

PRESIDENTIAL ADVISORY COUNCIL ON HIV/AIDS

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THIRTIETH MEETING

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MONDAY,
JUNE 19, 2006

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The above-entitled matter convened at 9:00 a.m. in Room 800 of the Hubert Humphrey Building, 200 Independence Avenue, S.W., Washington, D.C., Louis Sullivan, M.D., Co-Chair, presiding.

COUNCIL MEMBERS PRESENT:

LOUIS SULLIVAN, M.D., Co-Chair
TROY BENAVIDEZ, Member
ROBERT BOLLINGER, M.D., M.P.H., Member
JACQUELINE S. CLEMENTS, B.S., Member
EDWARD GREEN, Ph.D., Member
ALAN HOLMER, B.A., J.D., Member
JANE HU, Ph.D., Member
FRANKLYN JUDSON, M.D., M.P.H., Member
HERBERT H. LUSK, M.Div., Member
SANDRA McDONALD, Member
JOE McILHANEY, M.D., Member
ROBERT REDFIELD, M.D., Member
DAVID REZNIK, D.D.S., Member
M. MONICA SWEENEY, M.D., M.P.H., Member
RAM YOGEV, M.D., Member

PACHA Staff Present:

JOSEPH GROGAN, Esq., Executive Director
DANA CEASAR, Program Assistant

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PRESENTERS:

MARK DYBUL, Acting U.S. Global AIDS Coordinator,
Office of the U.S. Global AIDS

MIGUEL GOMEZ, Director, The Leadership Campaign on
AIDS, Office of HIV/AIDS Policy

ANDREW KAPLAN, M.D., Professor of Medicine and
Microbiology & Immunology UNC School of Medicine

PETER A. LEONE, M.D., Medical Director, HIV/STD
Prevention & Care Branch, Associate Professor of
Infectious Diseases, UNC-Chapel Hill School of
Medicine

JOHN C. MARTIN, Gilead Sciences

MARTY MCGEEIN, Deputy Assistant Secretary for
Disability, Aging and Long Term Care Policy,
Office of the Assistant Secretary of Planning
and Evaluation

JAMES D. SHELTON, M.D., Acting Deputy Director, Office
of Population, United States Agency for
International Development (USAID)

DAVID ALAIN WOHL, M.D., Clinical Associate Professor
of Medicine, AIDS Clinical Research and
Treatment Unit, UNC-Chapel Hill

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P-R-O-C-E-E-D-I-N-G-S

(2:09 p.m.)

DR. SULLIVAN: Good morning, everyone.
Welcome to the 30th meeting of the Presidential
Advisory Council on HIV/AIDS.

And let me thank all of you for coming.
As noted on the covers of your books, this is the 25th
year that we have been aware of HIV and AIDS, and over
that 25 years a lot of things have happened.

Among them, when I came to Washington in
1989, we as a nation were almost having an AIDS panic.

There were demonstrations on the campus of NIH by
advocates saying that we were not spending sufficient
dollars or giving enough attention to this. There
were discussions on the Congress.

And that year in October of 1989 I was
pleased to approved reimbursement of AZT as a
treatment, the first treatment shown to be effective
against this virus.

Which you contrast that to today where we
have more than two dozen medications. We also have
another contrast: people with the diagnosis of HIV

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1 often look forward to perhaps 12 to 18 months
2 survival; now today they're looking at 12 to 18 years
3 with their families raising children, earning wages.

4 So we've made a lot of progress. One of
5 the predictions at that time was that within four
6 years we would have a vaccine against this virus. Of
7 course that is something that has proved to be very
8 elusive.

9 We've made a lot of progress in our
10 understanding and treatment of this disease, but
11 what's clear to all of us is, we don't yet have a
12 cure. This continues to be a major epidemic around
13 the world.

14 In the United States where we have been
15 more fortunate in our efforts, we still see an
16 increase in the number of people who are carrying the
17 virus. A few years ago it was 800,000. Now the data
18 are a million to 1.1 million.

19 So all of us are challenged to support our
20 scientists our legislative leaders, and others, as we
21 work to try to find better ways to control this virus.

22 I think today's meeting and tomorrow's

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1 gives us an opportunity to not only review where we've
2 been but also see some of the challenges that still
3 confront us, and where we need to go, areas not only
4 in terms of research, but funding, policies, et
5 cetera.

6 So I'm looking forward to the discussions
7 today and tomorrow, and again, thank all of you for
8 your contribution to these efforts.

9 With that I will turn to our executive
10 director Joe Grogan for his comments.

11 MR. GROGAN: Thank you, Dr. Sullivan.

12 Just a few quick points. I guess first
13 and foremost this is a sad day for me, personally, and
14 for PACHA, because we're losing some members who I've
15 grown very close to, I know we all have, including Dr.
16 Sullivan and Anita Smith as co-chairs. Tomorrow will
17 be their last day serving as co-chairs.

18 I got a nice note from Anita. She's
19 actually in Africa, and she couldn't make it back.
20 She had meetings all last week, and meetings starting
21 tomorrow or the day after, I think, so it would have
22 been a little bit crushing for her to make it all the

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1 way back and turn right around.

2 But she wanted to express her regrets in
3 not making it today, and also, the gratitude she's
4 felt from all of you in serving on PACHA for over four
5 years.

6 Secretary Leavitt, also, he wanted to be
7 here today, and he called Dr. Sullivan. He had
8 something on the schedule for about nine months that
9 he couldn't get out of, but he did want to express his
10 gratitude to Dr. Sullivan and to Anita, and to all of
11 you here, and especially those who will be leaving.

12 And I know Monica who chaired the
13 prevention subcommittee will be leaving as well.

14 So I want to thank you now. We'll have a
15 little bit more tomorrow, but I wanted to just thank
16 you now before we get started.

17 And then I guess our first speaker is
18 going to be Miguel Gomez to talk about testing day.

19 DR. SULLIVAN: I might say, if Dr. Sweeney
20 is our prevention chair, as a comment, as we lead into
21 the discussion.

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1 DR. SWEENEY: Thank you.

2 I'm very happy to have Miguel Gomez here
3 again, because he does come and speak to us often, and
4 leading up to next Tuesday I think it's really very
5 appropriate that he's here, and we're happy that
6 you're here to address us again about HIV testing.

7 Thank you.

8 HIV TESTING DAY

9 MR. GOMEZ: Good morning. Thank you.

10 And Joe, as you are saying all these
11 goodbyes, I know these individuals are going to
12 continue to be warriors in the fight against HIV/AIDS.

13 So what's important is that many times I
14 actually, because of my role and responsibility for
15 coordinating on behalf of the department, HIV
16 observance day, I just want to give a quite update on
17 what's happening with observance days as a whole; talk
18 about national HIV testing days; and really just pose
19 a question for PACHA itself.

20 And actually the only reason I'm using a
21 PowerPoint presentation today is to show you, look,
22 there are now eight HIV observance days now, our

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1 newest is Native American HIV/AIDS Awareness Day,
2 which is actually going to commence next year on March
3 21st.

4 In March we had National Women and Girls
5 AIDS Awareness Day which went out of the gate with
6 gangbusters with over, in its first year, 160 events
7 across the United States.

8 What's important to know again is, why are
9 we so invested in these awareness days? Sometimes
10 this is a statement of the obvious, but it's important
11 to reinforce that it's important for the department
12 and I know for national groups and local groups to use
13 their resources and use the day to really get our
14 messages out by supporting observance days, or raising
15 that awareness.

16 But one thing that is also just core and
17 important to the department it really does allow us to
18 promote our policies, resources and programs.

19 And look at all those observance days, and
20 I keep getting calls for more. Those working with our
21 elderly want an awareness day. Those just on June 8th
22 in the Caribbean there was Caribbean AIDS Awareness

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1 Day which was not recognized nationally but was first
2 time held in the Carribean so we are looking and
3 meeting with those groups to see what is happening
4 with that event, and will continue into the future.

5 One of the things that has been so
6 important to us in the department is, we will continue
7 to provide technical assistance, but one thing we have
8 found is that building new partnerships with our faith
9 communities, and community-based organizations who
10 haven't been involved in HIV messaging but are willing
11 to do events around observance days.

12 And we will continue to work with the lead
13 organization around national HIV testing day, which is
14 the national association of people with AIDS.

15 And this year we did something different
16 which is, we linked June 5th, the 25th observance, and
17 national HIV testing day, to try to do a one-two
18 punch.

19 And one thing here in the department which
20 some of you have heard that we do before, which is
21 really important to repeat, is, we try and role model
22 that we should make HIV testing routine.

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1 So if you saw when you were coming up in
2 the elevators today there were signs, we offer HIV
3 testing for our employees around observance days.

4 It's real important to destigmatify, and
5 also make it seem in our health unit just like we
6 offer flu shots, we offer an HIV test.

7 What's real important is that we also have
8 web page for our HHS employees and the public which is
9 actually housed at the office of minority health.

10 And this web page which is on the screen
11 is the home page, which if you click on one of the
12 icons, you can learn about events that are happening
13 on those observance days throughout the country.

14 What's interesting, which is the most
15 popular piece, is, this is the one for national HIV
16 testing day. It's a little bit hard to see, perhaps,
17 but you see that there is a poster. What we place on
18 the web page that's real important is a poster that
19 any community group can manipulate and use so that
20 they have something that is colorful but can list
21 their local event. They can turn that into
22 letterhead, or they can print it out as posters, and

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1 list their local organization.

2 What's interesting on this web page, the
3 most downloaded product throughout the entire country
4 is a basic one-page fact sheet still on the basic
5 facts on HIV/AIDS. The poster is the second most
6 downloaded thing from our web page. And the third
7 most visited is the listing of all the community
8 events around the country.

9 Again, national HIV testing day is what's
10 in front of us. Again, it is that opportunity as we
11 already know for folks to learn their status. But
12 it's also important for us, we have to take a step
13 back in our local communities to respond to the
14 terrible myths that still respond in our communities.

15 I'm sure most of you saw the Kaiser study that came
16 out about a month and a half ago showing that perhaps
17 up to 37 percent of Americans think that you can get
18 HIV from kissing; 16 to 20 percent think that you
19 might be able to get it from a toilet seat still
20 today. So we really need to remember that these
21 observance days not only for testing day to get
22 information that we want people to know their status,

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1 but we still need to get some of the basic facts out
2 on HIV/AIDS.

3 The lead organization, many of you already
4 may know, is the National Association of People with
5 AIDS, and they have a contract with the Centers for
6 Disease Control.

7 What's real important about working with
8 the National Association of People with AIDS is the
9 fact that their messaging often will focus on having
10 it come from a person living with HIV/AIDS. And all
11 the focus groups, there's been about 27 in the last
12 two years around the country, has taught us again, our
13 testing messages, real important to come from people
14 living with HIV/AIDS.

15 And throughout the local community, the
16 National Association of People with AIDS, it is highly
17 trusted, and they also have a new executive director
18 with the organization, just as a sidebar.

19 One of the things that is a step back, and
20 one of the things, what we are doing with all grants,
21 or many grants that we provide any agency when it
22 comes to observance days is to really look to make

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1 sure that we've having evaluation components. And we
2 can say for last year's national HIV testing day that
3 not only did we have 165 events throughout the country
4 but that we actually saw an increase of folks going to
5 HIV test dot org. And I'm sure all of you know what
6 hivtest.org is. It's actually a federal web page, but
7 folks, what they do is, they simply go to this web
8 page, put their zip code in, and they can be linked
9 immediately to a place to get an HIV test in the
10 community in which they live.

11 It's very easy to use, and it also
12 contains a list of all community events for National
13 HIV Testing Day.

14 What we found, which is very interesting,
15 is when folks wanted to learn about where to get a
16 test, they did not want it to be hivtest.gov.

17 For this year's national HIV testing day
18 there are some leading entertainers who are going to
19 be involved. You may not necessarily in this room
20 know who they are, but a group of younger folks will
21 know, especially some of the stars, the first
22 gentleman, he's a rapper and has his own show. Judy

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1 is an absolutely outrageous comedian. Christina folks
2 know, talk show host in the Latino community. Dennis
3 folks know from the show 24. Selma Hayek is a big
4 star within the Latino community.

5 But again this just shows you that in
6 partnership that we're making sure that we're getting
7 out the press kits, radio and TV interviews are being
8 set up both with local, state and national folks;
9 community papers are happening. And what's really
10 interesting to us is that we this year decided to
11 actually send out less of the kits to help communities
12 do work because we weren't sure if they were actually
13 being used, and there's been almost 4,000 of those
14 kits already requested this year, and double the
15 number of phone calls to the national association of
16 people with AIDS to get information on national HIV
17 testing day.

