

NATIONAL BIODEFENSE SCIENCE BOARD

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PUBLIC TELECONFERENCE

+ + + + +

FRIDAY,
AUGUST 14, 2009

+ + + + +

The meeting convened telephonically at
12:00 p.m., Chair Patricia Quinlisk,
presiding.

VOTING MEMBERS PRESENT:

PATRICIA QUINLISK, Chair, M.D., M.P.H.

RUTH L. BERKELMAN, M.D.

STEPHEN V. CANTRILL, M.D.

ROBERTA CARLIN, M.S., J.D.

ALBERT J. DI RIENZO

KENNETH L. DRETCHEN, Ph.D.

JAMES J. JAMES, Brigadier General (Retired),
M.D., Dr.PH., M.H.A.JOHN S. PARKER, M.D., Major General
(Retired)

ANDREW T. PAVIA, M.D.

ERIC A. ROSE, M.D.

PATRICK J. SCANNON, M.D., Ph.D.

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EX OFFICIO MEMBERS PRESENT (or designee):

JOSEPH ANNELLI, D.V.M., Animal and Plant
Health Inspection Service
DIANE BERRY, Ph.D., Chief Scientist, Director,
Threat Characterization and
Countermeasures, Office of Health
Affairs, Department of Homeland Security
BRUCE GELLIN, M.D., M.P.H., Director, National
Vaccine Program Office
ROSEMARY HART, Special Counsel, Office of
Legal Counsel, Department of Justice
PETER JUTRO, Ph.D., Deputy Director, National
Homeland Security Research Center,
Environmental Protection Agency
CAROL D. LINDEN, Ph.D., Principal Deputy
Director, Biomedical Advanced Research
and Development Authority
AUBREY MILLER, M.D., Office of
Counterterrorism and Emerging Threats,
Office of the Commissioner, U.S. Food
and Drug Administration (designated by
Boris Lushniak)
COL. JOHN P. SKVORAK, D.V.M., Ph.D.,
Commander, U.S. Army Medical Research
Institute for Infectious Diseases

NBSB STAFF PRESENT:

LEIGH SAWYER, D.V.M., M.P.H., CAPT.,
U.S.P.H.S., Executive Director
ERIN FULTS, Scientific/Technical Writer
DON MALINOWSKI, M.S., Program Analyst
JOMANA MUSMAR, M.S., Policy Analyst
BROOK STONE, M.F.S., LTJG, U.S.P.H.S.,
Program Analyst

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TABLE OF CONTENTS

<u>Administrative Matters, Call to Order and Conflict of Interest Rules, Captain Leigh Sawyer, D.V.M., M.P.H., Executive Director, National Biodefense Science Board, U.S. Department of Health and Human Services.....</u>	<u>6</u>
<u>Opening Remarks, Nicole Lurie, M.D., M.S.P.H., Assistant Secretary for Preparedness and Response, Rear Admiral, US Public Health Service, U.S. Department of Health and Human Services.....</u>	<u>14</u>
<u>Agenda Overview and Goals, Patricia Quinlisk, M.D., M.P.H., Chair, National Biodefense Science Board.....</u>	<u>20</u>
<u>Updates from U.S. Department of Health and Human Services on H1N1; H1N1 Situational Update, Daniel B. Jernigan, M.D., M.P.H., Deputy Director, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services.....</u>	<u>22</u>
<u>H1N1 Vaccine Update, Robin Robinson, M.D., Director of the Biomedical Advanced Research and Development Authority...</u>	<u>28</u>
<u>H1N1 Vaccine Planning, Jay Butler, M.D., Program Director, H1N1 Vaccine Task Force, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services.....</u>	<u>33</u>
<u>Antivirals, Robin Robinson, Ph.D.....</u>	<u>41</u>
<u>Diagnostics, Daniel B. Jernigan, M.D., M.P.H.....</u>	<u>45</u>
<u>Discussion.....</u>	<u>50</u>

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Advisory Committee Updates: Vaccines and
Related Biological Products
Advisory Committee (VRBPAC), Norman
Baylor, Ph.D., Director, Office of
Vaccines Research and Review,
Food and Drug Administration, U.S.
Department of Health and Human
Services.....63

National Vaccine Advisory Committee (NVAC)
Bruce Gellin, M.D. (Financing)
Director, National Vaccine Program
Office, Office of Public Health and
Science, U.S. Department of Health and
Human Services.....68

Andrew Pavia, M.D. (Safety Monitoring)
Chair, Subcommittee on Safety, NVAC..71

Advisory Committee on Immunization
Practices (ACIP), Larry K. Pickering,
M.D., FAAP (ACIP Functions) Executive
Secretary, Advisory Committee on
Immunization Practices, Centers for
Disease Control and Prevention, U.S.
Department of Health and Human
Services.....76

Anthony Fiore, M.D., M.P.H., CAPT. USPHS
(ACIP Priority Recommendations) Medical
Epidemiologist, Influenza Division,
Centers for Disease Control and
Prevention, U.S. Department of Health
and Human Services.....78

Discussion.....83

Psychological Impact of H1N1
Daniel Dodgen, Ph.D., Executive
Director, Disaster Mental Health
Subcommittee, U.S. Department of
Health and Human Services.....90

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<u>Discussion.....</u>	<u>104</u>
<u>Public Comment and Discussion</u>	
<u>Patricia Quinlisk, M.D., M.P.H.....</u>	<u>105</u>
<u>Wrap Up</u>	
<u>Patricia Quinlisk, M.D., M.P.H.....</u>	<u>122</u>
<u>Adjourn</u>	

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P R O C E E D I N G S

12:03 P.M.

CAPT. SAWYER: Thank you and I also would like to welcome the National Biodefense Science Board members to this public teleconference. We do have a particular session devoted to the public. And I'd like to begin by welcoming, as I said, the voting members, ex officios, and we have here today members of our Disaster Mental Health Subcommittee. I'd also like to welcome the public to this teleconference.

I am Leigh Sawyer, the Executive Director of the National Biodefense Science Board. I serve as the Designated Federal Official for this Federal Advisory Committee.

The purpose of the public teleconference today is to allow the Board to receive current activity updates from the representatives of the Department of Health and Human Services on preparation for H1N1.

The public teleconference is being

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1 convened to assure that the public is given
2 the opportunity to hear the deliberations and
3 to provide comments.

4 I will begin first with a roll call
5 of the voting members.

6 DR. PICKERING: Larry Pickering
7 here.

8 CAPT. SAWYER: Thank you, Larry.

9 DR. PICKERING: Is this Leigh?

10 CAPT. SAWYER: Yes.

11 DR. PICKERING: Hi.

12 CAPT. SAWYER: Hold on one minute.

13 Okay. Let's begin the roll call. First,
14 please say here if you're on the line.

15 Patty Quinlisk?

16 DR. QUINLISK: Here.

17 CAPT. SAWYER: Ruth Berkelman.
18 Steve Cantrill.

19 DR. CANTRILL: Here.

20 CAPT. SAWYER: Roberta Carlin.

21 DR. CARLIN: Here.

22 CAPT. SAWYER: Al Di Rienzo.

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1 MR. DI RIENZO: Here.

2 CAPT. SAWYER: Ken Dretchen.

3 DR. DRETCHEN: Here.

4 CAPT. SAWYER: John Grabenstein.

5 Jim James. Tom MacVittie. John Parker.

6 DR. PARKER: Here.

7 CAPT. SAWYER: Andy Pavia. Eric
8 Rose.

9 DR. ROSE: Here.

10 CAPT. SAWYER: Pat Scannon. Okay.

11 MS. BERKELMAN: This is Ruth
12 Berkelman. We had trouble getting on the
13 line.

14 DR. JERNIGAN: This is Dan
15 Jernigan. I'm just now joining.

16 CAPT. SAWYER: Okay. I can see
17 from the list here that there are people -- we
18 may give you just a couple more minutes here
19 to get on to the line.

20 DR. JUTRO: Leigh, this is Peter
21 Jutro. They're incredibly slow. It took
22 about 12 minutes before they answered the

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1 phone and then after you give your name it
2 took several more minutes to look us up.

3 CAPT. SAWYER: Okay, so let's pause
4 then just for a few minutes to give everyone
5 an opportunity to join the call.

6 (Whereupon, the above-entitled
7 matter went off the record at 12:06 p.m. and
8 resumed at 12:07 p.m.)

9 CAPT. SAWYER: Let's try this roll
10 call again.

11 I know Patty Quinlisk is here.

12 Ruth Berkelman.

13 DR. BERKELMAN: Here.

14 CAPT. SAWYER: We have Steve
15 Cantrill, Roberta Carlin, Al Di Rienzo, Ken
16 Dretchen. Has John Grabenstein joined?

17 Okay, Jim James? Tom MacVittie.
18 John Parker is here. Andy Pavia, have you
19 joined? Eric Rose? Pat Scannon.

20 DR. ROSE: Here.

21 CAPT. SAWYER: Oh, Eric Rose.
22 That's right. You had already said so. And

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1 Pat Scannon? Okay, let's go with ex officio
2 representatives.

3 Dan Fletcher? If you are an
4 alternate, please say your name. Carter
5 Mecher. Larry Kerr. Richard Williams. Frank
6 Scioli. Joseph Anelli.

7 DR. ANNELLI: Here.

8 CAPT. SAWYER: Willie May. John
9 Skvorak.

10 DR. SKVORAK: Here.

11 CAPT. SAWYER: Patricia
12 Worthington. Hugh Auchincloss. Carol Linden.

13 DR. LINDEN: Here.

14 CAPT. SAWYER: Bruce Gellin.

15 DR. GELLIN: Here.

16 CAPT. SAWYER: Boris Lushniak.

17 DR. MILLER: Aubrey Miller for
18 Boris Lushniak.

19 CAPT. SAWYER: Thank you, Aubrey.
20 Diane Berry?

21 DR. BERRY: Here.

22 CAPT. SAWYER: Sue Haseltine?

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1 Rosemary Hart.

2 MS. HART: Present.

3 CAPT. SAWYER: Claudia McMurray.

4 Lawrence Deyton. Peter Jutro.

5 DR. JUTRO: Here.

6 CAPT. SAWYER: Patricia Milligan.

7 And are there any voting members that have
8 joined that I have not named -- you were not
9 available for the phone call, for the phone
10 roll?

11 Okay, let me proceed then. There
12 are members of the Disaster Mental Health
13 Subcommittee in attendance on today's call.
14 I'd like to welcome them and thank them for
15 joining.

16 I'd like to provide now a review of
17 the FACA requirements. The NBSB is an
18 advisory board that is governed by the Federal
19 Advisory Committee Act. The FACA is a statute
20 that controls the circumstances by which the
21 agencies or officers of the Federal Government
22 can establish or control committees or groups

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1 to obtain advice or recommendations for one or
2 more members of their group are not federal
3 employees.

4 The majority of the work of the
5 NBSB including information gathering, drafting
6 of reports and the development of
7 recommendations is being performed not only by
8 the full Board but by working groups or
9 subcommittees who in turn report directly to
10 the Board.

11 With regard to conflict of interest
12 rules, the standards of ethical conduct from
13 employees of the Executive Branch document has
14 been received by all Board Members who, as
15 special Government employees, are subject to
16 the conflict of interest laws and regulations
17 therein.

18 Board Members provide information
19 about their personal, professional, and
20 financial interests. This information is used
21 to assess real, potential, or other apparent
22 conflicts of interest that would compromise a

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1 member's ability to be objective in giving
2 advice during the Board meetings. Board
3 Members must be attentive during the meetings
4 to the possibility that an issue may arise
5 that could affect or appear to affect their
6 interest in a specific way. Should this
7 happen, it would be asked that the affected
8 member recuse himself or herself from the
9 discussion by refraining from making comments
10 and leaving the telecon.

11 The public comment period is
12 scheduled from 1:40 to 2 o'clock p.m. You
13 will be given instructions by the operator as
14 to how to queue up so that your phone line
15 will be open for you to speak.

16 The Federal Register notice
17 announcing the August 14 public
18 teleconference, stated that public comments
19 could be addressed to the Board and sent to
20 the NBSB email prior to the meeting. We have
21 received public comments. The public comments
22 received by June 12th have been shared with

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1 the Board Members and all the others will be
2 read during the public comment period.

3 All public comments will be
4 included in the August 14 NBSB public meeting
5 summary and available on our website shortly
6 after the meeting.

7 If you would like a copy of the
8 public comments received to date, please email
9 now, nbsb@hhs.gov.

10 I'd like to remind you that this
11 meeting is being transcribed, so when you
12 speak please provide your name.

13 Now I would like to introduce our
14 Assistant Secretary for Preparedness and
15 Response, Dr. Nicole Lurie as she would like
16 to welcome the Board. She was introduced for
17 the first time at our July 17 meeting and
18 we're so pleased that she's able to be here
19 today.

