
59	F Y 18	36	GHS D	Polybrominated diphenyl ethers (PBDEs) in floor and road dust from a manual e-waste dismantling facility and adjacent communities in Thailand	Dudsadee Muenhor, Hyo-Bang Moon, Sunggyu Lee & Emma Goosey (2018)	Journal of Environmental Science and Health, Part A, Environmental Management, Prince of Songkla University	Peer-reviewed journal		P	Th
60	F Y 18	37	GHS D	Predicting risk zones of Nipah virus from foraging utilization of Lely's flying fox (Pteropus lylei) in eastern Thailand	Aingorn, C (et al.) (2018)	April 26-27, 2018, International Conference of Agriculture and Natural Resources (ANRES), Bangkok, Thailand	Conference		C	Th
61	F Y 18	38	GHS D	Prevalence and AMR pattern of Extended Spectrum Beta-Lactamase (ESBL)- producing E. coli in commercial swine farms in Central Luzon, Philippines	Romeo S. Gundran, Paul A. Cardenio, Fredelon B. Sison, Carolyn C. Benigno	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract		C	
62	F Y 18	39	GHS D	Rabies	Fooks AR, Cliquet F, Finke S, Freuling C, Hemachudha T, Mani RS, Müller T, Nadin-Davis S, Picard-Meyer E, Wilde H, Banyard AC.	Nat Rev Dis Primers. 2017 Nov 30;3:17091	Peer-reviewed journal		P	Th
63	F Y 18	40	GHS D	Spotted Fever Rickettsiosis in a Wildlife Researcher in Sabah, Malaysia: A Case Study	Salgado Lynn, M.; William, T.; Tanganuchitcharnchai, A.; Jintaworn, S.; Thaipadungpanit, J.; Lee, M.H.; Jalius, C.; Daszak, P.; Goossens, B.; Hughes, T.; Blacksell, S.D.	Trop. Med. Infect. Dis. 2018, 3, 29.	Peer-reviewed journal		P	M
64	F Y 18	41	GHS D	Supporting Asia's Food and Agriculture Sector in implementing the Global Action Plan on AMR	Carolyn Benigno	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract		C	
65	F Y 18	42	GHS D	Synchronized surveillance at the wildlife-livestock-human interface in thailand: a novel approach to early detection of viral transmission across species interfaces	Weerapong, T. (et al.) (2018)	June 22-25, 2018, the 5th International One Health Congress, Canada	Conference		C	Ci
66	F Y 18	43	GHS D	The impact of surveillance and control on highly pathogenic avian influenza outbreaks	Edward M. Hill Thomas House, Madhur S. Dhingra, Wantanee Kalpravidh, Subhash Morzaria, Muzaffar	September 2018 (Journal: http://dx.doi.org/10.1371/journal.pcbi.1006439)			P	

				in poultry in Dhaka division, Bangladesh	G. Osmani, Eric Brum, Mat Yamage, Md. A. Kalam, Diann J. Prosser, John Y. Takekawa, Xiangming Xiao, Marius Gilbert, Michael J. Tildesley				
67	F Y 18	44	GHS D	The use of GIS and multisectoral policy analyses to support rabies control in Thailand	Anuwat, W. (et al.) (2018).	April 28-May 3, 2018. iCOMOS Conference, Minnesota, USA	Conferenc e	C	U:
68	F Y 18	45	GHS D	Transforming Capacities on AMR Surveillance in Food And Agriculture in Asia: A Programmatic Approach.	Mary Joy Gordoncillo, Carolyn Benigno,, Katinka de Balogh, Wantanee Kalpravidh, and Rungtip Chuanchuen.	2nd OIE Global Conference on Antimicrobial Resistance and Prudent Use of Antimicrobial Agents in Animals. Marrakesh, Morocco 29-31 October 2018	Poster	C	

Best regards,
Sudarat Damrongwatanapokin, D.V.M., Ph.D.
Regional Animal Health Advisor
USAID Regional Development Mission Asia

REDACTED
REDACTED
REDACTED

From: David J Wolking <djwolking@ucdavis.edu>
Sent: Tue, 12 Nov 2019 10:50:53 -0800
Subject: Re: Peer-reviewed publications request _ FY2019 Performance Plan and Report (PPR)
To: Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>
Cc: Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, "Prof. Jonna Mazet" <jkmazet@ucdavis.edu>, Daniel Schar <dSchar@usaid.gov>, "Andrew(ANE/TS) Clements" <AClements@usaid.gov>, PREDICTMGT <PREDICTmgt@usaid.gov>, Jittini Khienvichit <jkhienvichit@usaid.gov>, Kevin Nicolas Gonzalez <kngonzalez@ucdavis.edu>
[FY2019 Performance Plan and Report Publication Thailand.docx](#)

Hi Sudarat,

After an extensive search, it appears the only pub we have is from these countries during this time period is from our Thailand team, who provided them directly to you. I'm attaching what they shared, which includes one PREDICT related manuscript but that largely captures work from their USAID-funded Zika project.

Hope this helps,

David

On Mon, Nov 11, 2019 at 4:03 PM Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

Dear Davi,

Thank you very much. Just want to highlight that the request focusing on those peer-reviewed publications, abstracts (conferences, proceedings), tools /guidelines during Oct 2018 - Sep 2019.

Best regards,
Sudarat Damrongwatanapokin, D.V.M., Ph.D.
Regional Animal Health Advisor

REDACTED

On Mon, Nov 11, 2019 at 11:14 PM David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Sudarat,

After hearing from Andrew, we looked into this using our M&E system, checked in with global leads for these countries on a few calls, and screened P2 reports from the last year but did not turn up any peer reviewed publications from these countries in that search unfortunately. I am having staff do a quick search in PubMed and Web of Science for team members from these countries in case there were publications that slipped through the cracks in our reporting structure. Today is a holiday in the US but I should have results from that search tomorrow.

Best,

David

On Sun, Nov 10, 2019 at 6:01 AM Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

Dear David,

Just want to follow up with you regarding FY 2019 peer-reviewed publication for Burma, China, Laos, Malaysia, and Thailand that are supported by USAID/PREDICT Project. The due date was Nov 5 which was linked to RDMA's timeline for PPR submission.

Thank you very much for your kind consideration and cooperation upon this request.

Look forward to hearing from you at your earliest convenience.

Best regards,
Sudarat

Sent from my mobile.

Begin forwarded message:

From: Andrew Clements <aclements@usaid.gov>
Date: October 28, 2019 at 9:37:31 PM GMT+7
To: "Sudarat Damrongwatanapokin (RDMA/OPH)" <sDamrongwatanapokin@usaid.gov>, "Daniel Schar (RDMA/OPH)" <dSchar@usaid.gov>
Subject: Fwd: Peer-reviewed publications request _ FY2019 Performance Plan and Report (PPR)

Sent your request to Predict HQ

*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*

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Cc: Christine Kreuder Johnson <ckjohaclements@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, predictmgt@usaid.gov

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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
Email: aclements@usaid.gov*

Begin forwarded message:

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Date: October 28, 2019 at 2:32:46 PM GMT+1
To: "Clements, Andrew(ANE/TS)" <AClements@usaid.gov>, PREDICTMGT
<predictmgt@usaid.gov>, Angela Wang <awang@usaid.gov>, "Amalhin Shek at
ashek@usaid.gov" <ashek@usaid.gov>, Daniel Schar <dSchar@usaid.gov>,
Jittinee Khienvichit <jkhienvichit@usaid.gov>
Subject: Fwd: Peer-reviewed publications request _ FY2019 Performance Plan and Report (PPR)

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discussed, RDMA is collecting peer-reviewed scientific publications
resulting from USG support to research and implementing programs.
Please submit the list of "Peer reviewed publication" by Nov. 5 COB*

*STIR -12 "Peer reviewed publication" are defined as and include : scientific
studies published in technical journals which conduct technical peer
review of the submissions as part of their decision process; technical
reports that are subject to external peer-review and then disseminated;
and peer-reviewed conference proceedings. Please see below an
example list of publications for FY 2018 PPR.*

Thank you very much for your kind assistance and collaboration upon this process"

47	F Y 18	24	GHS D	Future one health workforce for effective prevention and control of emerging infectious diseases	Saengduen, M. (et al.) (2018).	June 22-25, 2018, the 5th International One Health Congress, Canada	Co e
48	F Y 18	25	GHS D	Geographical and historical patterns in the emergences of novel highly pathogenic avian influenza (HPAI) H5 and H7 viruses in poultry	Dhingra, M.S., Artois, J., Dellicour, S., Lemey, P., Dauphin, G., Von Dobschuetz, S., Van Boeckel, T.P., Castellan, D.M., Morzaria, S., Gilbert, M., 2018.	(Journal: Frontiers in Veterinary Science 5. https://doi.org/10.3389/fvets.2018.00084)	
49	F Y 18	26	GHS D	Guideline on AMR Surveillance in bacteria from healthy food animals intended for consumption	Mary Joy Gordoncillo, Rungtip Chuanchuen, Taradon Luangtongkum, Saharuetai Jeamsripong, Carolyn Benigno, Katinka DeBalogh.	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Ab:

					and Wantanee Kalpravidh		
50	F Y 18	27	GHS D	Identifying avian flu(H5N1 and H1N1) as an emerging infectious disease to threaten both human and animal health especially to immunologically naïve communities.	Masibulele, SZ. (et al.) (2018)	June 22-25, 2018, the 5th International One Health Congress, Canada	Core
51	F Y 18	28	GHS D	Longitudinal study of age-specific pattern of coronavirus infection in Lyle's flying fox (Pteropus lylei) in Thailand	Wacharapluesadee S, Duengkae P, Chaibes A, Kaewpom T, Rodpan A, Yingsakmongkon S, Petcharat S, Phengsakul P, Maneorn P, Hemachudha T.	Virol J. 2018 Feb 20;15(1):38	Peer review journal
52	F Y 18	29	GHS D	Manual for laboratory diagnosis of Leptospirosis one health approach	Sitti Khairni Bejo (et al.) (2018)	First Print Universiti Putra Malaysia Press	Book
53	F Y 18	30	GHS D	Middle East Respiratory Syndrome Coronavirus Antibodies in Dromedary Camels, Bangladesh, 2015	Ariful Islam, Jonathan H. Epstein, Melinda K. Rostal, Shariful Islam, Mohammed Ziaur Rahman, Mohammed Enayet Hossain, Mohammed Salim Uzzaman, Vincent J. Munster, Malik Peiris, Meerjady Sabrina Flora, Mahmudur Rahman, and Peter Daszak.	Emerging Infectious Diseases Volume 24, Number 5. May 2018	Peer review journal
54	F Y 18	31	GHS D	One Health approach involving rabies control and prevention in Thailand	Sivapong, S (et al.) (2018)	Aug 26-29, 2018, International Conference on Emerging Infectious Diseases, Georgia, USA.	Core
55	F Y 18	32	GHS D	One health implementation for prevention and control intestinal parasite infection in under-privileged communities of Thai-Myanmar border	Aulia,RP (et al.) (2018).	June 22-25, 2018, the 5th International One Health Congress, Canada	Core
56	F Y 18	33	GHS D	Organophosphorus flame retardants (PFRs) and phthalates in floor and road dust from a manual e-waste dismantling facility and adjacent communities in Thailand	Dudsadee Muenhor, Hyo-Bang Moon, Sunggyu Lee & Emma Goosey (2018).	Journal of Environmental Science and Health, Part A, Environmental Management, Prince of Songkla University	Peer review journal
57	F Y 18	34	GHS D	Participatory One Health Disease	Assoc.Prof.Dr. Lertrak Srikiyakarn (et al) (2018)	29 Jan-3 Feb, 2018, Prince Mahidol Award Conference. 2018. Thailand	Core

	18				Detection (PODD): A Novel Approach for Community-Based Reporting of Emerging Infectious Diseases			
58	F Y	18	35	GHS D	Pilot surveillance study on Extended Spectrum Beta-Lactamase (ESBL)-producing E. coli in commercial broiler farms in Central Luzon, Philippines	Romeo S. Gundran, Paul A. Cardenio, Fredelon B. Sison, Carolyn C. Benigno	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract
59	F Y	18	36	GHS D	Polybrominated diphenyl ethers (PBDEs) in floor and road dust from a manual e-waste dismantling facility and adjacent communities in Thailand	Dudsadee Muenhor, Hyo-Bang Moon, Sunggyu Lee & Emma Goosey (2018)	Journal of Environmental Science and Health, Part A, Environmental Management, Prince of Songkla University	Peer review journal
60	F Y	18	37	GHS D	Predicting risk zones of Nipah virus from foraging utilization of Lely's flying fox (Pteropus lylei) in eastern Thailand	Aingorn, C (et al.) (2018)	April 26-27, 2018, International Conference of Agriculture and Natural Resources (ANRES), Bangkok, Thailand	Conference
61	F Y	18	38	GHS D	Prevalence and AMR pattern of Extended Spectrum Beta-Lactamase (ESBL)- producing E. coli in commercial swine farms in Central Luzon, Philippines	Romeo S. Gundran, Paul A. Cardenio, Fredelon B. Sison, Carolyn C. Benigno	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract
62	F Y	18	39	GHS D	Rabies	Fooks AR, Cliquet F, Finke S, Freuling C, Hemachudha T, Mani RS, Müller T, Nadin-Davis S, Picard-Meyer E, Wilde H, Banyard AC.	Nat Rev Dis Primers. 2017 Nov 30;3:17091	Peer review journal
63	F Y	18	40	GHS D	Spotted Fever Rickettsiosis in a Wildlife Researcher in Sabah, Malaysia: A Case Study	Salgado Lynn, M.; William, T.; Tanganuchitcharnchai, A.; Jintaworn, S.; Thaipadungpanit, J.; Lee, M.H.; Jalius, C.; Daszak, P.; Goossens, B.; Hughes, T.; Blacksell, S.D.	Trop. Med. Infect. Dis. 2018, 3, 29.	Peer review journal
64	F Y	18	41	GHS D	Supporting Asia's Food and Agriculture Sector in implementing the Global Action Plan on AMR	Carolyn Benigno	85th PVMA Annual Convention and Scientific Conference. Manila, Philippines. 2018	Abstract
65	F Y		42	GHS D	Synchronized surveillance at the	Weerapong, T. (et al.) (2018)	June 22-25, 2018, the 5th International One Health Congress. Canada	Conference

	18			wildlife-livestock-human interface in thailand: a novel approach to early detection of viral transmission across species interfaces			
66	F Y 18	43	GHS D	The impact of surveillance and control on highly pathogenic avian influenza outbreaks in poultry in Dhaka division, Bangladesh	Edward M. Hill Thomas House, Madhur S. Dhingra, Wantanee Kalpravidh, Subhash Morzaria, Muzaffar G. Osmani, Eric Brum, Mat Yamage, Md. A. Kalam, Diann J. Prosser, John Y. Takekawa, Xiangming Xiao, Marius Gilbert, Michael J. Tildesley	September 2018 (Journal: http://dx.doi.org/10.1371/journal.pcbi.1006439)	
67	F Y 18	44	GHS D	The use of GIS and multisectoral policy analyses to support rabies control in Thailand	Anuwat, W. (et al.) (2018).	April 28-May 3, 2018. iCOMOS Conference, Minnesota, USA	Core
68	F Y 18	45	GHS D	Transforming Capacities on AMR Surveillance in Food And Agriculture in Asia: A Programmatic Approach.	Mary Joy Gordoncillo, Carolyn Benigno,, Katinka de Balogh, Wantanee Kalpravidh, and Rungtip Chuanchuen.	2nd OIE Global Conference on Antimicrobial Resistance and Prudent Use of Antimicrobial Agents in Animals. Marrakesh, Morocco 29-31 October 2018	Pos

Best regards,
Sudarat Damrongwatanapokin, D.V.M., Ph.D.
Regional Animal Health Advisor
USAID Regional Development Mission Asia

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FY2019 Performance Plan and Report (PPR)

No.	Title	Authors	Journal/Date	Type	Project
1	First Complete Genome Sequence of Human Coronavirus HKU1 from a Nonill Bat Guano Miner in Thailand.	Joyjinda Y, Rodpan A, Chartpituck P, Suthum K, Yaemsakul S, Cheun-Arom T, Bunprakob S, Olival KJ, Stokes MM, Hemachudha T, Wacharapluesadee S.	Microbiol Resour Announc. 2019 Feb 7;8(6). pii: e01457-18. doi: 10.1128/MRA.01457-18	Peer-reviewed journal	PREDICT
2	Molecular Epidemiology and Genetic Diversity of Zika Virus from Field-Caught Mosquitoes in Various Regions of Thailand.	Phumee A, Buathong R, Boonserm R, Intayot P, Aungsananta N, Jittmittraphap A, Joyjinda Y, Wacharapluesadee S, Siriyasatien P.	Pathogens. 2019 Mar 6;8(1). pii: E30. doi: 10.3390/pathogens8010030.	Peer-reviewed journal	Zika USAID
3	Lack of Transmission of Zika Virus Infection to Breastfed Infant.	Hemachudha P, Wacharapluesadee S, Buathong R, Petcharat S, Bunprakob S, Ruchiseesarod C, Roeksomtawin P, Hemachudha T.	lin Med Insights Case Rep. 2019 Mar 12;12:1179547619835179. doi: 10.1177/1179547619835179.	Peer-reviewed journal	Zika USAID
4	Vertical transmission of Zika virus in Culex quinquefasciatus Say and Aedes aegypti (L.) mosquitoes.	Phumee A, Chompoosri J, Intayot P, Boonserm R, Boonyasuppayakorn S, Buathong R, Thavara U, Tawatsin A, Joyjinda Y, Wacharapluesadee S, Siriyasatien P.	Sci Rep. 2019 Mar 27;9(1):5257. doi: 10.1038/s41598-019-41727-8.	Peer-reviewed journal	Zika USAID
5	Genetic Characterization of Chikungunya Virus in Field-Caught Aedes aegypti Mosquitoes Collected during the Recent Outbreaks in 2019, Thailand.	Intayot P, Phumee A, Boonserm R, Sor-Suwan S, Buathong R, Wacharapluesadee S, Brownell N, Poovorawan Y, Siriyasatien P.	Pathogens. 2019 Aug 2;8(3). pii: E121. doi: 10.3390/pathogens8030121.	Peer-reviewed journal	Zika USAID
6	An integrated strategy combining consensus PCR and NGS for whole	Supaporn Wacharapluesadee, Yutthana Joyjinda, Apaporn	BTRP 2019 Science Program Review 14-20 September 2019	Abstract	PREDICT

	genome sequencing of virus from biological specimens	Rodpan, Prateep Duengkae, Kevin J Olival, Thiravat Hemachudha			
7	VERTICAL TRANSMISSION OF ZIKA VIRUS IN CULEX QUINQUEFASCIATUS SAY AND AEDES AEGYPTI (L.) MOSQUITOES.	Phumee A, Chompoosri J, Intayot P, Boonserm R, Boonyasuppayakorn S, Buathong R, Tawatsin A, Joyjinda Y, Wacharapluesadee S, Siritasatien P.	Conference: 11th European Congress on Tropical Medicine and International Health. September 16 - 20, 2019, Liverpool, UK.	Abstract	Zika USAID
8	MOLECULAR EPIDEMIOLOGY AND GENETIC DIVERSITY OF ZIKA VIRUS FROM FIELD-CAUGHT MOSQUITOES IN VARIOUS REGIONS OF THAILAND.	Phumee A, Buathong R, Boonserm R, Intayot P, Aungsananta N, Jittmittraphap A, Thavara U, Joyjinda Y, Wacharapluesadee S, Siritasatien P.	11th European Congress on Tropical Medicine and International Health. September 16 -20, 2019, Liverpool, UK.	Abstract	Zika USAID
9	Zika virus serology and cross-reactive dengue antibody in Zika virus infection Thailand 2017.	Rome Buathong, Yongjua Loasiritaworn, Hataya Kanjanasombut, Chanida Ruchiseesarod, Supaporn Wacharaplusadee.	ECCMID 2019 - 29th European Congress of Clinical Microbiology and Infectious Diseases. April 13-16, 2019, Amsterdam, Natherland	Abstract	Zika USAID
10	High infection rate of zika virus in mosquitoes collected from an area of active zika virus transmission of eastern Thailand	Phumee A, Tawatsin A, Thavara U, Sirisopa P, Ritthison W, Thammakosol K, Intayot P, Wacharapluesadee S, Hemachudha T, Siritasatien P.	8th International Symposium on Molecular Insect Science. July 7-10, 2019, Sitges, nr Barcelona, Spain.	Abstract	Zika USAID

From: Peter Daszak <daszak@ecohealthalliance.org>
To: alexandra zuber <alexandrazuber@atahealthstrategies.com>, [REDACTED], [REDACTED], "wasmith@ucdavis.edu" <wasmith@ucdavis.edu>, "brpsmith@ucdavis.edu" <brpsmith@ucdavis.edu>, "snannyanzi@ohcea.org" <snannyanzi@ohcea.org>, "jklane@ucdavis.edu" <jklane@ucdavis.edu>, "oromero@haas.berkeley.edu" <oromero@haas.berkeley.edu>, "ayawe@ohcea.org" <ayawe@ohcea.org>, "inaigaga@ohcea.org" <inaigaga@ohcea.org>, [REDACTED], "aarmistad@salud.unm.edu" <aarmistad@salud.unm.edu>, "djwolking@ucdavis.edu" <djwolking@ucdavis.edu>, [REDACTED], [REDACTED], "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, "onehealthnextgen@ucdavis.edu" <onehealthnextgen@ucdavis.edu>, "mnattimba@ohcea.org" <mnattimba@ohcea.org>, "f.castillo@berkeley.edu" <f.castillo@berkeley.edu>, "mr84@cumc.columbia.edu" <mr84@cumc.columbia.edu>, "ndola@berkeley.edu" <ndola@berkeley.edu>, "Matthew Blake" <mblake@ucdavis.edu>, "oladele.ogunseitani@uci.edu" <oladele.ogunseitani@uci.edu>, Terra Kelly <trkelly@ucdavis.edu>, "William B. Karesh" <karesh@ecohealthalliance.org>, "sfh9@georgetown.edu" <sfh9@georgetown.edu>, "kaleasure@ucdavis.edu" <kaleasure@ucdavis.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>, [REDACTED], [REDACTED], "cgmonagin@ucdavis.edu" <cgmonagin@ucdavis.edu>
Subject: RE: Invitation: Obj 3 Discussion with AfrOHUN @ Mon Nov 25, 2019 9am - 10:30am (EST) (alexandrazuber@atahealthstrategies.com)
Sent: Mon, 25 Nov 2019 17:54:21 +0000

Sorry I missed the call – I couldn't make those times, but will read the notes.

Cheers,

Peter

Peter Daszak
President

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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 prevent pandemics and promote conservation.

From: alexandra zuber [mailto:alexandrazuber@atahealthstrategies.com]
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To: [REDACTED]; wasmith@ucdavis.edu; brpsmith@ucdavis.edu; snannyanzi@ohcea.org; jklane@ucdavis.edu; oromero@haas.berkeley.edu; ayawe@ohcea.org; inaigaga@ohcea.org; [REDACTED] aarmistad@salud.unm.edu; djwolking@ucdavis.edu; [REDACTED]; jkmazet@ucdavis.edu; onehealthnextgen@ucdavis.edu; mnattimba@ohcea.org; f.castillo@berkeley.edu; mr84@cumc.columbia.edu; Peter Daszak; ndola@berkeley.edu; Matthew Blake; oladele.ogunseitani@uci.edu; Terra Kelly; William B. Karesh; sfh9@georgetown.edu; kaleasure@ucdavis.edu; Elizabeth Leasure; [REDACTED]; cgmonagin@ucdavis.edu
Subject: Re: Invitation: Obj 3 Discussion with AfrOHUN @ Mon Nov 25, 2019 9am - 10:30am (EST) (alexandrazuber@atahealthstrategies.com)

Hello all,
Here is a proposed agenda for our call together tomorrow. I hope that we can use our time together to introduce ourselves, learn more from AfrOHUN about your challenges and needs and share our ideas, and begin to articulate a shared vision and priority strategy areas for our five year partnership, as well as select activities for Year 1 work planning as time allows.

- Introductions (20 minutes)- name, discipline, role or focus in working group/ AfrOHUN

- Recap of introductory presentations relating to Objective 3 (attached)- 10 minutes AfrOHUN; 10 minutes OHW-NG
- Q&A - 20 minutes
- Discussion (30 minutes, or time remaining)
 - our shared vision for five years
 - priority / strategic areas
 - Most exciting activities/ ideas for Year 1 work plan

Comments on the agenda welcome. Thanks all!

Alexandra Zuber, MPP, DrPH
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Subject: Invitation: Obj 3 Discussion with AfrOHUN @ Mon Nov 25, 2019 9am - 10:30am (EST) (alexandrazuber@atahealthstrategies.com)
When: Monday, November 25, 2019 9:00 AM-10:30 AM.
Where: [REDACTED]

You have been invited to the following event.

