

From: Graham, Barney (NIH/VRC) [E]
Sent: Wed, 15 Apr 2020 03:12:19 +0000
To: Bok, Karin (NIH/VRC) [E]; Mascola, John (NIH/VRC) [E]
Subject: RE: DUE 10 AM tomorrow: Vaccine Assessment Table for Your Input
Attachments: Copy of Vaccine Assessment Table v1.3_GRAHAM.xlsx

This is a very quick review. I think the list could be easily narrowed down to a top ten.

I highlighted some things I think could work (yellow) and some things that I don't think will work (gray) and some things that should not be done (red/pink). Most have comments to explain thinking.



Barney

From: Bok, Karin (NIH/VRC) [E] (b) (6)>
Sent: Tuesday, April 14, 2020 6:38 PM
To: Mascola, John (NIH/VRC) [E] (b) (6)>; Graham, Barney (NIH/VRC) [E] (b) (6)
Subject: DUE 10 AM tomorrow: Vaccine Assessment Table for Your Input

John, Barney,

I will look at this tonight as well.

Deliverables:



(b) (5)

Let me know what you think,

Karin.

Karin Bok, MS, PhD
Senior Advisor, Vaccine Development
Office of the Director, Vaccine Research Center
National Institute of Allergy and Infectious Diseases
National Institutes of Health
phone: (b) (6) | mobile: (b) (6) | email: (b) (6)
<https://www.niaid.nih.gov/about/vrc>

From: "Donabedian, Armen (OS/ASPR/BARDA)" <(b) (6)>
Date: Tuesday, April 14, 2020 at 5:47 PM
To: (b) (6) Karin Bok <(b) (6)>, "Cassetti, Cristina (NIH/NIAID) [E]" <(b) (6)>, "Gerber, Susan I. (CDC/DDID/NCIRD/DVD)" <(b) (6)>, "Roberts, Jeff (FDA/CBER)" <(b) (6)>
Cc: "Arnold, Frank (OS/ASPR/BARDA) (CTR)" <(b) (6)>, "Houchens, Christopher (OS/ASPR/BARDA)" <(b) (6)>, "Johnson, Robert (OS/ASPR/BARDA)" <(b) (6)>, "Seals, Jonathan (OS/ASPR/BARDA)" <(b) (6)>, "Wolfe, Daniel (OS/ASPR/BARDA)" <(b) (6)>
Subject: Vaccine Assessment Table for Your Input

Dear Julia, Karin, Cristina, Sue and Jeff,

Here is the email I discussed with you all. [Redacted]
[Redacted]
[Redacted]
[Redacted] (b) (5)
[Redacted]

Thank you in advance, and please let us know if you have any questions.

Best regards from Armen, Dan, Frank and Jonathan.

[Vaccine Assessment Table v1.3.xlsx](#)

Armen M. Donabedian, PhD
Scientific Technical Advisor and Chief, Vaccines
Influenza and Emerging Infectious Diseases Division
Biomedical Advanced Research and Development Authority

Office: [REDACTED] (b) (6)

Mobile [REDACTED] (b) (6)

[REDACTED] (b) (6)

From: Graham, Barney (NIH/VRC) [E]
Sent: Wed, 15 Apr 2020 20:54:46 +0000
To: Bok, Karin (NIH/VRC) [E]; Morabito, Kaitlyn (NIH/VRC) [E]; Corbett, Kizzmekia (NIH/VRC) [E]; Carlton, Kevin (NIH/VRC) [E]
Subject: RE: SARS-CoV-2 Vaccine Working Group

Karin, [REDACTED] (b) (5)
[REDACTED]

BG

From: Bok, Karin (NIH/VRC) [E] [REDACTED] (b) (6)
Sent: Wednesday, April 15, 2020 4:53 PM
To: Graham, Barney (NIH/VRC) [E] [REDACTED] (b) (6); Morabito, Kaitlyn (NIH/VRC) [E] [REDACTED] (b) (6); Corbett, Kizzmekia (NIH/VRC) [E] [REDACTED] (b) (6); Carlton, Kevin (NIH/VRC) [E] [REDACTED] (b) (6)
Subject: Re: SARS-CoV-2 Vaccine Working Group

I will be there as well, for any questions, but agree that Kaitlyn should present.