20 DR. LURIE: Great. Well, thank you
21 so much for joining again today and stepping
22 up the frequency of your meetings to coincide

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1 with I think the urgency of the event.

2 Let me start by thanking Patty
3 Quinlisk for her leadership as Chairman of
4 NBSB and to all of you for your very active
5 participation.

6 What I wanted to do today was give
7 you an update since our last meeting. You
8 will recall that at our last meeting I
9 committed to come back at every meeting, if I
10 could, give you an update on what we did with
11 your recommendations and I want to take the
12 opportunity to do that now.

13 Since we last met, we have within
14 my office established a very robust H1N1 Task
15 Force with the goal of coordinating issues
16 that touch on H1N1 across all of the HHS
17 agencies. And I think that's going very well.

18 Captain Clare Helminiak is chairing
19 that Task Force and it's organized now,
20 according to the four pillars, the National
21 Security Council, Homeland Security Council
22 have established for the whole H1N1 event and

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1 they are broken down into surveillance, which
2 includes both situational awareness about
3 virology and epidemiology of the disease, as
4 well as situational awareness about the
5 medical care system capacity and functioning.

6 Mitigation measures, which
7 obviously relate to antivirals, community
8 mitigation measures, and all of medical care
9 is really in that category. Vaccination and
10 communication and education.

11 Today, I know that you're going to
12 hear updates from BARDA and from CDC and from
13 the three other Advisory Committees working on
14 H1N1 issues. And I'll let all of those people
15 update you on those.

16 I want to say, first of all, that
17 as I commented before, your work group meeting
18 and then the subsequent meeting of the entire
19 Board I think for all of us, we really took
20 this as a call to get much more aggressive, I
21 think, than we had been being about our
22 preparations, particularly on the vaccine end.

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1 We took your recommendations. We took them
2 to the Secretary and more importantly we've
3 been acting directly on them.

4 We heard you loud and clearly that
5 we ought to be prepared to have vaccine
6 available for distribution at the earliest
7 possible time and that you thought that we
8 ought to go ahead, for example, and fill and
9 finish vaccine without having the clinical
10 data available. And so we've gone ahead and
11 done that. The task orders to get that done
12 were issued at the end of last week and early
13 this week.

14 In terms of the timing of that, I
15 think a number of you probably read in the
16 press and others that there was an initial
17 challenge with the potency of reagents that
18 were necessary to go ahead and actually
19 formulate vaccine for fill and finish. You
20 know, fortunately, we weren't again reliant on
21 a single set of reagents or a single
22 manufacturer of those and had backup plans in

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1 place in a variety of places including with
2 FDA. And that has really enabled now all of
3 the manufacturers to go ahead. They now all
4 have potency reagents in their hands. We're
5 working actively with them and we believe by
6 next week we'll be able to go ahead and begin
7 formulating, filling and finishing their
8 vaccine.

9 So this, I think, accelerated
10 action is really a very direct consequence of
11 your debate and advice to us.

12 We also previously told you that
13 clinical trials were planned to begin August
14 1st and we are pleased to be able to tell you
15 that those have begun on time and on schedule.

16 Recruitment on participation in those trials
17 has been really quite robust.

18 Regarding the discussion about
19 antivirals and I know you'll get an update of
20 this later, I've been really pleased with how
21 FDA, BARDA, CDC and NIH have been working
22 together to think about the EUA process and to

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1 enhance access to investigational antivirals
2 while we're in the process of assessing the
3 appropriate risks and benefits. And so I
4 think again we heard you and we're moving
5 forward on that front.

6 We've also been really pleased with
7 the advice that we've gotten from the Mental
8 Health Subcommittee. And you'll hear from Dan
9 Dodgen later, but I've really asked Dan and
10 his team to really start to think very
11 proactively about mental health issues that
12 are likely to arise as children, parents,
13 teachers, coworkers may die after severe
14 illness from H1N1. And so again, we're sort
15 of doing really proactive planning in that
16 regard.

17 I'm really looking forward to
18 hearing the results of your discussion today
19 and to the reactions to all of the updates we
20 provide and again, you know, as before, look
21 forward to the formal recommendation as well
22 as your very thoughtful discussion and thought

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1 process as we go on.

2 So with that, I'll conclude my
3 opening remarks, say thank you again, and turn
4 this back to Leigh so we can get on with the
5 business at hand.

6 CAPT. SAWYER: Thank you very much.
7 Dr. Quinlisk, are you ready to open the
8 meeting?

9 CHAIR QUINLISK: Yes, go ahead and
10 open it. I'd just like to add my welcome to
11 Dr. Lurie. And I'm very gratified to hear
12 that our advice has been useful to you and is
13 being acted on. Hopefully, that will continue
14 into the future. I think there's been a lot
15 of good work done by people on this panel,
16 both on the Subcommittees and the working
17 groups as well as the general board and
18 hopefully we can continue to be useful to you
19 and just wanted to welcome you to come and
20 talk to us any time and certainly, if there's
21 anything that we can assist or give advice on
22 or consider, please don't hesitate to let us

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1 know immediately and we'll do our best to get
2 whatever advice or information back to you.

3 DR. LURIE: Thanks, Patty. I
4 really appreciate it and just appreciate and
5 if you should hear on both sides open call for
6 frequent communications, feel free to call or
7 email, whatever, as the need arises.

8 CHAIR QUINLISK: Okay, thank you,
9 Nicki.

10 I think what we'll do then is we'll
11 just go right ahead and go to our updates for
12 HHS on the H1N1. I think we're ready to do
13 that, right, Leigh.

14 CAPT. SAWYER: Yes, we are.

15 CHAIR QUINLISK: Okay, I'll go
16 ahead and introduce our first person. Daniel
17 Jernigan is going to go ahead and talk to us
18 about H1N1 situational update and he is the
19 Deputy Director with the National Center for
20 Immunization and Respiratory Diseases at CDC.

21 DR. JERNIGAN: Thanks a lot, Patty.
22 So, just very briefly, in terms of some of

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1 the domestic surveillance issues, the CDC is
2 no longer presenting on its website the case
3 counts, the laboratory confirmed case counts.

4 However, we still are working with state
5 health departments in collecting and reporting
6 the numbers of laboratory-confirmed
7 hospitalizations and deaths.

8 Before this week on the website you
9 can see that the numbers of cases were
10 increased from last week of around 6500
11 hospitalized cases that were laboratory
12 confirmed, 7,511. The numbers of deaths
13 increased from 436 to 477. So these numbers
14 in terms of the cumulative numbers are
15 continuing to increase, but the overall trend
16 is not rising as it had been in the past.
17 It's consistent with amount of disease that
18 we're seeing overall in communities.

19 In terms of our key influenza
20 surveillance indicators for outpatient ILI
21 illness, looking at the ILI net, we see that
22 the percent of influenza-like illness that are

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1 among those that are going to the doctor in
2 the outpatient setting is below the national
3 baseline, but that percent, that is the
4 numbers of people that are going to the clinic
5 with influenza-like illness over the total
6 number of people that are going to the clinic,
7 it's still above what we would see normally at
8 this time of year. So early on in the season
9 we saw that blip that was likely related to a
10 lot of media interest, but what we've seen is
11 a consistent increase in the amount of people
12 going to the doctors through the summer above
13 what we would expect.

14 Some areas where there have been
15 more recent increases that are notable,
16 according to their syndromic surveillance, as
17 well as ours, is in Florida and in North
18 Carolina. And so those are areas that we'll
19 be following up on to see what the subtype is
20 of that and if there are other causes of
21 influenza-like illness that might be driving
22 those increases there.

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1 Overall, if you look at it
2 nationally, the percent of outpatient visits
3 for ILI decreased slightly, but it is still
4 above what we would expect at this time of
5 year.

6 In terms of hospitalizations
7 through the emerging infections program and
8 through some other sites, we are monitoring
9 the rate for adults and children that are
10 being hospitalized with influenza and those
11 remain low so far. They are not anywhere near
12 where we would expect during an influenza
13 season. So that's something that we are
14 monitoring now and as the season goes forward,
15 we'll continue to see whether or not there are
16 age-specific increases, that is, seeing if
17 children are increasing in their
18 hospitalizations for influenza.

19 In terms of monitoring deaths, the
20 proportion of deaths that are attributed to
21 pneumonia influenza was low and it's within
22 the bounds of what is expected in summer. For

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1 those of you that monitor the curve closely,
2 you could see that it looks like a slight
3 increase above the seasonal baseline, but
4 that's within the bounds of what we would
5 expect and we've seen that not continue to
6 increase.

7 In terms of the virus itself, the
8 subtype surveillance demonstrates in the
9 United States that almost 100 percent
10 specimens characterized at CDC and at state
11 public health labs are the pandemic H1N1
12 virus. If the antigenic changes, there's no
13 significant drift that we have seen in the
14 pandemic H1N1 away from what's in the vaccine
15 and for those viruses in the United States.

16 In terms of antiviral resistance,
17 so far we are not finding -- we have not
18 reported any resistant cases in the United
19 States. There are two cases in Washington
20 State that we are working with them on to
21 verify and that those two cases of resistance
22 that is pandemically resistant, pandemic H1N1,

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1 are in persons who are receiving therapy and
2 so those have not been reported yet, I don't
3 believe, publicly.

4 Internationally, there are nine
5 reports of resistance that have come out, four
6 in Japan, one in Denmark, one in China, one in
7 Hong Kong, one in Canada, and one in
8 Singapore.

9 So far there are no zanamivir
10 resistant to H1N1 viruses yet.

11 In terms of geographic spread,
12 there are four states that are reporting
13 widespread activity, but most states are
14 reporting only sporadic or local activity.

15 Let me just very briefly give a
16 comment on international surveillance. As of
17 August 12th, the WHO was reporting 177,457
18 lab-confirmed cases and 1,462 deaths coming
19 out of at least 168 countries that are
20 reporting.

21 In terms of the sub-type testing
22 internationally, looking at it from a Northern

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1 and Southern Hemisphere, what we see globally
2 is around 66 percent of influenza viruses that
3 are being collected are the pandemic H1N1 and
4 about 89 percent of influenza viruses in the
5 Southern Hemisphere are the pandemic H1N1. So
6 it is the predominant strain now of both in
7 the Northern and Southern Hemispheres in terms
8 of what is said to be.

9 Overall, in Argentina, an area
10 where we were looking for it closely, there
11 appears to be a decline in illness there, as
12 well as in parts of Australia. In South
13 Africa, the novel H1N1 continues though to
14 increase there.

15 The epidemiologic and clinical
16 characteristics of infections that have been
17 evaluated in the Southern Hemisphere appear to
18 be similar to what we're seeing in the United
19 States so far and we've not identified any
20 changes in the virus in any of those sites
21 that have reported information to us at this
22 point.

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1 So with that, I'll hand it back to
2 Patty.

3 CHAIR QUINLISK: Okay, thank you
4 very much, Dan.

5 I think what we'll do is go on now
6 to our second presentation on the H1N1
7 vaccine, Robin Robinson who is the Director of
8 the Biomedical Advance Research and
9 Development Authority, BARDA, is going to give
10 us an update.

11 DR. ROBINSON: Thank you, Patty,
12 and thank you, panelists and members of the
13 NBSB. I want to give you an idea of where we
14 were since my third performance with the group
15 this summer.

16 The vaccine strategy has three
17 elements, as you recall: the vaccine
18 development, vaccine manufacture, and vaccine
19 administration. And I'll talk about two of
20 those right now, but overall, things are where
21 we had planned. Jay Butler will talk about
22 the vaccine administration and planning that's

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1 going on.

2 With the vaccine development, as
3 Dr. Lurie said earlier, the manufacturers have
4 started their clinical trials and NIH just
5 started its. They're running as expected and
6 we should have data coming back in September
7 to inform us as to what the number of doses,
8 the amount of antigen in the vaccine and any
9 other aspects of antigen sparing with some of
10 the manufacturers using their adjuvants. So
11 those are moving forward as we had hoped.

12 With the vaccine manufacturing, all
13 five manufacturers have received their seed.
14 They're making vaccine at all five sites,
15 across the world for the U.S. The licensed
16 vaccine manufacturers received influenza
17 vaccine. They have just received their
18 potency assay reagents so that now they can
19 start to determine over the next week how much
20 vaccine they've already produced and then that
21 will inform them to start the fill finish
22 manufacturing of the inactivated subunit

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1 vaccines. So that will proceed over the next
2 week and a half and so we will have a better
3 update as to how much vaccine has already been
4 made at this point.