18 And already that we know of there are
19 about 135 planned local events.

20 I already sort of told you quickly about
21 hivtest.org, which is very important, both the White
22 House and HHS promotes individuals going to this

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1 website so they can get information on their HIV
2 testing.

3 It's also important to know that we link
4 with other national organizations to link to their
5 databases to make sure this is accurate and up to
6 date.

7 One thing before going to closing what I'd
8 like to really share is that national HIV testing day
9 is the second most visible day. It gets, in the 33
10 largest media markets, it's the second largest number
11 of hits after World AIDS Day.

12 And however in the last two years we've
13 seen a 40 percent decrease in the number of news
14 coverage for national HIV testing day, and that's a
15 concern of ours. And so we're of course pushing for
16 more activity.

17 But one of the things that we found sort
18 of startling is that the First Lady actually spoke on
19 testing issues on June 2nd, which we thought would be
20 very powerful. It got almost no news coverage.

21 She also called for something called
22 International HIV Testing Day, and we don't know when

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1 that day is going to occur; it hasn't been determined
2 yet. But when you have powerful tools like the First
3 Lady speaking out, supporting national HIV testing
4 day, supporting testing, we really as a community and
5 as PACHA ask you, how do we step back and look at how
6 do we promote these awareness days, because they do
7 work on the local level; they do work within specific
8 community; but there is a lot of work we need to do.

9 And I've really actually even posed that
10 to the organizations that are sitting behind you.
11 Because again we've pumped a lot of money into
12 observance days. But at the same time what are we
13 doing at the national level? One of the things I
14 liked Joe Grogan on World AIDS Day and other
15 observance days, we'll send you an email asking you to
16 send it out to your colleagues asking them to
17 acknowledge the observance day.

18 But is there something that we should be
19 doing in advance? Is there something our offices
20 should be helping you do? Because again, we see the
21 lower press coverage, more local events, but the
22 overall goals of getting more people to know their

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1 status, we still are challenged to make our efforts
2 more effective.

3 I want to thank you again, and if you have
4 any questions, I'll take them.

5 DR. SWEENEY: Are there any questions?

6 We have the opportunity now to get all our
7 answers to national observance days.

8 DR. SULLIVAN: May I? Thank you very much
9 for that presentation.

10 I really have two questions. One is, what
11 is the process by which an organization gets
12 designated for an AIDS day?

13 And because you mentioned that there'll be
14 the Native American day, and so suggested that there
15 is some process that really occurs.

16 And my second question is also with the
17 comment that there are eight AIDS awareness days
18 throughout the year.

19 And I guess my question here is whether or
20 not having that number may really be confusing, and
21 whether that may be a factor contributing to the
22 disappointing press coverage if we have frequent days.

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1 So I guess my question pertaining to that
2 is, have you thought of the idea of -

3 MR. GOMEZ: Less is more?

4 DR. SULLIVAN: So I'm sure that you've had
5 some discussions, but I wonder what the rationale is
6 for having all these days spread out as opposed to
7 having fewer perhaps with a larger effort.

8 MR. GOMEZ: Sure.

9 Your first question about how a day gets
10 designated, it's a mixed bag, sir. For example
11 Caribbean AIDS Awareness Day, there was a
12 congressional resolution from a member from California
13 who named June 8th Caribbean AIDS Awareness Day.

14 Usually what happens is, community
15 organizations in partnership with national
16 organizations, come together at some meeting and
17 declare that they would like X day to be an observance
18 day for the community they reach and serve.

19 Here at HHS our standard operating
20 procedure is we recognize that call to action, we wait
21 one year to see if actually the events do get pulled
22 off; and if there is a network of nationally

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1 recognized and local organizations who will plan
2 events, HHS to date will recognize that awareness day.

3 Again, we do have to step back, and I
4 actually love your feedback, are there too many?
5 Given my history what I have found is that at the
6 local level the community organizations are not
7 challenged by this, and the best example is, because I
8 was very concerned when we added yet another one in
9 March called National Women and Girls HIV/AIDS
10 Awareness Day, but was astounded in the first year,
11 again, there were over 160 events immediately around
12 the community.

13 It increased testing from our evaluation
14 within those communities; it brought new people to the
15 table, so we were very optimistic.

16 But it's a question I can't answer, do we
17 have too many at this time?

18 DR. SWEENEY: Yes, David.

19 DR. REZNIK: Hi Miguel, thank you for your
20 presentation.

21 My question is, when it comes to HIV
22 testing day, is there buy in in activity from the

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1 medical associations, the American AMA, the Hispanic
2 medical association and the national medical
3 associations? Because the CDC guidelines are calling
4 for routine testing, and it would be interesting to
5 see if the medical associations are sending out fact
6 sheets via email communication, or are they involved
7 in these events, et cetera.

8 MR. GOMEZ: Sure. The Hispanic Medical
9 Association and the National Medical Association have
10 been requested and have committed to actually placing
11 information on their web pages and doing newsletter
12 articles. The other medical association to my
13 knowledge have been approached, but I can't document
14 if there has been any action.

15 DR. SWEENEY: Dr. Redfield. Oh, I'm sorry,
16 yes.

17 DR. BOLLINGER: Thank you, that was a great
18 presentation.

19 I have a quick question. Reflected in my
20 question might be a suggestion about marketing this
21 issue a bit.

22 What percentage of the HHS employees have

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1 been tested and are aware of their HIV status? And
2 how much has this national testing day contributed to
3 that awareness within your own organization? Could
4 you use that as a marketing tool?

5 MR. GOMEZ: We do, actually. One thing
6 that is really important for the last several years,
7 both on World AIDS Day and national HIV testing day,
8 we have about 67,000 employees. What we do is, we
9 send most every observance day, those observance days,
10 an email to our 67,000 employees letting them know
11 that it is X observance day and that we encourage them
12 to know their status, and we also highlight the fact
13 that at least in the DC area we offer our employees
14 HIV testing and then we direct them - we encourage
15 them to learn more about HIV testing, and to go to
16 hivtest.org.

17 And that model has helped us work with
18 four different faith denominations and about five
19 corporate entities. What we do is, we challenge them
20 to do the same things for their employees.

21 And so we're very excited that actually
22 this World AIDS Day all the Catholic parishes in the

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1 United States will actually get a message to the
2 individual parish encouraging them to have an HIV
3 testing message very much like we do here at HHS. And
4 there's about five national organizations that will be
5 sending out emails to their employees and networks
6 saying, we're basically challenging them, we can do it
7 here at HHS, you can do it for your entity.

8 DR. BOLLINGER: But how effective is it?
9 You talked about how important evaluations are?

10 MR. GOMEZ: Oh, I'm sorry. Actually, what
11 we have found with our evaluations of the individuals
12 who do get tested that we - actually, I can't quite -
13 I remember I was pleased with the results. I can't
14 remember the exact data. People were pleased it was
15 offered at the workplace, and I don't want to guess
16 what the other information is; to be honest I just
17 don't quite remember.

18 What was real important to us because we
19 also do it in partnership with our local health
20 department here in D.C. is that their testers felt
21 satisfied that they were willing to keep coming back,
22 and with their limited resources I found that

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1 pleasing, but I can't answer your question at this
2 time.

3 DR. REDFIELD: Thank you, Miguel.

4 I wanted to follow up too on this sort of
5 evaluation, because obviously the purpose of these
6 days, and I think Dr. Sullivan's point of view
7 probably deserves some reflection, you can dilute this
8 out, but the purpose is that ultimately we become much
9 more routine, not that day, but 365 days a year, in
10 trying to get early diagnosis of HIV to be the
11 prototype so that at least ignorant transmission of
12 HIV can be confronted.

13 And my own view is, our nation hasn't
14 optimized that historically, and we're 25 years into
15 the epidemic, and we're still trying to see if we can
16 actively totally engage the health community.

17 But what I would suggest is that people
18 look at ways to be really very aggressive in getting
19 evidence-based data to evaluate whether our policies
20 are doing that.

21 For example one simple way which again in
22 Bob's and my state, which is a little discouraging in

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1 Maryland, if you look at the mean CDC four-cell count
2 at the time of initial diagnosis, it's under 300. And
3 that suggests to me that whatever we're doing isn't
4 kind of getting there.

5 So it would be interesting to know across
6 states what is the mean CD-4 cell count at the time of
7 initial diagnosis, and then the following year is it
8 getting better? Are we actually proactively engaging?

9 There may be ways from a policy point of
10 view to - I'm not a punitive kind of person. I'm more
11 the incentive kind of person. So incentivize states
12 to bring that up, that those states that show that
13 they are doing well, maybe they get greater support.

14 There is a tendency to support those
15 individuals who do worse. I think that doesn't
16 necessarily create the right environment.

17 So it'd be very useful for someone to
18 really get a handle on it. If the issue is early
19 diagnosis, one of the ways is mean CD-4 cell count at
20 the time of diagnosis.

21 There's another way that would be
22 interesting to me to get a handle on, how many of us

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1 know that I wasn't infected two years ago but I'm
2 infected now, in other words, as opposed to what we
3 see too frequently in our clinics, we found out
4 someone is infected and we ask, well, when is the last
5 time you've been evaluated, and they say, well, I
6 never had an HIV test before.

7 So people who are at risk for HIV
8 infection, if they are proactively engaged, if the
9 medical community is engaged, they should be able to
10 say, well, I know I wasn't infected two years ago,
11 because I was HIV negative two years ago.

12 So I think there has to be a much more
13 objective criteria for this evaluation of the
14 effectiveness of our policies in gaining early
15 diagnosis as a standard.

16 MR. GOMEZ: I agree with you.

17 I mean it's great to know that last year
18 we saw a bump of 35 percent in the number of people
19 being tested, and X number of communities; but more
20 data would be helpful.

21 DR. SWEENEY: I've just been told that
22 we're just about out of time. But I'm just going to

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1 ask about the poster.

2 People over 50 are increased incidence in
3 people over 50, and of course with the health
4 disparity, African-Americans. And yet on the poster
5 as I can see it here, there isn't anyone that is
6 representative of an older person.

7 And it's disproportionate in the number of
8 - I'm looking on the observance day website - in the
9 number of people who are representative of where the
10 epidemic is now, which is primarily over 50 percent
11 black.

12 I just wanted you to comment on that.

13 MR. GOMEZ: Sure. Actually I believe we do
14 have a mature individual who is in the bottom corner.

15 I can actually show you a copy.

16 And I do take note about needing to make
17 sure that we are representative of the
18 disproportionate impact on the African-American
19 community.

20 DR. SWEENEY: Thank you.

21 DR. SULLIVAN: Madame Chair, let me ask one
22 final question if I might.

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1 On the poster describing HHS efforts, you
2 say you provide free anonymous testing to federal
3 government employees.

4 I guess that raises a question: Does that
5 mean that someone who is not a federal employee who
6 comes to one of these observances may -

7 MR. GOMEZ: No, that was just for our
8 building here, sir; that was an example.

9 DR. SULLIVAN: I see.

10 MR. GOMEZ: And again in closing I want to
11 thank you, but also actually to step back, because one
12 of the things that we have found that has been - still
13 we're very excited about what's happening locally, and
14 I want to reinforce that.

15 But also what we haven't seen as much of
16 our national players, like bodies like PACHA, actually
17 speaking out at events or participating, and we really
18 want to encourage that, and we're real excited that
19 about 15 mayors around the country will be involved in
20 HIV testing day events, and the next time I see you I
21 think we'll be talking about perhaps World AIDS Day,
22 and I wanted you all to know that departments in the

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1 United States World AIDS Day event will take place in
2 Memphis this December 1st bringing faith, civil and
3 public health leaders together.

4 Thank you very much.

5 (Applause)

6 DR. SULLIVAN: Thank you, Miguel, for that
7 update.

8 We'll now move to our Treatment and Care
9 Committee under the leadership of Dr. Reznik.

10 So David.

11 TREATMENT AND CARE

12 DR. REZNIK: Thank you, Dr. Sullivan.

13 We're going to have quite a challenging
14 year in treatment and care because of the new
15 prevention initiatives, the testing days that you've
16 heard about, getting people identified earlier into
17 care.

18 We're going to have to look at how we
19 provide that care. And one of the key aspects of that
20 is Ryan White which we're still waiting for
21 reauthorization on.

22 There will be other issues that we'll face

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1 as well. But to start off our presentation today, I
2 have to read this lady's title: deputy assistant
3 secretary for disability, aging, and long-term care
4 policy in the office of the assistant secretary of
5 planning and evaluation.

6 So in this job Ms. McGeein, who is a
7 nurse, has responsibilities related to active aging,
8 innovative ways to finance long-term care, improving
9 the quality of life for disabled persons, HIV/AIDS,
10 medical malpractice, regulatory reform initiatives,
11 and patient safety.