[REDACTED] (b) (5)
[REDACTED]

Thanks

Karin.

Karin Bok, MS, PhD
Senior Advisor, Vaccine Development
Office of the Director, Vaccine Research Center
National Institute of Allergy and Infectious Diseases
National Institutes of Health
phone: [REDACTED] (b) (6) | mobile: [REDACTED] (b) (6) | email: [REDACTED] (b) (6)
<https://www.niaid.nih.gov/about/vrc>

From: "Graham, Barney (NIH/VRC) [E]" [REDACTED] (b) (6)
Date: Wednesday, April 15, 2020 at 4:48 PM
To: "Morabito, Kaitlyn (NIH/VRC) [E]" [REDACTED] (b) (6); "Corbett, Kizzmekia (NIH/VRC) [E]" [REDACTED] (b) (6); Karin Bok [REDACTED] (b) (6); "Carlton, Kevin (NIH/VRC) [E]" [REDACTED] (b) (6)
Subject: RE: SARS-CoV-2 Vaccine Working Group

If you can attend that would be good. [REDACTED] (b) (5)
[REDACTED].

Barney

From: Morabito, Kaitlyn (NIH/VRC) [E] [REDACTED] (b) (6)
Sent: Wednesday, April 15, 2020 3:44 PM
To: Corbett, Kizzmekia (NIH/VRC) [E] [REDACTED] (b) (6)>; Bok, Karin (NIH/VRC) [E]
[REDACTED] (b) (6)>; Carlton, Kevin (NIH/VRC) [E] [REDACTED] (b) (6)>; Graham, Barney (NIH/VRC)
[E] [REDACTED] (b) (6)>
Subject: FW: SARS-CoV-2 Vaccine Working Group

Kizzmekia and Barney

How would we like to handle this tomorrow. This is for the 2pm ASPR lead Vaccine working group meeting. [REDACTED] (b) (5).

Thanks,
Kaitlyn

From: "Cassetti, Cristina (NIH/NIAID) [E]" [REDACTED] (b) (6)>
Date: Wednesday, April 15, 2020 at 2:41 PM
To: Kizzmekia Corbett [REDACTED] (b) (6), Kaitlyn Morabito
[REDACTED] (b) (6), Kayvon Modjarrad [REDACTED] (b) (6)>
Cc: "Stemmy, Erik (NIH/NIAID) [E]" [REDACTED] (b) (6), "Taylor, Kimberly (NIH/NIAID) [E]"
[REDACTED] (b) (6), "Donabedian, Armen (OS/ASPR/BARDA)"
[REDACTED] (b) (6)>, Karin Bok [REDACTED] (b) (6)>
Subject: FW: SARS-CoV-2 Vaccine Working Group

Hi Kizzmekia, Kaitlyn and Kayvon,

We have a Vaccine WG meeting tomorrow and VRC and WRAIR have been scheduled to give a brief update on your efforts in assay development- see attached agenda.

Would your respective groups be able to give a brief overview (5-10 min each) of your respective research on assay development, ideally with slides? Please let us know.