5 On the live attenuated vaccine, we
6 have news that the virus grew well, but they
7 were manufactured at a higher amount than we
8 had anticipated for the bulk vaccines, so
9 where we are right now, as we go forward, is
10 we're still looking around a mid-October
11 campaign, preparing for that and as you
12 recall, we actually had bought 109 million
13 doses of vaccine from the five manufacturers.

14 And if we needed 120 million doses of
15 adjuvants, if we had conditions that warranted
16 us to go forward with those adjuvants.

17 If you remember from our last
18 meeting, our initial estimates we were about
19 120 million doses in the middle of October.
20 We now have gone through and were able to
21 revise those to less than that. So we're
22 looking around at least 45 million with 20

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1 million doses each week coming up after that.

2 As we go forward, we will be able
3 to see some of the optimization at the
4 manufacturers, increasing the yield to the
5 product, and also the fill finish lines
6 becoming more available. That's very
7 important.

8 There are several reasons why we
9 have less than we had anticipated from the
10 very beginning and the first, as you read, and
11 we talked about this is that the manufacturing
12 of the subunit vaccine that's been activated
13 is the -- the virus' production yields are
14 less than we would see with seasonal flu, so
15 that the overall amount would be a little less
16 than before. The second is there is a limited
17 number of fill finish sites and as we go
18 forward, we will be expanding those to
19 maximize what we have had in the past in the
20 United States so that we would have more than
21 the anticipated amount right now.

22 Also, we saw that one of the

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1 manufacturers had obligations in its home
2 country of manufacture, CSL in Australia, to
3 produce vaccine for Australia ahead of others.

4 That has now happened and they are certainly
5 working with the Southern Hemisphere influenza
6 that's going on there right now and so there
7 is quite a bit of interest in getting back as
8 soon as possible. We're working with them to
9 make sure that Australia has theirs when they
10 needed them and U.S. will have them, get them
11 and go forward.

12 The other thing is you're probably
13 aware that some of the seasonal influenza
14 vaccine manufacturers have been making their
15 vaccine, completing their orders and started
16 to send those out, but one of the
17 manufacturers has had problems with one of the
18 strains, finishing it up, and has impacted our
19 time lines by four to six weeks. And so that
20 we are trying to work with them to see how we
21 can manage that and be able to raise our
22 production on that.

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1 So those are some of the reasons
2 we're going on. We do note, should know
3 there's a new seed strain that has been worked
4 on in the laboratory. Looks like it's going
5 to give yields that are similar to seasonal
6 influenza, H1N1, and so the manufacturers are
7 starting to receive those seeds and will be
8 working with those over the next two weeks to
9 see if they truly on a commercial scale, do
10 see the increase in yields. So we'll watch
11 very carefully on that and keep you updated.

12 So I think just to let you know
13 that HHS is working with the states and local
14 health departments as much as possible to keep
15 them updated and at this point I think it
16 would probably be good for me to turn it over
17 to Jay Butler at CDC so he can talk about the
18 vaccine planning.

19 DR. BUTLER: Okay, thank you,
20 Robin, and good day, Patty, and everyone else.

21 Before I start, just an audio
22 check. Am I coming through okay?

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1 CHAIR QUINLISK: You are doing
2 fine, Jay. Thank you.

3 DR. BUTLER: Okay, great. Well, to
4 address the issue of the administration phase
5 of the big three that Robin highlighted, I
6 wanted to highlight four components of that
7 area: vaccine distribution, assessment of the
8 number of doses administered and coverage,
9 safety monitoring, and communications. Of
10 course, the overarching goal of this voluntary
11 vaccination program is to provide vaccines to
12 as many people who wish to be vaccinated.

13 So starting with vaccine
14 distribution, the vaccine will be distributed
15 in a manner similar to federally-purchased
16 vaccines provided through the Vaccines for
17 Children Program or VFC. Vaccines from the
18 five manufacturers will be shipped to a
19 central distributor who will fill the orders
20 for vaccines. The orders will be sent to the
21 distributor under the direction of state and
22 territorial health departments. The vaccine

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1 will be shipped to the healthcare providers,
2 retail pharmacies, or to the state and local
3 public health facilities for administration,
4 either through the public health clinics or
5 special mass vaccination clinics. So this
6 system really is designed to provide maximum
7 flexibility to fit with state planning
8 efforts.

9 Ancillary supplies, including
10 needles, syringes, alcohol swabs, sharps
11 containers will also be provided and will be
12 shipped by the distributor in a way such that
13 they will arrive either the day before or the
14 day of arrival of the vaccine.

15 Additionally, vaccine record cards
16 will be provided for each recipient by CDC,
17 and the Vaccine Information Sheet, or VIS will
18 be available for download from the Internet.

19 Moving on to tracking of doses and
20 the coverage assessment. The number of doses
21 administered will be tracked for two reasons,
22 one, to provide a rough estimate of a

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1 denominator of persons who are vaccinated to
2 evaluate any early reports of adverse events
3 and also to determine the performance of
4 vaccine delivery to specific age groups for
5 whom the vaccine is recommended and later in
6 the agenda, Dr. Tony Fiore will be providing a
7 description of the Advisory Committee on
8 Immunization Practices and Recommendations for
9 Vaccine Use.

10 The Countermeasures Response
11 Administration, or CRA system will be used to
12 track the number of doses administered. This
13 is a web-based aggregate data reporting system
14 that will accept data on the number of doses
15 administered to people in various age groups
16 and providers and health agencies. The CRA is
17 designed also to allow states to download data
18 from their existing immunization registries.

19 Additionally, coverage as we
20 continue along and the number of doses
21 increases will be assessed by two mechanism.
22 Both are existing mechanisms that are being

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1 modified for this purpose. One is the
2 National Immunization Survey. This system was
3 previously used to assess vaccination coverage
4 can begin collecting data as early as the week
5 of October 10th and provide weekly national
6 coverage estimates.

7 Additionally, the Behavioral Risk
8 Factor Surveillance System, or BRFSS, will be
9 used, as it has been used recently to assess
10 coverage of seasonal influenza vaccine. This
11 will provide a more complete picture, although
12 somewhat less timely of vaccine coverage that
13 will allow state-by-state assessment of
14 coverage, as well as measure of coverage of
15 specific risk groups.

16 It appears that the updated BRFSS
17 data will be available as frequently as twice
18 monthly.

19 The third topic I wanted to touch
20 on is a critically important one and one that
21 is given a very high-level view of is safety
22 monitoring. Certainly, we want to do

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1 everything to provide a safe vaccine and the
2 public expects this. Data from clinical
3 trials will provide data on reactogenicity,
4 but will not provide data on any rare adverse
5 events.

6 So there's a number of mechanisms
7 that will be used to monitor vaccine safety.
8 The first two I'd like to describe are
9 existing systems that will be enhanced in
10 various ways. The first is the Vaccine
11 Adverse Events Reporting System or VAERS.
12 This existing surveillance system will
13 function primarily as a method of signal
14 detection, that is a way to collect numerator
15 data on moderate or severe reactions after
16 vaccination. The number of signals detected
17 will be compared with background rates as well
18 as the number of doses administered and
19 investigated further, as indicated.

20 Even now, before we are into a
21 vaccination program, the VAERS receives 150 to
22 200 reports daily. These are processed and

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1 the system is in the process of being staffed
2 up to be able to receive more reports. We
3 anticipate a capacity of up to a thousand
4 reports a day.

5 The second system that I wanted to
6 highlight is the Vaccine Safety Datalink.
7 This existing system will be used to assess
8 the prevalence of any signals detected in
9 vaccinated and unvaccinated persons and
10 compare these rates with expected background
11 rates. VSD is a population-based surveillance
12 using eight participating managed care
13 organizations that represent just shy of three
14 percent of the U.S. population. This system
15 incorporates a system of rapid cycle analysis
16 which is intended to arguably achieve the goal
17 of near real-time surveillance for adverse
18 events.

19 There are a number of other methods
20 in the works, ones that some of you may be
21 familiar with is the Defense Medical
22 Surveillance system of collaboration between

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1 DOD and FDA which links back to ancient
2 history and interaction with the military
3 health system for slightly over one million
4 active duty personnel.

5 Additionally, there are special
6 projects specifically focused on
7 Guillain-Barré syndrome, using the Emerging
8 Infectious Disease Program sites. These will
9 combine with laboratory and clinician-based
10 surveillance to detect any increases in rates
11 of Guillain-Barré syndrome.

12 And then there's a number of
13 special projects that are being planned with
14 collaborations. Those are very much in
15 development at this time and protocols are
16 being reviewed and revised even as I speak.

17 A drill of the adverse events
18 detection investigations scenario is in
19 development and will be executed. The plan
20 right now is for early September.

21 And the last area I wanted to touch
22 on was communications. The overarching goals

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1 of the H1N1 communication included providing
2 situational awareness, transparency and needed
3 information to public healthcare providers
4 and public health professionals, as well as to
5 the media. Additional goals include engaging
6 partners, setting realistic expectations,
7 enlisting public participation and discussion
8 about implementation and addressing concerns.

9 Certainly some of the challenges
10 around vaccine communication include
11 coordination with messages on community
12 mitigation and seasonal flu vaccine. We want
13 to make it clear which vaccine does what,
14 that just because you've been vaccinated
15 doesn't mean you can stop washing your hands,
16 that kind of coordination.

17 Methods of communication will
18 include print, broadcast and web-based media.

19 Additional activities include developing
20 professional education materials to encourage
21 pneumococcal vaccination of adults for whom
22 the vaccine is currently recommended by ACIP

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1 to reduce the risk of this life-threatening
2 bacterial infection which is a complication of
3 H1N1 pneumonia.

4 Also planned is a journalist
5 workshop on influenza to provide an
6 opportunity for detailed answers to questions
7 from the media from influenza subject matter
8 experts. And I'll stop at this time and I
9 look forward to what follows and I think next
10 on the agenda is back to Robin Robinson to
11 discuss antivirals. Thank you.

12 CHAIR QUINLISK: Yes, Robin, could
13 you go ahead and just give us the antiviral
14 update?

15 DR. ROBINSON: Yes. Thank you,
16 Jay, and thank you, Patty.

17 Three topics I want to discuss with
18 you, the first is as Dr. Lurie said that we
19 have taken your recommendations to look at
20 some of the investigational antiviral drugs
21 such as peramivir by IV presentation;
22 zanamivir IV; and also oseltamivir. And so

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1 we're supporting the clinical studies for the
2 latter two and the first one we have been
3 supporting for the last several years for the
4 development of peramivir and the Department is
5 actively discussing and meeting to talk about
6 whether these products could be available and
7 how much we would need at least initially for
8 procurement. And so I think very soon we will
9 be -- have a final decision in going forward
10 with that under emergency usage authorization
11 for critically ill individuals with influenza,
12 seasonal or the H1N1 virus. So we took your
13 advice on that and thank you for that.

14 Secondly, just to give you a little
15 update on where we are with the stockpile,
16 both at the federal and state level, total
17 right now in the states' and at the federal's
18 own hands about 84 billion antiviral treatment
19 courses and there are 3 million that have been
20 ordered by the SNS that should be arriving
21 very soon, so it brings up to a pool rated 7.

22 And then taking advice for bringing up our

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1 level of pediatric formulations of
2 oseltamivir to be in the strategic national
3 stockpile for deployment if needed, and also
4 looking at the possible resistance to
5 oseltamivir, acquiring more zanamivir, and so
6 those, with a contingency fund
7 appropriations, may be available a little bit
8 later in the end of the summer or early fall
9 as we move forward with the procurement on
10 that.

11 So we think with all of those we
12 would be able to have a little over 100
13 million treatment courses by this fall of the
14 antivirals and we've actually seen the states
15 pick up and buy more the last time we've
16 talked. We've seen a little more than 2
17 million treatment courses bought by the states
18 in addition to the 11 million that were
19 deployed to them in early May. And what's
20 left for the United States as far as being
21 able to buy it. There's a small amount that
22 would be available through the rest of the

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1 year for the commercial market. The
2 manufacturers are working three shifts a day,
3 seven days a week to provide more that would
4 be available as we go into the new year.

5 Thank you.

6 CHAIR QUINLISK: Okay, thank you,
7 Robin.

8 I think, Dan, we're going back to
9 you for an update on diagnostics.

10 DR. JERNIGAN: Sure. There were
11 three or four major issues just to follow up
12 on. One was regarding the public health
13 laboratories and their ability to meet
14 clinical diagnostic needs that were posed by
15 the present pandemic. And so we had a number
16 of discussions with the Association of Public
17 Health Laboratories and with representatives
18 from the Public Health Laboratory community.
19 It's clear that we are trying to focus their
20 testing on the surveillance testing rather
21 than providing clinical testing capacity. So
22 I think in looking through the overall search

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1 capability within the broad laboratory
2 community, we also recognize that clinical
3 hospital laboratories are not going to be able
4 to provide the testing that might be asked of
5 them as well.