12 And when you look at all those different
13 things that Ms. McGeein has had to deal with, there
14 has been an extraordinary amount of time spent on
15 getting the Ryan-White Care Act reauthorized.

16 I believe that our voices were heard over
17 the last two years, as we've discussed this with
18 Marty. And I'm very grateful for what is basically a
19 thankless job. Because people don't realize the
20 amount of time and effort and meetings with community
21 and legislative folks that go into something as
22 complicated as the care act is. I don't know if

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1 people realize how complicated this piece of
2 legislation is, and how small changes can have large
3 impacts.

4 So it's with a great deal of thanks and
5 respect that I introduce Ms. Marty McGeein.

6 (Applause)

7 RYAN-WHITE REAUTHORIZATION

8 MS. MCGEEIN: Thank you, David. As
9 always, I am delighted to be here. And I think I'm a
10 decent multitasker. It's how things get done. But
11 this doesn't explain why I haven't returned any of
12 your phone calls in the last few months.

13 I see lots of new faces at the table.
14 Some of you have no idea who I am. Others know that
15 I come here routinely and tell you either good or bad
16 news.

17 The news today is mixed. We're going to
18 talk about the reauthorization, and it is a work in
19 process.

20 I'm going to divide my presentation into
21 three pieces: principles, process and product. And
22 of the three, although the product is what most

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1 interests you, the process is the one that we really
2 should be focusing on today.

3 As you know the president is intensely
4 interested in this issue, and he laid down some
5 principles that the Ryan-White reauthorization was to
6 follow: life-saving care to those most in need;
7 establish a core set of medical services; establish a
8 severity of need index; do away with some of this
9 jockeying around the formulas; routine voluntary
10 testing in public facilities; redistribute the
11 unobligated balance; and unless you are a cost
12 accountant, the unobligated balances things goes
13 right over your head. Let me just explain the bottom
14 line, money the grantees do not use that we the
15 department are unable to recoup and put into better
16 or more product uses goes back to the Treasury.

17 Out top, bottom, side was, no intent to
18 destabilize the system. Absolutely the guiding
19 principle: do not destabilize the system.

20 The process that we're involved with,
21 Secretary Leavitt announced the administration
22 principles last summer. And I think some part of

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1 PACHA was there.

2 As soon as the announcement we started a
3 series of educational briefings for Hill staff.
4 These briefings included HRSA, they included CDC,
5 they included ASPE, my shop; they included ASL which
6 is our legislative shop. They included anyone who
7 needed to bring in to instruct a very large group of
8 legislative assistants who were going to be active in
9 this issue.

10 That series of briefings went on for six
11 months. The congressional leadership of the two
12 authorizing committees, Senate Health and House
13 Energy and Commerce, committed to a bipartisan and
14 bicameral approach to writing this legislation.

15 The goal was to have one bill that
16 everyone had agreed to prior to the bill going to any
17 of the committees for markup or vote, so that we have
18 one bill, that once it was settled, it could be
19 passed and signed into law.

20 This group became known as the Four
21 Corners Plus One. The Four Corners were the
22 Republican-Democrat Senate-House leadership; the

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1 Energy and Commerce Democratic and Republican
2 leadership and HHS.

3 So it was Four Corners Plus One which
4 some of the people in the back seats have heard
5 about, oh the Four Corners are meeting.

6 This bipartisan bicameral group has met
7 over the past five or six months a lot. There have
8 been some days when there have been meetings
9 everyday, and some meetings that last three or four
10 hours.

11 And now I understand why people hate
12 meetings so very much, as if I needed it really
13 impressed on me.

14 But we've gotten a lot of work done. In
15 May the Senate Health Committee passed the Ryan-White
16 HIV Treatment Modernization Act of 2006 with one
17 dissenting vote.

18 There are basic elements of the bill -
19 and this is where I need to warn you, warn the PACHA
20 people, the people in the back - we are not through.

21 The bill changes - as data becomes apparent, the
22 bill changes; as someone makes a case that we have

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1 made, a tactical flaw, an error, or a policy flaw.

2 We are open and listening to suggestions.

3 And I see Bill McCall back there.

4 What I'm telling you is, there are some
5 basic tenets. There are some things that will not
6 change. But I am not going to tell you in deep deep
7 detail what's in the bill, because of what I find is
8 a moving target.

9 The basic elements in the bill: the title
10 structure remains the same, so there'll be a Title I,
11 Title II, Title III, Title IV.

12 Elements of the current act that are
13 working effectively will remain.

14 Funds that were distributed by formula
15 today will be distributed by formula under the new
16 act.

17 The HIV reporting requirement which was
18 in the 2000 reauth will absolutely remain in this and
19 the department will enforce it.

20 All grantees will be held to a 10 percent
21 cap on admin cost. All grantees who treat
22 beneficiaries - because not everyone treats or has

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1 their hands on clients - will be held to the 75-25
2 percent division. And when the president talked
3 about core medical services, he believed that any
4 penny not spent on these life-saving services was
5 perhaps not best used.

6 So our negotiated position was that 75
7 percent of the finances that you received to treat a
8 beneficiary must be spent on the core medical
9 services.

10 The 25 percent, remaining 25 percent, may
11 be used for support services as long as they achieve
12 a medical outcome.

13 All formulas where appropriate will be
14 based on living AIDS cases. There's a big change for
15 some areas. All grantees will submit an audit,
16 submit to, and submit the audit every other year.

17 All grantees must demonstrate in their
18 application how the proposal fits within their state
19 plan.

20 And HRSA is going to be fairly stringent
21 on this requirement.

22 In Title I at the moment it's proposed to

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1 create three tiers. As you know Title I is the EMAs.
2 Eligibility would be based on living AIDS cases over
3 the past five years. And EMA would cease to be if it
4 fails to meet the eligibility criteria for three
5 consecutive years.

6 The division of the funding in Title I
7 would change from 50-50, which is sort of in my
8 language 50 percent base, 50 percent for supplement,
9 to a 66 two-thirds 33 one-third change. The 33-1/2
10 would be the supplemental.

11 There would be a three-year phaseout of
12 the hold harmless provisions.

13 In Title II, the base and ADAP remain.
14 There are two new supplementals, one in Title II
15 base, and another in ADAP.

16 The three percent set aside in ADAP is
17 increased to five percent.

18 Each state that receives ADAP funds,
19 which is everybody, must create a drug list that
20 reflects the public health service HIV/AIDS treatment
21 guideline, to provide for consistency across the
22 nation.

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1 In Title III stays very much the same.
2 All grantees providing services must adhere to the
3 75-25 split. Rural health clinics and certain Indian
4 health centers are eligible for Title III funding.
5 This is a major change.

6 And the Indian health service is excluded
7 from payer of last resort provisions.

8 In Title IV - David is going to do the
9 hi-fi this time - much stays the same. There will be
10 an increased focus on family-centered care. All
11 grantees must submit audits to the state agency,
12 which is the same as the other titles.

13 And GAO will be asked to conduct an
14 evaluation of Title IV funding for program
15 effectiveness - actually the language is better than
16 that - but it's something that has never been done.

17 Title V, coordination of HIV programs
18 must include the minority AIDS initiative. We have
19 inserted public health emergency language.

20 Katrina taught this department, the
21 government, and the United States, a lot of lessons.

22 But what it taught the department vis-a-vis Ryan-

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1 White was that we were unprepared to do anything for
2 the grantee that needed help during this emergency.

3 Once our emergency authority expired, we
4 were helpless. So we were trying to do some fix, but
5 it's not going to be in this act for Louisiana. But
6 it did, it all of a sudden made people realize, my
7 goodness, we really need to be prepared for this in
8 the future.

9 In Title V, GAO will submit a report to
10 Congress every two years on barriers to program
11 integration. What we are trying to achieve, although
12 it doesn't sound like it from all these pieces, is,
13 there is one profile for treating a patient within a
14 state, so your Title Is, your Title IIs, if you've
15 got Title III money, if you've got Title IV money,
16 that they are working together to improve the health
17 of the particular client who is receiving services.

18 Spends money - this is a basic change.
19 The spends will be used to develop a standardized
20 electronic planning commission data system to improve
21 grantee reporting of client level data to the
22 secretary.

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1 We struggled with this. This secretary
2 and the president and I think all of us in the room
3 understand that health IT, health information
4 technology, is really where the world both needs to
5 go for quality, but it also is the better way to
6 maintain records. It ameliorates medication errors,
7 overtreatment, undertreatment. There are things that
8 health IT can do that a paper record can't do.

9 And there are some major institutions,
10 the VA for one, Hopkins for another, that have
11 already instituted health IT and are understanding
12 its value.

13 We struggled with how to introduce it
14 into Ryan-White understanding full well that every
15 penny of a grantee's money is so precious, it is so
16 necessary for care. So we feel that SPINS was an
17 appropriate place to take that up.

18 And that pretty much concludes what we
19 are planning to do.

20 Joe had asked that I allow some time for
21 questions, so have at it.

22 Oh, good, I'm done.

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1 DR. REZNIK: Ram?

2 DR. YOGEV: You mentioned that at least
3 two of the titles are going according to living AIDS
4 cases.

5 MS. MCGEEIN: Correct.

6 DR. YOGEV: This is markedly in contrast
7 to what we are trying to do. We stop the AIDS. I
8 have now my own state, Illinois, children who have
9 AIDS by definition, because they don't have active
10 AIDS, they reach 18, they don't have where to go.

11 Why are we not going through the HIV?
12 It's also contradictory to me to go and identify HIV
13 patient, because the HIV is not a major burden of my
14 system, and yet I'm giving only by AIDS or reduced by
15 number, whether they died or because of treatment.

16 So the premise to go by AIDS doesn't make
17 sense to me.

18 MS. MCGEEIN: Thank you. Actually I'm
19 glad you brought that up. The statement will be
20 HIV/AIDS, so your clients will be picked up.

21 DR. YOGEV: So we are going to go by HIV.

22 MS. MCGEEIN: Yes.

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1 DR. YOGEV: And that's why we'll go to
2 annual reporting and so forth? Thank you.

3 MS. MCGEEIN: Soon as you started I
4 realized, but I didn't say it. You guys are doing a
5 good job. You're keeping clients from progressing to
6 AIDS.

7 DR. REZNIK: Dr. Redfield.

8 DR. REDFIELD: I just would be interested
9 if you could give me some sense of the debate or the
10 thought process that decided to keep all the titles
11 separate.

12 As a recipient I think I have about 40
13 separate Ryan-White grants which I try to patch
14 together to provide care for 3-4,000 people, and some
15 times I get funding for all the pieces that I need,
16 and sometimes I don't get funding for all the pieces
17 I need. And we don't have Title III money
18 unfortunately, which I have seen to be a more
19 effective way of integrating comprehensive care and
20 treatment.

21 So I'd just be interested from your
22 perspective about how that debate goes of trying to

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1 integrate this rather than having all these separate
2 titles and separate perspectives and separate
3 requirements.

4 If the purpose is now to try to see that
5 this is integrated care from a medical point of view,
6 which I'm an advocate of, the 75-25 split, so the
7 support of care supports primary care.

8 So I'd just like your view on that, or
9 how those discussions happened in this six months of
10 interaction that you had.

11 MS. MCGEEIN: Well, it was endless. There
12 were both political reasons and policy reasons.

13 The political reasons were obvious. The
14 Title I to EMAs said, we can't do this. Please don't
15 do it.

16 The groups that advocate for the Title I
17 grantees said basically the same thing, that they
18 could not rely - they did not believe that they could
19 rely upon the state to adequately address the needs
20 within what is now their EMA, and they felt that they
21 made better use of the money by coming straight to
22 them.

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1 That has some validity. If California
2 had to consistently go to the governor to find out,
3 or to the state AIDS director, this is what we need
4 in San Francisco, there probably would be a loss of
5 efficiency.

6 And one of my goals, and people who have
7 been talking to me for a period of time know that I
8 want this act to be efficient, we feared a lost of
9 efficiency.

10 From the policy side, as a policy person,
11 I don't disagree with you. I believe that one fund
12 however we allocated it out to states and
13 territories, have the potential for being more
14 efficient.

15 But that would be the equivalent of a
16 demonstration project that I am not willing to
17 undertake with a \$2.2 billion program that people's
18 lives are dependent upon.

19 So I hear you, I understand you. We're
20 not that far apart, but it presents lots of problems.

21
22 DR. REDFIELD: But again I guess the door

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1 would be open then for considering in the future what
2 you said, for some areas to try something like that
3 as a demonstration project to see if and how that
4 could be accomplished.

5 MS. MCGEEIN: If somebody wants to step
6 forward with a proposal we would love to look at it.
7 What state are you from?