Obj 3 Discussion with AfrOHUN

When Mon Nov 25, 2019 9am – 10:30am Eastern Time - New York

Where [REDACTED]

Calendar alexandrazuber@atahealthstrategies.com

Who • [REDACTED] - organizer

- wasmith@ucdavis.edu
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[more details »](#)

Dear all,

We are delighted to have this opportunity to have our first Objective 3 work group dialogue with AfrOHUN staff. If AfrOHUN staff are available, I'd like to make this meeting 90 minutes so we have time for substantive discussion.

The objective is to begin discussions on work plan priorities and activities for Year 1 in the area of Objective 3, organizational development. Agenda forthcoming.

Alexandra Zuber is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting



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Dial by your location



Going (alexandrazuber@atahealthstrategies.com)? [Yes](#) - [Maybe](#) - [No](#) [more options »](#)

You are receiving this courtesy email at the account alexandrazuber@atahealthstrategies.com because you are an attendee of this event. To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at <https://www.google.com/calendar/> and control your notification settings for your entire calendar. Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. [Learn More](#).

From: Peter Daszak <daszak@ecohealthalliance.org>
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Subject: RE: Obj 3 work plan documents
Sent: Thu, 12 Dec 2019 15:55:00 +0000

Alexandra,

I've just got back from an 18 hour flight from Singapore where I was in a 3 day meeting, so haven't yet seen, or been able to work on the Obj 3 draft. I'll be on the call in 30 mins, and will then work on the docs this afternoon. Hope that's ok..

Cheers,

Peter

Peter Daszak

President

EcoHealth Alliance
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New York, NY 10001

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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 prevent pandemics and promote conservation.

From: alexandra zuber [mailto:alexandrazuber@atahealthstrategies.com]
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Subject: Obj 3 work plan documents

Hello Obj 3 Work Group,

As you know, the first draft of our Obj 3 global consortium work plan and Monitoring, Evaluation, and Learning Plan is due this Friday, Dec 13 to UC Davis. Our call together Thursday is an opportunity for us to discuss our working draft of both. (Note: Please only retain on your calendars my invitation to our Thursday's call and disregard phantom invitations from group member Mike Malison).

Here are documents to review in advance of that call:

1. USAID work plan guidance
2. My quick digest of AfrOHUN and SEAOHUN Year 1 draft work plan priorities/ activities to help inform our global

activities

3. Obj 3 global consortium work plan Draft 2 (post AfrOHUN visit)
4. Obj 3 Monitoring, Evaluation, and Learning Plan Draft 1

If you are unable to make our Thursday call, just send any comments electronically to me no later than Thursday, 12:00 pm EST so I can integrate in the version I send Friday.

Looking very forward to this important discussion. Thank you all!
Alexandra

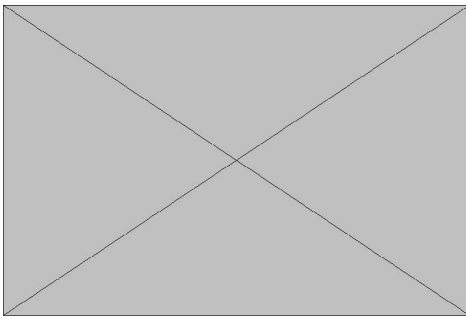
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<jklane@ucdavis.edu>; oromero@haas.berkeley.edu <oromero@haas.berkeley.edu>; ayawe@ohcea.org <ayawe@ohcea.org>;
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Subject: Doodle Poll: Obj 3 Work Planning Call

Hello Objective 3 Work Group,
I hope you had a great holiday. As you know, the first draft of the Global Consortium Year 1 Workplan is due next Friday, December 13.

I'd like to propose that we meet Thursday or Friday of next week, to provide final input to the plan. I sent you a first draft after the SEAOHUN visit, and I'll refine this based on the AfrOHUN visit which is currently underway and will send to you a second draft by Monday COB. I will also send the Monitoring, Evaluation, and Learning Plan for Objective 3, which is also required by December 13. I invite your input on both these revised documents electronically or during our meeting, after which I'll consolidate and submit to UC-Davis.

Can you kindly populate this Doodle Poll as soon as convenient to identify the best time for this meeting?
<https://doodle.com/poll/icexehcizdftneux>. Many thanks.



Doodle: Obj 3 Work Planning Call

Doodle is the simplest way to schedule meetings with clients, colleagues, or friends. Find the best time for one-to-ones and team meetings with our user-friendly calendar tool. Get started today!
doodle.com

Alexandra Zuber, MPP, DrPH
Founder and CEO, Ata Health Strategies, LLC
Email: alexandrazuber@atahealthstrategies.com
Phone: +1 (617) 680-3950
LinkedIn: [alexandrazuber/](https://www.linkedin.com/in/alexandrazuber/)
Website: www.atahealthstrategies.com
Twitter: [@alexandrazuber](https://twitter.com/alexandrazuber)

From: alexandra zuber <alexandrazuber@atahealthstrategies.com>
Sent: Sunday, November 24, 2019 9:49 PM
To: [REDACTED]; wasmith@ucdavis.edu <wasmith@ucdavis.edu>;
brpsmith@ucdavis.edu <brpsmith@ucdavis.edu>; snannyanzi@ohcea.org <snannyanzi@ohcea.org>; jklane@ucdavis.edu
<jklane@ucdavis.edu>; oromero@haas.berkeley.edu <oromero@haas.berkeley.edu>; ayawe@ohcea.org <ayawe@ohcea.org>;
inaigaga@ohcea.org <inaigaga@ohcea.org>; [REDACTED];
aarmistad@salud.unm.edu <aarmistad@salud.unm.edu>; djwolking@ucdavis.edu <djwolking@ucdavis.edu>;
[REDACTED]; jkmazet@ucdavis.edu <jkmazet@ucdavis.edu>;
onehealthnextgen@ucdavis.edu <onehealthnextgen@ucdavis.edu>; mnattimba@ohcea.org <mnattimba@ohcea.org>;
f.castillo@berkeley.edu <f.castillo@berkeley.edu>; mr84@cumc.columbia.edu <mr84@cumc.columbia.edu>; Peter Daszak
<daszak@ecohealthalliance.org>; ndola@berkeley.edu <ndola@berkeley.edu>; Matthew Blake <mblake@ucdavis.edu>;
oladele.ogunseitan@uci.edu <oladele.ogunseitan@uci.edu>; Terra Kelly <trkelly@ucdavis.edu>; karesh@ecohealthalliance.org
<karesh@ecohealthalliance.org>; sfh9@georgetown.edu <sfh9@georgetown.edu>; kaleasure@ucdavis.edu
<kaleasure@ucdavis.edu>; Elizabeth Leasure <ealeasure@ucdavis.edu>; [REDACTED];
cgmonagin@ucdavis.edu <cgmonagin@ucdavis.edu>
Subject: Re: Invitation: Obj 3 Discussion with AfrOHUN @ Mon Nov 25, 2019 9am - 10:30am (EST)
(alexandrazuber@atahealthstrategies.com)

Hello all,
Here is a proposed agenda for our call together tomorrow. I hope that we can use our time together to introduce ourselves, learn more from AfrOHUN about your challenges and needs and share our ideas, and begin to articulate a shared vision and priority strategy areas for our five year partnership, as well as select activities for Year 1 work planning as time allows.

- Introductions (20 minutes)- name, discipline, role or focus in working group/ AfrOHUN
- Recap of introductory presentations relating to Objective 3 (attached)- 10 minutes AfrOHUN; 10 minutes OHW-NG
- Q&A - 20 minutes
- Discussion (30 minutes, or time remaining)
 - our shared vision for five years
 - priority / strategic areas
 - Most exciting activities/ ideas for Year 1 work plan

Comments on the agenda welcome. Thanks all!

Alexandra Zuber, MPP, DrPH
Founder and CEO, Ata Health Strategies, LLC
Email: alexandrazuber@atahealthstrategies.com
Phone: +1 (617) 680-3950
LinkedIn: [alexandrazuber/](https://www.linkedin.com/in/alexandrazuber/)
Website: www.atahealthstrategies.com
Twitter: [@alexandrazuber](https://twitter.com/alexandrazuber)

From: [REDACTED]

Sent: Sunday, November 24, 2019 8:02 AM

To: [REDACTED]; wasmith@ucdavis.edu <wasmith@ucdavis.edu>;
brpsmith@ucdavis.edu <brpsmith@ucdavis.edu>; snannyanzi@ohcea.org <snannyanzi@ohcea.org>; jklane@ucdavis.edu
<jklane@ucdavis.edu>; oromero@haas.berkeley.edu <oromero@haas.berkeley.edu>; ayawe@ohcea.org <ayawe@ohcea.org>;
inaigaga@ohcea.org <inaigaga@ohcea.org>; [REDACTED]
aarmistad@salud.unm.edu <aarmistad@salud.unm.edu>; djwolking@ucdavis.edu <djwolking@ucdavis.edu>;
[REDACTED]; jkmazet@ucdavis.edu <jkmazet@ucdavis.edu>;
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oladele.ogunseitan@uci.edu <oladele.ogunseitan@uci.edu>; Terra Kelly <trkelly@ucdavis.edu>; karesh@ecohealthalliance.org
<karesh@ecohealthalliance.org>; sfh9@georgetown.edu <sfh9@georgetown.edu>; kaleasure@ucdavis.edu
<kaleasure@ucdavis.edu>; Elizabeth Leasure <ealeasure@ucdavis.edu>; [REDACTED];
cgmonagin@ucdavis.edu <cgmonagin@ucdavis.edu>; alexandra zuber <alexandrazuber@atahealthstrategies.com>

Subject: Invitation: Obj 3 Discussion with AfrOHUN @ Mon Nov 25, 2019 9am - 10:30am (EST)

(alexandrazuber@atahealthstrategies.com)

When: Monday, November 25, 2019 9:00 AM-10:30 AM.

Where: [REDACTED]

You have been invited to the following event.

Obj 3 Discussion with AfrOHUN

When Mon Nov 25, 2019 9am – 10:30am Eastern Time - New York

Where [REDACTED]

Calendar alexandrazuber@atahealthstrategies.com

Who

- [REDACTED] - organizer
- wasmith@ucdavis.edu
- brpsmith@ucdavis.edu
- snannyanzi@ohcea.org
- jklane@ucdavis.edu
- oromero@haas.berkeley.edu

- ayawe@ohcea.org
- inaigaga@ohcea.org
- **REDACTED**
- aarmistad@salud.unm.edu
- djwolking@ucdavis.edu
- **REDACTED**
- jkmazet@ucdavis.edu
- onehealthnextgen@ucdavis.edu
- mnattimba@ohcea.org
- f.castillo@berkeley.edu
- mr84@cumc.columbia.edu
- Peter Daszak
- ndola@berkeley.edu
- Matthew Blake
- oladele.ogunseitan@uci.edu
- Terra Kelly
- karesh@ecohealthalliance.org
- sfh9@georgetown.edu
- kaleasure@ucdavis.edu
- Elizabeth Leasure
- **REDACTED**
- cgmonagin@ucdavis.edu
- alexandrageruber@atahealthstrategies.com

[more details »](#)

Dear all,

We are delighted to have this opportunity to have our first Objective 3 work group dialogue with AfrOHUN staff. If AfrOHUN staff are available, I'd like to make this meeting 90 minutes so we have time for substantive discussion.

The objective is to begin discussions on work plan priorities and activities for Year 1 in the area of Objective 3, organizational

UCDUSR0010252

development. Agenda forthcoming.

Alexandra Zuber is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

REDACTED

One tap mobile

REDACTED

Dial by your location

REDACTED

Meeting ID: REDACTED

Find your local number:
REDACTED

Going (alexandrazuber@atahealthstrategies.com)? [Yes](#) - [Maybe](#) - [No](#) [more options »](#)

Invitation from [Google Calendar](#)
You are receiving this courtesy email at the account alexandrazuber@atahealthstrategies.com because you are an attendee of this event.
To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at <https://www.google.com/calendar/> and control your notification settings for your entire calendar.
Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. [Learn More](#).

From: Jose Nunez Grullon <jnunezgrullon@usaid.gov>
To: Elizabeth Leasure <ealeasure@ucdavis.edu>; Paula Noble <pnoble@ucdavis.edu>; Jonna Mazet <jkmazet@ucdavis.edu>; Andrew Clements <aclements@usaid.gov>
CC: OBLDOCCMP (USAID) <obldoccmp@usaid.gov>; Cara Chrisman <cchrisman@usaid.gov>; Christie Cooper <chsavage@usaid.gov>; Patricia Bradley <pbradley@usaid.gov>; Ashna Kibria <akibria@usaid.gov>
Sent: 1/6/2020 6:34:00 AM
Subject: AID-OAA-A-14-000106 Mod 19 - PREDICT II


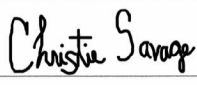
Dear All,

Please find attached modification 19 to subject award.

Should you have any questions, please do not hesitate to contact this office.

Sincerely,

JOSE L. NUNEZ
Acquisition and Assistance Specialist, M/OAA/GH
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
New Location
USAID Annex (UA) Room 11.4.2E
500 D St
Washington, DC, 20547
T 202 916 2640
(Contractor-Jefferson Solutions, LLC)

MODIFICATION OF ASSISTANCE AWARD				Page 1 of 2								
1. MODIFICATION NUMBER: 19	2. EFFECTIVE DATE OF MODIFICATION: See Block 15	3. AWARD NUMBER: AID-OAA-A-14-00102	4. EFFECTIVE DATE OF AWARD: 10/01//2014									
5. RECIPIENT: University of California, Davis School of Veterinary Medicine, 1850 Research Park Dr. Davis, CA 95618 DUNS No.: 04-712-0084 TIN No.: 94-6036494 LOC: 29B8P		6. ADMINISTERED BY: U.S. Agency for International Development Office of Acquisition and Assistance M/OAA/GH/HIDN 1300 Pennsylvania Ave., NW SA-44, 549 Washington, DC 20532-7900										
7. FISCAL DATA: Amount Obligated: \$0.00 Detail:		8. TECHNICAL OFFICE: USAID/GH/ID 9. PAYMENT OFFICE: U.S. Agency for International Development M/FM/CMP/LOC <u>loc@usaid.gov</u>										
10. FUNDING SUMMARY: Amount Obligated prior to this Modification: Change made by this Modification: New/Current Total:		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Obligated Amount</th> <th style="text-align: right; border-bottom: 1px solid black;">Total Est. Amount</th> </tr> </thead> <tbody> <tr> <td style="border-bottom: 1px solid black;">\$ 134,062,396.95</td> <td style="text-align: right; border-bottom: 1px solid black;">\$138,400,000.00</td> </tr> <tr> <td style="border-bottom: 1px solid black;">\$ 0.00</td> <td style="text-align: right; border-bottom: 1px solid black;">\$ 0.00</td> </tr> <tr> <td style="border-bottom: 3px double black;">\$ 134,062,396.95</td> <td style="text-align: right; border-bottom: 3px double black;">\$138,400,000.00</td> </tr> </tbody> </table>			Obligated Amount	Total Est. Amount	\$ 134,062,396.95	\$138,400,000.00	\$ 0.00	\$ 0.00	\$ 134,062,396.95	\$138,400,000.00
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\$ 134,062,396.95	\$138,400,000.00											
\$ 0.00	\$ 0.00											
\$ 134,062,396.95	\$138,400,000.00											
11. DESCRIPTION OF MODIFICATION: The purpose of this modification is to: 1) Incorporate a change in Key Personnel by deleting the "Senior Biological and Ecological Surveillance Coordinator" position, and 2) Incorporate a change in the Reporting Requirements by including the last year Annual Report in the Final Evaluation Report in lieu of a year-5 annual report. <div style="text-align: center;">Continued...</div>												
12. THIS MODIFICATION IS ENTERED INTO PURSUANT TO THE AUTHORITY OF THE FOREIGN ASSISTANCE ACT OF 1961, AS AMENDED. EXCEPT AS SPECIFICALLY AMENDED HEREIN, ALL TERMS AND CONDITIONS OF THE AWARD REFERENCED ON BLOCK #3 ABOVE, AS IT MAY HAVE HERETOFORE BEEN AMENDED, REMAIN UNCHANGED AND IN FULL FORCE AND EFFECT.												
13. RECIPIENT <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT REQUIRED TO SIGN THIS DOCUMENT TO RECONFIRM ITS AGREEMENT WITH THE CHANGES EFFECTED HEREIN.												
14. RECIPIENT: BY:  _____ TITLE: <u>Paula Noble</u> (Name Typed or Printed) Assistant Director, Negotiations and Subawards DATE: <u>1/3/2020</u>		15. THE UNITED STATES OF AMERICA U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT BY:  _____ TITLE: <u>Christie Savage</u> (Name Typed or Printed) Agreement Officer DATE: <u>1/6/2020</u>										

MODIFICATION OF ASSISTANCE AWARD
CONTINUATION PAGE

AID-OAA-A-14-00102

Modification 19

The Cooperative Agreement is modified as follows:

- 1) In ATTACHMENT A – SCHEDULE, **A.10 SUBSTANTIAL INVOLVEMENT**, delete item 2., and replace with the following:

“2. Approval of key personnel to include the following positions:

- a. Project Director
- b. Operations Management Team
- c. EPT-2 Liaison”

- 2) In ATTACHMENT A – SCHEDULE, **A.11 REPORTING REQUIREMENTS**, delete item b., and replace with the following:

“b. Semi-annual reports shall be due 30 days after the reporting period. Annual Reports, except the last year of the award, shall be submitted 90 calendar days after the award year in accordance with 2 CFR 200.328(b). The Annual Report for the last year of the award will be included in the “Final Evaluation Report”.”

All other terms and conditions of this award remain unchanged and in full effect.

- END OF MODIFICATION NO. 19 -

From: Peter Daszak <daszak@ecohealthalliance.org>
To: "cchrisman@usaid.gov" <cchrisman@usaid.gov>, Aleksei Chmura <chmura@ecohealthalliance.org>, [REDACTED], Samtha Maher <maher@ecohealthalliance.org>, "erubin@metabiota.com" <erubin@metabiota.com>, [REDACTED], "nwolfe@metabiota.com" <nwolfe@metabiota.com>
Subject: Proposed GVP Board meeting agenda for rapid review
Sent: Tue, 14 Jan 2020 13:28:28 +0000
[GVP 2020 02 13 Meeting Agenda draft for circulation.docx](#)

Hello all.

I've developed a draft agenda with Jonna for the GVP Board meeting. Please give it a quick review so we can make any changes and get it out to the Board rapidly.

Note that we've arranged the formal dinner the night before with an option to do something on the day of the Board meeting for those staying in town.

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
Website: www.ecohealthalliance.org
Twitter: [@PeterDaszak](https://twitter.com/PeterDaszak)

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: Google Calendar [mailto:[REDACTED]] **On Behalf Of** cchrisman@usaid.gov
Sent: Thursday, January 9, 2020 11:58 AM
To: [REDACTED]; Samtha Maher; erubin@metabiota.com; cchrisman@usaid.gov; Peter Daszak; [REDACTED]; nwolfe@metabiota.com
Subject: URGENT: GVP call Canceled

Dear GVP Team,

My sincere apologies as it looks like this email did not go through on my phone earlier this week. Unfortunately, Dennis will be on a plane during this time and we will need to cancel.

Please let me know if may have any availability tomorrow/Monday or if you would prefer to reschedule for next Thursday at this time.

Thanks and apologies again for the late notice.

Best,
Cara

GVP call

When Thu Jan 9, 2020 1pm – 2pm Eastern Time - New York

Where call in line **REDACTED**

Who • **REDACTED** - organizer

- erubin@metabiota.com
- cchrisman@usaid.gov
- **REDACTED**
- Aleksei Chmura
- **REDACTED**
- maher@ecohealthalliance.org
- Peter Daszak
- nwolfe@metabiota.com

call in line **REDACTED**

**Global Virome Project
Initial Board of Directors Meeting
13 February, 2020, 10:00 am – 5 pm
Keck Center, 500 5th St NW, Washington, DC**

Summary

The Global Virome Project (GVP) was conceived in response to repeated and unpredictable emergence and re-emergence of high impact viral epidemics and pandemics, compromising global health security and the well-being of the peoples of the world. The GVP has an ambitious objective: to characterize the majority of viruses within 25 viral families believed to pose a threat to global public health (Carroll *et al.* 2018). This first Board of Directors meeting of the newly incorporated Global Virome Project (GVP) will mark the exciting inception of the GVP Project as a stand-alone not-for-profit organization with the ability to raise funds and function as an independent entity.

Agenda

Note: There will be a GVP Dinner on Feb 12th beginning 7pm: Please plan to arrive in DC on the 12th. There will be an optional dinner on 13th for those staying in DC.

Time	Topic	Lead
9:30	Arrive at Keck Center	All
10:00 - 10:30	Introductions	Dennis Carroll
10:30 - 12:30	Welcome to the Global Virome Project <ul style="list-style-type: none">History, partners, current status [PD]Working groups:<ul style="list-style-type: none">- Science and Tech, GVP Targeting (PD)- Economic justification, Governance options, Legal & Ethical Philosophies (JM)- Data Management (ER)Governance structure [JM]	Peter Daszak Jonna Mazet Eddy Rubin
12:30 - 1:30	Lunch & Discussion (on site)	All
1:30 - 3:00	Review of the Bylaws, Discussion, Signing	Peter Daszak
3:00 - 4:00	Future of GVP and Fundraising Strategy Discussion	Dennis Carroll
4:00 - 5:00	Wrap-up and next steps <ul style="list-style-type: none">Closing reflections from each participantPlans for further engagement & next stepsMeeting times/locations in 2020 (confs.)	All
7:00 - 9:30	Optional Dinner	

Board Members

Peter Bogner, GISAID Initiative
Dennis Carroll, U.S. Agency for International Development
Christian Brechot, Global Virus Network & University of South Florida
Peter Daszak, EcoHealth Alliance
Jennifer Gardy, Bill & Melinda Gates Foundation
Jonna Mazet, University of California, Davis
Eddy Rubin, Metabiota
Suzan Murray, Smithsonian Institution
Oyewale Tomori, Redeemer's University, Nigeria

Observers

Cara Chrisman, U.S. Agency for International Development
Samantha Maher, EcoHealth Alliance

Background materials for distribution prior to meeting:

- Unsigned Resolutions Adopted by the Incorporator of the Global Virome Project, Inc.
- Unsigned Resolutions to be Adopted by the Initial Board of Directors of the Global Virome Project, Inc.
- Bylaws of the Global Virome Project, Inc.
- GVP Certificate of Incorporation
- Benefit-cost analysis of Global Virome Project
- Legal and Ethical brief
- Carroll D, Daszak P, Wolfe ND, Gao GF, Morel CM, Morzaria S, Pablos-Méndez A, Tomori O, Mazet JAK (2018) The Global Virome Project. *Science* 359:872-874
- EcoHealth Alliance (2018). Global Costs of Emerging Infectious Diseases: an Economic Case for the Global Virome Project. *Emerging Disease Insights*. Ecohealth Alliance

From: Peter Daszak <daszak@ecohealthalliance.org>
To: "cchrisman@usaid.gov" <cchrisman@usaid.gov>, Aleksei Chmura <chmura@ecohealthalliance.org>, [REDACTED], Samtha Maher <maher@ecohealthalliance.org>, "erubin@metabiota.com" <erubin@metabiota.com>, [REDACTED], "nwolfe@metabiota.com" <nwolfe@metabiota.com>
Subject: GVP in the news re. Wuhan outbreak
Sent: Tue, 14 Jan 2020 13:31:45 +0000

Just saw this from a Financial Times reporter (online) saying the current Wuhan outbreak increases the interest in GVP, then quotes Michael Osterholm saying that it's a waste of time – v. amusing!

<https://www.ft.com/content/e1cdfa46-3142-11ea-a329-0bcf87a328f2>

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
Website: www.ecohealthalliance.org
Twitter: [@PeterDaszak](https://twitter.com/PeterDaszak)

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: Peter Daszak
Sent: Tuesday, January 14, 2020 8:28 AM
To: 'cchrisman@usaid.gov'; Aleksei Chmura; [REDACTED]; Samantha Maher (maher@ecohealthalliance.org); erubin@metabiota.com; [REDACTED]; nwolfe@metabiota.com
Subject: Proposed GVP Board meeting agenda for rapid review
Importance: High

Hello all.

I've developed a draft agenda with Jonna for the GVP Board meeting. Please give it a quick review so we can make any changes and get it out to the Board rapidly.

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When Thu Jan 9, 2020 1pm – 2pm Eastern Time - New York

Where call in line **REDACTED**

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Subject: URGENT - need some feedback by tomorrow re Proposed GVP Board meeting agenda
Sent: Thu, 16 Jan 2020 19:07:06 +0000
[GVP 2020 02 13 Meeting Agenda draft for circulation.docx](#)

Dear all,

Could you email back your thoughts on any edits to the proposed GVP Board meeting agenda. I think we really need to get this out to our Board now and make sure they're fully engaged for the meeting.

Could I ask all of you to skim through it (it's very brief) and send comments before tomorrow, Friday 12pm EST so I can get this out to the whole Board tomorrow.