6 So there are a number of different
7 lanes that essentially have -- that are open
8 in order for there to be the availability of
9 better testing. I'll just touch on a couple
10 of those. There are at least three other FDA
11 510(k) cleared assays that are out there that
12 companies have been marketing their use and
13 the dose. Those tests will provide a higher
14 sensitivity and specificity for influenza and
15 some of them can also tell if it's an
16 influenza A, but not an influenza seasonal H1
17 or seasonable H3 and therefore they're able to
18 indirectly detect the pandemic H1.

19 We understand that there are other
20 assays that are coming forward to FDA and
21 asking for the emergency use authorization and
22 I don't know if our colleagues from FDA wanted

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1 to comment on that in a second, but in
2 addition to those that are either FDA 510(k)
3 cleared or that are under an EUA, there are
4 also, we understand, development of these
5 laboratory-developed tests or, quote, home
6 brews that we think are likely to be available
7 out there that are validated under the CREAB
8 regulations.

9 One thing to point out that Focus
10 Technologies which is a subsidiary of Quest
11 Diagnostics applied for and was given an
12 emergency use authorization for their H1N1
13 pandemic PCR, so at this point that increases
14 the access to H1N1 specific testing from a
15 number of non-hospital settings as well as
16 hospital settings. And so the way this would
17 work is that a doctor can take a specimen, put
18 it into the box that Quest picks up every day
19 and then get the result back in 24 hours in an
20 outpatient setting and then there may be a
21 more rapid turnaround in some clinical
22 settings for those clinical laboratories that

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1 utilize Quest for their reference testing.

2 The CDC is completing validation of
3 the H1N1 pandemic PCR as well as the five
4 target PCR on the Roche light cycler and plan
5 to submit that to FDA and we're also working
6 with the Department of Defense on their JBEDS
7 platform as well as increasing the number of
8 laboratories that are qualified to use the
9 existing CDC five target and H1N1 tests. So
10 overall, we're trying to increase the numbers
11 of places that can do surveillance testing,
12 but also those that can do clinical testing.

13 At the point of care, with regard
14 to rapid tests, there was a statement last
15 time about the fact that the existing lab
16 diagnostic tests had unacceptably low
17 sensitivity to rule out H1N1 infection. And
18 since that presentation, the CDC has published
19 an MMWR in a report about three of the FDA
20 approved rapid influenza diagnostic tests and
21 I would just direct you to the CDC website
22 where the MMWR can be found at the MMWR

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1 website.

2 Where we found the sensitivity of
3 these three -- three of the largest and most
4 distributed tests ranged from 40 to around 70
5 percent and so it's not great, but for some of
6 the tests it's at a level that was higher than
7 what had been reported for seasonal influenza
8 in some other peer-reviewed literature.

9 The overall outcome of that MMWR
10 and a subsequent meeting that we had with
11 representatives from the laboratory and
12 clinical community was guidance from CDC that
13 was posted on the website about two weeks ago
14 where we walked through the -- what we
15 considered the acceptable interpretation of
16 rapid tests where essentially if a person gets
17 a positive test, it is something that you can
18 act on, but if you have a negative result, we
19 do not recommend that one, make decisions
20 about cohorting or make decisions about
21 returning persons into areas where there might
22 be increased risk of transmission based on the

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1 test results alone. And that information and
2 an algorithm is presented on the CDC website.

3 Let's see, finally, in terms of
4 some better diagnostic tests, there was a
5 request for us to discuss that. We are
6 working with this one company, Mesoscale, that
7 has the diagnostic tests that can determine
8 with a higher sensitivity and specificity in
9 the outpatient setting about having that
10 device in strategic locations in the U.S. so
11 that we can use it this fall for better
12 surveillance for influenza, but also putting
13 it in areas where they may not have access to
14 PCR easily like in some of the island
15 territories or in remote areas that IHS
16 facilities maintain.

17 And then finally, our Influenza
18 Reagent Resource is available still and at
19 this point we are continuing to provide
20 reagents, both the PCR primers, but also the
21 support reagents to all of the public health
22 laboratories and to a number of other

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1 qualified laboratories and a number of those
2 reagents are also available from the Influenza
3 Reagent Resource website.

4 And with that, I'll hand back over
5 to you, Patty.

6 CHAIR QUINLISK: Okay, thank you
7 very much, Dan.

8 What I'd like to do now is open it
9 up for discussion from members of the Board.
10 Remember, when you ask your question, would
11 you please identify yourself and if your
12 question is directed to a certain person just
13 make that obvious too.

14 So let's go ahead and open it up
15 for discussion.

16 DR. PAVIA: Hi, this is Andy Pavia.

17 I have two questions for Dan. The first, I
18 think I know the answer to, but it might be
19 helpful if we knew the names of the three
20 platforms that were cleared under 510(k).

21 The second question is a little
22 more complicated and that is can you fill us

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1 in on how you will be able to do rapid granule
2 surveillance for resistance and get that
3 information out in a quicker manner than last
4 year.

5 DR. JERNIGAN: And again, if folks
6 at FDA want to chime in, that would be fine,
7 but the three are Luminex, Perdessa, and
8 Verigene which I believe is a Nanosphere
9 company, the last one. Those are the three
10 that I was referring to.

11 The second question was about
12 antiviral resistance, and so we have in the
13 U.S. through the Biologics Surveillance
14 Network which is about 95 public health
15 laboratories, they are continuing to receive
16 specimens from sentinel provides and that
17 information, excuse me, those specimens are
18 tested by target as well as with the H1N1
19 primer set and then those that are either
20 specimens or viruses are sent to the CDC where
21 we do further characterization or resistance
22 testing both sequencing, but also functional

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1 testing.

2 Right now, the sequencing
3 capabilities that we have at CDC and a few
4 other public health laboratories and there are
5 some academic institutions that do the same I
6 think, but the functional testing does not
7 occur at very many places at all and we are
8 one of the few that does that.

9 So in terms of the sequencing, we
10 have the initiative through APHL and through
11 the Public Health Emergency Response Grants.
12 There was the ability for the states to apply
13 for funding to improve their capability to do
14 antiviral resistance testing. And so we're
15 planning to engage with APHL and public health
16 laboratories to increase the capability to
17 detect new antiviruses through functional
18 testing, but also the known sequences with
19 genetic sequencing, power sequencing at
20 selected sites.

21 We have done calculations to try to
22 determine how many viruses we would need in

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1 order to detect a certain percentage of change
2 and so I have some of that information. I
3 don't have it with me now though, but at this
4 point we could be doing better in terms of
5 having more places with it, but we do have a
6 system where through sampling we think we can
7 adequately detect when there is emerging
8 resistance.

9 CHAIR QUINLISK: Dan, this is
10 Patty. Could you about getting that
11 information out and how fast it's going to
12 take after identification of resistance?

13 DR. JERNIGAN: At this point we
14 have a weekly report of our antiviral
15 resistance and that information is, of course,
16 in the FluView distributed by email and also
17 on our website each Friday. And so if you go
18 to the FluView site today, you can actually
19 see what the most up to date information is
20 there.

21 WHO also reports the resistance
22 globally on their website. But at this point

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1 if we do detect meaningful resistance that is,
2 we're seeing this is not in an individual that
3 was say a bone marrow transplant patient who
4 had been taking lots of Tamiflu for a period
5 of time, if we're seeing that there is what
6 really looks like emerging antiviral
7 resistance, that's something that we would put
8 out through HAN and not wait for the weekly
9 cycle.

10 We will be moving into daily
11 reporting for certain things once influenza
12 activity increases and so at that point we
13 would probably be putting out the results that
14 we have from virologic surveillance on it at
15 least weekly and much more likely bi-weekly or
16 even more frequently, depending on the
17 influenza activity.

18 CHAIR QUINLISK: Okay, thank you,
19 Dan.

20 Other questions?

21 DR. ROSE: This is Eric Rose.

22 CHAIR QUINLISK: Go ahead, Eric.

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1 DR. ROSE: We also discussed the
2 possibility of using antivirals for post-
3 exposure prophylaxis, particularly in the
4 window of time that it sounds like we may be
5 faced with in which we're seeing not a robust
6 supply of vaccine. Is there formal
7 consideration of using the antiviral stockpile
8 at least in that gap?

9 DR. GELLIN: Eric, this is Bruce
10 Gellin. So two things about that. One is
11 that CDC is in the process of revising
12 antiviral guidelines. So I don't know the
13 specifics of the timing, but we'll all look to
14 that.

15 The second is that as we've
16 discussed before, that would then, depending
17 on the specific guidance and to which
18 populations and how long that prophylaxis
19 might be in place, it could be a serious drain
20 on the available antivirals that we have. So
21 I think that we all recognize that there is
22 going to be this potential period in which

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1 vaccine won't be available and antivirals
2 might, but that's really the current thinking.

3 And I don't know if Robin or others or folks
4 from CDC want to add to that.

5 CAPT. FIORE: Bruce, this is Tony
6 Fiore from Influenza Division at CDC. You're
7 correct. We're in the process of revising our
8 guidance. Our major emphasis will be on
9 identifying ways that people at high risk for
10 complications or the severely ill can get more
11 ready access to early antiviral treatment. We
12 see a large opportunity for improvement in how
13 quickly people get their antivirals.

14 So our major emphasis has been
15 early treatment. There is some guidance about
16 use of antiviral prophylaxis and in certain
17 circumstances unprotected healthcare workers
18 that get exposure, that sort of thing. But
19 due to what we've heard about constraints
20 about overall supply what we are focusing
21 largely on antiviral treatment, we'll continue
22 to take this up in the ACIP Influenza Work

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1 Group as time goes on. We meet again next
2 week and we'll be talking about these things
3 as time goes on.

4 I don't foresee any major, in the
5 near future, change in the relatively limited
6 use of prophylaxis.

7 DR. ROSE: This is Eric Rose again.

8 I understand the issue of a potential drain,
9 but has that been well modeled with different
10 scenarios especially as we're hearing
11 vaccines are really not going to be available
12 and even then only partially available in mid-
13 October.

14 DR. GELLIN: This is Bruce again.

15 Let me respond and I think Robin may have some
16 comments. And some of this, as we highlighted
17 in the presentations from ACIP that talk about
18 when vaccine is available and where it's
19 going, so I think that's related as well.
20 Because the latter, to give a sneak preview is
21 healthcare workers are high on that list. So
22 I think particularly for that population it's

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1 going to be relevant. Robin may have some
2 comments about the modeling.

3 DR. ROBINSON: Yes, Eric, thanks
4 for the question. The MIDAS modeling group
5 and several others that are in CDC and in
6 BARDA have embarked on this for a while now,
7 in fact, since early July. And looking at the
8 different scenarios of different amounts of
9 vaccine being available and then what will we
10 do with the antivirals. So they are coming
11 out hopefully this month with some results and
12 will be able to inform us going forward.

13 CHAIR QUINLISK: Thank you. I'm
14 going to ask a question. One of the concerns
15 that I have is that we have the school
16 children going back to school now and the
17 vaccine is not available until October and
18 obviously this is the new vaccine; the old
19 method of producing that there's some concerns
20 about the risk.

21 Has there been modeling done on
22 risk benefits, especially if we have, say, the

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1 peak of H1N1 occurring as early as September
2 and maybe even going down by the time the
3 vaccine is available? And how do we make the
4 decisions at that point that how you use the
5 vaccine that does become available? I know
6 there's not an answer to it, but I wonder if
7 they've been looking at it or there's been any
8 modeling done on that?

9 DR. ROBINSON: Patty, this is Robin
10 Robinson again. The CDC and the MIDAS groups
11 are looking at that as one of the specific
12 questions to come back with you and these
13 targeted groups from ACIP and what will we do
14 with schools and other mitigation measures
15 more than just antivirals, that to me,
16 affected here.

17 CHAIR QUINLISK: Absolutely. Are
18 there other questions?

19 DR. JAMES: Dr. James. I just had
20 a quick question for whomever has the best
21 answer.

22 Where are we, especially the health

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1 care facilities, on supply versus demand of
2 N95s?

3 DR. ROBINSON: Jim, Robin Robinson
4 again. We have members of our staff and also
5 at CDC that are working on this and we will
6 get you an answer back to your question. I
7 would not want to comment other than the
8 manufacturers are working at full capacity
9 right now and there have been efforts in the
10 business community to buy these products and
11 also by the Department.