8 DR. REDFIELD: Maryland. Do you have HIV
9 name reporting yet?

10 (Off-mike remark)

11 DR. REZNIK: I have a question, Marty?
12 And I don't know how to ask this without asking a
13 specific, so it might take me a second.

14 I guess the best way to ask the question
15 is, will we have reauthorization before the recess?
16 I'm not talking about the July 4th recess; I'm
17 talking about before people go home for elections.
18 It's been two years, two state of the unions,
19 incredible effort on your part, and of the Four
20 Corners, and we seem to be held up again.

21 So your take: will we get reauthorization
22 this year?

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1 MS. MCGEEIN: Oh, gosh, are you going to
2 hold me to this.

3 All of us are desperately wanting
4 reauthorization. We believe that the changes that
5 are being proposed sets the - lays the predicate for
6 a different type of Ryan-White system.

7 The hold up on the House side - and I
8 actually admire the person who held it up a little
9 bit - he - the belief was the data, the modeling data
10 that we had presented, didn't exactly capture all of
11 the changes and so basically to use my kid's language
12 it got kicked to the curb.

13 We ASPE are about to start a new modeling
14 - a new modeling run to see if we can get data
15 sufficient. That is the only thing that's holding it
16 up on the House side. As you know it was scheduled
17 to be marked up last week. A good look at the data
18 said, time out, we're going to do something
19 different.

20 It is scheduled - I was actually going to
21 look before I came - it is scheduled in the House
22 this week or possibly next week. There is on all

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1 sides, the Four Corners Plus One, the advocacy
2 groups, the people at this table, the grantees, they
3 want this over; the president wants this over. But
4 we also want an effective bill. We also want
5 something that is actually going to work. So we are
6 willing to spend the time.

7 But I understand the election year
8 pressures, and the need to get out of here. The
9 House is supposed to go out the 5th of August, and
10 it's going to stay out until the 5th of September.
11 That means either a really really busy July or a
12 really really busy September.

13 But I'm not giving you a yes or no
14 answer, because in my heart of hearts I so want this
15 to be enacted.

16 DR. REDFIELD: Well, on your data run
17 that's coming out of your department, will you have
18 that prepared?

19 MS. MCGEEIN: We don't even have the data
20 yet. So once we get - these are not hard runs.
21 These are not complicated multivariant runs. We're
22 waiting for one set of data. As soon as we get that

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1 data we'll start loading codes and it's good to go.
2 And computers are nanoseconds.

3 But because we are making changes, the
4 data that we are looking for has to be changed along
5 with it. So we are asking agencies and operatives to
6 do things that they do not routinely do. I
7 understand the reluctance; I also understand the
8 difficulty.

9 MR. HOLMER: Are there outstanding
10 funding issues?

11 MS. MCGEEIN: Not really. Do you have one
12 in mind?

13 MR. HOLMER: No.

14 MS. MCGEEIN: I'm just trying to think.
15 No.

16 DR. REZNIK: I think there's been some
17 community push-back on the level of increase that
18 some of the titles within the Care Act are getting,
19 and some are actually being flat funded. I think
20 that might be.

21 MS. MCGEEIN: Is that your - okay. As you
22 know the president is putting in \$95 million into the

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1 Care Act, that currently is targeted to go, \$70
2 million of it, is targeted to go part of it into the
3 base Title II and the remaining into ADAP. It's very
4 specific months to clear the waiting list. The \$25
5 million would go into Title III, it's scheduled to go
6 into Title III.

7 But as I've said before to this group, my
8 famous Lyndon Johnson quote, the president proposes,
9 the Congress disposes, the appropriators are meeting
10 as we speak, and we will see if we get the increase.

11 Easy group.

12 DR. REZNIK: Dr. Yogev.

13 DR. YOGEV: My understanding now is that
14 some of the title will be open to cities with 500
15 HIV/AIDS cases; is that correct?

16 MS. MCGEEIN: That is not - that much - in
17 the current act there is something called the
18 emerging communities. I think it's a city within the
19 metropolitan statistical area, and they have 500 up
20 to 999 cases that is not all - this is basically the
21 same thing. The proposal is to move that grouping,
22 that type, into Title I. It may get moved back into

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1 Title II. That is one of those - it flips on
2 alternate days.

3 DR. YOGEV: If you do it it will increase
4 the number of cities that are going to pick up on the
5 same amount of funding. Obviously it will affect the
6 biggest -

7 MS. MCGEEIN: If it's a five year count.
8 So they would have to demonstrate that that had that
9 number of cases for five years.

10 DR. YOGEV: Yes, but still, 500 is a much
11 smaller number, which is appropriate; I have no
12 problem with that.

13 The point is there will be many more
14 competing on the same amount of money. Is that taken
15 any way into consideration.

16 MS. MCGEEIN: We're the authorizers. The
17 Four Corners are the authorizers; they're not the
18 appropriators. Whether the appropriators make the
19 choice to put more money into Title I or Title II, we
20 can suggest but we cannot make them do it.

21 DR. YOGEV: I'm a little bit worried about
22 the efficiency, because with all the documentation

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1 audit now you are requesting which are appropriate,
2 it's going to increase that administrative part,
3 which are not going to be paid by the same funds that
4 are not going to be disbursed to a much bigger number
5 of cities.

6 MS. MCGEEIN: I'm going to have to ask you
7 to remember that all of these cities are located
8 within states. The states will get money, and if
9 there is a city, or a grantee within a city that
10 seems to be bearing an unequal burden, then it's
11 there obligation to let the city know that. That's
12 number one.

13 Number two, the Title III grants are
14 designed to look at sort of overall. If you've got a
15 city that has had a serious decline in their
16 financial resources from Ryan-White because of this
17 new category, they can certainly apply for one of the
18 supplementals.

19 So there are two or three branches,
20 avenues, revenue streams, that are in the act that a
21 city as you describe certainly could look at and go,
22 hm, I think that might work.

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1 DR. REZNIK: I'm back, and then Dr.
2 Redfield, Marty.

3 There's two questions I have. One
4 concerns ADAP, because you just mentioned that part
5 of what the president wanted was funding to address
6 the waiting lists.

7 And I've read the legislation. Actually,
8 I've never read legislation so many times that my
9 eyes started crossing. Is there a mechanism in this
10 bill that would allow - we have that president's AIDS
11 initiative last year that was \$20 million, and there
12 wasn't a mechanism through the Care Act to actually
13 get the money where it needed to go.

14 Will there be a mechanism in the
15 reauthorized bill that will allow that to happen.

16 MS. MCGEEIN: These are all really good
17 questions, thank you.

18 Yes, the second set aside in ADAP is
19 called - Dr. Sullivan and any other medical person -
20 a potential space. For this time, for this cycle, it
21 is anticipated that \$40 million of the president's
22 money will go into that second set aside, the second

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1 supplemental. There's a set aside, and then there's
2 a supplemental. And the criterion for the
3 supplemental is specifically that there is an AIDS
4 waiting list that needs to be cleared, or that as
5 Michelle very graciously identified, you have found
6 new cases through testing initiatives and cannot
7 provide care for them; that that's where \$40 million
8 of that money is to go.

9 DR. REZNIK: So it could be states in the
10 south. It could be New York; it could be California,
11 depending on their case minding.

12 MS. MCGEEIN: Correct. But since one of
13 your criteria would be a waiting list, one can
14 presume it will be states in the south.

15 DR. REZNIK: And then my follow up was,
16 you just sort of mentioned that tier three is sort of
17 bouncing back between Title I and II depending on the
18 conversation.

19 Is there any similar conversation that
20 you're willing to scare - she scares me sometime -
21 willing to share on core services? Is that
22 discussion - are the core services sort of set now?

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1 Is that set by the Four Corners Plus One and over
2 with?

3 MS. MCGEEIN: That's done.

4 DR. REZNIK: That's done.

5 DR. REDFIELD: I just wanted to take an
6 opportunity to learn a little more on the waiting
7 list, and you didn't mention the south as
8 disproportionately probably in that category in terms
9 of patients that have waiting lists for medication.

10 In the state of Maryland we've been able
11 to avoid waiting lists. How much does the state
12 contribute to this process? How much is federal
13 versus state? I mean are we again rewarding people
14 that don't contribute? Or is it the fact that
15 southern states, like say North Carolina, has a
16 waiting list because they are not getting adequate
17 federal funding, or is it they're not using some of
18 their own state funding?

19 I'd like to understand this a little
20 better, because I'm perplexed by it.

21 MS. MCGEEIN: All the above and next.
22 First of all under the current formula where we are

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1 counting AIDS cases, and it's a 120-month count, so
2 basically it's a 10-year count, in those cities and
3 states where the epidemic is fairly new, or that are
4 doing a phenomenal job of keeping people from
5 progressing to AIDS, they do not get picked up in the
6 formula either for Title I or for Title II.

7 So in the south where for some period of
8 time the epidemic was either hidden or it had just
9 migrated to there, they are getting very little
10 through the current formula.

11 So part of it is, certainly in Alabama,
12 Georgia, Louisiana, North Carolina, South Carolina,
13 part of that is, there is aa federal - they're
14 getting less federal funds than the northern tier who
15 have had the older epidemic. That's number one.

16 How much the state puts in, I don't have
17 that data; I don't even know if that data exists.
18 I'm looking at Joe. David is telling me yes, it
19 does.

20 But it's a blend. The thing that we can
21 fix is the federal formula. The formula issue does
22 affect those states that have a younger epidemic or

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1 are doing a really good job keeping people from
2 moving to AIDS.

3 There are some states who have their own
4 financial problems who are unable to put much money
5 in. We have some states with less than perfect
6 Medicaid programs.

7 The fine line that we tried very
8 carefully to walk is, we did not want to create any
9 perverse incentives to those states that have readily
10 good Medicaid programs who are willingly treating HIV
11 patients or the AIDS patients that take the burden
12 off Ryan-White.

13 So it is a mix, it is a stew of reasons,
14 that we could thread our way through, but the only
15 thing we've got our hands on is the federal funding.

16 DR. REZNIK: Dr. Sullivan, and then one
17 more from over here.

18 DR. SULLIVAN: Marty, thank you for
19 keeping us informed about the latest study process.

20 I guess my question is related to I think
21 some of the feeling I sensed with members of the
22 council, and that is, there aren't many legislative

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1 days before Congress adjourns, and this really has
2 been a long slow and tedious process.

3 I guess my question is, would it be
4 helpful for this council to urge the Congress to
5 really complete this bill before it adjourns before
6 the year; then coupled with that is another question
7 to be sure if I'm on cycle, if they don't complete
8 the bill this year, do they start all over again? Or
9 is this carried over?

10 Because it's taken a long time to get
11 here, and what I hear you saying is, we're very
12 close, but somehow I get the sense - and this may be
13 my own misinterpretation - but I get the sense that
14 this could run out of gas, and we might end up
15 without this.

16 So my question is, how can this council
17 be helpful in trying to be sure we get this really
18 across the goal line so we'll really have this bill
19 and this funding.

20 MS. MCGEEIN: This is when I speak very
21 directly and I make everybody in the room nervous, so
22 of OGC is here, you might want to step out.

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1 I don't know what PACHA's charter is. I
2 don't know if it is within your purview to send a
3 message to Congress urging them to get this across
4 the goal line. I don't know that; I would bow to
5 your more considered opinion. I can't tell you that.

6 We are acutely aware of how few
7 legislative days are left. You were secretary here,
8 sir, you know how much we live by the legislation
9 calendar.

10 There is among the Four Corners Plus One,
11 we want to get this done for all sorts of reasons.

12 There are people, there are groups,
13 single people, groups of people, that do not want us
14 to get it done. And there's a movement to try to
15 stop it.

16 So we are working mightily to get it
17 done. We believe that we have the power to get it
18 done. But you do need to know that there are people
19 who do better under the current act than they will
20 under the new act. So there are people who would
21 just as soon see this fail.

22 If this fails, if this effort fails,

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1 regardless of what happens in the November elections,
2 we will not see a bipartisan bicameral group start
3 over again in January.

4 The president is still president. We
5 will put our proposal forward; the Democrats will put
6 theirs forward; the Republicans will put theirs
7 forward; and then we'll duke it out.

8 But the reason I spent some time on
9 process is, this is a very unusual process, and the
10 goal was to make sure that everyone was heard - I
11 spent a year or more, Joe was at many of the
12 meetings, more than a year - listening, thinking
13 through, analyzing, collating information, from your
14 group, from the CHAC, from the advocacy groups, from
15 individuals, we read everything. We analyzed
16 everything. We came to the table prepared we thought
17 with positions such that they represented not
18 everybody's personal opinion but the collation of
19 those.

20 I want this to happen. I want this to
21 occur. I want a new Ryan-White act as predicate laid
22 down. It is important for the clients who receive

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1 the services.