Cheers,

Peter

Peter Daszak
President

EcoHealth Alliance
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- maher@ecohealthalliance.org
- Peter Daszak

- nwolfe@metabiota.com

call in line **REDACTED**

**Global Virome Project
Initial Board of Directors Meeting
13 February, 2020, 10:00 am – 5 pm
Keck Center, 500 5th St NW, Washington, DC**

Summary

The Global Virome Project (GVP) was conceived in response to repeated and unpredictable emergence and re-emergence of high impact viral epidemics and pandemics, compromising global health security and the well-being of the peoples of the world. The GVP has an ambitious objective: to characterize the majority of viruses within 25 viral families believed to pose a threat to global public health (Carroll *et al.* 2018). This first Board of Directors meeting of the newly incorporated Global Virome Project (GVP) will mark the exciting inception of the GVP Project as a stand-alone not-for-profit organization with the ability to raise funds and function as an independent entity.

Agenda

Note: There will be a GVP Dinner on Feb 12th beginning 7pm: Please plan to arrive in DC on the 12th. There will be an optional dinner on 13th for those staying in DC.

Time	Topic	Lead
9:30	Arrive at Keck Center	All
10:00 - 10:30	Introductions	Dennis Carroll
10:30 - 12:30	Welcome to the Global Virome Project <ul style="list-style-type: none">○ History, partners, current status [PD]○ Working groups:<ul style="list-style-type: none">- Science and Tech, GVP Targeting (PD)- Economic justification, Governance options, Legal & Ethical Philosophies (JM)- Data Management (ER)○ Governance structure [JM]	Peter Daszak Jonna Mazet Eddy Rubin
12:30 - 1:30	Lunch & Discussion (on site)	All
1:30 - 3:00	Review of the Bylaws, Discussion, Signing	Peter Daszak
3:00 - 4:00	Future of GVP and Fundraising Strategy Discussion	Dennis Carroll
4:00 - 5:00	Wrap-up and next steps <ul style="list-style-type: none">● Closing reflections from each participant● Plans for further engagement & next steps● Meeting times/locations in 2020 (confs.)	All
7:00 - 9:30	Optional Dinner	

Board Members

Peter Bogner, GISAID Initiative
Dennis Carroll, U.S. Agency for International Development
Christian Brechot, Global Virus Network & University of South Florida
Peter Daszak, EcoHealth Alliance
Jennifer Gardy, Bill & Melinda Gates Foundation
Jonna Mazet, University of California, Davis
Eddy Rubin, Metabiota
Suzan Murray, Smithsonian Institution
Oyewale Tomori, Redeemer's University, Nigeria

Observers

Cara Chrisman, U.S. Agency for International Development
Samantha Maher, EcoHealth Alliance

Background materials for distribution prior to meeting:

- Unsigned Resolutions Adopted by the Incorporator of the Global Virome Project, Inc.
- Unsigned Resolutions to be Adopted by the Initial Board of Directors of the Global Virome Project, Inc.
- Resolution to open a bank account for the Global Virome Project, Inc.
- Bylaws of the Global Virome Project, Inc.
- GVP Certificate of Incorporation
- Benefit-cost analysis of Global Virome Project
- Legal and Ethical brief
- Carroll D, Daszak P, Wolfe ND, Gao GF, Morel CM, Morzaria S, Pablos-Méndez A, Tomori O, Mazet JAK (2018) The Global Virome Project. *Science* 359:872-874
- EcoHealth Alliance (2018). Global Costs of Emerging Infectious Diseases: an Economic Case for the Global Virome Project. *Emerging Disease Insights*. Ecohealth Alliance

Sent: Thu, 16 Jan 2020 11:48:18 -0800
Subject: Re: URGENT - need some feedback by tomorrow re Proposed GVP Board meeting agenda
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Peter Daszak <daszak@ecohealthalliance.org>
Cc: "cchrisman@usaid.gov" <cchrisman@usaid.gov>, Aleksei Chmura <chmura@ecohealthalliance.org>, Samtha Maher <maher@ecohealthalliance.org>, "erubin@metabiota.com" <erubin@metabiota.com>, **REDACTED**, **REDACTED**, "nwolfe@metabiota.com" <nwolfe@metabiota.com>

Looks great to me,
J

On Thu, Jan 16, 2020 at 11:07 AM Peter Daszak <daszak@ecohealthalliance.org> wrote:

Dear all,

Could you email back your thoughts on any edits to the proposed GVP Board meeting agenda. I think we really need to get this out to our Board now and make sure they're fully engaged for the meeting.

Could I ask all of you to skim through it (it's very brief) and send comments before tomorrow, Friday 12pm EST so I can get this out to the whole Board tomorrow.

Cheers,

Peter

Peter Daszak

President

EcoHealth Alliance

460 West 34th Street – 17th Floor

New York, NY 10001

Tel. +1 212-380-4474

Website: www.ecohealthalliance.org

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

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: Peter Daszak

Sent: Tuesday, January 14, 2020 8:28 AM

To: 'cchrisman@usaid.gov'; Aleksei Chmura; [REDACTED]; Samantha Maher (maher@ecohealthalliance.org);
erubin@metabiota.com; [REDACTED] nwolfe@metabiota.com

Subject: Proposed GVP Board meeting agenda for rapid review

Importance: High

Hello all.

I've developed a draft agenda with Jonna for the GVP Board meeting. Please give it a quick review so we can make any changes and get it out to the Board rapidly.

Note that we've arranged the formal dinner the night before with an option to do something on the day of the Board meeting for those staying in town.

Cheers,

Peter

Peter Daszak

President

EcoHealth Alliance

UCDUSR0010270

460 West 34th Street – 17th Floor

New York, NY 10001

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From: Google Calendar [mailto:calendar-notification@google.com] **On Behalf Of** cchrisman@usaid.gov

Sent: Thursday, January 9, 2020 11:58 AM

To: Aleksei Chmura; **REDACTED** Samtha Maher; erubin@metabiota.com; cchrisman@usaid.gov; Peter Daszak; **REDACTED**; nwolfe@metabiota.com

Subject: URGENT: GVP call Canceled

Dear GVP Team,

My sincere apologies as it looks like this email did not go through on my phone earlier this week. Unfortunately, Dennis will be on a plane during this time and we will need to cancel.

Please let me know if may have any availability tomorrow/Monday or if you would prefer to reschedule for next Thursday at this time.

Thanks and apologies again for the late notice.

Best,
Cara

GVP call

When Thu Jan 9, 2020 1pm – 2pm Eastern Time - New York

Where call in line **REDACTED**

Who • **REDACTED** - organizer

• erubin@metabiota.com

• cchrisman@usaid.gov

• etogami@ucdavis.edu

• Aleksei Chmura

• **REDACTED**

• maher@ecohealthalliance.org

- Peter Daszak
- nwolfe@metabiota.com

call in line **REDACTED**

From: Peter Daszak <daszak@ecohealthalliance.org>
To: Cara Chrisman <cchrisman@usaid.gov>
Cc: Aleksei Chmura <chmura@ecohealthalliance.org>, [REDACTED], Samtha Maher <maher@ecohealthalliance.org>, "erubin@metabiota.com" <erubin@metabiota.com>, [REDACTED], [REDACTED], "nwolfe@metabiota.com" <nwolfe@metabiota.com>
Subject: RE: GVP in the news re. Wuhan outbreak
Sent: Fri, 17 Jan 2020 19:31:56 +0000

It seems to still work from the twitter feed:

<https://twitter.com/FT/status/1214936356591456258?s=20>

or here's a reprint of the same article in another outlet:

<https://japandailysun.com/2020/01/11/commentary-chinas-wuhan-pneumonia-outbreak-stirs-debate-over-costly-virus-hunting/>

Cheers,

Peter

Peter Daszak
President

EcoHealth Alliance
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New York, NY 10001

Tel. +1 212-380-4474
Website: www.ecohealthalliance.org
Twitter: [@PeterDaszak](https://twitter.com/PeterDaszak)

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: Cara Chrisman [mailto:cchrisman@usaid.gov]
Sent: Tuesday, January 14, 2020 9:05 AM
To: Peter Daszak
Cc: Aleksei Chmura; [REDACTED]; Samtha Maher; erubin@metabiota.com; [REDACTED]; nwolfe@metabiota.com
Subject: Re: GVP in the news re. Wuhan outbreak

I can't access it! Is anyone able to copy & paste into the body of the email?

Sent from my iPhone

On Jan 14, 2020, at 8:31 AM, Peter Daszak <daszak@ecohealthalliance.org> wrote:

Just saw this from a Financial Times reporter (online) saying the current Wuhan outbreak increases the interest in GVP, then quotes Michael Osterholm saying that it's a waste of time – v. amusing!

<https://www.ft.com/content/e1cdfa46-3142-11ea-a329-0bcf87a328f2>

Cheers,

Peter

Peter Daszak

President

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New York, NY 10001

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Sent: Tuesday, January 14, 2020 8:28 AM

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Importance: High

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Sent: Thursday, January 9, 2020 11:58 AM

To: Aleksei Chmura; **REDACTED** Samtha Maher; erubin@metabiota.com; cchrisman@usaid.gov; Peter Daszak;

REDACTED nwolfe@metabiota.com

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Best,

Cara

GVP call

When Thu Jan 9, 2020 1pm – 2pm Eastern Time - New York

Where call in line **REDACTED**

Who • **REDACTED** - organizer

• erubin@metabiota.com

• cchrisman@usaid.gov

• etogami@ucdavis.edu

• Aleksei Chmura

• **REDACTED**

• maher@ecohealthalliance.org

• Peter Daszak

• nwolfe@metabiota.com

call in line **REDACTED**

From: "Newman, Carl I CIV DTRA J3-7 (USA)" <carl.i.newman.civ@mail.mil>
To: Andrew Clements <aclements@usaid.gov>, [REDACTED]
<[REDACTED]>, Jonna Mazet <jkmazet@ucdavis.edu>, "Christine Kreuder Johnson" <ckjohnson@ucdavis.edu>, [REDACTED],
[REDACTED], "Barton Behravesh, Casey (CDC/OID/NCEZID)" <dlx9@cdc.gov>, "Towner, Jonathan (Jon) (CDC/OID/NCEZID)" <jit8@cdc.gov>, "zuz4@CDC.GOV" <zuz4@cdc.gov>, "Stokes, Martha M CIV (USA)" <martha.m.stokes.civ@mail.mil>, "Simon Anthony, D.Phil" <anthony@ecohealthalliance.org>, Brian Bird <bhbird@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>, "Higgs, Elizabeth (NIH/NIAID) [E]" <ehiggs@niaid.nih.gov>, "Carter, Hillary H. EOP/NSC" <Hillary_H_Carter@nsc.eop.gov>, "Zamisch, Monica CTR (USA)" <monica.zamisch.ctr@darpa.mil>, "Jessup, Christine (NIH/FIC) [E]" <Christine.Jessup@nih.gov>, "Jean-Paul.Chretien@ncmi.detrack.army.mil" <Jean-Paul.Chretien@ncmi.detrack.army.mil>, "Rosenthal, Josh P. (NIH/FIC) [E]" <rosenthj@ficod.fic.nih.gov>, "Morgan, Jeffrey J CTR USARMY PEO IEWS (USA)" <jeffrey.j.morgan21.ctr@mail.mil>, "Richards, Jean M CIV DTRA J3-7 (US)" <jean.m.richards5.civ@mail.mil>, "viboudc@mail.nih.gov" <viboudc@mail.nih.gov>, "Bresee, Joseph (CDC/CCID/NCIRD)" <jsb6@cdc.gov>
Cc: "Schar, Daniel (RDMA/OPH)" <dSchar@usaid.gov>, Cara Chrisman <cchrisman@usaid.gov>, Padmaja Shetty <pshetty@usaid.gov>, Patricia Bright <pbright@usaid.gov>, Cassandra Louis Duthil <clouisduthil@usaid.gov>, Amalhin Shek <ashek@usaid.gov>, "Pereira, Alisa (GH/HIDN)" <apereira@usaid.gov>, Marilyn Crane <mcrane@usaid.gov>, Ricardo Echalar <rechalar@usaid.gov>, "Greene, Richard (USAID/Dhaka/DIR)" <rgreene@usaid.gov>, Tiffany D'Mello <tdmello@usaid.gov>
Subject: RE: [Non-DoD Source] Invitation to USAID EPT-2 data discussion (March 18-19, 2020)
Sent: Tue, 25 Feb 2020 03:20:28 +0000

Hi Andrew,

Thanks for this. Looking forward to the discussion.

Cheers,
Carl

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

From: Andrew Clements <aclements@usaid.gov>
Sent: Monday, February 24, 2020 3:46 PM
To: [REDACTED]; Jonna Mazet <jkmazet@ucdavis.edu>; Christine Kreuder Johnson <ckjohnson@ucdavis.edu>; [REDACTED]
[REDACTED] William Karesh <Karesh@ecohealthalliance.org>; Peter Daszak <daszak@ecohealthalliance.org>; [REDACTED]
[REDACTED] Barton Behravesh, Casey (CDC/OID/NCEZID) <dlx9@cdc.gov>; Towner, Jonathan (Jon) (CDC/OID/NCEZID) <jit8@cdc.gov>; zuz4@CDC.GOV; Stokes, Martha M CIV (USA) <martha.m.stokes.civ@mail.mil>; Simon Anthony, D.Phil <anthony@ecohealthalliance.org>; Brian Bird <bhbird@ucdavis.edu>; Tracey Goldstein <tgoldstein@ucdavis.edu>; Higgs, Elizabeth (NIH/NIAID) [E] <ehiggs@niaid.nih.gov>; Carter, Hillary H. EOP/NSC <Hillary_H_Carter@nsc.eop.gov>; Zamisch, Monica CTR (USA) <monica.zamisch.ctr@darpa.mil>; Jessup, Christine (NIH/FIC) [E] <Christine.Jessup@nih.gov>; Jean-Paul.Chretien@ncmi.detrack.army.mil; Rosenthal, Josh P. (NIH/FIC) [E] <rosenthj@ficod.fic.nih.gov>; Morgan, Jeffrey J CTR USARMY PEO IEWS (USA) <jeffrey.j.morgan21.ctr@mail.mil>; Newman, Carl I CIV DTRA J3-7 (USA) <carl.i.newman.civ@mail.mil>; Richards, Jean M CIV DTRA J3-7 (US) <jean.m.richards5.civ@mail.mil>; viboudc@mail.nih.gov; Bresee, Joseph (CDC/CCID/NCIRD) <jsb6@cdc.gov>
Cc: Schar, Daniel (RDMA/OPH) <dSchar@usaid.gov>; Cara Chrisman <cchrisman@usaid.gov>; Padmaja Shetty <pshetty@usaid.gov>; Patricia Bright <pbright@usaid.gov>; Cassandra Louis Duthil

<clouisduthil@usaid.gov>; Amalhin Shek <ashek@usaid.gov>; Pereira, Alisa (GH/HIDN) <apereira@usaid.gov>; Marilyn Crane <mcrane@usaid.gov>; Ricardo Echalar <rechalar@usaid.gov>; Greene, Richard (USAID/Dhaka/DIR) <rgreene@usaid.gov>; Tiffany D'Mello <tdmello@usaid.gov>
Subject: [Non-DoD Source] Invitation to USAID EPT-2 data discussion (March 18-19, 2020)

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.

Hi all,

USAID is planning to have a small 1.5-day meeting on March 18-19, 2020 to discuss data collected under our Emerging Pandemic Threats-2 program (2014-2019). The location will be Washington D.C. An agenda and the location of the venue will be forthcoming.

We hope you will be able to join us. This discussion is by invitation only and is limited to the organizations you represent since we're trying to keep the numbers manageable. If you are not able to attend, please feel free to suggest another person from your organization who is familiar with emerging pandemic threats.

Please let me know if you have any questions.

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 < Caution-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: Andrew Clements <aclements@usaid.gov>
Sent: Mon, 9 Mar 2020 21:13:41 +0100
Subject: March 9, 2020 Emerging PandemicThreat update
To: undisclosed-recipients;;
Bcc: jkmazet@ucdavis.edu
[Slide1.JPG](#)
[Slide2.JPG](#)

Summary: 72 poultry outbreaks/events and 68,912 human infections with 10 pathogens (various avian influenza viruses, Ebola, Lassa, MERS-CoV, and SARS-CoV-2) were reported by 101 countries/territories between February 10 and March 8, 2020. These outbreaks/infections occurred between February 2015 and March 2020.

Specific pathogens and countries affected:

H5N1/Asia High Pathogenicity Avian Influenza (HPAI) – 6 new poultry outbreaks (India, Vietnam)

A total of 23,863 bird outbreaks (more than 250 million birds affected) and 881 human infections (52% average case fatality rate) have been reported by 67 countries since 1997.

Viral pedigree: Influenza A sub-type H5N1/Asia HPAI was first detected in 1996 and has since donated genetic segments to many new influenza A HPAI viruses (including several below). Influenza A viruses have caused four pandemics since 1918.

H5N2/Asia HPAI – 16 new poultry outbreaks (China)

A total of 1,002 bird outbreaks (8.1 million birds affected) have been reported by 1 country since virus first detected in 2012; no human infections reported to date.

Viral pedigree: Influenza A sub-type H5N2/Asia HPAI is related to H5N1/Asia HPAI (see above).

H5N2 Low Pathogenicity Avian Influenza (LPAI) – 1 new poultry event (China)

Viral pedigree: no information available.

H5N5 HPAI – 6 new poultry outbreaks (China)

A total of 17 bird outbreaks (107 thousand birds affected) have been reported by 1 country since virus first detected in 2019.

Viral pedigree: no information available.

H5N6/Asia HPAI – 29 new poultry outbreaks (China, Vietnam)

A total of 740 bird outbreaks (29.6 million birds affected) and 24 human infections (33% average case fatality rate) have been reported by 8 countries since virus first detected in 2014.

Viral pedigree: Influenza A sub-type H5N6/Asia HPAI is related to H5N1/Asia HPAI (see above).

H5N8/Asia (variant) HPAI – 14 new poultry outbreaks (Bulgaria, Czech Republic, Germany, Poland)

A total of 2,951 bird outbreaks (34.6 million birds affected) have been reported by 53 countries since virus first detected in 2016; no human infections reported to date.

Viral pedigree: Influenza A sub-type H5N8/Asia (variant) HPAI is related to H5N1/Asia HPAI (see above).

Ebola/Zaire – 4 new confirmed human cases (DR Congo) **[No new cases over the past two weeks]**

At least 34,594[^] human infections (44% average case fatality rate) with all Ebola viruses have been reported by 18 countries between 1976 and 2019. [^] Total includes confirmed, probable, and suspected cases.

Viral pedigree: the Central African Ebola/Zaire virus has caused 16 outbreaks with 4,949 human infections (69% average case fatality rate) in 5 countries since first being detected in 1976.

Lassa – 420 new confirmed human cases (Benin, Liberia, Nigeria)

At least 4,507[^] human infections (21% average case fatality rate) have been reported by 16 countries since 2000. [^] Total includes confirmed, probable, and suspected cases.

MERS-CoV – 23 new confirmed human cases (Saudi Arabia)

A total of 36 camel outbreaks and at least 2,543 confirmed human infections (34% average case fatality rate) have been reported by 27 countries since virus first detected in 2012.

Viral pedigree: MERS-CoV is in the beta-coronavirus family which also includes the SARS virus which caused a pandemic in 2003 with more than 8,000 human infections (10% average case fatality rate) in 27 countries.

SARS-CoV-2 – 68,393 new confirmed human infections (99 countries and territories in Asia, Africa, Americas, Europe, Middle East, and Pacific/Oceania)

A total of at least 105,586 confirmed human infections (3.4% average case fatality rate) have been reported by 102 countries/territories since virus first detected in December 2019. *This rate includes all countries and may vary from country to country and could change over time as more cases (especially milder ones) are tested and reported.*

Viral pedigree: SARS-CoV-2 is distinct from all known coronaviruses including SARS and MERS, but is 96% identical to a SARS-like coronavirus from bats.

Examples of reporting during the past month (with 2018 global comparisons for select viruses):

Country	Pathogen detected	Affected population	Number of bird events or human cases	Median days from event start to lab testing	Median days from event start to report*	Testing and reporting comparisons (global medians from 2018)
Bulgaria	H5N8/Asia HPAI	poultry	5	0	0	3.5 / 12 [@]
Czech Rep.	H5N8/Asia HPAI	poultry	1	0	1	3.5 / 12
Germany	H5N8/Asia HPAI	poultry	1	1	4	3.5 / 12
Poland	H5N8/Asia HPAI	poultry	7	1	5	3.5 / 12
Vietnam	H5N1/Asia HPAI, H5N6/Asia HPAI	poultry	33	3	5	3.5 / 12
China	H5N2/Asia HPAI, H5N2 LPAI, H5N5/Asia HPAI, H5N6/Asia HPAI	poultry	24	2	18	3.5 / 12
India	H5N1/Asia HPAI	poultry	1	6	32	3.5 / 12
Saudi Arabia	MERS-CoV	humans	19	3 [#]	33	3.5 [#] / 82 ^{@@@}

[#] If date of testing not available, days from symptom onset to hospitalization used as a proxy.

* Reports posted on global OIE or WHO websites.

[@] 2018 global medians based on 656 poultry and wild bird events in 37 countries involving 9 HPAI and 9 LPAI viruses (H5N1, H5N2, H5N3, H5N5, H5N6, H7N1, H7N3, H7N7, H9N2).

^{@@} 2018 global medians based on 13 human infections in 1 country involving H5N6/Asia HPAI, H7N9/Asia HPAI+LPAI, H9N2 LPAI.

^{@@@} 2018 global medians based on 144 human infections in 5 countries.

→ Next update on/about April 6, 2020

Data sources:

<http://www.who.int/csr/don/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://empres-i.fao.org/eipws3g/>
<https://www.cdc.gov/flu/weekly/index.htm>
<https://www.moh.gov.sa/en/CCC/events/national/Pages/2019.aspx>
<http://newsletters.afro.who.int/outbreak-dashboards/p36fcklqcoy1qgvybnloqp?email=true>
<http://www.chp.gov.hk/en/index.html>
https://wwwnc.cdc.gov/eid/article/25/12/19-0636_article
<https://www.tandfonline.com/doi/full/10.1080/22221751.2019.1679611>
<http://outbreaknewstoday.com/nipah-virus-bangladesh-iedcr-reports-6-cases-4-deaths-13873/>
<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/>
<https://www.ecdc.europa.eu/en/novel-coronavirus-china>

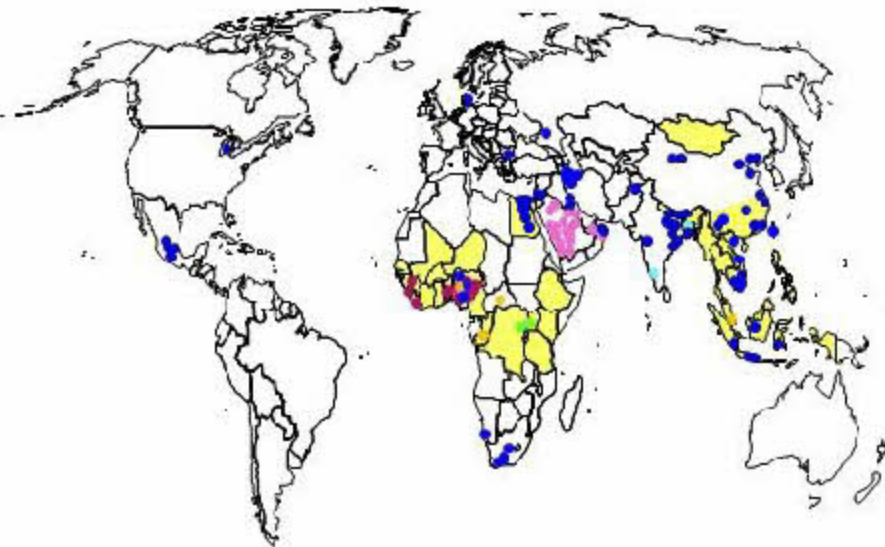
About the USAID Emerging Pandemic Threats update: first started in 2005 with a focus on H5N1 avian influenza, this monthly update was expanded in 2012 to include other zoonotic pathogens with pandemic potential. The update brings together information on both human and animal infectious disease outbreaks involving viruses having known or potential ability to infect and spread directly from human to human without vectors such as insects, water, or food. The current mailing list includes readers from USAID (Washington and missions in 22 countries in Africa, Asia, and the Middle East), other US Government Departments/Agencies (including HHS, CDC, NIH, USDA, Department of Defense, Department of Interior, State Department), international organizations (FAO, IFRC, OIE, WHO), universities, and NGOs.