12 DR. JAMES: Thank you.

13 DR. GELLIN: Just related to that,
14 just so you know that the IOM has been holding
15 a workshop on personal protective equipment
16 for healthcare workers. There's a report due
17 out in early September. So that's
18 essentially, I think, was the last couple of
19 days, a report on that topic and healthcare
20 workers.

21 DR. PAVIA: This is Andy Pavia. To
22 add to that, HICPAC, the advisor to CDC on

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1 hostile infections has recommended
2 modification of the guidelines for personal
3 protective equipment that if adopted would
4 lead to a much decreased demand for N95s. IOM
5 discussion to date is moving in the same
6 direction so there are further discussions
7 that have to happen, but there might be some
8 balance between supply and demand to get
9 things moving in the direction that the
10 science points.

11 CHAIR QUINLISK: This is Patty.
12 Maybe we could ask Leigh to keep an eye on
13 that IOM report when it becomes available, to
14 let us know, and forward a copy of that. I
15 think that would be very useful for the board.

16 CAPT. SAWYER: I'll do that.

17 CHAIR QUINLISK: Thank you. Any
18 other questions or comments on updates that we
19 got from HHS?

20 Okay, I think what we'll go do is
21 go on to getting our updates from the Advisory
22 Committee and I believe the first one is the

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1 Vaccines and Related Biological Products
2 Advisory Committee which I believe is VRBPAC.

3 And I believe Dr. Modlin is going to give us
4 the update. Is that correct?

5 CAPT. SAWYER: Is Dr. Modlin on the
6 line?

7 DR. BAYLOR: If not, this is Norman
8 Baylor from the Office of Vaccines, Food and
9 Drug Administration. If he's not on the line,
10 I will do it.

11 CAPT. SAWYER: I guess he is not on
12 the line, Norman.

13 DR. BAYLOR: Okay, I will give you
14 the VRBPAC update.

15 We at the FDA have held its
16 Vaccines and Related Biological Products
17 Advisory Committee in July, July 23. And
18 really the purpose of that meeting was to
19 present to our Advisory Committee the pathway
20 for licensure of the 2009 H1N1.

21 We've been collaborating with a
22 number of the Government agencies, DCNIH,

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1 BARDA, the Department and others and we
2 presented to the Committee that our
3 determination was that the monovalent vaccine
4 against pandemic H1N1 2009 could be licensed
5 as a strain-change supplement and this strain-
6 change supplement would be to the existing
7 BLA. This is consistent with our licensure of
8 new seasonal vaccines every year. It's also
9 consistent with past regulatory activities and
10 we communicated to the Committee that this
11 would also facilitate the availability of
12 vaccines, if recommended. If we've -- in the
13 past, with the supplemental H1 vaccine A-
14 Taiwan, probably the most recent time that we
15 used this procedure for a monovalent vaccine.

16 We had a number of discussion items
17 for the Committee. We had CDC present the
18 epidemiology of the emerging H1N1. We had an
19 overview of the procurement process by Dr.
20 Robinson of BARDA. CDC's presentations were
21 presented by Dr. Fiore and Dr. Nancy Cox at
22 CDC. And we also discussed manufacturing

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1 considerations, where we were with preparation
2 of the Agency. We've heard some of those
3 updates today that preparations are on track.

4 We also presented our approaches
5 and activities as far as clinical trials to
6 support the H1N1 and as you've heard earlier
7 today many of these clinical trials have
8 started by the manufacturers as well as by the
9 National Institutes of Health.

10 These clinical trials will be done
11 to get an idea of the dose, the proper dose
12 for the H1N1.

13 NIH also presented an overview of
14 their clinical trials at this meeting and we
15 lastly presented data, some data on tools that
16 could be used as far as looking at
17 surveillance and post-marketing safety
18 monitoring. The manufacturers presented
19 comments on their clinical trials as far as
20 how they modified some of the recommendations
21 that we gave them. And lastly, the Committee
22 did concur, the VRBPAC Committee did concur

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1 with our recommendations to license the 2009
2 H1N1 monovalent vaccine, absent a strain-
3 change supplement and they also agreed that
4 pregnant women should be immunized with these
5 vaccines.

6 I will stop -- there were a number
7 of other discussions at the meeting as far as
8 the use of adjuvanted products, delivery, the
9 use of effective delivery of situations of the
10 delivery methods for the vaccines and what
11 have you. So I think I'll stop there and if
12 there are any questions, I'd be glad to take
13 them.

14 CHAIR QUINLISK: Okay, do people on
15 the Board want to hear him talk a little bit
16 more about the adjuvant. I know that's an
17 issue that's come up at previous meetings.

18 DR. BERKELMAN: Yes, we would.

19 CHAIR QUINLISK: Could you just go
20 ahead, Norman, and say just a little bit more
21 about the discussion with the adjuvant?

22 DR. BAYLOR: We didn't get into a

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1 lot of detail on the adjuvants, but we did
2 say, since the focus of this particular
3 meeting was the pathway, but we did indicate
4 to the Committee if adjuvants were used, since
5 we have limited experience with the adjuvants
6 in the United States and we don't have any of
7 the novel adjuvants used in vaccines, most
8 likely if adjuvants were needed. These would
9 be used under an activated influence, the
10 vaccines would be used under an EUA. We also,
11 and the Committee, they concurred with that
12 approach. They made some comments on the
13 safety evaluations of these adjuvants. We did
14 not present any data on the adjuvants at this
15 particular meeting. This is probably
16 something that we will be doing in the future,
17 but I think it's fair to say that the Advisory
18 Committee had no objections to the use of
19 these adjuvants under emergency use
20 authorization, if the need arose.

21 CHAIR QUINLISK: Okay, thank you.

22 Let's go ahead and finish two updates before

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1 we open it up for questions.

2 The next update is going to be on
3 the National Vaccine Advisory Committee or
4 NVAC and Bruce, I believe you may be doing
5 that one.

6 DR. GELLIN: It's actually a two-
7 part performance with me and Andy.

8 CHAIR QUINLISK: Okay. Why don't
9 you go ahead first and Andy, just go when he's
10 done. Go ahead.

11 DR. GELLIN: Gus Birkhead couldn't
12 be with us today, otherwise he would do this
13 as well. Just to remind you, this section is
14 about -- so NBSB is informed of what the other
15 federal advisory committees dealing with in
16 vaccines, particularly what H1N1 are doing.

17 NVAC essentially has two large
18 charges here. One is to look at financing
19 issues and the second is to look at safety
20 issues. We will take advantage of Andy's many
21 hats since he's the chair of the Safety
22 Program, so he'll talk about that as well, but

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1 I briefly wanted to give you a sense of what
2 was happening and the recommendations that
3 came from NVAC about financing.

4 Remember, that the Federal
5 Government is going to be purchasing all of
6 the doses so this is about the administration
7 fee primarily and maybe for the sake of time
8 we can send around the recommendations as they
9 were forwarded to the Assistant Secretary for
10 Health, the NVAC reports. But again, it's all
11 about the administration fee. And you also
12 recognize that NVAC's recommendation, though
13 reported to the Assistant Secretary for
14 Health, the Assistant Secretary doesn't
15 necessarily have the ability to act on them
16 other than to follow their recommendation in
17 the sense that one of the recommendations is
18 about all public and private health insurance
19 plans should voluntarily provide first dollar
20 coverage.

21 Again, you can recognize that the
22 ASH doesn't necessarily have the ability to

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1 make that happen, but is in the process of
2 outreach to these groups to notify them of the
3 recommendations and the rationale for them.

4 Another, again, all related to
5 reimbursement rates. There was one directed
6 to CMS, again, others to different health
7 plans. One relevant to community vaccinators
8 to facilitate their participation and also to
9 ensure that the Federal Government was doing
10 what it could to support the vaccination
11 effort for the vaccination campaigns. As you
12 know, part of the funding that's already gone
13 out to the states is not only for their
14 planning, but also beginning to cover some of
15 these fees as well.

16 So I think that's the broad stroke
17 and I'm happy to get into more details, but I
18 think that it may be better just to read these
19 and recognize that this, like the
20 recommendations that Andy will talk about, are
21 works in progress and the NVAC like you, as a
22 formal meeting via teleconference on the 24th

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1 of August. So that will be a time when we too
2 will be reporting back about the actions on
3 these recommendations to date.

4 Andy?

5 DR. PAVIA: Thank you, Bruce. Let
6 me just briefly tell you about the H1N1 safety
7 recommendations. The group includes Gus
8 Birkhead, as Rich already mentioned; Steve
9 Black, vaccine safety expert; Corry Dekker,
10 another vaccine safety expert and NVAC member;
11 Harvey Feinberg from the Institute of
12 Medicine; Clare Hannan, Executive Director of
13 the Association of Immunization Managers;
14 Marie McCormick; William Rawlins from the
15 American Health Insurance Plans; David
16 Sundwall, who is a state health officer
17 representing the Association of Safety and
18 Health Officers. I just tell you that to give
19 you a sense of the breadth of experience and
20 the kind of expertise we brought to the group.

21 There are many types of discussions
22 we've been having on an on-going basis with

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1 CDC, in particular, but also involving the VA,
2 DoD, and NIH who all have a role in vaccine
3 safety. To date, we've issued one set of
4 recommendations which were voted on by the
5 full NVAC on July 24th and these are on the
6 NVAC website, but I think we can probably send
7 these around as well. I won't read them, but
8 let me just give you the gist of the content.

9 There were three recommendations.
10 All were approved by the full NVAC and have
11 been forwarded to the ASH and shared with the
12 Secretary as well.

13 The first recommendation was really
14 an organizational one that there is a need for
15 developing in writing a comprehensive and
16 detailed plan that outlines the agency-wide
17 and the Government-wide plan for vaccine
18 safety monitoring. As you can imagine, this
19 is difficult because there are many people
20 contributing vital data to this. It's not all
21 happening within CDC or FDA and the decision
22 making process based on this data also needed

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1 to be thought through. And there were four
2 specific components of this including
3 developing timelines, involvement of other
4 agencies, and developing a visible roadmap or
5 organizational chart as to how this would
6 proceed.

7 My understanding is that that's
8 well underway and Bruce can comment on that.

9 The second recommendation had to do
10 with the capacity of the existing systems to
11 get rapid answers not on whether a signal was
12 occurring, but whether or not there appeared
13 to be causal relationship between that signal
14 about some event that was temporally related
15 with vaccine and the concern there was one
16 that I think was shared by everyone involved
17 that the existing systems were at a
18 disadvantage because of the novel way that
19 this vaccine is going to be administered with
20 much of it in the public sector and the need
21 to link data on who got what vaccine.

22 So the recommendation was to

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1 strengthen the existing systems and to look
2 toward novel systems to be able to evaluate
3 potential vaccine risk and there are three
4 specific bullets under there, to utilize
5 existing mechanisms that are used for vaccine
6 adverse events, but to enhance them or refine
7 them as needed, to explore other existing data
8 bases that are not yet routinely used for
9 vaccine adverse events, but could be in the
10 setting and to develop novel strategies for
11 doing such things as active surveillance of
12 specific populations. And activities are
13 underway for all three of these according to
14 my understanding.

15 The last recommendation has to do
16 with how data will be analyzed and decisions
17 made and this has both scientific and
18 transparency in public trust issues because
19 this is, in many ways, much like the situation
20 with political trials that information that
21 comes back in real time will be complex,
22 confusing, and require very good scientific

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1 review.

2 The Safety Working Group suggests a
3 consideration of the development of something
4 resembling the Data Safety and Monitoring
5 Board that would provide a second look at
6 vaccine safety data as it came in. Unlike the
7 Data Safety and Monitoring Board, this Board
8 would not be expected to stop trials, to make
9 policy decisions, but would really provide the
10 epidemiologic, statistical, and vaccine safety
11 expertise to give a second expert unbiased
12 view of the data that was coming in that could
13 be used to corroborate or disagree with the
14 Government's internal evaluation of data as it
15 came in. And however, it turned out would add
16 to the scientific validity and the general
17 trust.

18 So you can read these
19 recommendations in full, but I think I'll stop
20 there.

21 CHAIR QUINLISK: Thank you both
22 very much, Andy. And again, maybe we can ask

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1 the staff, if you're interested, to pull those
2 up and send them out to us.

3 CAPT. SAWYER: Yes, we'll do that.

4 CHAIR QUINLISK: Thank you, Leigh.

5 Let's go on to the ACIP, the Advisory
6 Committee on Immunization Practices and I
7 believe that we'll have two speakers here
8 also, Larry Pickering, the Executive Secretary
9 of the ACIP and Tony Fiore, who will talk
10 about the priority recommendation who is in
11 the Influenza Division at CDC.