2 DR. REZNIK: Marty, first, the amount of
3 effort as I mentioned earlier -

4 MS. MCGEEIN: How many questions are you
5 allowed?

6 DR. REZNIK: I'm chair of this section.

7 MS. MCGEEIN: Fine.

8 DR. REZNIK: Until they boot me here.
9 It's been an incredible effort by all members that
10 have been involved in this.

11 I have one question that's sort of a
12 little bit different. It ties in the testing
13 initiative that really emanates from HHS through
14 HRSA, it's the bureau of primary care. Is the bureau
15 of primary care actually working towards routine
16 testing in the community health centers which is a
17 concern?

18 And two, since I think that eventually
19 has to happen, my final concern, I guess my final
20 statement, because as I said I've seen the latest, my
21 latest version of the bill, I'm sure not what you've
22 seen, I am concerned about the percentage increases

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1 that are in the titles.

2 I know that it's not an authorized
3 decision on appropriations, but I do know that when
4 the appropriators look at a bill, and it suggests
5 that 3.7 percent for titles one through four, maybe -
6 or three - and then that four in part are flat
7 funded, I think that we're going to - if we're
8 successful we are identifying more people; we will
9 identify them earlier in the disease.

10 But as someone who works in a very large
11 program in Atlanta, we are slammed. I mean honestly
12 slammed. We are already a core service model in that
13 community. We have been for several years.

14 And if we see another huge influx of
15 patients with a percent increase that is much less
16 than the cost of providing medical care, I'm afraid -
17 and then Dr. Saag will talk to this tomorrow - and
18 we're not seeing a great swarm of new young providers
19 coming to deal with this, I'm afraid that our own
20 infrastructure, our own ability to care for this
21 patient population could dwindle with that number.

22 So I guess it's a two-pronged question.

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1 One, is the bureau doing what it needs to do to get
2 people tested?

3 And the 3.7 percent, I mean if that is
4 what it's going to take to get something passed then
5 I'm going to support it, but I think there is an
6 issue there, and I think there is an issue for ADAP.

7 I think there are issues for the care providers in
8 one, two and three and other parts of the act. I
9 think that's important.

10 And I guess I ought to finally say before
11 I let you speak is that we will come up with a
12 motion, whether or not it's within our jurisdiction;
13 Joe can determine that. But we will say something
14 very strongly, because I've been acutely aware of the
15 effort and the dedication and the compassion that's
16 gone in from all parties involved in this process,
17 and it needs to be completed.

18 MS. MCGEEIN: Thank you.

19 On the Bureau of Primary Health Care and
20 community health centers, they are as committed to
21 testing as probably anybody in the department, and
22 they are - and NIA is an interagency transfer of

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1 money - they operate for this purpose with IAE from
2 CDC. So they are receiving funds outside of their
3 appropriated base on a transfer level to make sure
4 that testing is occurring in the community health
5 centers and other centers where they are active.

6 But the big difference, and you probably
7 picked up on it, but the big difference in the law is
8 that we are now seeing the rural health centers,
9 before were excluded from any service or any
10 treatment money, are now an eligible grantee, so that
11 expands that base where we keep hearing a lot of the
12 problem is, but there are not the providers per se to
13 take care of it. So by including the rural health
14 centers, and by including the Indian health service
15 both as a grantee, but also excluding from the payer
16 of last resort provision, we hope, we believe, we're
17 expanding that network of providers more broadly.

18 On the 3.7 percent increase there is this
19 wonderful language called notwithstanding. The
20 appropriators tend to do what the appropriators want
21 to do. As I say they're doing it right now in
22 Congress.

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1 As I remember over the last three years
2 or so that this issue has been on my desk, I do
3 believe that ADAP has consistently received
4 additional funds while the other titles have not.

5 David, I agree that there should be more
6 money in this act. I also know that there are
7 multiple demands. Talk to Dr. Sullivan sometime in
8 an offhand moment. There are multiple demands on the
9 federal budget right now; this might be the best
10 we're going to do. And it is an increase. Everyone
11 keeps saying it's level funding. Only in Washington
12 is a 3.7 percent increase level funding.

13 So I hear you. I understand you. This
14 is probably the best that we're going to be able to
15 do. Plus we're getting \$95 million extra.

16 DR. REZNIK: Jackie, and you'll be the
17 last question.

18 MS. CLEMENTS: Okay, thank you.

19 Dr. Redfield, I guess in defense of North
20 Carolina, I have to say we put an enormous amount of
21 money into our ADAP program. We are in the southern
22 states that are seeing a huge emergence of this

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1 infection, new infections.

2 So you ran through, Ms. McGeein, a whole
3 list of things that are part of this legislation.

4 Can you tell me - and it really sort of
5 blows my mind sometimes - but do you see that this
6 new act is going to help the southern states? And
7 the president did say, and we said, that we want the
8 money to follow the disease, and it is in the south,
9 so we're in need of help in that area. A lot of
10 southern states are.

11 And so do you see that that is going to
12 happen?

13 MS. MCGEEIN: If we did nothing else other
14 than shift the formula to HIV/AIDS, if we did nothing
15 else and walked away, your state would do better,
16 because you're a named space reporting state.

17 So if that alone, that changes the
18 dynamic. It changes the way the funds will be
19 distributed; that should make a significant change.

20 Is it going to be enough to make up
21 whatever shortfall exists in your states? I can't
22 tell you. But I do know that just that alone will

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1 make a difference.

2 The federal government theoretically
3 cannot legislate for states. But the thing that we
4 heard consistently over the year of information
5 gathering was that the epidemic is in the Southeast.

6 The new burgeoning epidemic disease zone.

7 So without creating a Ryan-White program
8 for the Southeast, which you probably would like,
9 what we needed to do was to make the program that
10 we've got more rational. And counting AIDS cases
11 doesn't cut it.

12 So the biggest piece that you're going to
13 get is going to be the HIV counts. DR. REZNIK:
14 Thank you, Marty, for a wonderful presentation, for
15 putting up with all our questions.

16 And again, please thank those Four Corner
17 people plus yourself for the tremendous effort that's
18 gone into updating and modernizing.

19 Thank you.

20 MS. MCGEEIN: A pleasure. As always, it's
21 fun.

22 (Applause)

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1 DR. REZNIK: Dr. Sullivan.

2 DR. SULLIVAN: Well, thank you very much.

3 We'll take a break until 10:25, and we
4 will make up the 15 minutes we are behind by having
5 45 minutes for lunch. So we'll try to keep the rest
6 of the schedule going. So 10:25, thank you.

7 (Whereupon 10:15 a.m. the proceeding in the above-
8 entitled matter went off the
9 record to return on the record
10 at 10:31 a.m.)

11 DR. SULLIVAN: Our next part of our
12 deliberations will be under the leadership of the
13 prevention committee, who is chaired by Dr. Sweeney.

14 So Monica we'll have you take the chair.

15 PREVENTION

16 DR. SWEENEY: Thank you.

17 At this time I am going to introduce Dr.
18 Leone, who is going to talk about HIV sexual networks
19 in college campuses.

20 I will just read what is written in our
21 agenda and hope that you will read his impressive
22 bio.

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1 Dr. Peter Leone, medical director,
2 HIV/STD prevention and care branch, associate
3 professor of infectious diseases at UNC Chapel Hill
4 School of Medicine.

5 And it's really a pleasure to have Dr.
6 Leone here. I have read some of his things, and know
7 that this is going to be very informative for us as
8 we go forward.

9 Dr. Leone, welcome.

10 HIV, SEXUAL NETWORKS AND COLLEGES CAMPUSES

11 DR. LEONE: Thank you. I appreciate the
12 opportunity to present. And I want to thank Joseph
13 in particular who arranged for me to come here.

14 And we'll hopefully get into some lively
15 discussion. I wish I could tell you I had great
16 answers for what I consider to be an ongoing epidemic
17 on our college campuses. I don't.

18 But I think one of the things that I'm
19 concerned about is that there was a lot of attention
20 brought to this matter maybe two years ago when Lisa
21 Hightow and I first reported on what we saw as a
22 burgeoning college outbreak among black college

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1 students in North Carolina.

2 Unfortunately, that epidemic seems to
3 continue, and we have data that actually runs through
4 2004. So what I want to do is give you a brief
5 overview on how that came to sort of our
6 understanding of the outbreak; what it means I think
7 in terms of how this thing ties together. And I'm
8 sure we'll get into some discussions about whether or
9 not this is unique to college campuses in North
10 Carolina; whether or not it's a broader issue that
11 needs to be addressed; and whether or not these cases
12 are somehow different than the underlying issues that
13 black MSM face in the south.

14 So with that I'm going to go ahead and
15 get started and actually present a real case, a 21-
16 year-old African-American male college student who
17 presented at student health at UNC, the urgent care
18 clinic there; had five days of sweats, heartburn,
19 sore throat and fatigue, and on examination was
20 febrile but had a yeast infection in his mouth, had
21 what we call pharyngitis, and some tender cervical
22 adenopathies, the swollen lymph nodes in his neck.

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1 And again if you look at his labs pretty nonspecific
2 findings, low white blood cell count, mild elevation
3 of his liver enzymes, all which would suggest that he
4 had some diffuse inflammation, viral illness.

5 He had an HIV antibody test done, which
6 is a standard way of doing testing, and was negative,
7 but he actually saw one of the infectious disease
8 physicians at UNC who thought about acute HIV, and
9 this is indeed what he had.

10 And the HIV viral load had over 6 million
11 copies per mil, was p24 antigen positive as well,
12 which is one of the proteins that we see expressed on
13 HIV, and was HIV-DNA positive.

14 So what this college student had was
15 acute HIV, the very earliest stage of HIV, and who
16 Mike Cohen who is going to be here tomorrow - it's
17 like UNC day I think between today and tomorrow, so
18 I'll have to give Mike a little bit of grief, the
19 fact that his staff actually made it here before he
20 did. He's coming in from England tonight.

21 But the importance of this was that we
22 had just set up a program in North Carolina at around

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1 the time that we started seeing college cases,
2 picking up this very early stage of acute HIV. And I
3 think this is important when we look back at how this
4 epidemic took off, what drove I think the early stage
5 of this epidemic was the fact that we had a lot of
6 new cases with very high viral loads. Six million
7 copies per mil means that you're looking at very high
8 potential for transmission. Short phase of high
9 infectivity during acute HIV only about eight weeks
10 to 12 weeks, but important in terms of the fact that
11 a lot of these kids are missed, given a diagnosis of
12 a nonspecific viral illness.

13 Now to put things in a broader context
14 before I come back to what we see among college
15 students in North Carolina, this slide is looking at
16 modes of transmission in North Carolina in terms of
17 risk factors. And what you can see in this slide is
18 that starting around 2001 - 2002 we started seeing an
19 increase in the number of MSM that were being
20 diagnosed with HIV, which has continued actually
21 through 2005.

22 This parallels what you're going to see

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1 in terms of the takeoff of college cases in North
2 Carolina.

3 In November of 2002 North Carolina
4 established acute HIV tracing and screening program
5 call STAT Program. It's a program designed really to
6 look at doing screening on folks who are HIV antibody
7 negative, and rolling those tests over to pooled
8 assays which we can do HIV/RNA screening. It's
9 robotic pooling. It allows us to pick up this very
10 early phase like the case that I just talked about
11 among the college students in North Carolina.

12 First three months of the program we had
13 five acute HIV cases. Two of them were among college
14 students; same town; they weren't connected through
15 direct sexual partners.

16 Now that may not seem like a lot, but for
17 us that seems pretty unusual that we would have two
18 cases in the same town, and really raised a lot of
19 questions about, is this a bigger issue? What was
20 the sexual transmission network like? And so we
21 would be looking further.

22 To be honest we made a few phone calls to

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1 a couple of clinics in the area, and we found out
2 that some of the clinicians in these HIV clinics
3 reported seeing college students newly referred to
4 them, so that actually started us looking back and
5 doing a retrospective review of all the states'
6 surveillance records, and men between the ages of 18
7 and 30, starting January 2000; now we have data
8 through April 30th, 2005, and in the summer we're
9 going to be doing another sweep to complete 2005 and
10 the first part of 2006.

11 We reviewed all 100 North Carolina
12 counties. Now the reason we were able to review
13 records in North Carolina is that North Carolina has
14 had HIV reporting for years, name reporting of cases,
15 all newly diagnosed cases of HIV in North Carolina
16 are interviewed. That information is entered into
17 the CDC STD MIS system. It's an information system
18 that is kept confidentially at the state.

19 When we saw this we were able to go back,
20 review those records, and actually abstract data that
21 would allow us to look at this age group and look for
22 risk factors.

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1 So we looked at all the counseling and
2 testing site data, and reviewed all of the DIS
3 interview records that were available for newly
4 diagnosed young men between the ages of 18 and 30.