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

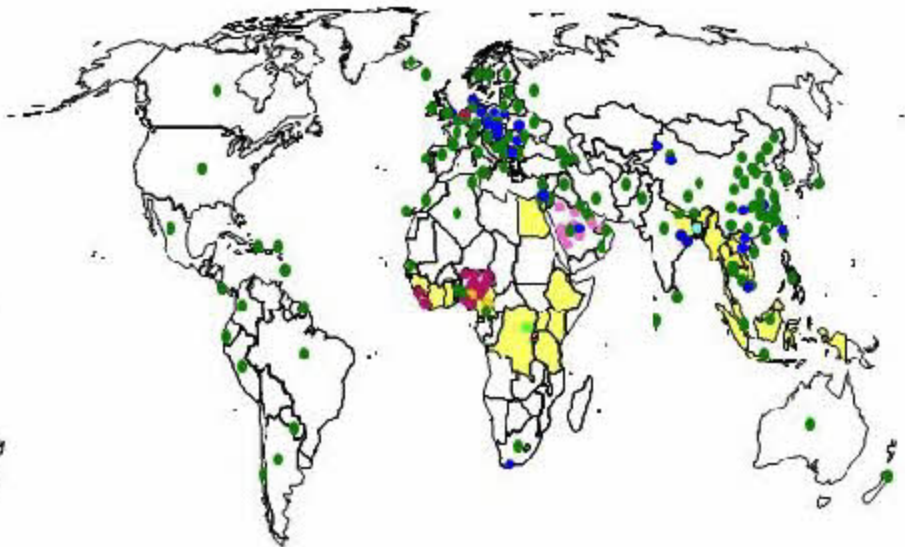
For more information on USAID's Emerging Pandemic Threats program, see: <http://www.usaid.gov/ept2>

Detection of Specific Pathogens with Potential to Infect and Directly Spread among Humans[^]

Nov 2018-Oct 2019



Nov 2019-Oct 2020



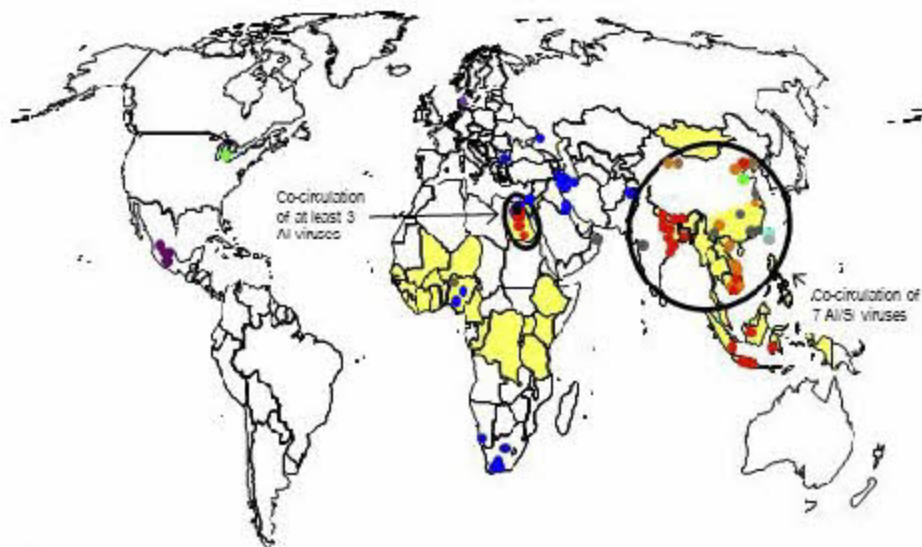
- = avian (HPAI[#], LPAI^{##}) or swine (variant) influenza (poultry, wild birds, humans)
- = Middle East Respiratory Syndrome-Coronavirus (humans or animals)
- = Ebola (humans)
- = Marburg (humans)
- = SARS-CoV-2 (humans)
- = Lassa (humans)
- = Nipah (humans)
- = monkeypox (primates, humans)
- = plague (humans)

Sources = Laboratory-confirmed cases reported by OIE, WHO, CDC, Ministry of Agriculture/FAO (Egypt, Indonesia), and IFDCR (Bangladesh) reports between 11/1/18 and 3/8/20. [^] 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. [#] High-pathogenicity avian influenza. ^{##} Low-pathogenicity avian influenza. = countries (including northeastern India and most of Indonesia) using USAID avian influenza, Ebola, or other emerging pandemic threats funding between FY2018 and FY2020 for prevention, detection, and response.

Recent Detection of Avian and Swine Influenza Viruses in Animals and Humans[^]

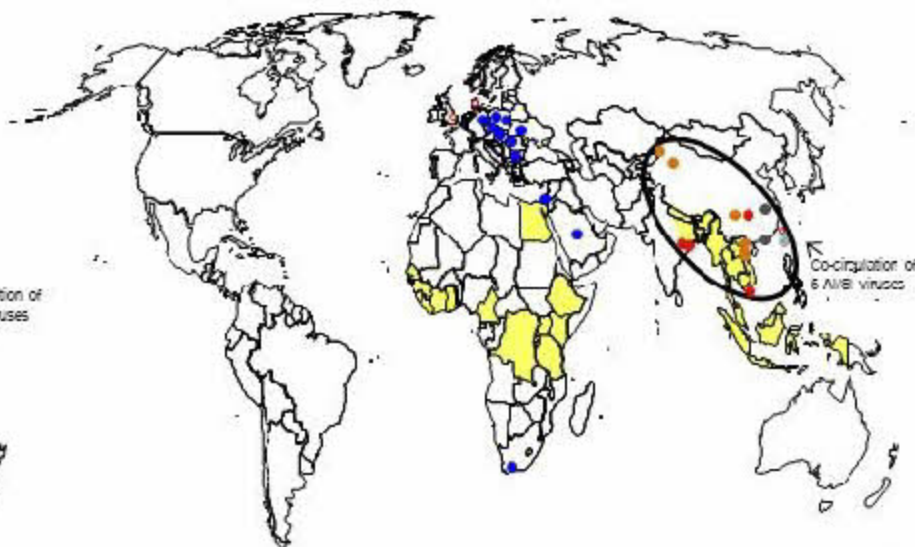
Nov 2018-Oct 2019

→ 266 bird outbreaks and 10 human infections with 11 AI/SI sub-types/variants (5 of which are zoonotic)



Nov 2019-Oct 2020

→ 146 bird outbreaks and 2 human infections with 6 AI/SI sub-types/variants (3 of which are zoonotic)



- | | | |
|---|--|---------------------------------------|
| ● = H5N1/Asia HPAI [#] or ● H5 LPAI ^{##} (P, WB, H) | ● = H5N6/As a HPAI variant (P, WB) | ● = H7N4 LPAI (H) |
| ● = H5N1/Europe HPAI (P, WB, H) | ● = H5N6/Europe I HPAI (P, WB) | ● = H7N9/Asia HPAI or LPAI (P, WB, H) |
| ● = H5N2/Asia HPAI (P, WB) | ● = H5N6/Europe variant HPAI (P, WB) | ● = H7N9/N. America (P) |
| ● = H5N2/Eurasia HPAI (P) | ● = H5N6 LPAI | ● = H9N2 LPAI (P, H) |
| ● = H5N2/Middle East HPAI (P) | ● = H7N2 (F, H) | ● = H1N1v SI (H) |
| ● = H5N5 HPAI (P, WB) | ● = H7N3 HPAI (P) | ● = H1N2v SI (H) |
| ● = H5N6/Asia HPAI (P, WB, H) | ● = H5N8/As a variant HPAI lineage (P, WB) | ● = H3N2v SI (H) |

Sources = Laboratory-confirmed cases reported by OIE, WHO, CDC, and Ministry of Agriculture/FAO (Egypt, Indonesia) reports between 11/1/18 and 3/8/20. [^] 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 northeastern India and most of Indonesia) using USAID avian influenza, Ftola, or other emerging pandemic threats funding between FY2017 and FY2019 for prevention, detection, and response. P = poultry; WB = wild birds; H = humans; F = feline.



Sent: Wed, 15 Apr 2020 14:01:38 +0000
Subject: Updated invitation: AFROHUN NUPAS Discussion @ Wed Apr 15, 2020 7am - 9:30am (PDT) (jonna.mazet@gmail.com)
From: **REDACTED**
To: **REDACTED**, wasmith@ucdavis.edu, wbazeyo@gmail.com, margaritamartins@berkeley.edu, snannyanzi@ohcea.org, f.castillo@berkeley.edu, oromero@haas.berkeley.edu, Elizabeth Leasure <ealeasure@ucdavis.edu>, ayawe@ohcea.org, Matthew Blake <mblake@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>, jkmazet@ucdavis.edu, sfh9@georgetown.edu, karesh@ecohealthalliance.org, Terra Kelly <trkelly@ucdavis.edu>, kaleasure@ucdavis.edu, mcrane@usaid.gov, apereira@usaid.gov, clouisduthil@usaid.gov, wbikaako@ohcea.org, mnattimba@ohcea.org, alexandrazuber@atahealthstrategies.com, inaigaga@ohcea.org, arukundo@ohcea.org, twakabi@ohcea.org, nainembabazi@ohcea.org
[invite.ics](#)

This event has been changed.

AFROHUN NUPAS Discussion

When Wed Apr 15, 2020 7am – 9:30am Pacific Time - Los Angeles

Where **Changed:** <https://berkeley.zoom.us/j/3745087431> ([map](#))

Calendar **REDACTED**

- Who**
- **REDACTED** - organizer
 - wasmith@ucdavis.edu
 - **REDACTED**
 - margaritamartins@berkeley.edu
 - snannyanzi@ohcea.org
 - f.castillo@berkeley.edu
 - oromero@haas.berkeley.edu
 - Elizabeth Leasure
 - ayawe@ohcea.org
 - Matthew Blake
 - Peter Daszak
 - jkmazet@ucdavis.edu
 - sfh9@georgetown.edu
 - karesh@ecohealthalliance.org
 - Terra Kelly
 - kaleasure@ucdavis.edu
 - **REDACTED**
 - mcrane@usaid.gov
 - apereira@usaid.gov
 - clouisduthil@usaid.gov
 - wbikaako@ohcea.org
 - mnattimba@ohcea.org
 - alexandrazuber@atahealthstrategies.com
 - inaigaga@ohcea.org

- arukundo@ohcea.org
- twakabi@ohcea.org
- nainembabazi@ohcea.org

[more details »](#)

Dear all,
Based on a request by AFROHUN relating to the Easter Holiday, we will now change the objective of this virtual workshop to focus on the Non-U.S. Organization Pre-Award Survey Assessment (NUPAS) instead of the OCA tool. A new time will be identified shortly for the OCA virtual workshop (TBD).

The objectives will be to: review the OHW-NG transition plan regarding USAID direct funding, review NUPAS assessment findings by the global team, and identify priority organizational domains that require capacity-building for successful transition to USAID funding in Year 3.

The agenda is proposed below:

1. Review OHW-NG Transition Plan & Milestones for USAID direct funding
2. Review & Discussion NUPAS Assessment Findings, identify any updates/ changes
3. Identify priority areas for capacity-building in Years 1-2 to support enable USAID funding
4. Next steps

Many thanks,

Omar Romero-Hernandez is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

REDACTED

Meeting ID: **REDACTED**

One tap mobile

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REDACTED US (San Jose)

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+1 669 900 6833 US (San Jose)
+1 669 219 2599 US (San Jose)
+1 646 558 8656 US (New York)
+1 312 626 6799 US (Chicago)
888 788 0099 US Toll-free
877 853 5247 US Toll-free

Meeting ID: **REDACTED**

Find your local number: **REDACTED**

Going (jonna.mazet@gmail.com)? [Yes](#) - [Maybe](#) - [No](#) [more options »](#)

Invitation from [Google Calendar](#)

You are receiving this email at the account jonna.mazet@gmail.com because you are subscribed for updated invitations on calendar jonna.mazet@gmail.com.

To stop receiving these emails, please log in to <https://www.google.com/calendar/> and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. [Learn More](#).

From: Andrew Clements <aclements@usaid.gov>
Sent: Fri, 27 Jan 2017 11:53:16 +0100
Subject: Re: PREDICT International Travel Requests
To: Cassandra Louis Duthil <clouisduthil@usaid.gov>
Cc: Elizabeth Leasure <ealeasure@ucdavis.edu>, PREDICTMGT <predictmgt@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Katherine Leasure <kaleasure@ucdavis.edu>

Travel approved subject to mission concurrence. Karen can purchase ticket now since she has already discussed this travel with the mission.

On Thu, Jan 26, 2017 at 10:22 PM, Cassandra Louis Duthil <clouisduthil@usaid.gov> wrote:

Andrew or Lindsay,

Please approve as soon as possible. Karen Saylors would like to purchase her tickets before the end of the day.

Best,

Cassandra Louis Duthil
Program Assistant
Emerging Threats Division
U.S. Agency for International Development (USAID)

REDACTED | clouisduthil@usaid.gov

On Mon, Jan 23, 2017 at 6:43 PM, Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

Please find below international travel requests for your review and approval. Please note that Karen Saylors' travel to CDI is in response to a request from the Mission, and this request is a late submission. Let me know if you have any questions. Thanks!!

1. Saylors (CDI): \$1,887 airfare/ \$327 (Abidjan) max daily per diem
2. Mulembakani (RoC): \$200 ferry/\$302 (Brazzaville) max daily per diem

Travel Requests:

1. Metabiota would like to request travel approval for Dr. Karen Saylors to travel from San Francisco, California, USA to Abidjan, Cote d'Ivoire from February 7th – 17th, 2017 to solidify partner relationships with IPCI and LANADA, to brief the USAID Mission at the US Embassy, and to strategize with IPCI team to prepare for upcoming human surveillance and laboratory trainings.

Trip purpose: In December 2016, the in-country team in Abidjan received approval for the human surveillance protocol. The in-country team has also begun animal surveillance efforts in conjunction with the national laboratory. At the end of December, Metabiota did not renew the Country Coordinator's contract, due to unsatisfactory performance, and has opted to work with our partner agency, the Institute Pasteur de Cote d'Ivoire to recruit, identify and hire a new Country Coordinator who will work under the direction of IPCI. In order to clarify PREDICT partner roles and responsibilities within IPCI and LANADA, Dr. Karen Saylors requests permission to come to Abidjan to work with the team on hiring and orienting the new Country Coordinator, as well as conducting working sessions with partners on coordinating hospital and community surveillance and animal sampling for Year 3 of PREDICT. Dr. Saylors will work with the IPCI team to prepare for upcoming trainings slated to occur later in February in Abidjan. As the Scientific Operations director for Metabiota, Dr. Saylors will work with the Regional Coordinator, Frantz Jean-Louis to assure that this transition plan and surveillance startup in Cote d'Ivoire are well coordinated and that communication is clear among all implementation partners.

2. Metabiota would like to request travel approval for Dr. Prime Mulembakani to travel from Kinshasa, Democratic Republic of Congo to Brazzaville, Republic of Congo from February 14th – 17th, 2017 to review human surveillance strategy with the in-country team and implement a plan for human surveillance.

Trip purpose: In December 2016, the in-country team in Brazzaville submitted the human surveillance protocol to the in-country ethics committee for final review. In order to begin human behavioral surveillance and evaluate capacity for human syndromic surveillance, Dr. Mulembakani will visit the clinical site, conduct meetings with the hospital staff, and review patients records and logistics. Dr. Mulembakani will also meet with individuals in charge of USAID projects in Republic of Congo.

--

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.
To post to this group, send email to predictmgt@usaid.gov.
To view this discussion on the web visit
<https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/BN1PR08MB1233A129B40E5049DD19DEAA2720%40BN1PR08MB123.namprd08.prod.outlook.com>.

--

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To unsubscribe from this group and stop receiving emails from it, send an email to predictmgt+unsubscribe@usaid.gov.
To post to this group, send email to predictmgt@usaid.gov.
To view this discussion on the web visit
https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CACJhmAvrq%2BA9ZZY49f492O-2kXA0Zbvd6yNhS7X3%2Brabp_ezog%40mail.gmail.com.

--

Andrew 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
E-mail: aclements@usaid.gov

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

From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 8 Feb 2017 17:17:15 +0100
Subject: evidence from Europe that H5N8 reassortment took place after the Russia reassortment
To: "Schar, Daniel (RDMA/OPH)" <dSchar@usaid.gov>, "Damrongwatanapokin, Sudarat (RDMA/OPH)" <sDamrongwatanapokin@usaid.gov>, "Carroll, Dennis(GH/HIDN)" <DCarroll@usaid.gov>, William Karesh <Karesh@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>,
REDACTED

https://wwwnc.cdc.gov/eid/article/23/4/16-1949_article

--

Andrew 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
E-mail: aclements@usaid.gov

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

Sent: Mon, 13 Feb 2017 11:19:22 -0800
Subject: Re: PREDICT Management Team call
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
Cc: William Karesh <Karesh@ecohealthalliance.org>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Elizabeth Leasure <ealeasure@ucdavis.edu>, **REDACTED**, Shana Gillette <sgillette@usaid.gov>

Thanks -- sorry about the mic,
J

On Mon, Feb 13, 2017 at 11:16 AM, Andrew Clements <aclements@usaid.gov> wrote:

Sorry, the microphone on my phone seems to have broken halfway through the call so I will add a couple more things:

1. A heads up that we are hoping to do an update on the data meetings for the Mainz meeting. To include a summary of the August 2016 discussion and hopefully a preview of the 2017 discussion. If there are any proposed dates and location for the latter, we'd be interested in hearing those.
2. I heard from Subhash today that there will be a new MERS focal point at WHO Geneva who is formerly with Institut Pasteur. Subhash is hoping to host a technical MERS meeting sometime in the Apr-Jun 2017 timeframe.

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*

Begin forwarded message:

From: **REDACTED**
To: "aclements@usaid.gov" <aclements@usaid.gov>, "ashek@usaid.gov" <ashek@usaid.gov>, "erubin@metabiota.com" <erubin@metabiota.com>, "karesh@ecohealthalliance.org" <karesh@ecohealthalliance.org>, Peter Daszak <daszak@ecohealthalliance.org>, "apereira@usaid.gov" <apereira@usaid.gov>, "francisco@ecohealthalliance.org" <francisco@ecohealthalliance.org>, Ava Sullivan <sullivan@ecohealthalliance.org>, "andre@ecohealthalliance.org" <andre@ecohealthalliance.org>, "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, "ksaylors@metabiota.com" <ksaylors@metabiota.com>, "sgillette@usaid.gov" <sgillette@usaid.gov>, "fuchs@ecohealthalliance.org" <fuchs@ecohealthalliance.org>, PREDICTMGT <predictmgt@usaid.gov>, "clouisduthil@usaid.gov" <clouisduthil@usaid.gov>, "lparish@usaid.gov" <lparish@usaid.gov>, "telnicki@metabiota.com" <telnicki@metabiota.com>, "luciano@ecohealthalliance.org" <luciano@ecohealthalliance.org>, "cchrisman@usaid.gov" <cchrisman@usaid.gov>, "ckjohnson@ucdavis.edu" <ckjohnson@ucdavis.edu>, "turner@ecohealthalliance.org" <turner@ecohealthalliance.org>
Subject: PREDICT Management Team call

You have been invited to the following event.

Title: PREDICT Management Team call
PREDICT Management Team Agenda
Monday, February 13, 2017
10:00 PST/1:00pm EST

REDACTED

Standing items
USAID Updates

1. Administrative items
 - a. Senior behavioral surveillance coordinator welcome and next steps
 - b. EMMR question follow up – new sector specific guidance, any implications to our plan?
 - c. March meeting in DC regarding PREDICT and GHSA
 - d. Mainz regional meeting
 - e. Success stories
 - f. Preparing for zoonotic disease prioritization workshops in Uganda and Tanzania
2. Mission communications round-up
 - a. RoC
 - b. Liberia
 - c. Viet Nam
 - d. Kenya - attachment
 - e. Cameroon
 - f. Senegal
3. GHSA M&E Workshop outcomes and path forward
4. Outbreak reporting coordination and Avian influenza response updates (Mongolia, Uganda, Rwanda, Bangladesh, Cambodia...)
5. FAO collaboration/coordination updates (Billy)
 - a. FAO in Myanmar, Cambodia, Ghana

When: Mon Feb 13, 2017 7pm Zurich

Video call: Join video call

Calendar: aclements@usaid.gov

Who:

- * David J Wolking - organizer
- * ashek@usaid.gov
- * erubin@metabiota.com
- * karesh@ecohealthalliance.org
- * Peter Daszak
- * apereira@usaid.gov
- * francisco@ecohealthalliance.org
- * Ava Sullivan
- * andre@ecohealthalliance.org
- * jkmazet@ucdavis.edu
- * ksaylors@metabiota.com
- * sgillette@usaid.gov
- * fuchs@ecohealthalliance.org
- * PREDICTMGT
- * clouisduthil@usaid.gov
- * lparish@usaid.gov
- * telnicki@metabiota.com
- * luciano@ecohealthalliance.org
- * aclements@usaid.gov
- * cchrisman@usaid.gov

- * ckjohnson@ucdavis.edu
- * turner@ecohealthalliance.org

Event details:

REDACTED

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Forwarding this invitation could allow any recipient to modify your RSVP response. Learn more at **REDACTED**

From: David J Wolking <djwolking@ucdavis.edu>
Sent: Tue, 7 Mar 2017 17:43:25 -0800
Subject: Re: Correction: PREDICT EB call - tomorrow March 8, 2016 9AM PST/12PM EST
To: Elizabeth Leasure <ealeasure@ucdavis.edu>
Cc: David John Wolking <djwolking@ucdavis.edu>, Alison Andre <andre@ecohealthalliance.org>, Amanda Fine <[REDACTED]>, Amanda Fuchs <fuchs@ecohealthalliance.org>, Ava Sullivan <sullivan@ecohealthalliance.org>, Brian Bird <brianhbird1@gmail.com>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Damien Joly <djoly@metabiota.com>, Eddy Rubin <erubin@metabiota.com>, Emma Lane <lane@ecohealthalliance.org>, Evelyn Luciano <luciano@ecohealthalliance.org>, Jon Epstein <epstein@ecohealthalliance.org>, Karen Saylor <ksaylors@metabiota.com>, Leilani Francisco <francisco@ecohealthalliance.org>, Megan M Doyle <mmdoyle@ucdavis.edu>, Molly Turner <turner@ecohealthalliance.org>, "Murray, Suzan" <MurrayS@si.edu>, Peter Daszak <daszak@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>, Woutrina A Smith <wasmith@ucdavis.edu>, Sarah Olson <solson@wcs.org>, Simon Anthony <sja2127@columbia.edu>, Taylor Elnicki <telnicki@metabiota.com>, Tracey Goldstein <tgoldstein@ucdavis.edu>, William Karesh <karesh@ecohealthalliance.org>
[PREDICT country activities tracker March 3 2017.xlsx](#)
[PREDICT EB Agenda \(3.8.17\) final.docx](#)

Indeed, thanks Liz for the quality control.

Attached (and below) is the agenda for tomorrow's meeting with one supporting document. I'm on calls beginning at 6AM PST tomorrow so if you have any questions about the agenda feel free to contact me directly and I'll do my best to clarify.

David

Executive Board Meeting

Wednesday, March 8, 2017

9:00am PST/12:00pm EST

[REDACTED], Access code: **[REDACTED]**

International Dial-in number: [REDACTED] (toll charges apply)

Agenda

1. Management team and admin updates

USAID team news

Media, branding, and communications protocols

Pending subawards and budget mods (IDEEAL and Jordan)

Semi-annual and GHSA report plans

RDMA CIPs

2. Read-out from GHSA meeting in DC (Jonna)

3. Outbreak updates (All)

4. Mission communications round-up (All)

5. Semi-annual consortium and data sharing meeting plans (Billy)

6. External advisory panel feedback, EPT partner coordination updates, JEE, and other coordination news (Billy)

-Myanmar JEE (May 3-9), Mongolia JEE (May 12-19), Thailand JEE (June 26-30)

-Work planning between now and June (Liberia, Sierra Leone, Ethiopia, Bangladesh, and Jordan)

7. FAO pivot (Billy)

8. Operations Team updates:

Surveillance (Chris) - attachment

Lab (Tracey & Simon)

Behavior (Leilani/Karen)

M&A (Peter)

Capacity (Woutrina)

IM (Damien)

EHP (Brian, Jon, Karen/Eddy)

M&E (Corina)

9. Global Virome Project update (Jonna/Peter/Eddy)

10. Other recent meeting updates?

- Zoonotic Disease Prioritization Workshop meetings (Uganda and TZ)
- Kenya JEE readout
- PMAC abstracts and attendees?
- ICID Symposium (Dawn)

Standing Items: Related grant proposals or conferences, publications updates?

On Tue, Mar 7, 2017 at 4:45 PM, Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

Minor correction, the call is tomorrow March 8th at 9 am PST/12 pm EST. ☺

Elizabeth Leasure

One Health Institute

University of California, Davis

[530-754-9034](tel:530-754-9034) (office)

[530-304-1403](tel:530-304-1403) (cell)

From: David J Wolking [mailto:djwolking@ucdavis.edu]

Sent: Tuesday, March 07, 2017 4:32 PM

To: Alison Andre; Amanda Fine; Amanda Fuchs; Ava Sullivan; Brian Bird; Christine Kreuder Johnson; Damien Joly; Eddy Rubin; Elizabeth Leasure; Emma Lane; Evelyn Luciano; Jon Epstein; Karen Saylor; Leilani Francisco; Megan M Doyle; Molly Turner; Murray, Suzan; Peter Daszak; Jonna Mazet; Woutrina A Smith; Sarah Olson; Simon Anthony; Taylor Elnicki; Tracey Goldstein; William Karesh

Subject: PREDICT EB call - tomorrow March 7, 2016 9AM PST/12PM EST

Hi there,

Apologies for the late notice, but we do have our scheduled PREDICT EB call tomorrow March 7, 2017 at 9AM PST/12PM EST. I'll be following up with an agenda ASAP, just wanted to get this reminder out there in case there was any doubt the call was indeed scheduled.