Thank you,

Cristina

From: Wolfe, Daniel (OS/ASPR/BARDA) [REDACTED] (b) (6)>

Sent: Tuesday, April 14, 2020 12:06 PM

To: Donabedian, Armen (OS/ASPR/BARDA) (b) (6)>; Arnold, Frank (OS/ASPR/BARDA) (CTR) (b) (6)>; Beigel, John (NIH) [E] <(b) (6)>; Bok, Karin (NIH/VRC) [E] (b) (6)>; Borisov, Oleg (OS/ASPR/BARDA) (CTR) (b) (6)>; Bryant, Paula (NIH/NIAID) [E] (b) (6)>; Casseti, Cristina (NIH/NIAID) [E] (b) (6); Castellino, Flora (OS/ASPR/BARDA) (b) (6); Corbett, Kizzmekia (NIH/VRC) [E] (b) (6)>; Embry, Alan (NIH/NIAID) [E] (b) (6); Gerber, Susan I. (CDC/DDID/NCIRD/DVD) (b) (6)>; Gordon, Jennifer (NIH/NIAID) [E] (b) (6)>; Gruber, Marion (FDA/CBER) (b) (6)>; Jayashankar, Lakshmi (OS/ASPR/BARDA) (b) (6)>; King, James (OS/ASPR/BARDA) <(b) (6)>; Ledgerwood, Julie (NIH/NIAID) [E] (b) (6); Leitner, Wolfgang (NIH/NIAID) [E] <(b) (6)>; Levis, Robin (FDA/CBER) (b) (6)>; Marston, Hilary (NIH/NIAID) [E] <(b) (6)>; Morabito, Kaitlyn (NIH/VRC) [E] (b) (6)>; Pickett, Thames (NIH/NIAID) [E] (b) (6)>; Sabourin, Carol (OS/ASPR/BARDA) (b) (6); Stemmy, Erik (NIH/NIAID) [E] (b) (6)>; Tong, Xiaomi (OS/ASPR/BARDA) (CTR) (b) (6)>; Uyeki, Timothy M. (CDC/DDID/NCIRD/ID) (b) (6); Donis, Ruben (OS/ASPR/BARDA) (b) (6)>; Faison, Tremel (OS/ASPR/BARDA) (b) (6)>; Johnson, Robert (OS/ASPR/BARDA) (b) (6)>; Little, James (OS/ASPR/BARDA) <(b) (6); Vaught, Andrea (OS/ASPR/BARDA) (CTR) <(b) (6)>; Ventura, Christy (OS/ASPR/BARDA) (CTR) (b) (6)>; Jennifer Kishimori (b) (6)>; Koppaka, Ram (CDC/DDID/NCIRD/ISD) (b) (6); Roberts, Jeff (FDA/CBER) (b) (6)>; Taylor, Kimberly (NIH/NIAID) [E] (b) (6)>; Devore, Nicolette (FDA/CBER) (b) (6)>; Mair, Michael (FDA/OC) (b) (6); Biggins, Julia (MIL) (b) (6)>; Schuster, Claire (NIH/NIAID) [E] <(b) (6); Ford, Andrew (NIH/NIAID) [E] <(b) (6)>; Hamel, Joseph (OS/ASPR/IO) (b) (6)>; Seals, Jonathan (OS/ASPR/BARDA) (b) (6); King, James C. (gmail.com) (b) (6); Oshansky, Christine (OS/ASPR/BARDA) <(b) (6)>; Pavetto, Corrina (OS/ASPR/BARDA) <(b) (6)>; (b) (6)

>; Roberts, Chris (NIH/NIAID) [E] (b) (6)>; Graitcer, Samuel B. (CDC/DDID/NCIRD/ISD) (b) (6); Weinbaum, Cindy (CDC/DDID/NCIRD/ISD) (b) (6)>; Mbaeyi, Sarah (CDC/DDID/NCIRD/OD) <(b) (6) (b) (6)

>; Patterson, Jean (NIH/NIAID) [E] (b) (6)>; Kovacs, Gerald (OS/ASPR/BARDA) (CTR) (b) (6)>; Merchlinsky, Michael (OS/ASPR/BARDA) <(b) (6)>; Simon, David (OS/ASPR/BARDA) <(b) (6)>; Taylor, Marva (OS/ASPR/BARDA) (b) (6)>; Woodbury, Robyn (OS/ASPR/BARDA) (CTR) <(b) (6)>; Aglow, David (OS/ASPR/BARDA) (b) (6); Huynh, Chuong (OS/ASPR/BARDA) (b) (6)>; Wolfram, Larry (NIH/NIAID) [E] (b) (6); Lathey, Janet (NIH/NIAID) [E] (b) (6)>; Stoughton, Daniel (NIH/NIAID) [E] (b) (6); Deckhut, Alison (NIH/NIAID) [E] (b) (6)>; Lueptow, Rebekka (OS/ASPR/BARDA) (b) (6); Boucher, David (OS/ASPR/BARDA) (b) (6); Zarrabian, Amanda (OS/ASPR/BARDA) (b) (6); Sinha, Tanima (OS/ASPR/BARDA) (b) (6); Yeh, Bai (OS/ASPR/BARDA)

(b) (6)>; Bandremer, Aaron (OS/ASPR/BARDA) (b) (6)>; Treanor, John (OS/ASPR/BARDA) (CTR) (b) (6); Gerstner, Joe (OS/ASPR/BARDA) (CTR)