5 In doing that with Lisa Hightow we
6 actually found about 1,400 cases of new HIV diagnosis
7 in men in that age group during that time period,
8 about a five-year time period.

9 About 1,200 of these cases were available
10 for reviewing; that's about 85 of the cases. And it
11 turned out that 13 percent of these were among
12 college students.

13 Now let me be very clear about what I
14 mean by college students here. That means when they
15 were diagnosed they were enrolled in a school. So we
16 asked them when they were being interviewed, what's
17 typically asked is, where do you live? Where do you
18 meet partners? Our DIS routinely do that as a part
19 of interviewing and review.

20 And in this case what they heard was that
21 they were enrolled in a school. So this college
22 student listing is a pretty narrow definition. They

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1 had to be enrolled in a college at the time they were
2 diagnosed.

3 Does that mean they got infected in
4 school? Not necessarily, but given the age of these
5 folks it's hard to believe that they got infected at
6 15 or 16, and what we are seeing when we start
7 looking at this a little bit more is that I do
8 believe that many of these students got infected
9 while they were in school.

10 Now the bulk are still non-college
11 students; 87 percent or so are not in school. But
12 it's the trend that is concerning here.

13 If you look at 2000, and look at the
14 number of cases on the left hand part of the slide,
15 and the Y-axis here is by year, you can see an
16 increase in the number of college students, which is
17 the light blue column in terms of number of cases.
18 The number of newly diagnosed cases has also gone up
19 during that time period.

20 Now it looks like there was a drop in
21 2005 but part of the reason for that is, this is only
22 the first quarter, and even though we have reporting

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1 of cases that is mandated within seven days, there is
2 always a lag in terms of getting reports into the
3 state where we can review. So we're actually not
4 going to have 2005 data until the end of the summer.

5 So I'd be happy to come back at some point and tell
6 you whether or not our programs that we've instituted
7 in North Carolina have made a difference in the last
8 year or so. If anything the cases may have gone up
9 because we're doing more work on campuses.

10 So let's just look at the college cases,
11 and what you see here are about five cases in 2000.
12 By 2004 we're up to nearly 50 cases.

13 Now that may be because we're seeing a
14 slight increase in MSM, but if you look at the
15 percentage of total cases of young men between the
16 ages of 18 and 30, and how many of these were in
17 college students, you can see that it's not just a
18 matter of increase in sheer number of total new cases
19 diagnosed. We went from around five percent in 2000
20 to around 15 percent in 2004.

21 So what we think is an alarming increase,
22 and one that from an epicurve standpoint would

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1 suggest that the numbers have gone up.

2 Now this doesn't explain why. It just
3 says that we're seeing an increase, and an increase
4 in the number of cases in college students.

5 Now 14 or 15 percent may not seem like a
6 lot, but just stop and think about that number for a
7 second. That means that about one in seven newly
8 diagnosed cases are in college students. That's
9 pretty alarming.

10 In addition what it means is that we're
11 probably underestimating the number of cases that
12 we're seeing here because again, the way we collect
13 this information is what's reported to us. It
14 doesn't mean that there aren't other folks that are
15 infected.

16 And when we break this down a little bit
17 more and look at the number of college cases based on
18 classified them as either AIDS cases, whether they
19 were chronically infected or recently infected, and
20 by recent infection we mean that they either were
21 acute HIV where they did not have antibodies but were
22 RNA positive, the first eight to 12 weeks of HIV

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1 infection, or they had a documented negative test
2 within six months of being diagnosed with HIV.

3 And remember I said that early phase of
4 HIV is very infectious. Lots of virus in the blood
5 and in general secretions, and again, may be a
6 driving force for transmission.

7 Now this is a retrospective look. So we
8 don't believe, at least starting in 2003 when we
9 looked backwards that we biased the information.

10 There were no new interventions on
11 college campuses to increase screening. And yet you
12 can see here that when this thing took off, what we
13 can see is that about 30 plus percent, almost a third
14 of these cases, were recently infected college
15 students.

16 Again, probably an underestimation of the
17 total number that are recently infected. Now we
18 think that's important, because that's a driving
19 force we believe in terms of transmission, and I
20 would like to think that that's a contributing factor
21 for why this thing took off when it did in 2001-2002.

22 Now if we look at the cases, 85 percent

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1 of these are among African-American males. So the
2 bulk of these are young black men. In '79 about 60
3 percent report only having male sex partners, but
4 about a third report having both male and female sex
5 partners, and about four or five percent only female
6 partners.

7 So almost 40 percent of these men report
8 having female partners. Now unfortunately Oprah got
9 hold of this information, and invited an individual
10 who has written a book on the "down low," focused on
11 this information. He actually posted this article on
12 his website, or at least the initial reports. And I
13 think what's happened is we've had a lot of
14 diversionary talk around men who are on the quote
15 unquote "down low," men who identify as being
16 heterosexual but have male partners on the side.

17 And really what we're seeing here is more
18 bisexuality, not men who are not identifying as
19 having sex with men; and I think that information has
20 further stigmatized MSM of color, further
21 marginalized the group that we're trying to reach,
22 and has really sort of I think removed attention from

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1 what is an ongoing issue here which is about how do
2 we address an issue of transmission that is affecting
3 the broader aspects of the community, both men and
4 potentially women.

5 And we'll come back to this MSM-W, men
6 who have sex with men and women issue here in a
7 second.

8 Now if we look at the college students,
9 and we do a comparison of the college cases, meaning
10 the young men who are in college, and compare those
11 to the newly diagnosed men who are not in college, we
12 find that the college students were about three times
13 more likely to be African-American; about three times
14 more likely to be diagnosed with a recent infection;
15 three times more likely to have both male and female
16 sex partners; and note where they meet their partners
17 - the Internet about sixfold greater than the non-
18 college students, and on college campuses.

19 Not surprising they would meet students
20 to have sex with on college campuses - about 16, 17
21 fold greater risk. There are 30,000 African-American
22 male students who attend colleges in North Carolina

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1 any given year. If we assume that five percent of
2 those are MSM, men who have sex with men, that only
3 leaves about 1,500 MSM black male college students.
4 So if these students are more likely to meet other
5 students to have sex with, and our data would suggest
6 that they are much more likely if they're college
7 students, it's a pretty small sexual network pool.

8 If you have HIV that enters into that
9 network, then you're going to see much more
10 transmission occur, especially during these early
11 stages.

12 So what we have here, I think, are small
13 networks and isolated groups of individuals who
14 connect up with acute HIV driving the epidemic.

15 The question has been, well, how do we
16 make that connection, given that we have all these
17 scattered cases, we're looking at the whole state.

18 What ties them together? Well, the two -
19 three things are going to be the bars, the Internet
20 and the college campuses.

21 The college students were less likely to
22 meet someone who was diagnosed with AIDS. They were

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1 less likely to know or have a partner with known HIV
2 or AIDS, which would suggest that we're going to have
3 to do a lot more testing and education on campus.

4 We published an article with the CDC, the
5 MMWR article where they did interviews, college
6 cases, and they also looked for quote unquote
7 controls, meaning non-HIV infected MSM who are
8 college students, and those who were young men who
9 were not.

10 We found no differences in behavior, but
11 a common thread in all this was that none of them
12 thought that they were at risk of acquiring HIV. In
13 fact about 70 to 80 percent of the young men who were
14 diagnosed with HIV, when they came in for the test
15 that led to their diagnosis thought that they were
16 unlikely or very unlikely to contract HIV; yet 40
17 percent of those men engaged in unprotected receptive
18 anal intercourse with a partner that they did not
19 know their HIV status.

20 Are they dumb? No. They know how HIV is
21 transmitted. But as human beings they underestimate
22 their risk.

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1 Lots of reasons for that. They don't
2 consider themselves quote unquote gay. When they
3 hear messages that are talking about HIV, they view
4 it as something that's out there in other
5 communities, not theirs.

6 Number two, there is no discussion in
7 North Carolina leading up to this around ways that
8 MSM can protect themselves. What they hear in their
9 schools is about abstinence, and abstinence until
10 marriage.

11 I'm all for abstinence, but these men
12 don't perceive risk, and when they engage in sex,
13 whether it's anal intercourse or oral sex, they don't
14 understand that they're putting themselves at risk
15 for acquiring HIV, even though it seems obvious,
16 because they don't believe their partners are at
17 risk, because they are young healthy men.

18 When asked why they didn't think they
19 were at risk, what we're hearing is, well, they
20 didn't look like someone who would have HIV. They
21 were in school; they were healthy; they were good
22 looking; they drove nice cars; they dressed well.

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1 Has nothing to do with HIV, yet that's what they're
2 holding onto.

3 They're afraid, frequently when we talk
4 to them, about getting HIV tested, because they're
5 worried about being further marginalized or
6 stigmatized on their own campuses.

7 So what's happened because of a lot of
8 the homophobia that still exists within communities,
9 these guys meet folks, have anonymous sex, and
10 because there is no discussion about ways that they
11 can protect themselves, no open discussions about the
12 risk for them, they put themselves at risk.

13 Now you've got a lot of maps. I'm going
14 to run through these pretty quickly, because I really
15 do want us to have time to talk.

16 We wanted to understand what the extent
17 of this was, and this is a map that looks at the
18 number of cases by colleges, and where they connect.

19 And what you can see here is that we can
20 connect many of the schools into a network, the
21 yellow dots the size of the yellow dots represent the
22 number of cases. And you can see, our metropolitan

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1 areas tend to have the higher number of cases, and
2 these cases connect across the state.

3 But note here, we've got cases that
4 connect into Alabama, Louisiana, South Carolina. We
5 know for a fact we have cases that connect up into
6 D.C. and Virginia.

7 Yet there is very little reporting about
8 what is going on amongst college students in other
9 parts of the south. I don't believe based on our
10 data that this is unique to North Carolina, nor is it
11 unique to our college students. It's a much broader
12 issue in the south that is going to have to be
13 addressed; otherwise we're going to have a generation
14 of young men who are going to be dying in the next
15 five to 10 years, or coming in sick, because they
16 don't perceive themselves at risk or infected with
17 HIV.

18 To understand this a little bit better,
19 we did a network analysis, and this is done for other
20 diseases. But we wanted to actually look at HIV in a
21 slightly different way, and that is to treat the
22 individuals and the schools as well as the clubs as

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1 individual sites, and see if we could connect things
2 up to explain this.

3 Now this is a network diagram of the
4 college cases who are connected by partners. And
5 what you can see here is there's been a lot of
6 scattered partnerships.

7 Individuals here that don't seem to
8 connect, and these closed loop networks, mean that
9 these are all sexual partners, but nothing that ties
10 all these cases together.

11 So the question here is, how do we
12 explain this big epidemic if we've got these small
13 little clusters? Well, the way to do that is to not
14 - is to realize that we're maybe not getting all the
15 information on partners. And indeed a lot of these
16 partners are anonymous sex partners, so there is no
17 name, no contact, no information.

18 But we do know the schools, and we were
19 able to get information from these students about
20 where they meet their partners in terms of what other
21 schools. So we treat the schools like partners here
22 to draw networks.

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1 So the circles represent the different
2 schools. You can see the greens are out of state
3 schools, but note here we have University of North
4 Carolina system, community and technical college, and
5 private schools such as Wake Forest, Duke University.

6 These connect up, so this is one school.

7 The triangles represent students. The solid line
8 means that this student with HIV attends this school;
9 the dotted line means that this student meets
10 partners at this school.

11 And you can see that we can connect much
12 of the individual cases if we start looking at the
13 schools as a place of connection, not just
14 individuals.

15 If we did what we call an egocentric
16 network where we look at the schools as the component
17 first, and then look at where we branch off, you can
18 see that the S here represents schools, the Cs
19 represent college cases, and you can see a rather
20 large network in red that connects many of these
21 cases together. All the reds are all one network.

22 So the explanation for why this took off

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1 I think again is that they're meeting students at
2 other college campuses, which is why we desperately
3 need more activities on our college campuses to say
4 HIV is real, it's not just real out in the community;
5 it's not just real in developing countries. It's
6 real and it's being transmitted on the college
7 campuses which you attend.

8 Now I said that we've looked at multiple
9 factors that connect. We only have several MSM bars
10 for minorities in the state, and they tend to be in
11 the major metropolitan areas, and again, these are
12 major connecting points.

13 Here we look at one of them. It's a bar.

14 And we look at the cases. And you can see how many
15 of the college cases connect to one bar.

16 It acts as sort of an accelerant, a way
17 to bring these students into one place where they can
18 meet across geographic areas. Jackie knows that
19 students drive to Greensboro from Charlotte to
20 Raleigh. There is a big night in Raleigh, North
21 Carolina where students actually come down from
22 Washington, D.C., to see a DJ, which brings students

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1 in from across North Carolina and other states.