Thanks!

David

Executive Board Meeting
Wednesday, March 8, 2017
9:00am PST/12:00pm EST
#800-444-2801, Access code 5151894
International Dial-in number: 310-765-4820 (toll charges apply)

Agenda

1. Management team and admin updates

USAID team news
Media, branding, and communications protocols
Pending subawards and budget mods (IDEEAL and Jordan)
Semi-annual and GHSA report plans
RDMA CIPs

2. Read-out from GHSA meeting in DC (Jonna)

3. Outbreak updates (All)

4. Mission communications round-up (All)

5. Semi-annual consortium and data sharing meeting plans (Billy)

6. External advisory panel feedback, EPT partner coordination updates, JEE, and other coordination news (Billy)

-Myanmar JEE (May 3-9), Mongolia JEE (May 12-19), Thailand JEE (June 26-30)
-Work planning between now and June (Liberia, Sierra Leone, Ethiopia, Bangladesh, and Jordan)

7. FAO pivot (Billy)

8. Operations Team updates:

Surveillance (Chris) - attachment
Lab (Tracey & Simon)
Behavior (Leilani/Karen)
M&A (Peter)
Capacity (Woutrina)
IM (Damien)
EHP (Brian, Jon, Karen/Eddy)
M&E (Corina)

9. Global Virome Project update (Jonna/Peter/Eddy)

10. Other recent meeting updates?

- Zoonotic Disease Prioritization Workshop meetings (Uganda and TZ)
- Kenya JEE readout
- PMAC abstracts and attendees?
- ICID Symposium (Dawn)

Standing Items: Related grant proposals or conferences, publications updates?

Produced in Native Format

From: Andrew Clements <aclements@usaid.gov>
Sent: Tue, 11 Apr 2017 23:24:23 +0200
Subject: Re: EPT-2 Annual Data Meeting 2017
To: "William B. Karesh" <karesh@ecohealthalliance.org>
Cc: Alisa Pereira <apereira@usaid.gov>, Jonna Mazet <jkmazet@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>, Amanda Andre <amanda.andre@ecohealthalliance.org>

I approve of the cancellation of this year's data meeting.

Andrew

On Tue, Apr 11, 2017 at 6:32 PM, William B. Karesh <karesh@ecohealthalliance.org> wrote:

Dear Dr. Clements,

The PREDICT-2 project recommends that the annual international meeting planned to discuss data sharing among EPT-2 partner projects and organizations not be held in 2017 as indicated in the PREDICT-2 work plan. Several key developments have led to this recommendation:

- 1) FAO activities in Africa have been redirected so that PREDICT-2 and FAO are no longer sampling and testing at the same locations or times, nor collecting comparable pathogen data.
- 2) Where FAO and PREDICT-2 are coordinating activities in Asia, the regional and country level teams are well integrated and are able to meet locally rather than needing to travel to an international meeting destination.
- 3) Coordinated activities with WHO are now focused in Vietnam and the country level teams are routinely meeting locally.
- 4) Coordination with CDC has been ongoing, but is limited to a very small number of countries and local or headquarter staff are routinely sharing information (e.g. Sierra Leone, Vietnam)
- 4) Data and information sharing between PREDICT-2, Preparedness and Response, and the One Health Workforce is now occurring on a monthly basis as well as ad-hoc when shared work items are identified.
- 5) Coordination of MERS-Coronavirus work with FAO is currently being handled at the country level in Jordan and Egypt. In addition, WHO in conjunction with FAO is currently planning a MERS-CoV coordination meeting with an expanded group of stakeholders that we will be able to participate in.

Please let us know at your earliest convenience if this proposed change is acceptable so that we can cancel arrangements for meeting logistics.

Thank you,

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](tel:+12123804463) (direct)
[+1.212.380.4465](tel:+12123804465) (fax)
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.

--

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

From: "William B. Karesh" <karesh@ecohealthalliance.org>
To: Jonna Mazet <jkmazet@ucdavis.edu>
Cc: Christine Kreuder Johnson <ckjohnson@ucdavis.edu>
Subject: Re: Joint Ebola surveillance and Ebola host country project
Sent: Thu, 20 Apr 2017 14:13:06 +0000

Thanks!!

Sent from my iPhone

On Apr 20, 2017, at 12:45 AM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Hi Billy,

Chris and I had the opportunity to talk more with Subhash today, as we had a pre-scheduled GVP call. He asked the same question again about testing samples they have or will collect, so we took the opportunity to reinforce the message you delivered very clearly. Thanks again for that.

I also reiterated that we never were planning to triangulate in the three most outbreak affected countries and that we would happily provide them with the results of our SL livestock sampling and testing to help with future planning for EPT-3 or other FAO work. He accepted all as reasonable.

After that he asked about the East Africa samples getting tested that were already collected through the triangulation plan. We explained that we also did not have the funds to test those but that Chris had written up a justification and submitted to Andrew in case USAID had extra funds to get those tested. Subhash thanked us for that and also asked for the totals for those countries, saying that they might have funds to get those tested, as they had just received their country-level budgets (seemingly indicating that they might have received more than they could spend in some countries). So you may hear more about those later. We explained that we had included Tanzania, Ethiopia, and Kenya in the request for testing of samples collected in conjunction with FAO. He mentioned that were similar samples for Uganda. Chris and I weren't aware of that, but we will check-in with Kirsten.

So, maybe more will come of the collaboratively collected samples in East Africa (who knows?).

Wanted to make sure we were all on the same page, as we hadn't planned on this conversation, but Subhash was highly motivated to discuss.

Hope this info is helpful,

Jonna

PS -- I pressed a bit to try to figure out why they keep coming back to us on testing these samples, etc. He mentioned that he has a bunch of highly-motivated junior field teams who are a bit upset about having made these plans and partially executed them only to have no action on the collected samples.

On Wed, Apr 19, 2017 at 2:56 PM, Morzaria, Subhash (TCE) <**REDACTED**> wrote:

Dear Billy,

Thanks for this very clear message. I think that we can now move forward to redirect the work of FAO towards the capacity development for each of the GHSA Phase 1 country as defined by the JEE process.

With best regards,

Subhash

From: William B. Karesh [mailto:karesh@ecohealthalliance.org]

Sent: Wednesday, April 19, 2017 7:25 PM

To: Morzaria, Subhash (TCE) <**REDACTED**>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>; Brian Bird <bhbird@ucdavis.edu>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Hi Subhash,

Thanks for the kind offer.

Please do not plan to collect any livestock samples for future testing by PREDICT. We have completed enough sampling of livestock, and we are not planning on the triangulated sampling in Guinea, SL or Liberia. Also, we do not have capacity to process and store more samples, nor the funds to do the testing of additional livestock samples.

All the Best,

Billy

William B. Karesh, D.V.M

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On Apr 19, 2017, at 11:05 AM, Morzaria, Subhash (TCE) <[REDACTED]> wrote:

Dear Billy,

Thanks for this information. Would P-2 still want the livestock samples be collected from the joint sites in the Ebola host countries? If not, the countries will redesign the sampling frame based on the country prioritized diseases as defined in the GHSA and the JEE process.

Do you have time to discuss this sometime this week or today?

Best,

Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, April 18, 2017 7:00 PM

To: Morzaria, Subhash (TCE) [REDACTED]

Cc: Jonna Mazet <jkmazet@ucdavis.edu>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Hi Subhash,

Currently, we have no additional budget for testing of additional samples provided by FAO. If the situation changes, we will certainly let you know.

BK

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On Apr 18, 2017, at 12:21 PM, Morzaria, Subhash (TCE)

<**REDACTED**> wrote:

Dear Billy,

Further to our chat while I was in Thailand, I wanted to check if for the Ebola host countries (Guinea, Liberia and Sierra Leone) it would be possible for P-2 to test the livestock samples at their cost, if FAO were to collect these samples (at FAO cost) and hand over the samples to country P-2 teams?

If this is the case then we would ensure that livestock sampling is included in our revised workplans.

UCDUSR0010301

Please let me know.

Thanks and with best regards,

Subhash

From: Morzaria, Subhash (TCE)

Sent: Monday, April 03, 2017 12:47 PM

To: William B. Karesh <karesh@ecohealthalliance.org>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>

Subject: FW: Joint Ebola surveillance and Ebola host country project

Dear Billy,

I would like to urgently discuss with the issue of livestock sample collection in the three Ebola host countries. This is after my visit in Sierra Leone last week and discussions with the USAID and country P-2.

Please let me know if we can Skype during the week from Wed onwards. I will be in the plane mostly this afternoon and the whole of tomorrow travelling to Thailand.

Best regards,

Subhash

From: William B. Karesh [<mailto:karesh@ecohealthalliance.org>]

Sent: Tuesday, February 28, 2017 9:04 AM

To: Morzaria, Subhash (TCE) <**REDACTED**>

Cc: Jonna Mazet <jkmazet@ucdavis.edu>; Bebay, Charles (AGAH) <**REDACTED**>; Makonnen, Yilma (FAOKE) <**REDACTED**>; Lubroth, Juan (AGAH) <**REDACTED**>; Hasibra, Mirela (TCE) <**REDACTED**>; Tonetti, Bianca (TCE) <**REDACTED**>

Subject: Re: Joint Ebola surveillance and Ebola host country project

Thanks Subhash,

This is consistent with our take-away from the phone call.

We have notified all of our central and country staff of the situation using the brief summary below, and will work from this basis in our planning and interactions with local government counterparts. When will you be notifying FAO regional and country staff of the new plans? It would be good if P-2 personnel, FAO staff and USAID Mission in the affected countries learn of these changes as soon as possible.

As soon as you are able to provide final decisions on any or all countries, that would be extremely helpful

also.

As we discussed, this is an unfortunate turn of events given the potential to build capacity for practical integrated surveillance and information sharing and all of the time spent over the last two years in coordinating this complex effort. On the other hand, we are still pleased to see the work moving forward in Asia, Egypt and Jordan.

Here is note I sent out to P-2 people on February 23rd.:

Subhash Morzaria will confirm final decisions in the next week or so, and Jonna will follow-up with USAID in one format or another. This is not set in stone, but is how they see things most likely working out unless USAID provides additional funding (or there is another change in plans).

All Asia Countries: Business as usual, no changes

Egypt and Jordan: Business as usual, no changes

Kenya, Tanzania, and Uganda: The livestock samples FAO have already collected will be made available to be tested by PREDICT if we want them and we can find the money to pay for the testing. If we are able to do the testing, FAO MIGHT be able to include funding (per diems, etc.) for local FAO partners to be trained in the techniques, this would be allowable in their budget under their “capacity building” goals.

S.L., Guinea, Liberia: FAO most likely will not be doing the domestic animal sampling or testing, though there is a slim possibility depending on priority setting. Similar to above, they might be able to include funding (per diems, etc.) for local FAO partners to be trained in the field or lab techniques, under their “capacity building” goals (but currently we are not doing in-country testing). If their budgets allow, FAO may also be able to do some domestic animal sampling and testing, but they are not sure about it at this point in time.

All other African countries: They will not be doing any of the sampling and testing coordinated with PREDICT or using PREDICT protocols as we had been planning.

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On Feb 27, 2017, at 5:22 PM, Morzaria, Subhash (TCE)

✉ **REDACTED** wrote:

Dear Jonna/Billy,

Thank you for joining on Skype late last week to discuss the future role of FAO in the joint P2/FAO synchronized Ebola surveillance in view of the new directive from USAID for FAO to reorientate its work plans in line with the priorities of the GHSA Phase 1 countries in Africa.

The new directive from the donor entails that FAO utilizes its Ebola grant to be focused more on capacity development in the 12 GHSA Phase 1 countries (4 in East Africa, and 8 in West and Central Africa) than in research. While

this is a significant change for us, we have been actively considering the process of revising our work plans to comply with the new directive. In the last 6 weeks we have conducted several formal and informal consultations with the key stakeholders (donors, national and international partners and FAO regional and country offices), and are now beginning to reach a general consensus on the way forward to finalizing the work plans that will reflect the new orientation of the Ebola grant awarded to FAO.

Under the revised focus, it is becoming increasingly clear to us that USAID would not accept FAO to continue to conduct livestock surveillance for Ebola at the joint P-2/FAO surveillance sites in countries where Ebola is not prioritized. However, where Ebola has been prioritized we MAY have limited possibility to continue our collaboration depending on the budget for each country. While we have not completed either the work planning or budgeting exercise, the following scenarios are possible with regard to our collaboration.

1. In those countries where Ebola has not been prioritized it would be highly unlikely for FAO to collaborate with P2 to conduct active surveillance for Ebola in livestock.
2. In those countries where Ebola is a priority disease (Guinea, Liberia and Sierra Leone), FAO is likely to be able to support collection of livestock samples, provided FAO can demonstrate that this exercise will support capacity building, and help countries reach higher levels of capacities under various Action Packages as defined by the JEE process.
3. In those countries where we have already collected some samples from livestock at the agreed joint P2-FAO sites (Kenya, Tanzania and Uganda), we MAY be able to support the testing linked with training of laboratory personnel, provided the budget supports this.
4. Additional longitudinal sampling for Ebola in most East African countries may be difficult particularly if it compromises the work of capacity development under the new USAID directive.

I hope that we will be able to provide you with a clearer picture before mid-March once we have fully completed the work plans, budgeting exercise and analyzed the implications on the delivery of the programme under different scenarios.

I would like to reiterate that we immensely value our collaboration with P2, and while this new directive will impact on our collaboration in various ways in Africa, the work that we do together on MERS CoV, AI and other triangulated surveillance in Asia is in no way affected.

Thanks for your understanding, and with best regards,

Subhash

From: Andrew Clements <aclements@usaid.gov>
To: David J Wolking <djwolking@ucdavis.edu>
CC: Ryland Marbray <rmarbray@usaid.gov>; Alisa Pereira Emerging Threats Division <apereira@usaid.gov>; Shana Gillette <sgillette@usaid.gov>; predict@ucdavis.edu <predict@ucdavis.edu>; Elizabeth Leasure <ealeasure@ucdavis.edu>; Prof. Jonna Mazet <jkmazet@ucdavis.edu>
Sent: 4/25/2017 11:59:27 AM
Subject: Re: New PREDICT-2 subaward request for SGPGIMS (India, POP start 5/15/17)

Received. Thanks, David.

*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
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On Apr 25, 2017, at 6:44 PM, David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Andrew and Ryland,

Please find attached a request for a new subaward from EcoHealth Alliance. to Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS) to facilitate PREDICT-2 activities in India, which includes a subaward request letter, basis of selection memo, Excel budget, AOR checklist, and draft subaward document. **The requested POP start date is May 15, 2017.** SGPGIMS is a foreign government entity.

I'm sharing this on behalf of Liz who is on vacation so please let me know if you need anything further.

Best,

David

From: David J Wolking <djwolking@ucdavis.edu>
To: Andrew Clements <aclements@usaid.gov>
CC: Jonna Mazet <jkmazet@ucdavis.edu>; David J Wolking <djwolking@ucdavis.edu>; Alisa Pereira <apereira@usaid.gov>; Shana Gillette <sgillette@usaid.gov>
Sent: 6/6/2017 3:53:55 PM
Subject: Re: Request for update on Predict transition in SL and G

Hi Andrew,

Any news from the Guinea mission on whether they would like a call to discuss the transition and next steps?

Thanks,

David

On Wed, May 31, 2017 at 1:34 AM, Andrew Clements <aclements@usaid.gov> wrote:
Just sent the Guinea mission an email to update them on the transition and included your offer to discuss by phone. I will let you know if they would to take you up on that offer.

*Andrew P. Clements, Ph.D.
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On May 31, 2017, at 1:30 AM, Jonna Mazet <jkmazet@ucdavis.edu> wrote:

Hi Andrew -- I have added these questions to our MT call agenda, but in advance of that discussion, here are some details for you. UC Davis will be assuming leadership in both countries. The transition will be necessarily slow, only because the permissions to operate in both countries are in Metabiota's name only. That means that we must keep Metabiota in play while we work out permitting transitions to ensure that we don't have a break in project operations. We also want to make things as fair and easy on in-country staff as possible, so we will be retaining most of the staff -- some for the long-term and some for the next couple of months while we evaluate their capacities.

The transition process could take weeks to months, but we plan to continue operations as we transition. We had a call with Nathan and new Metabiota CEO Bill Rossi today, and all appears to be back on track, amicable, and progressing appropriately.

Sierra Leone:

- Global Lead will be Brian Bird, with extensive operational experience in Sierra Leone, including deployments during the most recent outbreak while working for CDC.

Brian H. Bird DVM, MSPH, PhD

One Health Institute

1089 Veterinary Medicine Dr.

School of Veterinary Medicine

University of California, Davis

bhbird@ucdavis.edu

- We are working on a laboratory capacity plan that can help to address the concerns in the MOH/ MAFPS letter. Our Country PI and Country Coordinator are involved in that process. It should be complete in 2 weeks and will be shared with DC and the Mission in advance of the official response. We can discuss the impetus of the letter from the GoSL on

the MT call. Our goal is to have a scaled lab capacity plan ready to discuss in advance and during the USAID visit mid-June. It will be scaled based on current financial obligations and planned for further steps as incremental funding is obligated.

- Field sampling will be continued; however, we would like to make sure next steps are scientifically-sound based on the results of the testing from the second shipment of samples (which is in process) and based on the desires of the Mission and the communities in response to the communication roll-out. We believe the communication piece should be the subject of the June visit, rather than field sampling.
- Brian will be able to attend the mid-June USAID/DC visit, should schedules continue to align.
- We are hopeful that introductions and coordination with the in-country communication team could be done together with the USAID/DC visitors mid-June. Is that possible? If not, and we need to move ahead separately, a planning session for roll-out of the finding would be most useful.
- There has been mention of a high-level delegation visit to MOH and MAHHS being desired to get the release of the finding rolling faster. This delegation might be perfect for that, and we would have the capacity building plan ready for delivery by this delegation if you believe that such visits are possible/advantageous.
- The lab is about a 4.5 hour drive from Freetown. Is the USAID/DC team planning on a two-day excursion to see the lab? Not sure a short spin through a lab is worth that trip, but we will accommodate if desirable.
- Now that UCD is working directly with the in-country team, we will reach out ASAP to do a joint call with the Mission, just as we did with Zandra.

Guinea:

- Global Lead will be Corina Monagin, who has extensive operational experience in Guinea and helped to initiate Predict work there when she was working for Metabiota.

Corina Monagin, MPH, DrPH
Project Scientist, PREDICT Project of USAID
One Health Institute
School of Veterinary Medicine
University of California Davis
1089 Veterinary Medicine Drive
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Mobile: +1.415.741.6996

- Corina is beginning in-country team interaction later this week, but we can probably expect several months of transition depending on what is required for transfer of permits (if transfer is even needed), just as in Sierra Leone.
- 3 full time in-country PREDICT staff and 22 field team staff will be covered at least until end of June.
 - 11 field staff in Conakry (these staff may eventually be let go if we concentrate collection in the forest region)
 - 11 field staff in N'Zérékoré (these should be kept, given the current sampling plan)
- The in-country team and MB have not had contact with the Mission about the transition. Please advise how you would like to proceed with that, but our plan is to schedule a joint reach-out to introduce the transition and answer questions ASAP. Corina is in Senegal currently, but a call may be possible while she is there. In any case, it can be accomplished soon.

Looking forward to discussing further, and please let us know if you have further questions/concerns,
Jonna

On Fri, May 26, 2017 at 8:35 AM, Andrew Clements <aclements@usaid.gov> wrote:
Hi Jonna,

Sorry to pile more on your plate.

The mission in Sierra Leone is apparently getting confusing information about the Predict management transition and they are unclear about what happens to the existing staff. I told them to try to ignore the noise and that I would provide them with an update. I'm assuming the same might also happen in Guinea.

So, can you let me know:

* what is the planned timing of the management transitions in SL and G?

* which Predict partner(s) will assume management responsibility in SL and G and what person(s) will be the primary backstop(s) for these countries?

* do you know if the local staff in SL and G will be retained?

(Perhaps it would make sense to have a call with the 2 missions like we did this week for Zandra. Thoughts?)

Two other issues for SL:

1. What is the status of Predict sending a response to the letter from MAFFS? With the various pieces that have fallen into place in the last few days regarding the budget, are you feeling more comfortable (or at least less uncomfortable) committing to capacity building in SL? It would be nice, if possible, to have this issue taken care of before the USAID team visits in mid-June.

2. Are you also feeling more comfortable in moving ahead with more field sampling in SL (and Guinea and Liberia)?

Thanks!

Andrew

P.S. Not sure whether or not there are any opportunities for the visiting USAID to see some of Predict's work in SL. Kendra thought they were planning on going to the lab. Is there anything else nearby they could see or observe while in the neighborhood?

P.P.S. We should plan on proactively reaching out to missions in all other countries where Metabiota is either being replaced or its scope reduced so that we don't have unnecessary confusion for the missions and local staff.

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: Andrew Clements <aclements@usaid.gov>
Sent: Fri, 9 Jun 2017 11:57:35 +0200
Subject: Re: PREDICT 2017 semi-annual report
To: David J Wolking <djwolking@ucdavis.edu>
Cc: Shana Gillette <sgillette@usaid.gov>, "Prof. Jonna Mazet" <jkmazet@ucdavis.edu>, Amalhin Shek <ashek@usaid.gov>, Alisa Pereira Emerging Threats Division <apereira@usaid.gov>, PREDICTMGT <predictmgt@usaid.gov>, "predict@ucdavis.edu" <predict@ucdavis.edu>

Thanks.

Yes, let's discuss later how to weave in the results without confusing people.

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On Jun 8, 2017, at 9:29 PM, David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Andrew,
Thanks for the kind words and great feedback. It was indeed a lot of work to design and pull off this time, our hope is that we can now use this template in combination with EIDITH's data reporting tools so that the report is considerably less effort 6 months down the road.

To answer your questions, we didn't produce data dashboards for India and Senegal as they only minimal data to report at this time given the status of activities. The training graphic was instead placed in the success stories write-up for Senegal. We will of course have these in place for the next report.

On the inevitable and anticipated questions about test result status, are you thinking we should put a link to HealthMap on each dashboard to direct folks to the publicly available data (largely still from P-1 activities)? We could do that but until P-2 data begins to post there this might cause even more confusion. I'll have this on our next call agenda for discussion.

We can certainly share each country's report with the respective Mission. I'll work with our partners to get this moving forward and in the mean time will post the report live to our www.publications.predict.global page.

I'll also have hard copies sent over to the USAID team in DC as soon as they are printed.

David

On Thu, Jun 8, 2017 at 12:04 PM, Andrew Clements <aclements@usaid.gov> wrote:

Hi David,

Just looked through this. Wow! I think it's a great summary of the many things PREDICT is doing and I think you all did a great job writing for multiple audiences. Looks like it was a lot of work though. Will you be able to do this again every 6 months?

I'm guessing that some people are going to look at the stats for the number of tests conducted and ask where the test results are. Perhaps you can include a link to health map and/or say that results still need to be reviewed/approved by the host governments.

FYI. A couple of countries (Senegal and India) are missing the first (dashboard) page.

Go ahead and post/share. Can you proactively share the country sheets with each Mission? I think they and the host governments would enjoy having the information.

Andrew

On Wed, Jun 7, 2017 at 9:08 PM, David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Shana,
I sure did and it is in a Drive folder that Amalhin organized. Hopefully you have access to the sections through this link below?

If that doesn't work then I'm sure Amalhin can share the appropriate one.

David

On Wed, Jun 7, 2017 at 10:52 AM, Shana Gillette <sgillette@usaid.gov> wrote:

Hi David,
I am on TDY so I may have missed the email, if so please disregard. Have you split the report into sections?
Best
Shana

On Thursday, June 1, 2017, Amalhin Shek <ashek@usaid.gov> wrote:

Is it possible to just split the report the way you did with the P1 final report, by sections? And upload it into a drive that way? David, could you put it in a google drive from your personal account and share with our e-mail addresses?

Amalhin Shek | Budget & Communications
[Emerging Threats Division](#), Office of Infectious Disease
USAID/Washington, Bureau for Global Health
Phone: **REDACTED** | RRB-3.6.056
[Subscribe to our Newsletter!](#)

On Thu, Jun 1, 2017 at 3:00 PM, Shana Gillette <sgillette@usaid.gov> wrote:

Hi David,
I am looping in Cassandra to this discussion. It may be possible for us to create a folder for PREDICT on the gdrive and allow you access. Cassandra will be able to confirm if this is possible. Otherwise, could you optimize the .pdf and then zip it? We could unzip it on this end if you zip it using a Windows system.
Best,

Shana

On Tue, May 30, 2017 at 2:09 PM, David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Shana,
I'm attaching the report here as a heavily reduced PDF file. Please note that some graphics in this version are in some cases blurred or distorted (especially Section 2. M&E) to get the file size down to something we can share over email. If needed, I can send over high resolution sections of the report so the original quality is retained. It would probably be best to find a solution around the firewall so if you have recommendations let us know.