(b) (6)>; Levings, Randall L. (usda.gov) (b) (6) (b) (6) USAMRIID (USA) (b) (6)

Cc: Tegeris, John (OS/ASPR/BARDA) (CTR) (b) (6)>; Balsamo, Ralph (OS/ASPR/BARDA) (b) (6); Cho, David S (CBER) (FDA/CBER) (b) (6)>

Subject: RE: SARS-CoV-2 Vaccine Working Group

Hello everyone,

Please see the draft agenda and slide deck for Thursday's SARS-CoV-2 Vaccine Working Group. Please let me know if you have any suggested changes to the agenda. Will provide an updated deck prior to the meeting if there additional slides.

Dan

(b) (5)

-----Original Appointment-----

From: Donabedian, Armen (OS/ASPR/BARDA) (b) (6)

Sent: Saturday, March 28, 2020 4:07 PM

To: Donabedian, Armen (OS/ASPR/BARDA); Arnold, Frank (OS/ASPR/BARDA) (CTR); Beigel, John (NIH) [E]; Bok, Karin (NIH/VRC) [E]; Borisov, Oleg (OS/ASPR/BARDA) (CTR); Bryant, Paula (NIH/NIAID) [E]; Cassetti, Cristina (NIH/NIAID) [E]; Castellino, Flora (OS/ASPR/BARDA); Corbett, Kizzmekia (NIH/OD) [E]; Embry, Alan (NIH/NIAID) [E]; Gerber, Susan I. (CDC/DDID/NCIRD/DVD); Gordon, Jennifer (NIH/NIAID) [E]; Gruber, Marion (FDA/CBER); Jayashankar, Lakshmi (OS/ASPR/BARDA); King, James (OS/ASPR/BARDA); Ledgerwood, Julie (NIH/NIAID) [E]; Leitner, Wolfgang (NIH/NIAID) [E]; Levis, Robin (FDA/CBER); Marston, Hilary (NIH/NIAID) [E]; Morabito, Kaitlyn (NIH/VRC) [E]; Pickett, Thames (NIH/NIAID) [E]; Sabourin, Carol (OS/ASPR/BARDA); Stemmy, Erik (NIH/NIAID) [E]; Tong, Xiaomi (OS/ASPR/BARDA) (CTR); Uyeki, Timothy M. (CDC/DDID/NCIRD/ID); Donis, Ruben (OS/ASPR/BARDA); Faison, Tremel (OS/ASPR/BARDA); Johnson, Robert (OS/ASPR/BARDA); Little, James (OS/ASPR/BARDA); Vaught, Andrea (OS/ASPR/BARDA) (CTR); Ventura, Christy (OS/ASPR/BARDA) (CTR);

(b) (6) Koppaka, Ram (CDC/DDID/NCIRD/ISD); Roberts, Jeff (FDA/CBER);

(b) (6) Devore, Nicolette (FDA/CBER); Mair, Michael (FDA/OC); Biggins, Julia (MIL); Schuster, Claire (NIH/NIAID) [E]; Ford, Andrew (NIH/NIAID) [E]; Hamel, Joseph (OS/ASPR/IO); Seals, Jonathan (OS/ASPR/BARDA);

(b) (6) Oshansky, Christine (OS/ASPR/BARDA); Pavetto, Corrina (OS/ASPR/BARDA);

(b) (6) Roberts, Chris (NIH/NIAID) [E]; Graitcer, Samuel B. (CDC/DDID/NCIRD/ISD); Weinbaum, Cindy (CDC/DDID/NCIRD/ISD); Mbaeyi, Sarah (CDC/DDID/NCIRD/OD); (b) (6)