2 Charlotte is a hub that brings people in
3 from South Carolina, Atlanta, we've got a mixing of
4 populations here, students meeting other students.

5 And then there is the Internet. This is
6 one website where the students that we interviewed
7 said they met partners. And you can see how the
8 Internet also ties this together.

9 Now why is this important? It's
10 important, because when you look at acute and recent
11 cases, you can see how they tie up very well with
12 this network. So the red dots here represent acute
13 cases of HIV, and you can see we've got websites in
14 here and bars and colleges that connect up with all
15 of these students.

16 So these students are connected through
17 many different ways, and when we start looking at
18 only named partners, it falls apart.

19 So if we are going to do interventions,
20 we need to actually plan on doing more over the
21 Internet, which allows a safe haven for folks to meet
22 individuals, especially in rural North Carolina. We

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1 need to do things in bars. The CDC based on the
2 early reports funded an initiative called a popular
3 opinion leader model for young black men in our bars
4 in North Carolina. We got funding for one year.
5 It's over; no continuation funding.

6 And we actually had a very good campaign
7 that started to do education outreach to young men in
8 the bars where they did not design their own outreach
9 information, their own distribution. And the whole
10 goal, to be blunt, was to reduce the amount of
11 unprotected receptive anal intercourse.

12 The data over the course of a year
13 suggested that we had statistically significant
14 reduction in risk behavior with students reaching
15 students; yet that funding has stopped.

16 In some ways you can't keep going back
17 after the populations we're trying to reach, tell
18 them we're going to start initiatives, do it for
19 awhile, and then pull the plug on the end of it and
20 expect that they're going to be able to do this
21 either on their own, and that it says that we have
22 good faith to continue the activities.

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1 So one of the things I'd like to see
2 happen is a reinvestment in some of the initiatives
3 that have started, not just in North Carolina, but
4 other parts of the country, to reach minority
5 students.

6 Now again looking at these cases, you can
7 see how complex all of this is, and I just throw
8 these up here, mostly so you have an idea of the
9 complexity of the components.

10 Now let's go back and look at the MSM-W.

11 Remember I said that I thought that I thought that
12 talking about the "down low" has been somewhat
13 distracting dealing with the overlying issues around
14 transmission.

15 Taking a quote out of the New York Times
16 that did an article now three years ago on the "down
17 low," it says in a letter written to them on their
18 article, I think a lot of these young men only have
19 wives or girlfriends to cover up their homosexuality.

20 In the meantime they are denying who they are.

21 And my question is: Are they? And I
22 don't think that they are. And the reason for that

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1 is based on these three things.

2 We get them confused when we have
3 discussions, and unfortunately when we're doing
4 outreach I think it also gets confusing. Sexual
5 orientation refers to whom you are attracted; that
6 could be men, women or both.

7 Sexual identity is how you describe
8 yourselves to others, and it's contextual.

9 Sexual behavior, though, is with whom you
10 are having sex. Our outreach activities need to be
11 based on sexual behavior.

12 So I'm going to use a very brief example
13 because people say, well, how can this possibly be?
14 Either you're gay or you're not, you're straight or
15 you're not.

16 My question is, how many times do you
17 have sex with a man to be gay? Is it once? Twice?
18 Three times? In our country we tend to think of
19 things in very divisive attitudes. We do that with
20 race and skin color; we do that with sexuality.

21 I'm going to use my ethnicity as a
22 stepping off point. I'm an Italian-American. My

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1 grandparents were from Italy. They moved to - or
2 took a boat - to New York. My parents were born and
3 raised in New York. So was I. We moved when I was a
4 kid to Ohio. And about 21 years ago I moved to North
5 Carolina.

6 When I lived in New York as a kid, people
7 asked me what I was, I said Italian.

8 When I went to Italy to visit my
9 relatives, they looked at me like I was crazy if I
10 said I was Italian. I was American. In New York I
11 was an Italian-American. In Ohio I was a Yankee, and
12 when I moved to North Carolina, there was another
13 expletive in front of that.

14 The point is, I'm all of those things,
15 but it really depends on where I am and who's asking
16 the question. Yet around sexual identity and
17 behavior, we like to lock people into blocks.

18 So let's go back to this issue of MSM-Ws.

19 I mentioned that about a third of the college
20 students reported having sex with men and women in
21 the previous 12 months to their being diagnosed.

22 The overwhelming majority of those were

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1 African-American. In fact the college MSM-Ws were
2 more likely than the non-college to frequent bars or
3 clubs, to meet sex partners, and one-third of the
4 college students who identified themselves this way
5 reported the names of only male partners.

6 So we have a problem reaching a lot of
7 the women. I think that that's something again we
8 need to redouble our efforts here to do more outreach
9 and encourage testing among young women who are at
10 risk.

11 Now looking at the gender of the sex
12 partners, you can see the comparison here of the 18
13 to 30 year old men, the first 103 cases. Thirty-six
14 percent of the black college students reported both
15 male and female sex partners, compared to seven
16 percent, or only one out of 14 of the white students.

17 And in a multivariable analysis when we
18 compared this, we found that MSM-W were twice as more
19 likely to look at all those 18 to 30 year old men to
20 be college students.

21 And note this last bullet. In terms of
22 reporting 10 or more sex partners in the past year,

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1 about three times more likely.

2 So the MSM-W is an important bridging
3 group we believe, not in terms of the heterosexual
4 community, but there may be some difference here
5 about really connected across networks.

6 So barring an article, some data from an
7 article we published with Lisa Hightow, looking at
8 these networks, you can see looking again at the
9 college networks, we have six separate networks,
10 seventeen schools, 58 students. If we add any MSM-Ws
11 here, we have one giant network, 95 students, 26
12 schools.

13 So the MSM-W we believe is a critical
14 group to do outreach if they don't identify
15 necessarily as being gay or heterosexual. So we have
16 to come up with the right target message, the right
17 way of really doing outreach.

18 So prevention for bisexual men. Some
19 bisexual men may be in transition to homosexual
20 identity; I don't think we really know. Other
21 bisexual men will never identify as being gay, and
22 may not even identify themselves as being bisexual.

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1 Again, more research around this is really needed.

2 And all of this again comes back to being
3 more creative and dealing with the Internet. So
4 again if we look at the percent of students meeting
5 folks over the Internet, we can see that this has
6 really taken off to now more than 60 percent of the
7 new cases report meeting their partners over the
8 Internet. And by doing that you don't have to
9 identify yourself, you don't have to identify your
10 sexual identity, necessarily. You can meet people,
11 but the problem is you know nothing about them. So
12 even if you ask about sero status, it's only helpful
13 if you are positive and your partner is positive.

14 If you are negative and the person says
15 they're negative, you're still taking a chance. So I
16 think again we're going to have to be very clear on
17 our messages. And I'll skip over these for the sake
18 of time.

19 Then we can see how complicated these
20 networks are.

21 Now it's not just black college students.

22 In the last year we've seen a change now where we're

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1 seeing crystal meth in the mix, and again the
2 Internet that plays into this.

3 So this is a rather complicated sexual
4 network looking at primarily white college students.

5 You can see the reds are the acute, and not how this
6 one acute case in the center connects up over the
7 Internet to many other cases, and crystal meth is in
8 the mix.

9 So I think if we're going to do
10 activities on college campuses, we need to address
11 issues around a growing at-risk population.

12 So what do we learn about this outbreak?

13 We recognize it because we've had real time
14 surveillance methods that have been linked to partner
15 counseling referral methods, and traditional outbreak
16 investigation, which is what we did.

17 We did a network approach which allowed
18 us to find things that we didn't seem to see
19 connected before, and what we demonstrated is that
20 this was an ongoing network transmission for African-
21 American MSM and MSM-W attending school.

22 And more importantly, bars and the

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1 Internet really do I think act as accellerants for
2 transmission. So if we're going to begin doing
3 interventions, and if we're going to try to
4 intervene, we have to address not only the college
5 campuses, but really be more creative in our efforts
6 in bars, and in particular over the Internet.

7 And finally college students represent an
8 at-risk population for an ongoing HIV prevention
9 interventions. Now again, you may say well, this is
10 a small percentage of all the transmission that we're
11 seeing, but it's an important percentage, because it
12 is a rising middle class population in the south.
13 Future leaders for African-Americans in the rural
14 south in particular. They are going to be dying with
15 HIV if we don't intervene now; we are going to see
16 further transmission if we don't intervene now.

17 So we really need to step it up in a way
18 that doesn't further marginalize a group that we so
19 desperately need to reach.

20 I'm hoping again we'll have a chance to
21 talk. I think it's 11:00 o'clock, and I assume we
22 have a few minutes for questions.

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1 So I'm going to stop talking about
2 PowerPoint slides, and maybe move from behind the
3 mike.

4 DR. SWEENEY: Thank you very much for
5 that, and we are going to take a few questions. And
6 I know there are a lot of questions, but we'll give
7 Jackie privilege this time being a North Carolinian.

8 MS. CLEMENTS: Oh, thank you, thank you.
9 So very southern of you.

10 Peter, I want to thank you for your
11 presentation. I've seen you do a part of this
12 before.

13 And I think I want to say something that
14 sort of reinforces something you said earlier. We've
15 been talking a lot about routine testing, and I think
16 it's important to have routine testing to reduce the
17 barrier for an opportunity for a person to get
18 tested.

19 However with the routine testing comes
20 the removal of the educational or counseling piece,
21 and one fo the things that you mentioned, and that I
22 have talked about, though a lot of folks know the

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1 basics of how you become infected with HIV, what they
2 don't do, like you said, is internalize that and use
3 it to protect themselves from infection.

4 So when we're talking about getting rid
5 of counseling, we're talking about getting rid of
6 providing that educational piece, routine testing
7 will reduce the barrier; just that. It will reduce
8 the barrier. However, most of the folks that we test
9 are probably going to be negative, and when they hear
10 that they won't get the education, and so they're
11 going to go back out and do what they've been doing
12 because they keep coming back getting that negative
13 result, so they don't get that information to say
14 what you're doing is putting you at risk for
15 infection.

16 And that is my big concern for - I work
17 down the street from HBCU. I test a lot of those
18 college students that come through there. And that
19 is an issue they don't understand how the risk
20 factors are actually - what they're doing, what their
21 behaviors are.

22 DR. LEONE: You know I actually agree with

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1 the CDC initiative to try to expand testing and make
2 it routine from the sense that, one, we've got about
3 a third, 25 percent of known HIV infected individuals
4 who don't know that they're infected.

5 However if you look at minority
6 communities, especially black MSM, it's much higher.

7 Some of their data would suggest that it might be 50
8 - 60 percent of these men don't know that they're
9 infected. So expanding testing is critical, and yet
10 I don't think you can do it to make it routine and
11 have all the counseling pieces in place.

12 But I do worry about cutting out
13 counseling altogether, and addressing the needs that
14 are there for high risk individuals.

15 Now on the heterosexual, married, and
16 we're in a mutually monogamous relationship. Do I
17 need HIV counseling? I don't.

18 So I think we have to recognize that
19 there may be different needs in different situations,
20 and we're going to have to figure out ways of
21 delivering that.

22 My big concern is that, and I've seen it,

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1 a negative test doesn't mean that it's okay to have
2 unprotected sex. Yet this group, I think, will take
3 their negative test as a get out of jail free card.
4 And I've seen it happen.

5 We had a case of five transmissions that
6 happened because a case of acute HIV was missed, a
7 college student thought he was HIV negative, and had
8 unprotected sex, and we saw transmission down the
9 road.

10 So the problem we get into is, I think
11 we're going to have to also counsel folks that a
12 negative test on your partner doesn't mean that you
13 don't use condoms, that you don't engage in risk
14 reduction if you're going to engage in sex.

15 And somehow that has to get out, and I
16 think we still need to provide counseling around
17 that, but it may be in a different setting outside of
18 the medical setting. I think you can't necessarily
19 do all of this at once.

20 DR. SWEENEY: I'm going to follow David
21 Reznik's model - remember he asked about 10 questions
22 because he was chair; I'm only going to ask one.

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1 Based on the 21-year-old actual case that
2 you presented, I'm wondering whether you think when
3 you're testing for HIV that the HIV/RNA antigen test
4 should be the standard instead of using antibody
5 tests?

6 DR. LEONE: Well, you ask the million
7 dollar question. I think my boss, Mike Cohen, will
8 hopefully address it, because we exchanged slides, so
9 I promised him I wouldn't talk too much about it.

10 I think we're going to need to change our
11 strategy. The antibody test works really well. The
12 problem is, you miss this window.