12 Why don't you go ahead, Larry?

13 DR. PICKERING: Thank you very
14 much. An emergency meeting of the ACIP was
15 held on July 29th. We had 14 of the 15
16 members attended, about 60 or 70 percent of
17 the liaison organizations of which we had 26,
18 all the ex officio members. And there were
19 probably 300 or so public members that --
20 public people who were there and a large news
21 media interest also.

22 So it ensured for a very good and

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1 vigorous discussion of the information that
2 was presented. And Tony will talk in a moment
3 about the results of the recommendation.

4 Pre-meeting material was
5 distributed to all ACIP members so they had
6 background knowledge of what was going to be
7 discussed with uniform and the meeting agenda
8 and the slides were posted on the ACIP website
9 two days after the meeting, and they're still
10 on the website if anyone wants to look at
11 those.

12 There were four meeting goals that
13 were presented. One was to review the
14 epidemiology and virology of H1N1; secondly
15 was to use scientific data to support guidance
16 on which groups should be focused on the
17 initial vaccine efforts. The third one is to
18 provide recommendations on which groups should
19 be prioritized for vaccination first, if
20 vaccine is produced and distributed in phases
21 and we've heard a little bit about that from
22 Robin. And then lastly is to provide

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1 recommendations that would allow the overall
2 vaccine program, both seasonal and pandemic,
3 to be most successful. The seasonal
4 recommendations were published by Tony and his
5 group I think several weeks ago at MMWR.

6 So with that, I think I'll stop and
7 let Tony provide information and fill us in on
8 the recommendations of the ACIP with regard to
9 vaccine usage.

10 CAPT. FIORE: Thanks, Larry. This
11 is Tony Fiore. And thanks for requesting my
12 very brief summary of what was a long and
13 fruitful and complex meeting on July 29th.

14 Just leading up to that meeting,
15 the Influenza Work Group which consisted of a
16 couple of ACIP members and a number of members
17 from the liaison organizations and some
18 outside experts have been meeting at least, I
19 guess about once a week and sometimes a lot
20 more often by emails and phone and so on, to
21 develop work group recommendations the ACIP
22 could look at. When we were doing that we

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1 were, of course, concerned that the
2 recommendations be evidence based.

3 We also thought there should be an
4 emphasis on local decision making because
5 based on the experience in 2004 when there was
6 a vaccine shortage and we ended up still
7 throwing away vaccine at the end of the year,
8 we didn't want to over prioritize. We didn't
9 want to have people stepping back and waiting
10 for their turn and having everybody step back
11 at the same time and nobody getting the
12 vaccine.

13 So the intent was to develop a
14 quite large group, one that not only exceeded
15 the size of the initial vaccine supply, sort
16 of a big tent approach, to try to get the
17 programs up and geared for running back ACIP
18 programs aimed at large groups.

19 So the initial groups that were
20 picked and ended up getting voted in by the
21 full ACIP at that July 29th meeting, you
22 probably have read already, but it's pregnant

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1 women, households that have contact with
2 children less than six months of age because
3 those young infants can't be vaccinated
4 themselves; healthcare and emergency medical
5 services personnel; persons aged six months
6 through the 24 years of age and that's based
7 upon the highest incidence being in those age
8 groups; and then persons aged 25 to 64 and
9 medical conditions that confer a higher risk
10 of complications based upon the
11 hospitalization data showing that 70 percent
12 of adults hospitalized had underlying medical
13 conditions.

14 We were also concerned that there
15 might be at least initially very tight supply
16 of vaccine in some places. It's really hard
17 to predict demand and how distribution will
18 play out. And so we wanted to give sort of a
19 fall-back position that had a much narrower
20 focus group in situations where the vaccine
21 supply was really tight. And if things go
22 well, if lots of vaccine doses come out fairly

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1 quickly, we may never need to use these narrow
2 prioritization groups. But just so you know,
3 this consists of pregnant women and household
4 caregiver contacts of children of less than
5 six months of age so that group stays, gets
6 complete transfer to that smaller
7 prioritization group.

8 Then the healthcare and emergency
9 medical services personnel were narrowed down
10 to those who just had contact with patients or
11 infectious material. The child group was just
12 narrowed down to children six months to four
13 years old. And also children older than that
14 who had medical conditions associated with
15 higher risk of influenza complications. So
16 that first big group is about 160 million.
17 That smaller prioritization group is about 42
18 million.

19 The ACIP voted those in and that
20 information will be published in the MMWR, the
21 final set of recommendations perhaps as early
22 as next week.

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1 The Work Group also looked at what
2 should we done once the programs are up and
3 going and meeting the demand of that 160
4 million big group, big target group. At that
5 point, vaccination will be recommended for all
6 adults up through age 64 years and then as
7 supply increase and demand is being met the
8 next, the third stage would be adults 55 and
9 older, and the last group would be reexamined
10 as needed, according to new epidemiologic data
11 or clinical trials data, immunologic data, and
12 also the context of global needs for H1N1
13 vaccine. But even in the best case scenario,
14 it certainly will be weeks to months before we
15 get to that second, that third group of older
16 folks.

17 Finally, the Work Group is also
18 assuming that two doses are going to be
19 needed, and didn't want people to keep in
20 reserve a second dose once they gave dose one
21 to a person, because the assumption is that
22 supply will increase over time. They also

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1 wanted to emphasize the use of seasonal
2 vaccines as soon as it's available for all the
3 people for whom seasonal vaccine is
4 recommendation, including older folks.

5 I think that's about the gist of
6 what the recommendations are. As I said,
7 you'll see this published very soon and
8 obviously, there's a communications campaign
9 that will be going with this that Kris Sheedy
10 outlined at the meeting, Kris from CDC. We
11 will no doubt be revisiting this at the
12 October ACIP meeting which sounds like it's
13 going to occur just as vaccines start becoming
14 available, so we'll have a chance to look
15 these over again, if we get new epidemiologic
16 information or there's a new supply or demand
17 issues that we need to deal with. That's it.
18 I'll turn it back over.

19 CHAIR QUINLISK: Okay, thank you
20 very much, Tony. Again, we know that these
21 recommendations, as you said, might be coming
22 up pretty quickly could we ask the staff to

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1 watch for those and when they are available to
2 send them on to the members.

3 CAPT. SAWYER: Sure. We'll do
4 that.

5 CHAIR QUINLISK: Let's go ahead
6 then and open this up for discussion. Just
7 remember to say who you are and if you have a
8 question targeted for somebody let them know.

9 Let's go ahead and I'll put it up
10 for the members of the Board.

11 DR. SCANNON: Yes, this is Pat
12 Scannon. Are there any recommendations or
13 discussions relative to the timing of seasonal
14 vaccine versus the H1N1 vaccine?

15 CAPT. FIORE: This is Tony Fiore.
16 I'll field that. There were recommendations
17 that the two vaccines could be given
18 simultaneously, if needed, that is the two,
19 when they're inactivated vaccines, you're not
20 likely -- depending on final licensure, it's
21 not likely you would be able to get up to two
22 LAIV vaccines at the same time.

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1 It's our hope that a lot of people
2 will be getting those seasonal vaccines which
3 even now are becoming available in clinics,
4 will be getting those early and actually will
5 get lots of that. Seasonable vaccine campaign
6 underway before, novel H1 vaccines show up,
7 but at this point pending the information from
8 the clinical trials and they are looking at
9 this, we're assuming that the two vaccines,
10 two inactivated vaccines could be given at the
11 same time.

12 DR. SCANNON: Thank you.

13 CHAIR QUINLISK: This is Patty.
14 I've got a question. I don't know if this is
15 happening nationwide, but certainly in Iowa
16 there seems to be a campaign with
17 misinformation about the Government going to
18 force people to accept the vaccine and
19 misinformation about what the vaccine contains
20 and things of that sort.

21 I don't know whether that's
22 happened nationally, too, and I guess it

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1 brings up the whole question about how to
2 communicate not only what we're recommending
3 and who to give the vaccine, but information
4 about the way we're watching for safety
5 issues, etcetera.

6 I don't know that that's
7 particularly targeted to somebody, but maybe
8 Andy could take a first whack at it.

9 DR. PAVIA: Okay, I'm not sure -- I
10 think it's very clear that from all the
11 discussions that have been had so far and
12 given that this is public call that there is
13 absolutely no intention of making vaccination
14 mandatory for any group.

15 The communications efforts have
16 been highlighted by I think everyone in the
17 advisory groups and they're well recognized at
18 HHS and CDC, but there's an attempt, I think,
19 to coordinate those efforts and really get
20 accurate information out. Beyond that, I'm
21 not sure I have any terrific insights.

22 CHAIR QUINLISK: It was pretty

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1 amazing, our Governor's office and legislators
2 as well as handing out pamphlets at our
3 Farmers' Markets, with all the same
4 information, so that it appears that there's
5 some kind of a very coordinated effort to tell
6 people that they're going to be tied down and
7 vaccinated.

8 DR. PAVIA: I've seen similar
9 material as well and it really begins with
10 that fiction. There are some concerns about
11 adjuvants that again suggest that untested
12 vaccines are going to be given to people
13 without their consent, etcetera. I think the
14 real danger is that this kind of
15 misinformation has a way of spreading barley.

16 CHAIR QUINLISK: I saw one that
17 said if you get this vaccine it will cause you
18 to become homicidal and kill other people.
19 Anyway, other questions?

20 DR. DRETCHEN: Ken Dretchen. When
21 you look at the second priority group to the
22 25 to 64, that's a pretty wide group and it's

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1 conceivable that people who are at the upper
2 end of that group may actually be more akin to
3 people who are in the third group, the 65 and
4 older, who may only need one inoculation in
5 order to be protected. So is there going to
6 be data, do you think, coming out of the
7 clinical trials that may help to elucidate if
8 that second group may change in terms of the
9 wide disparity of the age factor between 25
10 and 64 to some other higher members of that
11 group maybe added to the third priority and
12 may only need a single inoculation which would
13 obviously cut down on the amount of dosages we
14 need?

15 CAPT. FIORE: Yes, this is Tony.
16 We are hoping that we will have some data
17 available that might help us out with some of
18 the issues about whether you really need two
19 doses. It is quite plausible and I think
20 there's some hope. I remember hearing some
21 expressed in person NBSB meeting that some of
22 the older folks might need one, but at this

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1 point ACIP felt like it would be much easier
2 to -- or much more from a communications point
3 of view, easier to recommend two and if there
4 are some subgroups that only need one, to pull
5 back, then tell everybody -- leave people with
6 the impression that one might be enough
7 because at least for seasonal influenza
8 vaccine, we know that one dose isn't really 50
9 percent as good as two doses for young
10 children, for example. It really just gives
11 you that initial priming and it's hard to show
12 that there's any effects in the single dose in
13 that group and that might be true of the
14 larger population swapped with this situation.

15 DR. DRETCHEN: Yes, this is Ken
16 Dretchen again. Yes, I was just thinking
17 about the fact that even in the age bracket
18 maybe from age 55 on, depending on potential
19 prior exposures, we want to make sure that
20 those numbers of 25 to 64, you know, were not
21 written in stone.

22 CAPT. SAWYER: Patty, this is Leigh

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1 Sawyer. I would like to encourage us to move
2 on the agenda. We have over 250 people on the
3 phone and I do not know how many public
4 comments we'll have. So I don't want to cut
5 the Disaster Mental Health discussion short.

6 CHAIR QUINLISK: That's a good
7 point. Thank you. So I think what we'll do
8 if people have other questions for this group
9 we can just email them, but let's go ahead and
10 get the Psychological Impact of H1N1. I
11 believe Dan Dodgen is going to give us a bit
12 of an update. He's Executive Director of the
13 Disaster Mental Health Subcommittee.

14 Is that correct, Dan?

15 DR. DODGEN: Yes. I'm on the line
16 and I just want to say quickly your question
17 about risk communication, I think is
18 particularly germane and one of our
19 subcommittee members is actually on today,
20 Brian Flynn. I'll introduce him in a second
21 and he's going to talk a little bit about the
22 psychological aspects of the way that we do

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1 communication.

2 But first, I'm going to turn it
3 over to our Disaster Mental Health
4 Subcommittee Chair, Dr. Betty Pfefferbaum, to
5 talk a little bit about the psychological
6 impact of H1N1 more generally.

7 DR. PFEFFERBAUM: Thank you, Dan.
8 I want to begin by thanking the Board for the
9 opportunity to address some of the
10 psychological issues associated with H1N1.
11 One aspect of any planning or response to a
12 severe outbreak of this disease or other
13 epidemics is to address the emotional effects
14 that this kind of emergency would have on
15 children and families, communities and
16 healthcare providers.