Best,

David

On Tue, May 30, 2017 at 10:10 AM, Shana Gillette <sgillette@usaid.gov> wrote:

Hi David,
I am having trouble accessing the report because of a firewall. Is it possible to zip the file and send it via email?
Best,

Shana

On Fri, May 26, 2017 at 5:53 PM, David J Wolking <djwolking@ucdavis.edu> wrote:

Hi again,

We are planning to have 10 copies of the report printed and will send them out to Washington. Just let me know your preferred address and we will get those in the mail ASAP.

Best,

David

On Fri, May 26, 2017 at 14:24 David J Wolking <djwolking@ucdavis.edu> wrote:

Hi Andrew, Alisa, and Shana,
Thanks again for the generous extension for our semi-annual report submission. With the extra time we were able to work with our teams at the global and country levels to redesign the report in a style we hope addresses the needs of our multiple audiences and stakeholders. This new report includes a graphic presentation of our M&E indicators and dashboards for all countries. Considerable effort went into this product thanks to the efforts and talent of all those working with the PREDICT consortium.

You can access the report at the link below (or by clicking the cover image). Thanks to the visuals, the file is too large to attach as a single PDF but I can send it in sections if preferred.

PREDICT 2017 Semiannual Report: www.2017sar.predict.global

We included an M&E section in the report (Section 2) along with an appendix of related M&E products (Section 6), but I am also attaching the M&E Excel file as requested by Tiffany for consolidation with data from our EPT-2 partners.

Please let us know if you have any questions or concerns.

Enjoy the holiday weekend,

David

[<PREDICT 2017SAR Cover.png>](#)

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Sent from Gmail Mobile

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Shana Gillette, PhD

Senior Risk Mitigation Adviser

Emerging Threats Division

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To post to this group, send email to predictmgt@usaid.gov.

To view this discussion on the web visit

<https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAPE0Yzi28sg1W5W8AvRWV%2BBaSBiZkoGXUEiS-D1UQwcVvmzmgQ%40mail.gmail.com>.

--

Shana Gillette, PhD

Senior Risk Mitigation Adviser

Emerging Threats Division

Office of Infectious Disease

Bureau for Global Health

U.S. Agency for International Development (USAID)

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

Work Mobile: **REDACTED**

Email: 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](tel:1-571-345-4253)

E-mail: aclements@usaid.gov

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

UCDUSR0010314

From: Peter Daszak <daszak@ecohealthalliance.org>
To: Cara Chrisman <cchrisman@usaid.gov>
Cc: "Dennis Carroll (DCarroll@usaid.gov)" <DCarroll@usaid.gov>, "Jonna Mazet (jkmazet@ucdavis.edu)" <jkmazet@ucdavis.edu>, Brooke Watson <watson@ecohealthalliance.org>, **REDACTED**
Subject: RE: Bulletin of the WHO article
Sent: Fri, 30 Jun 2017 17:06:58 +0000

It should be me and Brooke at the address below.

No middle initials

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

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: Cara Chrisman [mailto:cchrisman@usaid.gov]
Sent: Friday, June 30, 2017 10:25 AM
To: Peter Daszak
Cc: Dennis Carroll (DCarroll@usaid.gov); Jonna Mazet (jkmazet@ucdavis.edu); Brooke Watson; **REDACTED**
Subject: Re: Bulletin of the WHO article

Thanks so much Peter for all your work on finalizing this - could you send along how names & affiliations should look for any EHA authors?

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
Cell: **REDACTED**
E-mail: cchrisman@usaid.gov

On Thu, Jun 29, 2017 at 8:01 PM, Peter Daszak <daszak@ecohealthalliance.org> wrote:
Hi everyone – sorry for the delays on this.

First thing I did was accept all changes from all of you, then concentrated on making sure we don't use the exact same phrases as in the Science paper. Actually it was pretty different – being based on the first version of the GVP paper which

was more relaxed style.

I then reformatted the refs for Bull WHO, and removed some repetition in the last few paras of the paper from the earlier text.

Looks great and well done all!!

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Peter Daszak

President

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From: Cara Chrisman <cchrisman@usaid.gov>
Sent: Fri, 30 Jun 2017 15:09:52 -0400
Subject: Re: Bulletin of the WHO article
To: Peter Daszak <daszak@ecohealthalliance.org>
Cc: "Dennis Carroll (DCarroll@usaid.gov)" <DCarroll@usaid.gov>, "Jonna Mazet (jkmazet@ucdavis.edu)" <jkmazet@ucdavis.edu>, Brooke Watson <watson@ecohealthalliance.org>, **REDACTED**

Great, thanks!

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
Cell: **REDACTED**
E-mail: cchrisman@usaid.gov

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Peter

Peter Daszak

President

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Sent: Friday, June 30, 2017 10:25 AM

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Cc: Dennis Carroll (DCarroll@usaid.gov); Jonna Mazet (jkmazet@ucdavis.edu); Brooke Watson; REDACTED

Subject: Re: Bulletin of the WHO article

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Senior Infectious Diseases Technical Advisor
Emerging Threats Division
Office of Infectious Disease
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Desk: [\(202\) 712-1161](tel:(202)712-1161)

Cell: REDACTED

E-mail: cchrisman@usaid.gov

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Peter

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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.

From: Andrew Clements <aclements@usaid.gov>
Sent: Tue, 19 Sep 2017 09:42:25 +0200
Subject: Request for protocol/rationale for Predict's prioritization of samples for testing
To: David J Wolking <djwolking@ucdavis.edu>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>, predictmgt@usaid.gov

Hi David,

I've been having an email conversation with Thailand about why certain samples are prioritized over others and--despite the discussion at last week's meeting in NY--I don't know your procedures well enough to be able to make a convincing defense.

The issue being raised is why oral + fecal and but not blood or urine (I explained limited funds for testing) in the context of community based surveillance. I think there may be a perception that CBS is supposed to be for early detection of individual spillover events. To me, CBS in the Predict context is part of identifying overall trends (where, when, how, why) associated with spillover in general (and not individual spillovers).

Can you send me the actual protocols/rationale so I can share them? There may be continued philosophical differences of opinion, but at least they can see the actual plan.

Thanks!

Andrew

P.S. I continue to make the point that other samples can be tested with non-ETD resources, but that doesn't ever seem to happen. I find it interesting that there is strong interest in the Predict work, but apparently not enough to use other funds.

*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*

From: Andrew Clements <aclements@usaid.gov>
Sent: Fri, 1 Dec 2017 11:12:52 +0100
Subject: Re: Change to Pending ITAs - A. Laudisoit/W. Karesh to RoC cancelled
To: Katherine Leasure <kaleasure@ucdavis.edu>
Cc: PREDICTMGT <predictmgt@usaid.gov>, Jonna Mazet <Jkmazet@ucdavis.edu>, "predict@ucdavis.edu" <predict@ucdavis.edu>

Thanks.

Cassandra: please forward to the ROC and DRC missions.

On Fri, Dec 1, 2017 at 8:03 AM, Katherine Leasure <kaleasure@ucdavis.edu> wrote:

Hi Andrew. The pending ITAs for Anne Laudisoit and William Karesh's travel to RoC have been cancelled, to be rescheduled at a later date. EcoHealth Alliance will submit a new ITA request once new dates have been confirmed. William Karesh will still be traveling to Sweden and France as approved in his original ITA. I've included both ITAs below for reference. Please let me know if you have any questions. Thank you!

EcoHealth Alliance would like to request travel approval for **Anne Laudisoit** to travel from Brussels, Belgium to Brazzaville, Republic of Congo from December 14-20, 2017 to for Formal meeting with the PREDICT team in Republic of Congo.

Trip purpose: The meeting will provide a forum for partner discussions about staff and expected activities in the region; allow effective work to update the wildlife and human sampling authorizations, and protocols of PREDICT-2 RoC for year 4, and meet the inter-Ministerial group in charge of Emerging diseases monitoring. Anne Laudisoit will be joined by the vice-president of EcoHealth Alliance, Dr. Billy Karesh, to meet the consultants hired by EHA and performing ethnographic and behavioral studies. Previous work will be revised and EIDITH training planned with the team.

EcoHealth Alliance would like to request travel approval for **Dr. William Karesh** to travel from New York, New York, USA to Stockholm, Sweden from December 9-11, 2017 to speak at the ECDC Expert Consultation on One Health Preparedness in Europe. From Stockholm, Sweden, he will travel to Paris, France from December 11-16, 2017 to speak at the World Organisation for Animal Health's (OIE) Working Group on Wildlife Meeting. From Paris, France he will travel to Brazzaville, Republic of Congo from December 16-20, 2017 to meet with PREDICT Republic of Congo project collaborators.

Trip purpose: Sweden – Dr. Karesh is to participate in the ECDC Expert Consultation on One Health Preparedness in Europe. Dr. Karesh will present in the first plenary session titled “Towards One Health preparedness for emerging infectious diseases: Insights from the PREDICT project.” As EPT Liaison, it is important for Dr. Karesh to continue to promote and optimize collaborations of the PREDICT-2 objectives. France – Following that meeting, Dr. Karesh will participate in the World Organisation for Animal Health's (OIE) Working Group on Wildlife Meeting, for which he serves as Chairman. The OIE Working Group on Wildlife advises the OIE on all health problems relating to wild animals, including emerging disease events and reporting guidelines. Dr. Karesh will have the opportunity to meet with OIE staff to discuss these and other priority topics. * *As an invited speaker at both events, the ECDC and OIE will provide funds for Dr. Karesh's economy fare and per diem expenses for these meetings.* RoC – Dr. Karesh will be attending meetings to discuss PREDICT work in Republic of Congo with collaborators and check in on the program. [\$12,500 total airfare *business class **REDACTED**/\$376 (Stockholm), \$608 (Paris), \$324 (Brazzaville) max daily per diems]

--
Katherine Leasure
HR/Payroll/Financial Assistant
One Health Institute
[530-752-7526](tel:530-752-7526)

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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.
To post to this group, send email to predictmgt@usaid.gov.

To view this discussion on the web visit https://groups.google.com/a/usaidth.gov/d/msgid/predictmgt/CAD6-xM%2BRc%2BR%2B9Z13_L7JKsmSP6FeP6NTQwkHLpN%3DvSMWc2ZmkA%40mail.gmail.com.

--

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@usaidth.gov

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

Sent: Thu, 14 Dec 2017 09:03:48 -0800
Subject: Fwd: Nice long piece on GVP
From: Jonna Mazet <jkmazet@ucdavis.edu>
To: Peter Daszak <daszak@ecohealthalliance.org>, Brooke Watson <watson@ecohealthalliance.org>, Nathan Wolfe <nwolfe@metabiota.com>, Eddy Rubin <erubin@metabiota.com>, Dennis Carroll <dcarroll@usaid.gov>, Amy Lin <amylin@usaid.gov>, Raelyn Campbell <raelyn.campbell@panoramaglobal.org>, "Kabay, Kendra" <Kabay.Kendra@bcg.com>, "Stroman, Trish" <Stroman.Trish@bcg.com>, "Harris, Samuel" <Harris.Samuel@bcg.com>, Jennifer Fluder <jfluder@usaid.gov>, "Rodriguez, Andrew" <rodriguez.andrew@bcg.com>, Yasha Feferholtz <feferholtz@ecohealthalliance.org>, Gabrielle Fitzgerald <gabrielle.fitzgerald@panoramaglobal.org>, Linda Patterson <linda.patterson@panoramaglobal.org>
Cc: **REDACTED**, Cara Chrisman <cchrisman@usaid.gov>, "Woods, Wendy" <Woods.Wendy@bcg.com>, "pmahanna@usaid.gov" <pmahanna@usaid.gov>, "dstanton@usaid.gov" <dstanton@usaid.gov>
[Virome Project Aims to Outfox Pandemics With Global Virus Atlas_GenomeWeb.pdf](https://www.genomeweb.com/pcr/virome-project-aims-outfox-pandemics-global-virus-atlas_GenomeWeb.pdf)

Hi Team,
This one came from the Association for Molecular Pathology keynote I gave. I haven't read it yet, but in case you want to peruse:

<https://www.genomeweb.com/pcr/virome-project-aims-outfox-pandemics-global-virus-atlas>

Also attached as pdf.

Talk to you soon,

Jonna



Virome Project Aims to Outfox Pandemics With Global Virus Atlas

Dec 13, 2017 | [Madeleine Johnson](#)

🔗 Premium

NEW YORK (GenomeWeb) – The scourges of Ebola, Zika, HIV, and pandemic influenza each began innocently enough as infections of animals before making the devastating leap into people. A new initiative now aims to eradicate all such zoonotic viral pandemics through a comprehensive characterization of the global virome.

Blossoming from a predecessor viral discovery project called [Predict](#), which was coordinated by the US Agency for International Development (USAID), the [Global Virome Project's](#) lofty goals involve detecting and identifying virtually all potential zoonotic viruses and assembling an atlas that can then help monitor for so-called spillover events. The group proposes that knowing all possible "bad actors" and their ecological niches could lead to refined surveillance programs, detecting incipient outbreaks and heading them off before they can get going.

The GVP itself is an initiative that is currently building momentum and hasn't officially launched, said Jonna Mazet, a member of the GVP steering committee and executive director of the [One Health Institute](#) at the University of California, Davis. The institute — a group studying the interactions of animals, humans, and the environment aiming to solve problems that impact health and conservation — also coordinates the Predict project.

"The Predict project provided the feasibility and allowed people to think that it is actually possible to detect viruses and understand the circumstances in which they might spill over prior to an outbreak starting," Mazet said, which created the foundation for the GVP's ambitions.

Predict is a consortium of global partners and health ministries around the world, and is the surveillance and virus discovery component of USAID's [Emerging Pandemic Threats program](#). It continues to be focused on building capacity to identify potential zoonotic viral threats for locations and activities that are considered high-risk pathogen transmission interfaces between humans and wildlife, where diseases are most likely to emerge.

The project has been funded by the US Congress since 2009 through a granting mechanism called cooperative agreement between the UC Davis institute and USAID.

In a talk at the recent Association for Molecular Pathology annual meeting, Mazet said that the Predict project has discovered more than 1,000 viruses so far. Only about 20 percent of these were previously known, while about 800 were novel.

Based on the foundation of the Predict work, which includes around [170 peer-reviewed publications](#) to date, the Global Virome Project hopes to forge ahead with targeted sampling in order to discover more than 99 percent of all zoonotic viruses and create an atlas.

Mazet also said in her talk that there are an estimated 800,000 viruses on the planet that are yet to be discovered, and to find them all would cost maybe \$5 billion.

These estimates are based in part on the fact that only 28 viral families have ever had spillover events from animals to humans and caused epidemics, and previously [published](#) Predict work has paved the way to estimating viral diversity.

Since its inception, Predict has spent \$170 million in 35 countries, Mazet said, training 3,300 people in lab techniques and building 60 labs around the world – sometimes in remote areas adjacent to primeval wilderness, constructed economically out of shipping containers.

The project has also sampled saliva, blood, and feces of more than 74,000 animals, particularly primates, bats, and rodents.

Confidence in the feasibility for GVP is in part based on the viral discovery workflows developed by the Predict project. Mazet said it uses a highly effective conserved-sequence PCR technique for initial viral identification. Setting up the new labs in far-flung places also meant tackling resource limitations and making fresh use of older equipment. "We're certainly helping laboratories get the most out of conventional PCR equipment that they have sitting in the corner," Mazet said.

She said the group regularly compares the conventional PCR to high-throughput genome sequencing on multiple platforms, both for efficiency and also sensitivity to pick up the viruses.

The group also does unbiased sequencing on about a quarter of all samples. With conventional PCR, the researchers can only discover viruses in viral families that are targeted with the conserved primers, Mazet explained. "We actually get more viruses out of those families that we're looking at with the PCR because it's more sensitive, but we get different viruses [with unbiased sequencing], so together we get a really nice, more complete look," she said.

The group is also moving into using platforms like [virCap sequencing](#) and other technologies that combine the very good sensitivity of PCR with the reduction in bias, she said.

In terms of funding, the GVP is still preparing to launch but the original Predict is likely to spend another \$40 million or so over the next couple of years, Mazet said. This level of funding has been possible because of a growing understanding of the global losses with each emerging infectious disease outbreak, she said.

"We lose lives and livelihoods — the threat of a Spanish flu, or even a much less severe kind of global flu outbreak, is just almost unfathomable," she said, estimating more than \$500 billion dollars a year in cost for a severe worldwide flu pandemic.

"The funding that has been going to science and technology in this realm has been nibbling around at the edges — instead of addressing it in a new way, we keep chasing the last outbreak."

For example, the chances are low that the next big outbreak will be Ebola or Zika, she said, so putting the majority of global resources into studying those viruses won't help get ahead of the next one.

Interestingly, the Predict project was in place for the recent outbreaks of Ebola and Zika, but happened to not be focusing at the time on the particular regions where those outbreaks occurred.

For Ebola, Mazet said the group's predictive models "exactly highlighted the area of highest risk being right where the spillover event happened in the West Africa outbreak, but at that time, we weren't working in West Africa, we were working in Latin America and East Africa and Southeast Asia."

In the subsequent five-year funding term, USAID added West Africa but removed South America as a region of focus, "so, we were working in West Africa and no longer working in South America when the Zika outbreak came," Mazet said.

The hope is that the Global Virome Project will help in the future. "Instead of focusing on the last region where we just had an outbreak, the world can begin to work together and realize that we're one large ecosystem and we have to be really thinking about these things globally."

Mazet said that right now, most of the data that researchers and public health agencies have to work with is around the known bad actors — the influenzas, Ebolas, SARS, MERS.

"What we need from the Global Virome Project is to identify more of those viruses that might spill over in the future, but also to understand all of the viruses that aren't spilling over," thus delineating factors that enable a virus to leap into people and targeting resources accordingly.

The factors likely include the genetic piece, Mazet said, "but those are also modulated and driven by the ecological circumstances in which these viruses are occurring and flourishing without causing disease, and the epidemiological circumstances that tell us when they are jumping from species to species help us to identify whether or not they are more likely to be able to jump into people."

An example is ongoing Predict-directed [research](#) into bat guano farming. Guano is used as a fertilizer and farming it is becoming a booming business in parts of Southeast Asia. While communities need to be able to live in their environments and have livelihoods, Mazet said, some of the ways that people generate income could be risky to their health.

"We are now aware, because of studies including the Predict project, that bat guano has a lot of virus in it, and a lot of coronavirus in it," she said. Over the last few years, there have been two major outbreaks caused by coronaviruses, including MERS, which is transmitted by camels but has been [attributed](#) to a bat-related spillover event.

"If we are aware that an industry is developing and blossoming at the same time that we're learning that what's in that guano is dangerous to human health, how do we attack that tricky problem? We can't without knowledge. We could just go in and tell people, 'don't do that', but they are not going to stop without the knowledge around what part of what they're doing is risky and how risky it is," Mazet said. Ongoing work now focuses on determining whether or not UV irradiation from drying guano in the sun reduces the ability of viruses to get into the food chain.

Overall, to Mazet and the GVP, this work is especially needed because the locales that are often most profoundly affected by a spillover event have fewer resources and weaker health systems. "We have the technology, we have the skills, and we have an obligation as a global community" to do this work, she said.

Mazet said the GVP is now drafting a policy paper that will be featured in an upcoming issue of *Science* magazine. In addition, in January, about 60 experts from around the world who comprise the GVP steering committee will be convening in Bangkok with support from the government of Thailand to hammer out the next steps for the program.

Filed Under

[PCR](#)

[Sequencing](#)

[Infectious Disease](#)

[UC Davis](#)

[US Agency for International Development](#)

We recommend

[GenArraytion Launches Test for Mosquito-Borne Pathogens Amid New CDC Zika Testing Guidelines](#)

360Dx

[Analysis of Bat Coronavirus Indicates Similarity to Human SARS-Causing Virus](#)

GenomeWeb

[Arizona Researchers Developing Handheld PCR System for Ebola Detection](#)

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[Web-Based Phylogenetic Tools Offer Insights Into Viral Evolution, Geographic Spread](#)

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[WashU's VirusSeeker Tool Aims to Harness Sequencing Data for Virus Discovery, Analysis](#)

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[UCSF Researchers Win \\$900K NIH Grant to Create Array-Based Portable Pathogen-Detection System](#)

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From: Andrew Clements <aclements@usaid.gov>
To: Jonna Mazet <jkmazet@ucdavis.edu>; djwolking@ucdavis.edu <djwolking@ucdavis.edu>
CC: Alisa Pereira <apereira@usaid.gov>
Sent: 1/5/2018 9:14:38 AM
Subject: USAID intro slides for PREDICT global meeting

Jonna, David,

See attached for my intro presentation for Tuesday afternoon.

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
Email: aclements@usaid.gov*

Overview of USAID's Emerging Pandemic Threat (EPT) and GHSA Activities

PREDICT Global Meeting, Brussels
January 9, 2018

Andrew Clements, Ph.D.

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

Emerging Threats Division



USAID
FROM THE AMERICAN PEOPLE

Emerging Threats Program

In the last 100 years...

Serious public health threats emerged from animals, including:

- **Influenzas** → 4 pandemics (1918-19, 1957-58, 1968-69, 2009-10)
- **HIV-1** → 1 pandemic (~1920-2018)
- **Coronaviruses** → 1 pandemic (2002-03)
- **Ebola** → 1 regional epidemic (2013-2016)
- **Zika** → 1 regional epidemic (~2014-2016)

Emerging Threats Division



Emerging Threats Program

In the last 100 years...

Risk of public health threats has increased as human population grows:

- Expanding settlements and increased population densities
- Increasing animal production and densities
- Increasing land conversion for crop and animal production, natural resource extraction, etc.

→ All of the above contribute to increasing animal-human contact and spillover of zoonotic diseases

Emerging Threats Division



Emerging Threats Program

In the last 100 years...

Public health systems not prepared:

- Previous viruses from animals—not covered by human surveillance
- No/limited diagnostics—at time of emergence
- No/limited vaccines, medicines—at time of emergence or today
- No/limited risk reduction interventions—to prevent animal-to-human and human-to-human transmission

Emerging Threats Division



Emerging Threats Program

Animal Viruses: Local → Regional → Global



USAID
FROM THE AMERICAN PEOPLE

Emerging Threats Program

USAID Interest in Emerging Threats

Developing countries:

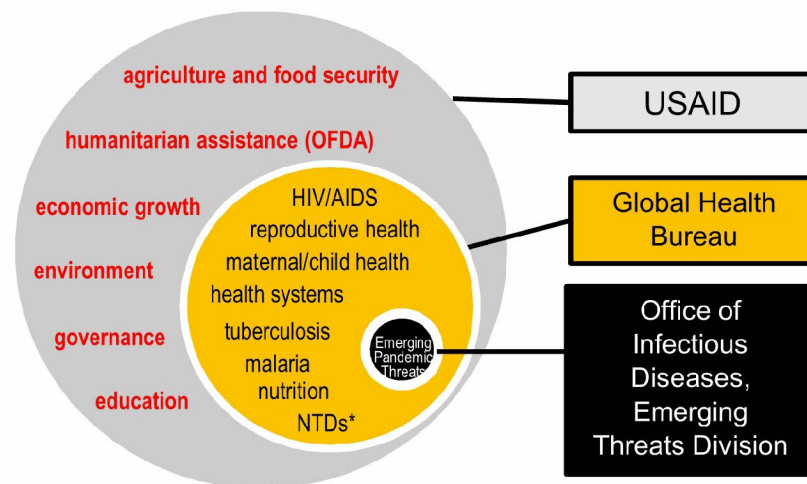
- Are more vulnerable to the emergence of new ID threats due to lower-biosecurity animal production practices and limited surveillance and response capacities
- Are more vulnerable to the health, economic, and social impacts associated with ID threats and are less resilient
- Can lose development gains as a result of ID threats

Emerging Threats Division



Emerging Threats Program

USAID Development Programs, including Health



Emerging Threats Division

* Neglected Tropical Diseases that can be addressed through mass drug administration.