(b) (6) Patterson, Jean (NIH/NIAID) [E]; Kovacs, Gerald (OS/ASPR/BARDA) (CTR); Merchlinsky, Michael (OS/ASPR/BARDA); Simon, David (OS/ASPR/BARDA); Taylor, Marva (OS/ASPR/BARDA); Woodbury, Robyn (OS/ASPR/BARDA) (CTR); Aglow, David (OS/ASPR/BARDA); Huynh, Chuong (OS/ASPR/BARDA); Wolfraim, Larry (NIH/NIAID) [E]; Lathey, Janet (NIH/NIAID) [E]; Stoughton, Daniel (NIH/NIAID) [E]; Deckhut, Alison (NIH/NIAID) [E]; Lueptow, Rebekka (OS/ASPR/BARDA); Boucher, David (OS/ASPR/BARDA); Wolfe, Daniel (OS/ASPR/BARDA); Zarrabian, Amanda (OS/ASPR/BARDA);

Sinha, Tanimia (OS/ASPR/BARDA); Yeh, Bai (OS/ASPR/BARDA); Bandremer, Aaron (OS/ASPR/BARDA); Treanor, John (OS/ASPR/BARDA) (CTR); Gerstner, Joe (OS/ASPR/BARDA) (CTR);

(b) (6)

Cc: Tegeris, John (OS/ASPR/BARDA) (CTR); Balsamo, Ralph (OS/ASPR/BARDA); Cho, David S (CBER) (FDA/CBER)

Subject: SARS-CoV-2 Vaccine Working Group

When: Thursday, April 16, 2020 2:00 PM-3:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: WebEx for the foreseeable future

Dear all,

You are invited to share progress and discuss issues relevant to the development of vaccines against COVID 19 on a weekly basis with your PHEMCE colleagues.

An agenda, presentation materials and supporting documents will be provided in advance of the meetings.

Many thanks in advance for your participation,

Armen, Cristina and Erik

DO NOT DELETE OR CHANGE ANY OF THE TEXT BELOW THIS LINE

Armen Donabedian has scheduled this WebEx meeting.

SARS-CoV-2 Vaccine Working Group

Host: Armen Donabedian

When it's time, start or join the WebEx meeting from here:

(b) (6)

Access Information

Meeting Number (b) (6)

Meeting Password: (b) (6)

Audio Connection

(b) (6) (Meeting Server Main Number)

Access Code:

(b) (6)

Hosts, need your host access code or key? Go to the meeting information page:

(b) (6)

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The meetingserver.hhs.gov team

From: Graham, Barney (NIH/VRC) [E]
Sent: Wed, 15 Apr 2020 02:17:10 +0000
To: Mascola, John (NIH/VRC) [E]; Daucher, Marybeth (NIH/NIAID) [E]; Harris, Christina (NIH/NIAID) [E]
Cc: Koup, Richard (NIH/VRC) [E]; Ledgerwood, Julie (NIH/NIAID) [E]; Prince, Tasheema (NIH/VRC) [C]; Hiatt, Nissa (NIH/VRC) [C]
Subject: RE: Tweet by Anderson Cooper 360° on Twitter

(b) (5)

BG

From: Mascola, John (NIH/VRC) [E] <(b) (6)>
Sent: Tuesday, April 14, 2020 10:13 PM
To: Daucher, Marybeth (NIH/NIAID) [E] (b) (6); Harris, Christina (NIH/NIAID) [E] (b) (6)>
Cc: Koup, Richard (NIH/VRC) [E] (b) (6)>; Graham, Barney (NIH/VRC) [E] (b) (6)>; Ledgerwood, Julie (NIH/NIAID) [E] (b) (6); Prince, Tasheema (NIH/VRC) [C] <(b) (6)>; Hiatt, Nissa (NIH/VRC) [C] (b) (6)
Subject: FW: Tweet by Anderson Cooper 360° on Twitter

(b) (5)

From: Fauci, Anthony (NIH/NIAID) [E] (b) (6)
Sent: Tuesday, April 14, 2020 10:10 PM
To: Graham, Barney (NIH/VRC) [E] (b) (6)>
Cc: Mascola, John (NIH/VRC) [E] (b) (6)>
Subject: FW: Tweet by Anderson Cooper 360° on Twitter

(b) (5)

From: Miller, Katie R. EOP/OVP (b) (6)
Sent: Tuesday, April 14, 2020 9:53 PM
To: Fauci, Anthony (NIH/NIAID) [E] (b) (6)>
Subject: Tweet by Anderson Cooper 360° on Twitter

(b) (5)



Anderson Cooper 360°

[@AC360](#)