17 We know, for example, to expect an
18 increase in anxiety and stress in the fall
19 when people are exposed to more frequent
20 information about this issue through the media
21 and through public service messaging about the
22 threat of flu and the healthcare precautions

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1 that they should follow.

2 Parents are already concerned about
3 their children and also worried that schools
4 may have to close. This would create child
5 care and financial challenges.

6 In the workplace, employees may
7 become more concerned about the financial and
8 health consequences of catching the disease
9 while managers will have to consider the
10 impact of employees needing time off when
11 they're sick or to care for other people who
12 are sick.

13 Thus, the illness and concern about
14 it have the potential to affect school and
15 workplace productivity and to raise
16 psychological and social concerns.

17 In the event that the flu results
18 in a significant increase in serious illness
19 and death and especially if this occurs in
20 children and younger people, stress and grief
21 reactions will be widespread and require
22 psychological and bereavement support.

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1 Employees will need access to
2 services at and through work and children and
3 staff in schools will also require support
4 services. If isolation and quarantine are
5 widely used, vulnerable populations including,
6 for example, people with substance addiction
7 who rely on community support for recovery may
8 be cut off from needed services and thus
9 alternative means of providing people with
10 opportunities to connect are an essential
11 component of planning.

12 Hotlines and interactive websites
13 are examples of strategies that could become
14 important in delivering emotional support to
15 these and other people in our communities.
16 And we're particularly concerned about
17 children who are especially vulnerable to
18 stress and anxiety during a disaster like
19 this. Professionals and caregivers need to
20 prepare now to educate and reassure children
21 and their families on how best to stay healthy
22 and how to cope if they or friends become ill.

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1 This is an important, actually an
2 essential part of facilitating coping and
3 resilience.

4 Dan, I'll turn the floor back to
5 you.

6 DR. DODGEN: Thanks, Betty, and I
7 think that's useful information for the Board
8 to consider.

9 Let me just talk a little bit about
10 some of the things that we've been doing here,
11 particularly in ASPR. Obviously, there's a
12 lot of other parts of HHS represented on the
13 call and I don't want to represent what
14 they're doing, but just a couple of the things
15 that we've been up to lately that the Board
16 may be interested in.

17 In May, we hosted a behavioral
18 health symposium which is a lecture,
19 discussion for ASPR staff on disaster mental
20 health strategies to assist both responders
21 and civilians with coping and remaining
22 resilient in the base of distressing emergency

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1 events such as natural disasters or pandemic
2 influenza. And we were lucky enough to have
3 Bob Ursano who many of you know because he's a
4 member of the Disaster Mental Health
5 Subcommittee in addition to being Director of
6 the Study for -- the Center for the Study of
7 Traumatic Stress, at USPHS, as the person
8 delivering that symposium for us.

9 We also have done a number of other
10 things as this outbreak has continued. We've
11 been working with members of NDMS mental
12 health specialty teams to develop
13 recommendations for mental health force
14 protection for federal responders, germ
15 response to H1 influenza, H1N1 influenza and
16 in particular, thinking about how such
17 services might be delivered in a sheltering
18 place or social distancing scenario.

19 We also participate in weekly
20 multi-agency planning calls to ensure that
21 behavioral health and at-risk populations are
22 integrated into the Department's overall

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1 planning and guidance strategies. And I'm not
2 sure if Terry Spear from SAMHSA is on board or
3 not, but SAMHSA has actually developed a
4 number of guidance materials related to mental
5 health and pandemic influenza and the National
6 Child Traumatic Stress Network which is funded
7 by SAMHSA has targeted materials designed for
8 parents and caregivers, educators, mental
9 health professionals, etcetera. So there have
10 been a number of activities. I could give you
11 more, but I think those are some highlights.

12 I also should say as an aside that
13 while we've continued to work on the H1N1
14 scenario, my team has also been completing,
15 compiling all the information that was
16 gathered from across the federal family
17 related to the NBSB's recommendations on
18 disaster mental health. So we are continuing
19 to work on those, apart from H1N1.

20 Just to let you know, too, besides
21 the mental health and behavioral health piece
22 of it, we've been also attending to the needs

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1 of at-risk individuals which I think are
2 highly related. I want to thank the Board
3 again for working with us on our June 17th
4 planning meeting that we held with national
5 experts related to pediatric issues in
6 emergency response for H1N1.

7 We are continuing to plan the
8 larger meeting that will follow from that.
9 We've been doing conference calls and outreach
10 strategies related to migrant workers and
11 immigrant populations and we also actually
12 today, this very day I'm hosting another
13 meeting, so I'm breaking away from it to be
14 with you all on the needs of at-risk
15 populations in H1N1 and other scenarios and
16 we've actually got a roomful of people a
17 couple floors above me right now, stakeholders
18 from across the at-risk population sectors
19 talking with us about special needs and at-
20 risk populations in this kind of scenario and
21 things we need to know for them.

22 So I've told you a little bit.

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1 There's a lot more, but I want you to have a
2 sense of the diversity of activities that
3 we're undertaking. With that, I'm going to
4 turn it over to Dr. Brian Flynn, also a member
5 of our Disaster Mental Health Subcommittee and
6 also with USPHS, to talk a little bit about
7 risk communication issues that have been
8 raised by several of the Board Members.

9 DR. FLYNN: Thank you, Dan. In the
10 interest of our late agenda, I'll be very
11 brief. I thought it might be helpful to make
12 a couple of comments about why the Mental
13 Health Subcommittee has an interest in
14 communication and particularly risk
15 communication here.

16 We really did take in our work and
17 continue to take a very broad view of what
18 constitutes disaster mental health and
19 behavioral health. We're interested not just
20 in what folks usually think about as almost a
21 default setting of disaster mental health as
22 the emotional issues, but we really feel that

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1 there's an interconnected relationship among
2 the psychological, emotional, cognitive,
3 developmental and social influences that
4 really help determine how people behave in all
5 phases of disasters and emergencies including
6 preparedness response and recovery and that
7 these really do help chart whether
8 interventions are effective or they're not.

9 The Committee, in its
10 recommendations, just as a reminder, came up
11 and we've divided our work into three major
12 categories: intervention, education and
13 training, and then communications and
14 messaging. So we clearly felt that
15 communications and messaging not only is an
16 important part, but important enough to have
17 its own section and have two recommendations.

18 The Committee really believes and
19 stated in our report that we feel that
20 communications is an essential part of mental
21 and behavioral health interventions and that
22 these kinds of communications are central

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1 interventions in protecting all aspects of
2 public -- of the public's health, including
3 behavioral health.

4 Just as a quick reminder about what
5 those two recommendations that came to the
6 Board and were endorsed by the Board include,
7 one was the development of a disaster mental
8 health and behavioral health strategy that
9 really talked about development of mass
10 communication messages to deliver psycho-
11 education and develop education and training
12 programs regarding the integration of
13 behavioral health and mental health and social
14 principles and risk communication.

15 The second one talked about
16 development of an internet-based tool kit.

17 I guess the last category of things
18 I might mention is kind of where do these
19 recommendations stand and what are some of our
20 special concerns and what might be some
21 potential priorities.

22 As the Board knows, you did

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1 recommend and endorse these recommendations.
2 Those were received and acknowledged by the
3 Secretary in December, and now as Dan
4 mentioned, a review and survey has been done
5 of a lot of different agencies to see how
6 those recommendations are and might be
7 implemented.

8 It's the Committee's view or the
9 Subcommittee's view that virtually all of our
10 communication and messaging recommendations
11 have some direct applicability to H1N1 issues.

12 It's been very heartening to hear what's been
13 going on. Certainly the report by Dr. Butler
14 of some of the CDC activities and Dan's report
15 are very reinforcing in this.

16 The Board may be familiar with the
17 relatively recent Homeland Security
18 publication on nuclear incident communication
19 planning final report. While not germane to
20 this topic, I think it does really speak to a
21 very, very sound methodology of integrated and
22 comprehensive communication strategy. So

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1 there's a lot going on. I think we need to
2 continue to make sure that whatever goes on
3 within and among federal agencies and state
4 agencies really assures that we have the
5 state-of-the-art content, horizontal and
6 vertical integration of the efforts and
7 message content and strategies.

8 I think we also need to make sure
9 that we continue to make sure that some of the
10 general principles that were in our
11 Subcommittee's report get reflected in our on-
12 going activities, things like on-going,
13 meaningful involvement of all stakeholders
14 including vulnerable populations and the use
15 of latest technology and communication
16 methodologies.

17 With respect to some special
18 concerns and priorities that we would like the
19 Board to be interested in and we would welcome
20 an opportunity to continue to contribute are
21 things like what are some of the special
22 communications challenges in the face of

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1 uncertain and rapidly changing events. What's
2 the impact of language? One of those things
3 that we've discussed a lot is how important
4 language is and what we call things, how we
5 label things, has significant impact in how
6 people understand them, the extent to which
7 they accept our guidance and adhere to our
8 suggestions.

9 In addition, the role of leadership
10 and communications is important. As mentioned
11 earlier, we believe that it's extremely
12 important to have integration of messaging
13 policy and planning with key stakeholders
14 outside the health system, including the
15 health system, things like schools and work
16 places in addition to health care providers
17 and public health authorities. And then as
18 has been mentioned by Betty and some others,
19 we need to make sure that we continue to
20 address the specific communications issues for
21 vulnerable and special needs populations.

22 DR. PFEFFERBAUM: Dan, this is

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1 Betty Pfefferbaum again. I'd like to just
2 note that the Mental Health Subcommittee has
3 wide-ranging expertise and is willing and
4 ready to help address these mental health
5 issues associated with this potential disaster
6 and of course with other disasters as well
7 including issues related to the vulnerable
8 populations like children and pregnant women
9 and those with disabilities and underlying
10 medical conditions.

11 To make the most effective use of
12 our expertise, I would suggest that the Board
13 direct us to focus on actions to protect at-
14 risk people and vulnerable populations and
15 actions to address the psychological impact of
16 a more severe pandemic in schools and
17 workplace settings where extensive morbidity
18 and multiple deaths may occur. Thanks.

19 CHAIR QUINLISK: Okay, thank you
20 very much. I appreciate you coming to our
21 meeting today and giving us that information
22 and suggestions. I think it's very

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1 worthwhile. One of the things I've felt in my
2 years in public health is communication often
3 is the most important thing we do and to
4 address people's concerns is just critical.

5 I think what I'll do in the
6 interest of time and see if anybody has a
7 pressing question right now, but I wanted to
8 then go to the public comment period to make
9 sure we give them enough time.

10 Does anybody have a pressing
11 question?

12 DR. JAMES: It's not a question.
13 This is Dr. James. I just wanted to recommend
14 that we work with Dan and the Subcommittee and
15 get some specific material to the Board to
16 give further guidance to the Mental Health
17 Subcommittee.

18 CHAIR QUINLISK: That sounds really
19 good, Jim. And I think the other thing I'd
20 like to do is make sure we go to Dr. Lurie and
21 those people and see if there are specific
22 issues that they are looking for advice on.

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1 DR. JAMES: Absolutely.

2 CHAIR QUINLISK: Yes. Maybe if the
3 Board is all right, I'll work with Leigh and
4 the staff and we'll get back to the Disaster
5 Mental Subcommittee on some suggestions and
6 meanwhile people have specific issues, if you
7 could just email myself or Leigh.

8 I think what we need -- if nobody
9 has any other questions right this minute, is
10 to give the public a few minutes to see if
11 there's any questions there. If there's not,
12 we can come back to our discussion on this.

13 CAPT. SAWYER: Yes, thank you,
14 Patty. This is Leigh Sawyer. I'd like to ask
15 the operator now to give the instructions for
16 the public comment period.

17 OPERATOR: At this time, I would
18 like to remind everyone in order to ask a
19 question, please press star and then the
20 number 1 on your telephone keypad. We'll
21 pause for just a moment to compile the Q and A
22 roster.

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1 CAPT. SAWYER: Thank you. While
2 we're doing that I would like to provide the
3 public and the Board with just snapshots of
4 the information that we have received in
5 advance of the meeting as public comment.

6 On August 12th, the NBSB received
7 public comments from Jim Capuccio addressing
8 the emergency use authorization for peramivir.

9 I am going to take one part of what he said.

10 Mr. Capuccio stated, "I urged the members of
11 this Committee to have peramivir made
12 available and stockpiled to protect our
13 families. If ever there was a time for an
14 emergency use authorization, this is it. What
15 possible harm could come from having a
16 successful Phase 3 drug candidate available to
17 protect us during a pandemic?"