USAID
FROM THE AMERICAN PEOPLE

Emerging Threats Program

USAID Strategic Focus on Emerging Threats (2005-2019)

Strategy:

Mitigate impact of novel, high-consequence pathogens arising from animals through multi-sectoral “One Health*” investments targeted at the animal-human interface

Collateral benefits:

- Contributes to strengthening animal and public health capacities that are targeted under IHR, PVS, and GHSA including routine systems for detecting and reporting infectious diseases in animals and people
- Technology and skill sets for novel/emerging disease surveillance and lab work are applicable to endemic diseases
- Increases multi-sectoral collaboration

Emerging Threats Division

* The “One Health” concept recognizes that the health of humans is connected to the health of animals and the environment.
<http://www.cdc.gov/onehealth/about.html>



Emerging Threats Program

EPT and GHSA*: A Shared Vision

EPT Goal:

*prevent, detect and control
emerging infectious diseases
at their source*

GHSA Goal:

*accelerate progress towards
making the world safe from
the threat of infectious
diseases*

[GHSA launched in Feb 2014]

* <http://www.globalhealth.gov/global-health-topics/global-health-security/>

11 GHSA "Action Packages"	EPT
Prevent 1: Antimicrobial Resistance	✓
Prevent 2: Zoonotic Disease	✓
Prevent 3: Biosafety and Biosecurity	✓
Prevent 4: Immunization	
Detect 1: National Laboratory System	✓
Detect 2 & 3: Real-Time Surveillance	✓
Detect 4: Reporting	✓
Detect 5: Workforce Development	✓
Respond 1: Emergency Operations Centers	✓
Respond 2: Linking Public Health with Law and Multisectoral Rapid Response	✓
Respond 3: Medical Countermeasures and Personnel Deployment	✓

Emerging Threats Division



USAID
FROM THE AMERICAN PEOPLE

Emerging Threats Program

USAID Funding for EPT/GHSA Activities

Total funding programmed (2005-2016): ~ \$1.2 billion

Funding provided by U.S. Congress:

- “regular” ETD budget appropriations
(made available on an annual basis; can vary from year to year)
- emergency appropriations, e.g. H5N1 AI, 2009 H1N1 pandemic, **Ebola*** (usually one time only)

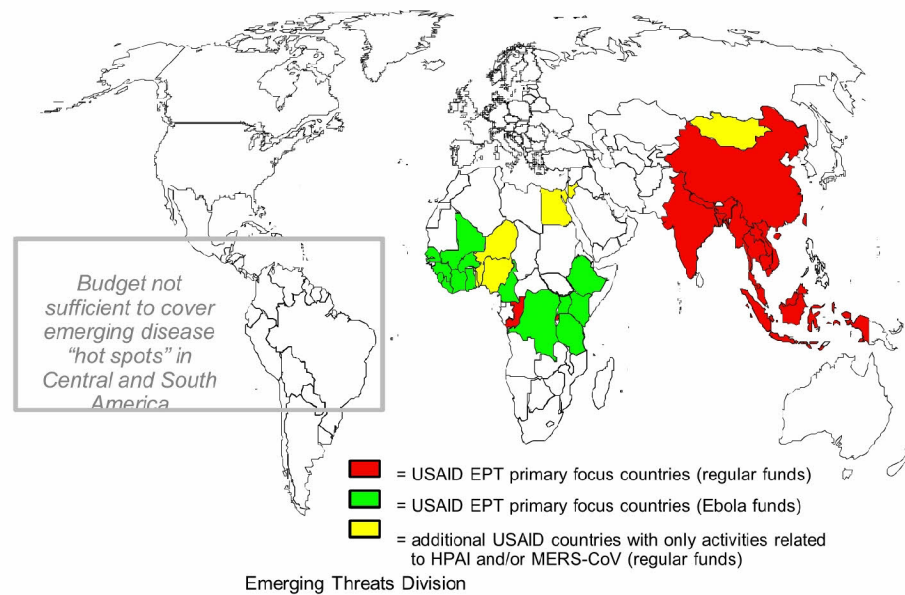
** USAID’s Ebola funding can only be used in 14 GHSA countries in Africa and must be spent by September 2019.*

Emerging Threats Division



Emerging Threats Program

Geographic Focus of EPT/GHSA Activities (2014-2019)



USAID
FROM THE AMERICAN PEOPLE

Emerging Threats Program

Program Focus of EPT/GHSA Activities (2014-2019)

Program Areas:

- Biological and behavioral surveillance at animal-human interfaces (especially animal production, land use change)
- Lab strengthening
- Operationalizing One Health (preparedness, detection, response) including multi-disciplinary OH training (pre-service and in-service)
- Developing risk-reduction approaches (including policy change)
- Support for outbreak response (including commodities)

Focus on coronaviruses,
influenzas, filoviruses,
flaviviruses,
paramyxoviruses

Special topics:

- HPAI response in Asia, Middle East, and Africa
- Priority zoonotic diseases in livestock in Africa
- Longitudinal influenza surveillance (wildlife, animals, people) [Vietnam pilot]
- MERS-CoV wildlife and livestock surveillance in Middle East, Northeast Africa
- Africa Sustainable Livestock 2050
- AMR (Asia)
- Ebola Host Project (Guinea, Liberia, Sierra Leone)
- Global Virome Project (<http://www.globalviromeproject.org/>)

Emerging Threats Division



Emerging Threats Program

EPT/GHSA Implementing Partners (2014-2019)

EPT Projects

- **ONE HEALTH WORKFORCE** (One Health Central and East Africa University Network, Southeast Asia One Health University Network, University of Minnesota, Tufts University)
- **PREDICT-2** (University of California-Davis, EcoHealth Alliance, Metabiota, Smithsonian Institution, Wildlife Conservation Society)
- **PREPAREDNESS and RESPONSE** (DAI, TRG, Palladium, AFENET)

International Organizations

- **FAO**
- **IFRC**
- **WHO**

Other collaborators (non-funded)

- U.S. Centers for Disease Control and Prevention (CDC)
- U.S. Dept. of Defense/Defense Threat Reduction Agency (DTRA)
- U.S. National Institutes of Health (NIH)
- Others U.S. Government Agencies, IOs, and donors

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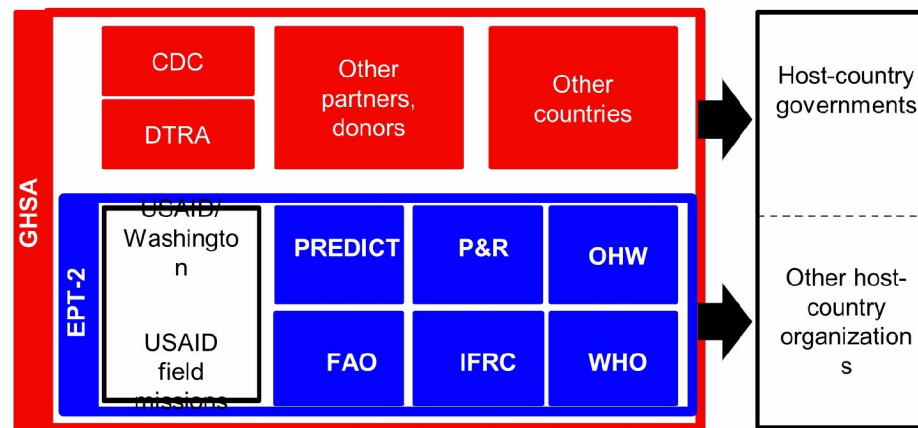
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EPT/GHSA Coordinated Approach Across Partners

Surveillance	FAO	IFRC		P-2		WHO
Laboratory	FAO			P-2		WHO
Outbreak response	FAO	IFRC		P-2	P&R	WHO
Preparedness (including forecasting)	FAO	IFRC		P-2	P&R	WHO
Training	FAO	IFRC	OHW	P-2		WHO
One Health	FAO			P-2	P&R	WHO
Policy dialogue	FAO			P-2	P&R	
Risk-reduction	FAO	IFRC		P-2		

To track progress, USAID has developed a cross-partner M&E framework.

EPT/GHSA Interfacing with Host Countries and Others



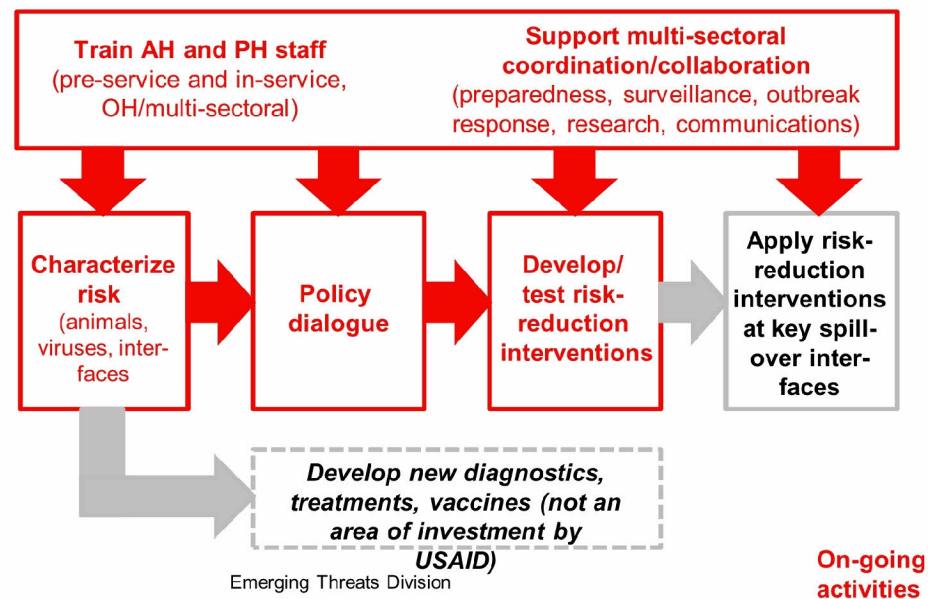
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EPT/GHSA Progression Toward Risk Reduction



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For More Information on EPT and GHSA

USAID's EPT program and FAO, PREDICT,
PREPAREDNESS & RESPONSE, and ONE HEALTH
WORKFORCE:

<http://www.usaid.gov/ept2>

Global Health Security Agenda (including country road
maps and Joint External Evaluations):

<http://www.GHSAgenda.org>

Or contact:

aclements@usaid.gov

Emerging Threats Division



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Emerging Threats Program

From: Dennis Carroll <dcarroll@usaid.gov>
Sent: Sat, 10 Mar 2018 06:24:23 -0500
Subject: [Urgent] Bulletin manuscript BLT/2017/205005
To: [REDACTED]
Cc: Peter Daszak <daszak@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>, [REDACTED] Brooke Watson <watson@ecohealthalliance.org>, [REDACTED], cchrisman@usaid.gov

Dear WHO Bulletin editorial office,

I am writing about our concerns regarding the manuscript: BLT/2017/205005 which is scheduled to be published in the April issue of the WHO Bulletin. The manuscript was originally titled: "*Introducing the Global Virome Project: The Beginning of the End of the Pandemic Era*", to be included in the PMAC issue.

During the recent revision process, the title was changed by the editorial office to "*The Global Virome Project*", which is unfortunately identical to our other publication in *Science*, which was published in the past few weeks coinciding with the revision process for the *Bulletin*. Our piece in *Science* covers the scientific underpinnings of the Global Virome Project, whereas the *Bulletin* manuscript emphasizes capacity building and the proceedings specifically related to PMAC. We believe that changing the title is essential to distinguish the two manuscripts in order to avoid any confusion amongst the broad readership of both the WHO *Bulletin* and *Science*.

Due to the importance of this issue, we request, once again, that the title be changed to "*The Global Virome Project: building global capacity to prevent emerging diseases*".

Of note, we would be willing to delay the production date or alter the wording of the new title, if necessary.

It has been a pleasure working with your editorial team thus far.

Regards,

Dennis Carroll

--

Dr. Dennis Carroll

Director, Emerging Threats Program

Bureau for Global Health

U.S. Agency for International Development

Office: [202-712-5009](tel:202-712-5009)

Mobile: [REDACTED]

From: Peter Daszak <daszak@ecohealthalliance.org>
To: Jonna Mazet <jkmazet@ucdavis.edu>
Subject: FW: EHP in the face of DRC Ebola outbreak
Sent: Tue, 29 May 2018 16:14:52 +0000
[PREDICT EHP in DRC-5.24.18.pdf](#)
[ATT00001.htm](#)

Billy shared the Ebola DRC proposal – looks great. If this pans out, I'd really like to have Anne Laudisoit heavily involved - she's spent years working in DRC, including in the remote regions of the North and has an incredible network there, including INRB, the ministries of relevance, and local communities.

Let me know what happens and I'll keep my fingers crossed that this goes through...

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
www.ecohealthalliance.org
[@PeterDaszak](#)
[@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: William B. Karesh
Sent: Tuesday, May 29, 2018 9:44 AM
To: Anne Laudisoit; Peter Daszak
Subject: Fwd: EHP in the face of DRC Ebola outbreak

proposal to USAID for Ebola work in DRC.

Begin forwarded message:

From: Jonna Mazet <jkmazet@ucdavis.edu>
Subject: Fwd: EHP in the face of DRC Ebola outbreak
Date: May 24, 2018 at 8:39:00 PM EDT
To: Karen Saylors <ksaylors@metabiota.com>, Brian Bird <bhbird@ucdavis.edu>, Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, Billy Karesh <karesh@ecohealthalliance.org>, Tracey Goldstein <tgoldstein@ucdavis.edu>, **REDACTED** Brooke Genovese <bgenovese@ucdavis.edu>, David J Wolking <djwolking@ucdavis.edu>, Megan M Doyle <mmdoyle@ucdavis.edu>

FYI & huge thanks for all of the effort today,

Jonna

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

From: **Jonna Mazet** <jkmazet@ucdavis.edu>

Date: Thu, May 24, 2018 at 5:37 PM

Subject: EHP in the face of DRC Ebola outbreak

To: Andrew Clements <aclements@usaid.gov>

Hi Andrew,

Our crack team pulled together a justification document and rough budget, as requested.

Please find it attached. We do think the work would be incredibly valuable and consistent with the EPT philosophy.

A couple of issues that we would like to note:

- NIH and others also have projects in the region, so we would want to select sites that do not overlap with their efforts
- Our plan would include sampling bats in and around households, as well as cane rats & duiker, as human serology has shown increased exposure in individuals with past exposure to these species
- We have incorporated lab capacity building and tech transfer here that is missing from the West Africa EHP, but we still anticipating needing to also test in the US because of timeline and lab throughput capacity
- The proposed timeline includes a delay to fall, as we have seen a seasonal pattern in DRC & would want to capture that window -- also allows for outbreak chaos to calm down

There are a few other nuances. I will call you to discuss in my morning,

Jonna



Expansion of PREDICT's Ebola Host Project to the epicenter of Ebola virus spillover in the Democratic Republic of Congo

Ebola is again causing deaths in the Democratic Republic of Congo (DRC), this time in Equateur province where total cases now exceed 50 across four health zones. Since 1976, the virus has caused 24 known outbreaks with nine of these occurring in DRC alone. Each outbreak presumably begins after a single or limited spillover event from an as yet unknown wildlife reservoir to people. This infected individual then initiates a chain of human-to-human transmission that reveals without remorse the collective vulnerabilities of public health infrastructure and preparedness to contain this highly infectious health foe.

Since 2016, PREDICT has been working extensively in Sierra Leone, Guinea, and Liberia in the largest and most comprehensive investigation into the origins of Ebola and other related filoviruses ever attempted. This effort, collectively referred to as the “Ebola Host Project” (EHP) seeks to improve our understanding of the wildlife reservoir, spillover hosts, and animal origins of Ebola virus; gain a greater understanding of high-risk human behavioral activities associated with spillover and transmission; and improve disease surveillance and laboratory capacities through workforce development in line with Global Health Security Agenda (GHS) priorities.

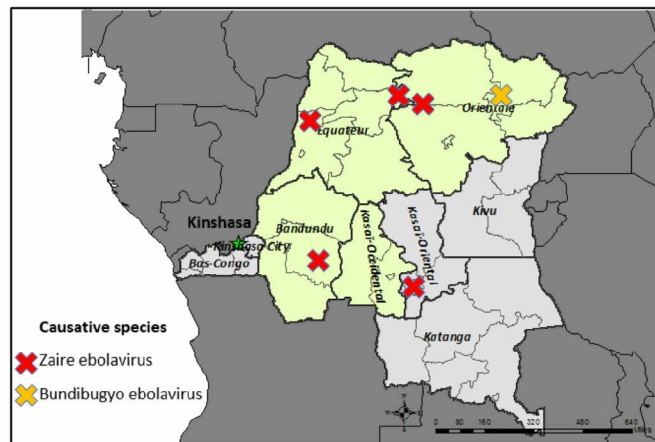


Figure. Map of historic Ebola outbreak sites in DRC 1976-2018

In less than two years, EHP teams in Guinea, Liberia, and Sierra Leone have safely sampled over 12,000 animals (mainly bats and rodents, along with goats, sheep, pigs, and non-human primates), and collected over 66,000 specimens for laboratory analysis to detect Ebola and other related viruses. The EHP approach relies on large scale animal sampling, targeting key animal taxa (bats, rodents) thought to be important in the Ebola virus transmission cycle, and broad-based laboratory detection platforms to detect a wide range of known and other as yet undiscovered ebolaviruses. Recent virus discoveries across the PREDICT project exemplify the power of the our approach to improve One Health disease surveillance.

Although EHP has been successful in West Africa, the epicenter of Ebola virus spillover and emergence has historically been in the Democratic Republic of the Congo. Since the first known Ebola outbreak in Yambuku in 1976, a total of six outbreaks has occurred along a band stretching across the northern portion of the country. This region is the classic “hot-zone” of Ebola virus emergence and likely provides the best target-rich environment to identify the animal reservoir(s) and key spillover hosts of this global health security threat.

We propose to leverage the key lessons and strategies refined and proven in West Africa by the EHP team to conduct a similar extensive investigation of Ebola virus wildlife reservoirs in DRC. We will initiate robust animal sampling at two independent sites in the north-central/east region of the country where multiple previous outbreaks and spillover events into humans have been detected. While the exact animal reservoir(s) remains unknown, it is clear that the majority of outbreaks occur in a roughly seasonal pattern that is likely linked to increased virus shedding from the likely hosts (bats, rodents, and duiker antelope). Our strategy will focus sampling efforts during this time period (roughly October to March), with extensive sample collection targeting a total of 6,000 animals across the two sites (2,500 bats, 400 rodents, and 100 duiker antelope at each site). This sample size while large, is scientifically justified, and is practically attainable given the success and lessons learned in West Africa by the EHP team. From these animals oral, rectal, fecal, and blood/serum specimens will be collected and stored securely and safely for subsequent laboratory testing by multiple molecular approaches including PREDICT's consensus filovirus PCR protocol, serology (especially targeting duiker antelope), and other specific Ebola virus detection assays as warranted.



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Identification of the animal source of the virus is a key step in the design and implementation of effective risk-mitigation and prevention strategies to reduce virus transmission from animals to people. Without this effort, intervention programs will continue to lack critical evidence about Ebola's ecology and transmissibility resulting in lessened impact, and one of the global health communities' biggest mysteries may remain unsolved as future spillover of ebolaviruses from animals into humans occurs.

Budget

Global Personnel & Fringe	\$64,500
Global Personnel to DRC for training & logistics	\$47,100
DRC travel to field sites for sampling	\$354,820
Sample Testing	\$1,336,077
Subagreements	
Field & lab staff, training & logistics	\$1,977,906
INRB staff, lab capacity & tech transfer	\$1,280,141
TOTAL	\$5,060,544



From: "Hermesen, Elizabeth D" <elizabeth.hermesen@merck.com>
To: "Shah, Cecilia" <cshah@nas.edu>, David Nabarro <david.nabarro@undp.org>, David Nabarro [REDACTED]
Dennis Carroll <dcarroll@usaid.gov>, "Erbelding, Emily (NIH/NIAID) [E]" <emily.erbelding@nih.gov>, "FUKUDA, Keiji"
<kfukuda@hku.hk>, "Grosser, Karen [JRDUS]" <KGrosser@its.jnj.com>, "Jay Siegel" [REDACTED], "Jernigan, Daniel B.
(CDC/OID/NCIRD)" <dbj0@cdc.gov>, "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, Kent Kester
<'Kent.Kester@sanofipasteur.com'>, "Kumanan Rasanathan [REDACTED]" <[REDACTED]> Peter Daszak
<daszak@ecohealthalliance.org>, "Peter Sands" <[REDACTED]> Suerie Moon <suerie.moon@graduateinstitute.ch>
Cc: "Ogawa, V. Ayano" <VOgawa@nas.edu>, "Tran, Thu Anh" <TTran@nas.edu>, 'Joanna Ong' <joannaong@hku.hk>
Subject: RE: FMT Readiness Workshop - Materials for First Planning Call
Sent: Thu, 26 Jul 2018 20:08:38 +0000
[FMT Agenda Readiness 2030 Workshop 7.19 v1_Hermesen-comments.doc](#)

Dear Planning Committee,

I am sorry I will not be able to make the call this evening. I have included some comments in the attached version of the draft agenda for your consideration.

Kind regards,
Elizabeth

From: Shah, Cecilia [mailto:cshah@nas.edu]
Sent: Monday, July 23, 2018 3:51 PM
To: David Nabarro; David Nabarro; Dennis Carroll; Hermesen, Elizabeth D; Erbelding, Emily (NIH/NIAID) [E]; FUKUDA, Keiji; Grosser, Karen [JRDUS]; 'Jay Siegel'; Jernigan, Daniel B. (CDC/OID/NCIRD); jkmazet@ucdavis.edu; Kent Kester; Kumanan Rasanathan ([REDACTED]) Peter Daszak; 'Peter Sands'; Suerie Moon
Cc: Ogawa, V. Ayano; Tran, Thu Anh; 'Joanna Ong'
Subject: FMT Readiness Workshop - Materials for First Planning Call
Importance: High

EXTERNAL EMAIL – Use caution with any links or file attachments.

Dear Planning Committee Members,

In preparation for our call on **Thursday, July 26 at 7 pm (EDT)**, see the materials attached for your review:

1. Call Agenda
2. Planning Committee Roster
3. Planning Committee Bios
4. Resources List
5. **Draft Workshop Agenda**

If you are not able to attend the call, we would very much appreciate if you could share your comments via email on the **Draft Workshop Agenda** document. We have developed this as a first proposal to the planning committee hoping to make this first call as productive as possible.

Looking forward to talking to you in a few days.

Best,
Ceci

Cecilia Mundaca Shah, MD, DrPH
Director, Forum on Microbial Threats
Board on Global Health
Health and Medicine Division | Find us at nationalacademies.org/HMD
The National Academies of Sciences, Engineering, and Medicine
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Washington, DC 20001
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**Readiness for Microbial Threats 2030:
Exploring Lessons Learned since the 1918 Influenza Pandemic
*A Workshop***

Agenda
NOVEMBER 27-28, 2018

The National Academies Keck Building
500 Fifth Street NW - Room 100
Washington, DC 20001

Objectives:

This 1.5-day public workshop will examine what lessons a century of major outbreaks and pandemics have taught, what has been learned and applied (and not applied), and the world's current readiness to prevent, detect, and respond to pandemic influenza and other potential novel diseases. Workshop participants will reflect on the challenges of improving readiness, discuss how to move beyond barriers, and assess how the latest advances in global, regional, and national governance structures, systems and capacities to fight against the next influenza pandemic can make a difference, and explore areas that need more work, including immediate and short-term actions that will have the greatest impact on global health security by 2030.

Specifically, this workshop will feature invited presentations and discussions on topics including:

- Recent progress achieved in monitoring global health security and pandemic preparedness at the global and national levels, including advances in developing national action plans stemming from the International Health Regulations and Joint External Evaluation, building strong public health capacities that incorporate a One Health approach, and developing risk analysis and assessment tools to guide resource allocation.
- Critical challenges and opportunities in developing and evaluating medical countermeasures, including seasonal vaccines, a universal influenza vaccine, and novel diagnostics and therapeutics, and strategies to secure their adequate supply and distribution, particularly ensuring access to high-risk populations.
- Various methods and tools, such as effective emergency operations centers, surveillance systems and sequencing technologies, to shorten the time between onset and detection, lab confirmation, and public communication of major disease outbreaks.
- The ethical and operational challenges and opportunities for enabling meaningful coordination, cooperation and sharing of information and technological benefits among various stakeholders, including multilateral organizations, national governments, private sector, and civil society.

Workshop speakers and discussants will contribute perspectives from government, academia, private, and nonprofit sectors from the global to local levels.

DAY 1 – TUESDAY, November 27, 2018

11:00 am ET **Welcome Remarks**
PETER DASZAK, *Chair of the Forum on Microbial Threats*
President
EcoHealth Alliance

Workshop Overview and Goals
KEIJI FUKUDA, *Workshop Chair*
School Director and Clinical Professor
University of Hong Kong School of Public Health

Impact of Outbreaks and Pandemics on People, Communities, and Economies
SPEAKER NAME
Affiliation

12:00 pm **Lunch**

Session I: Major Lessons Learned Since the 1918 Influenza Pandemic

1:00pm Session I Objectives:

- TBD

Moderator: TBD

Plenary Presentation:

A Century of Evolving Pandemic and Emerging Diseases Challenges

SPEAKER
Affiliation

Panel Discussion:

Question for all panelists: “What should we have learned and still must act upon from a century of major outbreaks & pandemics?”

Global Perspective & Lessons

SPEAKER
Affiliation

National and Community Perspective & Lessons

SPEAKER
Affiliation

Private Sector & Institutional Perspective & Lessons

SPEAKER
Affiliation

WORKSHOP ON READINESS FOR MICROBIAL THREATS 2030

1:50pm **Q&A Discussion with Audience: “What additional lessons should be captured?”**

2:50pm **Break**

Session II: Global Experiences Related to Preparedness

3:00pm Session II Objectives:

- To highlight where there have been major advances in preparedness and response and why
- TBD

Moderator: TBD

Plenary Presentation:

Transformation of China’s Public Health System and Preparedness following the SARS Outbreak

SPEAKER

Affiliation

Short Presentations:

The Ebola Virus Epidemic and Post-Epidemic Capacity Building Experience in West Africa and Democratic Republic of the Congo

SPEAKER

Affiliation

Influenza Vaccine: From Development to Immunization During the 2009 Influenza Pandemic

SPEAKER

Affiliation

MERS in Kingdom of Saudi Arabia and Republic of Korea

SPEAKER

Affiliation

4:05 pm **Panel Discussion: “What must be done to remove the obstacles?”**

Lessons from a Recent Table Top Exercise in the United States

SPEAKER

Affiliation

Progress in Application of One Health Approaches

SPEAKER

Affiliation

4:40 pm **Q&A Discussion with Audience**

WORKSHOP ON READINESS FOR MICROBIAL THREATS 2030

5:30pm **Adjourn**

5:35pm **Reception**

DAY 2 – WEDNESDAY, November 28, 2018

8:30am **Welcome & Recap Day 1**
KEIJI FUKUDA, *Workshop Chair*
School Director and Clinical Professor
University of Hong Kong School of Public Health

Session III: Overcoming Critical Impediments to Achieve Greater Preparedness

8:40am **Keynote Day II**
SPEAKER NAME
Title
Affiliation

9:00am **Breakout Session**

Objectives:

- To address the following question: “What are the fundamental and most important impediments to overcome achieving greater preparedness at the global, national, and local and private sector levels and how can this be changed?”