NIH's lead scientist for coronavirus vaccine research Kizzmekia Corbett lays out the government's race to create a vaccine, saying they could be on track to have a vaccine from sequence to the general population within 8 months. [cnn.it/34DnXnV](https://www.cnn.it/34DnXnV) pic.twitter.com/hIE34Wz64I

[4/14/20, 9:06 PM](#)

[Download](#) the Twitter app

Sent from my iPhone

From: Graham, Barney (NIH/VRC) [E]
Sent: Wed, 15 Apr 2020 13:22:14 +0000
To: Mascola, John (NIH/VRC) [E]
Subject: RE: Tweet by Anderson Cooper 360° on Twitter

(b) (5)

Barney

From: Mascola, John (NIH/VRC) [E] (b) (6)
Sent: Wednesday, April 15, 2020 9:19 AM
To: Graham, Barney (NIH/VRC) [E] (b) (6) >
Subject: RE: Tweet by Anderson Cooper 360° on Twitter

You said it much more eloquently than me.

My email attached just to Courtney.

(b) (5)

From: Mascola, John (NIH/VRC) [E]
Sent: Wednesday, April 15, 2020 9:15 AM
To: Graham, Barney (NIH/VRC) [E] (b) (6)
Subject: RE: Tweet by Anderson Cooper 360° on Twitter

Thanks Barney

From: Graham, Barney (NIH/VRC) [E] (b) (6)
Sent: Wednesday, April 15, 2020 9:08 AM
To: Billet, Courtney (NIH/NIAID) [E] (b) (6) >; Mascola, John (NIH/VRC) [E] (b) (6) >
Cc: Daucher, Marybeth (NIH/NIAID) [E] (b) (6); Harris, Christina (NIH/NIAID) [E] (b) (6) >; Routh, Jennifer (NIH/NIAID) [E] (b) (6)
Subject: RE: Tweet by Anderson Cooper 360° on Twitter

I'm dropping Dr. Fauci from this email.

(b) (5)

(b) (5)

Let me know if you would like to discuss in more detail.

Barney

From: Billet, Courtney (NIH/NIAID) [E] <(b) (6)>

Sent: Wednesday, April 15, 2020 8:51 AM

To: Mascola, John (NIH/VRC) [E] (b) (6)>; Fauci, Anthony (NIH/NIAID) [E] (b) (6); Graham, Barney (NIH/VRC) [E] (b) (6)>

Cc: Daucher, Marybeth (NIH/NIAID) [E] <(b) (6)>; Harris, Christina (NIH/NIAID) [E] (b) (6)>; Routh, Jennifer (NIH/NIAID) [E] (b) (6)>

Subject: RE: Tweet by Anderson Cooper 360° on Twitter

(b) (5)

From: Mascola, John (NIH/VRC) [E] (b) (6)>

Sent: Tuesday, April 14, 2020 10:17 PM

To: Fauci, Anthony (NIH/NIAID) [E] (b) (6); Graham, Barney (NIH/VRC) [E] (b) (6)>

Cc: Billet, Courtney (NIH/NIAID) [E] (b) (6)>

Subject: RE: Tweet by Anderson Cooper 360° on Twitter

Tony,

We will do so.

(b) (5)


John

From: Fauci, Anthony (NIH/NIAID) [E] (b) (6)
Sent: Tuesday, April 14, 2020 10:10 PM
To: Graham, Barney (NIH/VRC) [E] <(b) (6)>
Cc: Mascola, John (NIH/VRC) [E] (b) (6)>
Subject: FW: Tweet by Anderson Cooper 360° on Twitter


(b) (5)

From: Miller, Katie R. EOP/OVP <(b) (6)>
Sent: Tuesday, April 14, 2020 9:53 PM
To: Fauci, Anthony (NIH/NIAID) [E] <(b) (6)>
Subject: Tweet by Anderson Cooper 360° on Twitter

(b) (5)



Anderson Cooper 360°
@AC360



NIH's lead scientist for coronavirus vaccine research Kizzmekia Corbett lays out the government's race to create a vaccine, saying they could be on track to have a vaccine from sequence to the general population within 8 months. [cnn.it/34DnXnV](https://www.cnn.it/34DnXnV) pic.twitter.com/hIE34Wz64I
4/14/20, 9:06 PM

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