18 We heard from Jared, a member of
19 the public, emailed the NBSB today and asked
20 that I quote -- or I will quote, "that the
21 Board please discuss the options for
22 parenteral antivirals. We now have Phase 3

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1 data for peramivir, but would like to know
2 more about the EUA process for this agent."

3 Our third public comment was
4 received today, Moshe Sadofsky, Associate
5 Professor of Pathology at Albert Einstein
6 College of Medicine at Yeshiva University in
7 New York, emailed the Board to ask the Board
8 and I quote "address the issue of tamiflu
9 resistance arising in influenza H1N1, a
10 broader antiviral stockpile is needed in
11 addition to a vaccine program."

12 All of these public comments will
13 be made available to the public as part of the
14 meeting summary.

15 Let's see how many we have in queue
16 here. Operator, let's go ahead and start the
17 questions.

18 OPERATOR: The first question is
19 from Arlean Hardin with Central North Alabama
20 Health Services.

21 MS. HARDIN: Yes, can you hear me?

22 CAPT. SAWYER: Yes.

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1 MS. HARDIN: Okay. My question has
2 kind of been answered in that last part, what
3 she just finished on about the amount and the
4 feasibility of the -- relating to the broad
5 vaccine need.

6 CHAIR QUINLISK: Okay, I don't
7 quite understand your question. Could you re-
8 ask it?

9 MS. HARDIN: My question has
10 already been answered.

11 CHAIR QUINLISK: I am sorry, okay.

12 OPERATOR: The next question is
13 from Gabe Hoffman with Accipiter.

14 MR. HOFFMAN: Hi, thank you for
15 taking the question, in two parts if you don't
16 mind. Looking at a recent HHS report to
17 Congress, it was a few months ago. It
18 indicated that HHS has expended all the funds
19 allocated for direct federal stockpile of
20 antiviral drugs. I was just wondering if you
21 could give a sense of what the procedures or
22 processes would be to access additional funds.

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1 And the second part is when HHS
2 looks at doing EUAs for use as an agent, for
3 example, we look at the EUA for zanamivir and
4 we see that it's been approved for use at a
5 later time frame. When you're thinking about
6 IV antivirals, is it something, is it a factor
7 that plays in your decision making whether
8 we're talking about a different formulation of
9 an already approved agent such as an IV
10 zanamivir versus let's say an IV peramivir
11 which is not currently in predation.

12 CHAIR QUINLISK: Is there anybody
13 still on the phone from FDA who could maybe
14 address that?

15 CAPT. SAWYER: Patty, we can get
16 back to the questioner with a response to
17 that. This is Leigh Sawyer.

18 MS. STYRT: And I think that you
19 may also want to ask BARDA since they look at
20 the EUAs overall and Dr. Robinson may actually
21 want to take the first crack at responding to
22 that.

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1 CAPT. SAWYER: I am sorry, who was
2 that that just spoke up?

3 MS. STYRT: This is Barbara Styrt
4 from the FDA. We look at all the data that's
5 proposed for EUAs, but as Dr. Lurie mentioned
6 at the beginning of the meeting, this is very
7 much a process that involves multiple
8 different Government agencies working very
9 closely together and so Dr. Robinson from
10 BARDA might actually want to have some input
11 on that question.

12 CAPT. SAWYER: Is Dr. Robinson on
13 the line?

14 CHAIR QUINLISK: It sounds like
15 we're just going to have to get back to the
16 person. Sorry that we don't have an answer.
17 Can we have the next question?

18 OPERATOR: Your next question is
19 from Martin Shkreli with Elea Capital
20 Management.

21 MR. SHKRELI: Thanks for taking my
22 question. I guess it's going to have to be a

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1 comment since Dr. Robinson is not on the call,
2 but it's simply just having a hard time
3 understanding the rationale for stockpiling an
4 investigational intravenous agent or an
5 neuraminidase inhibitor when we have 90
6 million oral doses stockpiled. So if anyone
7 has an answer to that, I'd be curious, but
8 specifically, this is for Dr. Robinson.

9 DR. PAVIA: If you like I can
10 comment on that as an ID clinician and I've
11 been involved in some of this discussion.
12 It's Andrew Pavia.

13 There are patients with severe
14 illness who end up in ICUs for whom we have
15 difficulty administering oral drugs. That's
16 one use for parenteral drugs. Another is the
17 theoretical need for people with very severe
18 illness trying to get higher doses in and
19 then, of course, the resistance
20 considerations. I hope that helps.

21 MR. SHKRELI: Thanks very much.

22 CHAIR QUINLISK: Okay, next

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1 question.

2 OPERATOR: Your next question is
3 from Michael Murphy with New World Investor.

4 MR. MURPHY: Yes. I have basically
5 the same question and I think with Dr.
6 Robinson not on the line it's hard to get an
7 answer unless someone knows why it's taking so
8 long to get through the emergency use
9 authorization process when schools are just
10 about to open and presumably there will be
11 hospitalized children here within 15 or 20
12 days.

13 CHAIR QUINLISK: Again, I'm not
14 sure we're going to be able to answer that,
15 given that Dr. Robinson has left the line.

16 Leigh, let's just take that down
17 and see if we can get some answers on it.

18 CAPT. SAWYER: Yes, we will do
19 that.

20 CHAIR QUINLISK: Okay. Next
21 question.

22 OPERATOR: The next question is

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1 from Robert Rayl.

2 MR. RAYL: My question has been
3 answered also.

4 CHAIR QUINLISK: Okay, thank you
5 very much.

6 Next question?

7 OPERATION: Your next question is
8 from William Rodriguez with the FDA.

9 MR. RODRIGUEZ: As a pediatrician,
10 I have a question. We heard that the studies
11 have started. The question is have any
12 studies started in children, whether it's in
13 Europe, whether it's here, whether it's at
14 NIH? That's number one. Because I think that
15 the most critical thing is going to be whether
16 these kids are going to respond, particularly
17 with unadjuvanted vaccines if we're doing them
18 over here and whether we're going to -- when
19 are we going to find whether we need to get a
20 second dose, if it's adjuvanted?

21 CHAIR QUINLISK: Thank you.

22 DR. BAYLOR: This is Norman Baylor

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1 for the FDA Office of Vaccines. Are you
2 speaking of vaccines?

3 MR. RODRIGUEZ: Yes, I was talking
4 about vaccines. That's right.

5 DR. BAYLOR: Those clinical trials
6 will be starting shortly in pediatrics.

7 CHAIR QUINLISK: Do you have an
8 idea of when some information will be
9 available about the need for the second dose?

10 DR. BAYLOR: We won't have
11 information until 21 days after the first
12 dose.

13 CHAIR QUINLISK: Okay, thank you.
14 Next question.

15 OPERATOR: Your next question is
16 from Bob Koch.

17 MR. KOCH: Thank you very much for
18 all the information. It's the first time I've
19 listened in on this kind of conference. I
20 just have an observation and that is that in
21 spite of what would seem to be an obvious
22 need, I see very little neighborhood planning

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1 going on in communities and as to how
2 neighbors can help neighbors if the worst case
3 scenario should unfold. And given that the
4 Government resources are going to be severely
5 stretched and having their own impact and not
6 availability, it would depend upon
7 volunteerism, just old-fashioned helping out
8 our neighbors and I'd like to see more
9 activism on the part of the Government to
10 raise awareness and to assist in neighborhood
11 planning.

12 CHAIR QUINLISK: I think that's a
13 very good comment. And I'll just say as
14 somebody who works in a small state with a lot
15 of rural people our county health departments
16 have been working on some issues with
17 churches, other groups, AARP, things like that
18 in their communities and they're also working
19 with the schools, particularly with the
20 provision of meals to the children who are
21 nutritionally challenged if the schools close.
22 So I think some of it's being done, but I

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1 would guess a lot of it's being done more at
2 the local level than at the national level.
3 I'll see if anybody else has any comments on
4 that.

5 (No response.)

6 I do think that's important, so I
7 appreciate your comment.

8 Could we have the next question?

9 OPERATOR: The next question is
10 from Frederick Hayden with the University of
11 Virginia.

12 MR. HAYDEN: Good afternoon. Thank
13 you. I wanted to ask several antiviral
14 questions, if I may. We've heard that there
15 was a large deployment from the FNS and
16 presumably also private sector use of also
17 oseltamivir in response to the events over the
18 summer.

19 I was wondering what lessons were
20 learned because one of the common features of
21 the fatal cases to date has been late
22 presentation for care and presumably

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1 initiation of therapy, so what have we learned
2 in terms of the deployment side on the
3 antivirals and treatment of individuals. And
4 then, a second question again, back to --
5 timely susceptibility testing I think is going
6 to be extremely important to make informed
7 decisions particularly in hospitalized
8 patients going forward.

9 So what are the plans to try to
10 increase the capacity to do that in a much
11 more rapid fashion than currently is
12 available? Thank you.

13 CHAIR QUINLISK: Okay, maybe we
14 could have somebody try to answer one of those
15 questions? I know earlier we talked a little
16 bit about the timing. I believe it was Dan
17 Jernigan talking a little bit about the
18 vaccine, excuse me, the antiviral testing.

19 (No response.)

20 I believe maybe Dan Jernigan is no
21 longer on. Is there anyone could address
22 either of the other questions or comments?

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1 (No response.)

2 I think that we're going to have to
3 take those comments and get back to you.
4 Sorry about that.

5 Any other comments, any other
6 questions from the public?

7 OPERATOR: Our next question is
8 from Deborah Robinson with Robinson
9 Consulting.

10 MS. ROBINSON: Will this meeting
11 and the other teleconferences be archived so
12 that the public can access them at a later
13 time? I think it's really great that so many
14 of the advisory committee meetings either have
15 been web cast, those that are in person, or
16 you could dial in as a member of the public
17 and I just wanted to know if they're archived
18 somewhere and where can you find them?

19 CAPT. SAWYER: Thank you for your
20 interest. This is Leigh Sawyer. We do have a
21 website. I can give you the long address or
22 the shortest way to find it. The shortest way

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1 is to Google NBSB and follow your lead there.

2 I will also give you the website.
3 It's www.hhs.gov/aspr/omsph/nbsb. Also, the
4 Department has a website, flu.gov, and they
5 have -- the advisory committees are linked to
6 that website so that it can take you to the
7 various department, federal advisory
8 committees providing guidance on H1N1 issues
9 and other issues having to do with flu.

10 CHAIR QUINLISK: I think on that
11 note, Leigh, we will need to wrap up because
12 it is 2 o'clock. Is there anything else,
13 Leigh, you need to say at this point?

14 CAPT. SAWYER: Patty, do you want
15 to have a quick wrap up?

16 CHAIR QUINLISK: Yes, I think that
17 today on the callers, obviously with several
18 suggestions, particularly with the National
19 Disaster Mental Health Subcommittee, so I
20 would like to solicit comments or suggestions
21 for that and Leigh and I will get back to Dr.
22 Lurie and see if there's things that we can do

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1 given the desire of that Subcommittee to help
2 with some specific advice for going forward
3 with H1N1 and groups like the children and
4 other subgroups in our population.

5 We have obviously some questions
6 that we'll need to get back on. Let me just
7 see if there's any other comments from the
8 Board members or any other actions that we
9 need to take going forward?

10 (No response.)

11 Did you hear of anything else,
12 Leigh, that you felt we needed to address
13 before our next meeting in person?

14 CAPT. SAWYER: No. I wanted to
15 just again thank the Board members and the
16 Disaster Mental Health Subcommittee, as well
17 as our guest speakers and those members of the
18 public audience who participated today in the
19 proceedings.

20 It's very encouraging to see
21 interest in this area and we're all very
22 anxious to work with the public and the

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1 government to make a real impact on the
2 pandemic or the H1N1 as we see it in the fall
3 and through this next year.

4 I'd like to remind everyone, we
5 have the next scheduled public meeting, that
6 will be held as a full-day meeting on
7 September 25th in the D.C. area and once again
8 you can check our website for the location of
9 that meeting and for the agenda and other
10 documents that will be available in advance.
11 So thank you very much, Patty. Those are my
12 remarks.

13 CHAIR QUINLISK: Okay, well, thank
14 you very much. I think you brought up some
15 good points and I thank from my standpoint for
16 all the people who participated, members of
17 the Board, as well as the speakers and the
18 public. Thank you again. I thank staff for
19 putting together the agenda and arranging all
20 the speakers. I'll just say that this meeting
21 is now closed and I look forward to seeing
22 everybody in about a month. Thank you.

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1 OPERATOR: That concludes the
2 conference, you may disconnect. (End- 2:03 PM)

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