Introduction to Session

SPEAKER
Affiliation

9:10am (mobilize to breakout rooms)

9:15 am **Breakout Session**

Group 1 – Political sphere: How to leverage political ownership and finances so preparedness is constant rather than episodic?

Moderator: TBD

Group 2 – Coordination: How to incentivize functional cooperation and coordination across health, agriculture and other sectors related to preparedness and response?

Moderator: TBD

Group 3 – Access: How to ensure the greatest possible fairness in terms of access to technology and countermeasures?

WORKSHOP ON READINESS FOR MICROBIAL THREATS 2030

Moderator: TBD

Group 4 – Communication and Trust: How to communicate accurate information, build trust and meet community concerns in the current era?

Moderator: TBD

10:45am **Break**

11:00am **Breakout Group Reports and Discussion**

Session Moderator: TBD

Group 1 Moderator:

Group 2 Moderator:

Group 3 Moderator:

Group 4 Moderator:

12:00 pm **Lunch**

Session IV: Top Priorities and Actions for Preparedness by 2030

1:00pm Session IV Objectives:

- TBD
-

Moderator: TBD

Insert few speakers for short reactionary statements to the breakout session discussions

2:30pm **Summary Lecture**
KEIJI FUKUDA, *Workshop Chair*
School Director and Clinical Professor
University of Hong Kong School of Public Health

2:50pm **Closing Remarks**
PETER DASZAK, *Chair of the Forum on Microbial Threats*
President
EcoHealth Alliance

3:00pm **Adjourn**

From: "Shah, Cecilia" <cshah@nas.edu>
To: "Hermesen, Elizabeth D" <elizabeth.hermesen@merck.com>, David Nabarro <david.nabarro@undp.org>, David Nabarro <[REDACTED]>, Dennis Carroll <dcarroll@usaid.gov>, "Erbelding, Emily (NIH/NIAID) [E]" <emily.erbelding@nih.gov>, "FUKUDA, Keiji" <kfukuda@hku.hk>, "Grosser, Karen [JRDUS]" <KGrosser@its.jnj.com>, 'Jay Siegel' <[REDACTED]>, "Jernigan, Daniel B. (CDC/OID/NCIRD)" <dbj0@cdc.gov>, "jkmazet@ucdavis.edu" <jkmazet@ucdavis.edu>, Kent Kester <'Kent.Kester@sanofipasteur.com'>, "Kumanan Rasanathan [REDACTED]" <[REDACTED]>, "Peter Daszak" <daszak@ecohealthalliance.org>, 'Peter Sands' [REDACTED] Suerie Moon <suerie.moon@graduateinstitute.ch>
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Subject: RE: FMT Readiness Workshop - Materials for First Planning Call
Sent: Thu, 26 Jul 2018 20:27:53 +0000

Thanks so much, Elizabeth. After the call, I will share with all committee members an updated version of the agenda that incorporates everyone's comments.

Best,

Ceci

From: Hermesen, Elizabeth D <elizabeth.hermesen@merck.com>
Sent: Thursday, July 26, 2018 4:09 PM
To: Shah, Cecilia <cshah@nas.edu>; David Nabarro <david.nabarro@undp.org>; David Nabarro <[REDACTED]>, Dennis Carroll <dcarroll@usaid.gov>; Erbelding, Emily (NIH/NIAID) [E] <emily.erbelding@nih.gov>; FUKUDA, Keiji <kfukuda@hku.hk>; Grosser, Karen [JRDUS] <KGrosser@its.jnj.com>; 'Jay Siegel' <[REDACTED]>; Jernigan, Daniel B. (CDC/OID/NCIRD) <dbj0@cdc.gov>; jkmazet@ucdavis.edu; Kent Kester <'Kent.Kester@sanofipasteur.com'>; Kumanan Rasanathan <[REDACTED]>, Peter Daszak <daszak@ecohealthalliance.org>; 'Peter Sands' <[REDACTED]>; Suerie Moon <suerie.moon@graduateinstitute.ch>
Cc: Ogawa, V. Ayano <VOgawa@nas.edu>; Tran, Thu Anh <TTran@nas.edu>; 'Joanna Ong' <joannaong@hku.hk>
Subject: RE: FMT Readiness Workshop - Materials for First Planning Call

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Best,
Ceci

Cecilia Mundaca Shah, MD, DrPH

Director, Forum on Microbial Threats

Board on Global Health

Health and Medicine Division | Find us at nationalacademies.org/HMD

The National Academies of Sciences, Engineering, and Medicine

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E-mail: cschah@nas.edu

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From: **REDACTED**
To: Peter Daszak <daszak@ecohealthalliance.org>, Brooke Genovese <bgenovese@ucdavis.edu>, Kevin Olival <olival@ecohealthalliance.org>, Alison Andre <andre@ecohealthalliance.org>
Cc: Luke Hamel <hamel@ecohealthalliance.org>, Jonna Mazet <jkmazet@ucdavis.edu>
Subject: RE: October 5th - Peter's Availability to meet with Jonna
Sent: Fri, 21 Sep 2018 17:01:36 +0000

Thanks Peter!

From: Peter Daszak [mailto:daszak@ecohealthalliance.org]
Sent: Friday, September 21, 2018 9:58 AM
To: **REDACTED**; Brooke Genovese <bgenovese@ucdavis.edu>; Kevin Olival <olival@ecohealthalliance.org>; Alison Andre <andre@ecohealthalliance.org>
Cc: Luke Hamel <hamel@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>
Subject: RE: October 5th - Peter's Availability to meet with Jonna

Can prob do the Friday but not the Monday – I'm flying to China on the Saturday.

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
www.ecohealthalliance.org
[@PeterDaszak](#)
[@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: **REDACTED**
Sent: Friday, September 21, 2018 12:52 PM
To: Peter Daszak; Brooke Genovese; Kevin Olival; Alison Andre
Cc: Luke Hamel; Jonna Mazet
Subject: RE: October 5th - Peter's Availability to meet with Jonna

Dear all,

I have been informed that Thanat's visiting dates have been changed to the third week of October due to training availability at CII. He is very much looking forward to meet EHA scientists, so I am now exploring alternative dates.

Kevin and Peter/Alison, would you be available to meet with Thanat on Fri Oct 12 or Mon Oct 15?

Thank you,

REDACTED

REDACTED

From: Peter Daszak [<mailto:daszak@ecohealthalliance.org>]
Sent: Wednesday, September 19, 2018 8:55 PM
To: Eri Togami <etogami@ucdavis.edu>; Brooke Genovese <bgenovese@ucdavis.edu>; Kevin Olival <olival@ecohealthalliance.org>; Alison Andre <andre@ecohealthalliance.org>
Cc: Luke Hamel <hamel@ecohealthalliance.org>; Jonna Mazet <jkmazet@ucdavis.edu>
Subject: RE: October 5th - Peter's Availability to meet with Jonna

I think I'm in Atlanta giving a talk at the zoo, but I'll check this week...

Cheers,

Peter

Peter Daszak
President

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

Tel. +1 212-380-4474
www.ecohealthalliance.org
[@PeterDaszak](https://twitter.com/PeterDaszak)
[@EcoHealthNYC](https://twitter.com/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: REDACTED
Sent: Wednesday, September 19, 2018 7:47 PM
To: Brooke Genovese; Kevin Olival; Alison Andre
Cc: Luke Hamel; Jonna Mazet; Peter Daszak
Subject: RE: October 5th - Peter's Availability to meet with Jonna

Hi everyone,

Could we tentatively hold 2-4pm ET on Friday Oct 5 for a meeting with Thanat, Jonna, Kevin, and Peter at EHA? I know how tight everyone's schedules are, so it would be great if we could block off a time while we wait for various approvals.

Thank you,



From: Brooke Genovese
Sent: Tuesday, September 18, 2018 4:56 PM
To: Kevin Olival <olival@ecohealthalliance.org>; Alison Andre <andre@ecohealthalliance.org>
Cc: Luke Hamel <hamel@ecohealthalliance.org>; REDACTED

Subject: Re: October 5th - Peter's Availability to meet with Jenna

Great! Let's plan for meetings on Oct. 5. [REDACTED] is checking in with Thanat and we'll get back to you with some potential meeting times in the afternoon.

-Brooke

From: Kevin Olival <olival@ecohealthalliance.org>

Date: Tuesday, September 18, 2018 at 12:31 PM

To: Alison Andre <andre@ecohealthalliance.org>

Cc: Brooke Genovese <bgenovese@ucdavis.edu>, Luke Hamel <hamel@ecohealthalliance.org>

Subject: Re: October 5th - Peter's Availability to meet with Jenna

I should be around on Oct 5th. Thanks.

On Sep 18, 2018, at 11:27 PM, Alison Andre <andre@ecohealthalliance.org> wrote:

Hi Brooke,

Peter will be returning from Atlanta on the 5th but would be available to meet that afternoon.

Best,
Alison

From: Brooke Genovese <bgenovese@ucdavis.edu>

Date: Tuesday, September 18, 2018 at 1:28 PM

To: Alison Andre <andre@ecohealthalliance.org>

Cc: Kevin Olival <olival@ecohealthalliance.org>

Subject: October 5th - Peter's Availability to meet with Jenna

Hi Alison & Kevin,

Jonna will be in NYC on October through 5 and would like to meet with Peter and/or Kevin, if possible. Thanat Chookajorn (GVP) will also be in town.

Do you know if Peter is available? Kevin, are you also available to meet?

-Brooke

From: Dennis Carroll <dcarroll@usaid.gov>
Sent: Sun, 23 Sep 2018 06:16:50 -0700
Subject: Re: Dave McIver's participation in the GVP Thailand meeting.
To: Eddy Rubin <erubin@metabiota.com>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>

Eddy - thanks for the heads up - [REDACTED]
David will be great (but not you 💎). On a different note - I'd like to set up a phone call with you, Peter B and myself to discuss how to respond to the French request for more info on GVPs planned data management scheme. Peter is currently at his Bavarian farm - given the time difference (+9 PCT) are there times this week you might be available?
d

Dr Dennis Carroll
Director
Emerging Threats
Global Health
USAID

[REDACTED]

On Sep 21, 2018, at 8:40 PM, Eddy Rubin <erubin@metabiota.com> wrote:

Hi Jonna, Peter and Dennis,
Unfortunately, I will not be able to travel to Thailand for the GVP meeting. [REDACTED]
[REDACTED] overlaps with the meeting that I need to be around for. Despite my efforts I have not been able to change the date [REDACTED]
I have been putting together a data platform presentation for the meeting with Dave McIver, but I want to make sure it is ok with group before I finalize his participation. An advantage of Dave is that he has worked extensively with the EIDITH team and has been involved in some discussions with Peter Bogner.
Hope this sounds ok.
Best
Eddy

E-mail: csah@nas.edu

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**New Members of the Forum on Microbial Threats
BIOGRAPHIES**



Rick A. Bright, Ph.D. is the deputy assistant secretary for preparedness and response and the director of the Biomedical Advanced Research and Development Authority (BARDA), which is a component of the Office of the Assistant Secretary for Preparedness and Response in the U.S. Department of Health and Human Services. He oversees the advanced development and procurement of medical countermeasures against an array of threats to national security and the public's health, including chemical, biological, radiological, nuclear threats and pandemic influenza, and emerging infectious diseases. Dr. Bright began his career in vaccine and therapeutics development at the U.S. Centers for Disease Control and Prevention, with a focus on influenza viruses, antiviral drugs, and the development of novel assays for high throughput surveillance for resistance to antiviral drugs. For this work, Dr. Bright was a recipient of the Charles C. Shepard Science Award for Scientific Excellence. He has extensive experience in the biotechnology industry where he served in senior leadership and executive management roles. Dr. Bright has also held senior scientific leadership positions in nongovernmental organizations where he championed innovative vaccine development and international vaccine manufacturing capacity expansion in developing countries. He serves as an international subject matter expert in vaccine, drug, and diagnostics development and has served as an advisor to the World Health Organization and the U.S. Department of Defense. Dr. Bright joined BARDA in 2010, and prior to becoming director in late 2016, he served as director of the BARDA's Influenza and Emerging Infectious Diseases Division. Dr. Bright received his Ph.D. in immunology and virology from Emory University and his B.S. in biology and physical sciences from Auburn University.

Alan Tennenberg, M.D., M.P.H., is the Chief Medical Officer of Johnson & Johnson Global Public Health. Trained as an infectious diseases physician, Alan brings over 25 years of experience in the pharmaceutical industry, clinical medicine, public health, and academia. As Chief Medical Officer, he is responsible for building strategic relationships with key stakeholders and partners in government, academia, multi-lateral institutions, and non-governmental organizations around the world. He is a leading figure in facilitating private sector engagement to advance the Global Health Security Agenda.



From: Dennis Carroll <dcarroll@usaid.gov>
Sent: Thu, 9 May 2019 12:55:52 -0400
Subject: Re: Proposed dates for the 1st TVPP Core Group meeting
To: Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>
Cc: Cara Chrisman <cchrisman@usaid.gov>, Eri Togami <etogami@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, Peter Daszak <daszak@ecohealthalliance.org>, Daniel Schar <dSchar@usaid.gov>

Sudarat, thanks. June 24 should work. I have just booked my flights and am scheduled to arrive in Bangkok from Chiang Mai on June 21 and depart for Putrajaya on June 25.(FYI, I will arrive in Chiang Mai on June 17).

d

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

REDACTED

On Wed, May 8, 2019 at 9:25 PM Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

Apologies, i mean June 24 or 25 before your departure to Putrajaya.
Best regards,
Sudarat

Sent from my mobile.

On May 9, 2019, at 8:21 AM, Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov> wrote:

Dear Dennis and Cara,
It has been such a long process to get an official designation from each government sector (DLD, DNP, and DDC) to serve as a member of TVPP core group. Now we got all of them including the three representatives from Universities (by voting) on board . The 1st TVPP core group meeting will be organized during the first week of June. We may plan the second meeting 'if you will be in BKK on June 25 or 26 right after ISWALD conference.

Best regards,
Sudarat

Sent from my mobile.

Begin forwarded message:

From: "Wongsathapornchai, Kachen (FAORAP)" <**REDACTED**>
Date: May 9, 2019 at 7:39:15 AM GMT+7
To: "prasert.aue@mahidol.ac.th" <prasert.aue@mahidol.ac.th>, "noppavan.j@dmisc.mail.go.th" <noppavan.j@dmisc.mail.go.th>, **REDACTED**,
REDACTED, "pilaipan.put@mahidol.ac.th" <pilaipan.put@mahidol.ac.th>, "supapon.che@mail.kmutt.ac.th" <supapon.che@mail.kmutt.ac.th>, "romebua@health.moph" <romebua@health.moph>

Cc: Sudarat Damrongwatanapokin <sdamrongwatanapokin@usaid.gov>, "Kalpravidh, Wantanee (FAORAP)"
<**REDACTED**>, Tosapol Dejyong <**REDACTED**>, "Claes,"
<**REDACTED**>, Daniel Schar <dschar@usaid.gov>
Subject: Proposed dates for the 1st TVPP Core Group meeting

Dear all,

Reference is made to the Roundtable Dialogue towards Establishing a Thailand National Virome Project (October 2018) and the Consultation Meeting – Next Steps for Thailand Virome Project Partnership (January 2019). We would like to congratulate you on your nomination / selection to serve as members of the TVPP Core Group. The official appointment of the TVPP Core Group members is currently under the process by the DMSc. While waiting for the official appointment, and as agreed during the previous meeting in January, we would like to solicit your available to organize a 1-day meeting among the TVPP Core Group members. We have created a Doodle poll in the following link to identify the best suitable date during the first week of June. Objectives and a program of the meeting will be shared with you soon. Please kindly provide your feedback by Friday 24 May so we can identify other logistics.

<https://doodle.com/poll/pn2q3fhxz7vq9itm>

Best regards,

Kachen Wongsathapornchai, DVM, PhD

Emergency Centre for Transboundary Animal Diseases (ECTAD)

Food and Agriculture Organization of the United Nations (FAO)

Regional Office for Asia and the Pacifics



Food and Agriculture
Organization of the
United Nations

Working for  #ZeroHunger

From: Andrew Clements <aclements@usaid.gov>
Sent: Fri, 6 Sep 2019 16:56:53 +0200
Subject: Re: Bangladesh and budget revision request
To: Elizabeth Leasure <ealeasure@ucdavis.edu>
Cc: Jonna Mazet <jkmazet@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, "predictmgt@usaid.gov" <predictmgt@usaid.gov>

Got it. 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

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

On Fri, Sep 6, 2019 at 3:54 PM Elizabeth Leasure <ealeasure@ucdavis.edu> wrote:

Hi again. Please also note that an additional \$51K will be needed to cover in-country staff severance costs if the stop work order isn't lifted soon.

Thanks,
Liz

Elizabeth Leasure
Financial Operations Manager
One Health Institute
University of California, Davis
Cell: **REDACTED**

From: Elizabeth Leasure
Sent: Thursday, September 5, 2019 2:37:41 PM
To: Andrew Clements <aclements@usaid.gov>; Jonna Mazet <jkmazet@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>
Cc: predictmgt@usaid.gov <predictmgt@usaid.gov>
Subject: RE: Bangladesh and budget revision request

Hi Andrew. Please see the completed form attached. If you have any questions, please let me know.

Thanks,
Liz

Elizabeth Leasure
Financial Operations Manager
One Health Institute
REDACTED (cell)

530-754-9034 (office)

Skype: ealeasure

UCDUSR0010370

From: Andrew Clements <aclements@usaid.gov>
Sent: Wednesday, September 4, 2019 10:18 AM
To: Jonna Mazet <jkmazet@ucdavis.edu>; David John Wolking <djwolking@ucdavis.edu>; Elizabeth Leasure <ealeasure@UCDAVIS.EDU>
Cc: predictmgt@usaid.gov
Subject: Bangladesh and budget revision request

Here's a template you can use for the proposed FY18 budget revision to cover the Bangladesh deficit.

Please propose what you think is easiest/cleanest.

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

From: Andrew Clements <aclements@usaid.gov>
Sent: Wed, 11 Sep 2019 03:16:57 -0400
Subject: Re: Change to Approved ITA - Bird+Smith (SL) Rescheduled
To: Katherine Leasure <kaleasure@ucdavis.edu>
Cc: PREDICTMGT <predictmgt@usaid.gov>, Predict inbox <predict@ucdavis.edu>, Jonna Mazet <Jkmazet@ucdavis.edu>, mdea@usaid.gov

Thanks, Katie.
Copying Monica Dea at USAID/Sierra Leone for her awareness.

*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*

On Sep 11, 2019, at 1:42 AM, Katherine Leasure <kaleasure@ucdavis.edu> wrote:

Hi Andrew. The previously approved travel for Brian Bird and Bridgette Smith to Sierra Leone has been rescheduled for September 23-29, 2019 (amended ITA below). Please let me know if you have any questions. Thanks!

AMENDED ITA:

UC Davis would like to request travel approval for Dr. Brian Bird and Ms. Bridgette Smith to travel from Sacramento, California, USA to Freetown, Sierra Leone from September 23-29, 2019 for meetings with in-country PREDICT team members, GoSL Ministry and District-level to finalize project closeout and hold the closeout meeting with our partners.

Trip purpose: In Freetown, Dr. Bird and Ms. Smith will meet and work with the Mission and GoSL Ministry and District-level officials, to finalize closeout processes. They will also work on Sierra Leone operations with team members to close out the project, and hold the final closeout meeting with our partners.

PREVIOUS ITA:

UC Davis would like to request travel approval for Dr. Brian Bird and Ms. Bridgette Smith to travel from Sacramento, California, USA to Freetown, Sierra Leone from August 31 to September 7, 2019 for meetings with in-country PREDICT team members, other GHSA partners, GoSL Ministry and District-level to prepare to wrap up the project in the last month and hold the closeout meetings with our partners.

Trip purpose: In Freetown, Dr. Bird and Ms. Smith will meet and work with the Mission and GoSL Ministry and District-level officials, to discuss wrap up of PREDICT-related activities for Year 5. They will also work on Sierra Leone operations with team members to close out the project, and hold the final closeout meeting with our partners.

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

--
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.

To view this discussion on the web visit <https://groups.google.com/a/usaid.gov/d/msgid/predictmgt/CAD6-xM%2B-eNiyeUPEx2nAMYk5mP5oyVGR3xtRdFqWZVbcVmbNJw%40mail.gmail.com>.

From: Andrew Clements <aclements@usaid.gov>
To: David J Wolking <[REDACTED];bhbird@ucdavis.edu <bhbird@ucdavis.edu>;Jonna Mazet <jkmazet@ucdavis.edu>
CC: predictmgt@usaid.gov <predictmgt@usaid.gov>
Sent: 9/24/2019 12:21:53 PM
Subject: Fwd: Check in

Can you follow up with Monica? 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*

Begin forwarded message:

From: Monica Dea <mdea@usaid.gov>
Date: September 24, 2019 at 9:19:10 PM GMT+2
To: aclements@usaid.gov
Subject: Check in

Hi Andrew,
I hope all is well.
Can you please help me with the process for assets disposition? What are the parameters and who will make the final decision? How much time we have to have this completed?
Also, do you have the SL draft report?
I appreciate all your help and support.
Thank you.

Sent from my iPhone

From: Oladele Ogunseitan <oladele.ogunseitan@uci.edu>
Subject: OHW-NG Training & Empowerment Workgroup: Doodle-Poll to Schedule Next Meeting
Sent: Mon, 18 Nov 2019 10:26:42 -0800
To: Christine Kreuder Johnson <ckjohnson@ucdavis.edu>, David John Wolking <djwolking@ucdavis.edu>, Terra Kelly <trkelly@ucdavis.edu>, Tracey Goldstein <tgoldstein@ucdavis.edu>, Michael S Wilkes <mswilkes@ucdavis.edu>, "Martin H. Smith" <mhsmith@ucdavis.edu>, Judy Khanyola <jkhanyola@icapkenya.org>, alexandra zuber <alexandrazuber@atahealthstrategies.com>, Catherine Machalaba <machalaba@ecohealthalliance.org>, Bruce Baird Struminger <BStruminger@salud.unm.edu>, "McNeil, Carrie S." <csmcnei@sandia.gov>, Jutta Lehmer <JLehmer@salud.unm.edu>, Ndola PRATA <ndola@berkeley.edu>, onehealthnextgen Sympa List <onehealthnextgen@ucdavis.edu>, "Rabkin, Miriam" <mr84@cumc.columbia.edu>, "Getachew B. Kassa" <gk2353@cumc.columbia.edu>, Kirsten Gilardi <kvgilardi@ucdavis.edu>, Jonna Mazet <jkmazet@ucdavis.edu>, Jennifer K Lane <jklane@ucdavis.edu>, Emily Hagan <hagan@ecohealthalliance.org>, Woutrina A Smith <wasmith@ucdavis.edu>, Amy J Armistad <AArmistad@salud.unm.edu>, Constance Were <cwere@salud.unm.edu>, **REDACTED**, **REDACTED**, "th2604@columbia.edu" <th2604@columbia.edu>, Jon Epstein <epstein@ecohealthalliance.org>, "Tiffany G. Harris" <th2604@cumc.columbia.edu>, **REDACTED**

OHW-NG: Training & Empowerment Update

Greetings,

The next zoom meeting of the OHW-NG-Training and Empowerment workgroup will focus on three topics:

1. Workplan development and implementation for the initial project period.
2. Strategies to effectively engage SEAOHUN, following last week's face-to-face meeting in Bangkok.
3. Planning for the upcoming face-to-face meeting with OHCEA during 4-6 December.

Our zoom meeting will benefit from the outcome of other OHW-NG meetings scheduled this week. Therefore, the proposed dates in the doodle-poll begin with Thursday of this week, and extend only until Tuesday of next week due to Thanksgiving Holiday. We will try to accommodate as many participants as possible, noting also that we can always share thoughts and ideas by email to the group.

Please click on the following doodle-poll link to record your schedule preferences:

<https://doodle.com/poll/7z3rcfuyvkmmda82>

Thanks!

- Dele

Oladele A. Ogunseitan, PhD, MPH, BCES, CPH
University of California Presidential Chair
Professor of Population Health & Disease Prevention
Professor of Social Ecology
University of California, Irvine
CA 92697 USA