13 Now should RNA or antigen testing be done
14 everywhere. The problem with RNA is that it's
15 expensive and there's a time delay. But the
16 technology is certainly there to do really sensitive
17 p24 antigen testing.

18 And so I think what we're looking at is
19 probably coming up with a combined assay that would
20 do a rapid antibody and antigen test, and then you
21 can roll those folks over. That's where we need to
22 drive, I think, development.

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1 What would be even better yet, and I was
2 just in New York at NYU talking about this last
3 Monday, what we need is a point of care test that can
4 be rapid for p24 antigen. And it can be cheap now.

5 There is a company that actually is
6 marketing, not in U.S. yet, an antibody p24 combo
7 assay that would be relatively cheap compared to the
8 RNA assays.

9 So what we're doing in North Carolina is
10 to step over, I think, until we get to something like
11 that.

12 It doesn't have to be everywhere, but I
13 think in high risk settings like STD clinics we do
14 need something else besides the antibodies.

15 DR. SWEENEY: Thank you.

16 I think Dr. Bollinger, and then Ted.

17 DR. BOLLINGER: I just had a very quick
18 follow up question. Thanks again for a great talk.

19 As you move toward more routine
20 availability of some rapid testing that you're
21 describing, particularly for acute infection, it gets
22 back to a question that was raised a few minutes ago

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1 about the need for counseling.

2 One of your premises is that the acutely
3 infected people are significantly driving the new
4 subsequent infections in these networks, and so
5 without - if you have that kind of rapid test
6 available, and you are not linking counseling to
7 them, you've got a particular challenge.

8 So I think it's important as we have more
9 and more technology for more rapid testing,
10 particularly for identifying acutely highly
11 infectious people, the counseling is critically
12 important to link to that testing.

13 DR. LEONE: We need more I think
14 understanding about what's the appropriate counseling
15 message. And the nice thing about this, and actually
16 Andy's wife, Carol Golin, and I have been talking
17 about this, is with acute HIV a small change in
18 behavior for a short period of time can actually have
19 dramatic downstream benefits in terms of reducing
20 transmission.

21 So if you can get people to just change
22 their behavior for 8 to 12 weeks you can maybe have a

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1 significant impact in transmission networks.

2 DR. SWEENEY: Dr. Green.

3 DR. GREEN: Thanks for an interesting
4 talk.

5 It sounds like a very basic problem was
6 that these men didn't feel at risk for HIV infection.

7 So I was thinking about the first two countries in
8 Africa, the first two AIDS success stories, Senegal
9 and Uganda. Both countries were successful in making
10 men and women feel personally at risk for HIV
11 infection. In fact of all the countries in Africa by
12 about 2,000, women in Senegal felt more at risk than
13 women from any other country in Africa, and yet
14 Senegal has the lowest HIV prevalence of any
15 continental sub-Saharan African country.

16 Anyway the formula seemed to be fear
17 arousal, even though we don't like that term, and
18 then self efficacy, showing people clearly what to do
19 to not become infected.

20 So it sounds like with the population
21 you're dealing with of MSM/W because they were
22 college students and drove the right cars, men didn't

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1 feel at risk, so here in these countries in Africa
2 men and women were made to feel at risk, and then
3 people were told clearly what to do.

4 In the case of Uganda in particular, the
5 main message was, stick to one partner; it wasn't
6 abstinence. It was partner reduction. Or be
7 faithful to one partner.

8 So you mentioned you had a program in
9 bars. I`m wondering if you use either education to
10 make men feel at risk, when they don't - when you
11 know that that is a basic problem. And then if the
12 prevention message was, stick to one partner for
13 something, you mentioned distribution and protected
14 sex, so that sounds like condoms.

15 I wonder what your prevention message
16 was.

17 DR. LEONE: Well, the prevention message
18 was something that they developed about HIV is here,
19 they knew about the data, they needed to take steps
20 to protect themselves, so it was a self efficacy
21 model that was used. And I think it really had
22 tremendous impact, because the messenger was one of

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1 their peers.

2 I think the challenge here, especially
3 for young black men, is, they don't relate frequently
4 to what they view as gay white male message, and
5 frequently because of the homophobia that exists in
6 many of the communities, they don't want to be
7 identified that way, and I think what happens is,
8 while they're trying to explore this, many of our
9 young men come from rural counties, rural towns.
10 They come to a college campus. They're not sure what
11 they're interested in, or who they are attracted to.

12 So they experiment, or they do activities that put
13 them at risk.

14 The hard part has been delivering that
15 message in a way that's viewed as being safe, because
16 a lot of them don't want to hear it in a large group
17 setting. So I think you are right, we need to
18 deliver a broader message to men, because we don't
19 know if a person is straight, gay or bi, and the
20 truth is, in some of our minority communities in
21 particular, if you are sexually active you are at
22 risk, period. That's really all that really matters.

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1 Which is why I think we want to focus on behavior.

2 How we deliver that in a way that doesn't
3 just create fear is the real challenge, and I don't
4 know, we need more I think behavioral research to
5 figure out what is the best message or how do we
6 deliver it.

7 DR. SWEENEY: Dr. McIlhaney.

8 DR. MCILHANEY: I think that what you
9 presented, your studies were brilliant, just really,
10 really good.

11 I'm going to ask a couple of questions,
12 three questions. And I'm not challenging your
13 comments, but just to know what you have to say about
14 this.

15 First, you said 18 to 31 -

16 DR. LEONE: 18 to 30.

17 DR. MCILHANEY: Do you have a
18 distribution. Were most of these real young college
19 kids?

20 DR. LEONE: Yeah, so most of them were
21 under 25. I think the median age was somewhere
22 around 23, thereabouts.

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1 DR. McILHANEY: So they were mostly pretty
2 young people?

3 DR. LEONE: Yep.

4 DR. McILHANEY: Second, if your behavior
5 change message primarily is the usage of condoms, our
6 group, our science group, looked at the effectiveness
7 of condoms with alternative sexual behavior, oral
8 sex, anal sex, particularly. And as I remember,
9 there wasn't one good study about the effectiveness
10 of condoms with anal sexual behavior.

11 Are you familiar with one that -

12 DR. LEONE: No, I think part of the
13 problem is to be honest getting funding to do those
14 kinds of studies and how you do them. And I think -
15 so it's hard to do them.

16 But also what I want to be very clear
17 about, I believe in telling a lot of these students
18 that they should wait. No one is advocating that
19 they should go out and engage in high risk activity.

20 Nor do I want anyone to get the opinion or the
21 feeling that by talking about condoms we're saying
22 it's okay to engage in these behaviors.

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1 But the truth is for many of these
2 students they have no other venues to talk about
3 their sexuality, or to explore it. So the least we
4 can do is make sure they can protect themselves with
5 condoms. Yet there is not much information out
6 there, both pro or con, about anal transmission.

7 DR. McILHANEY: Don't get me wrong, I
8 think every one of these kids should use condoms if
9 they are - I think they should be set down in front
10 of somebody eye to eye and told you must use your
11 condoms.

12 But my question is, when we say
13 protective, if we don't have studies that show what
14 the level of protection is, we need to be
15 straightforward with what we know.

16 DR. LEONE: We have good studies looking
17 at transmission of HIV in condoms. What I'm not
18 aware is condom use specifically for anal
19 intercourse.

20 DR. McILHANEY: That's what I'm talking
21 about.

22 DR. LEONE: So I think we can look at

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1 discordant couples. We can look at population based
2 levels. And there at least the suggestion would be
3 that condoms really are very effective.

4 DR. McILHANEY: And intuition wise I would
5 say that they are probably somewhat effective with
6 anal intercourse. But we know they break a lot.

7 Anyway, I just had that question. I
8 think we need to be careful about what we know and
9 what we do tell people.

10 The other is that you made a comment that
11 you certain thing abstinence and faithfulness
12 important, and that's a message all these kids have
13 heard.

14 Do you have data on that, that these
15 kids, the primary message they've heard has been
16 about abstinence?

17 DR. LEONE: Well, I do, because North
18 Carolina is an abstinence only state, and it's been
19 that way for awhile. We have four school districts -
20 I think it's down to three now - that have a
21 comprehensive curriculum.

22 So virtually all these students, when

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1 they were coming through school, because that started
2 in the mid-1990s, heard abstinence only.

3 And the abstinence curriculum I reviewed
4 in North Carolina - I was booted off of reviewing the
5 subsequent thing - does not talk about anything other
6 than vaginal intercourse and abstaining, period.

7 So the dilemma, and I'll be really blunt
8 about this, if you are told to abstain until you are
9 married, and you only hear about vaginal intercourse
10 and you can't get married, then you are sort of told
11 if you are someone who is attracted to men, your
12 options are never to have sex.

13 DR. McILHANEY: Sure, I understand that.

14 DR. LEONE: So that's the dilemma for a
15 lot of these kids coming up to be really blunt about
16 it, and I think that that is unconscionably bad
17 public health.

18 DR. McILHANEY: The real question is, what
19 do these kids, by the time they get in college, even
20 understand or retain what they've heard.

21 DR. LEONE: They have an hour or two hours
22 of HIV education in high school, and that's it. And

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1 Jackie can tell you, and I've looked at the
2 curriculums. It's really pretty basic.

3 So we really need to - I think the
4 problem is that it's the highest risk folks that
5 we're really missing what we need to deliver. The
6 messages that are out there for lower risk
7 heterosexuals probably may be sufficient; may be not,
8 because they get other STDs, that's a whole other
9 story.

10 But around HIV we're going to need to do
11 more to target, I think, MSM, especially young MSM.

12 DR. McILHANEY: Okay, thank you.

13 DR. SWEENEY: You're on, Sandra.

14 MS. McDONALD: It is always a pleasure to
15 hear you present. I really appreciate your hard
16 work, particularly looking at college students.

17 Have you had any contact or any
18 information on any other college campuses that might
19 be experiencing young males or females who are
20 positive? Do you have any information about any
21 other college setting?

22 DR. LEONE: Outside of North Carolina?

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1 MS. McDONALD: Yes.

2 DR. LEONE: Well, I know there was some
3 work down in Atlanta that was being done, and that as
4 far as I know involved a series of meetings and one
5 town hall meeting that was conducted there. And then
6 that, so far as I know, didn't continue after that.

7 I've talked to Dot Brown who is at an
8 HBCU outside of Baltimore who has done some work up
9 at her school. That's been about it.

10 So there's been a real lack, even though
11 we've met with the college health association around
12 doing more, we need more funding to do more on the
13 campuses, and particularly, the HBCUs.

14 MS. McDONALD: Unfortunately, stigma is a
15 great barrier.

16 DR. LEONE: We talked about that, and my
17 big concern is how do you do outreach on HBCU
18 campuses who are very dependent on not so much
19 research grants but on students attending the schools
20 to survive, without their being labeled as being the
21 HIV school.

22 So when I've gone out to talk, I've

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1 actually had students, or schools, asking, well, how
2 many cases came from this school or that, which I
3 never do.

4 And the concern is that whoever steps up
5 to the plate first is going to be labeled as a school
6 that has lots of HIV and people aren't going to want
7 to send their kids there.

8 So we really need a grassroots I think
9 across-the-board effort to address this and embrace
10 it that has to happen at a much higher level in the
11 system.

12 DR. SWEENEY: Joe Grogan, and then Rev.
13 Lusk.

14 MR. GROGAN: Thanks, just quickly I have
15 two questions.

16 One is, have you been speaking on college
17 campuses at all? Is there any interest among college
18 presidents in having this message brought to
19 students?

20 And then the second question is, you
21 mentioned a couple of times about the students
22 getting missed, and getting diagnosed with maybe

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1 indeterminate viral infections. I'm wondering is
2 that because maybe nurses and doctors don't perceive
3 the students are at risk, and they're not doing these
4 tests? Maybe you could comment on that.

5 DR. LEONE: So the first question, yes,
6 Lisa Hightow, Justin Smith and I are working on
7 college campuses. We have a grant through the
8 Department of Health and Human Services, project
9 style, to do outreach on campuses in the area and
10 Raleigh.

11 It's been very successful at Central.
12 North Carolina Central has stepped up to the plate
13 big time to be involved. But even they have sort of
14 a little bit of resistance of doing even more
15 activities.

16 North Carolina A&T has also been really
17 open to activities on campus. But the problem is, a
18 lot of the college university presidents don't want
19 to be identified with HIV, and that's true in the
20 majority of universities, too. I can't get the
21 chancellor at UNC to ever address this in a broad
22 way.

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1 So I don't think it's unique to HBCUs.
2 We've only had a couple of schools.

3 Benny Primm came to speak in North
4 Carolina. We had a meeting, great attended meeting
5 at North Carolina A&T, and then the plan is, over the
6 next year, we're going to have a little college tour
7 of HIV testing days with this project style on each
8 one of the state campuses in North Carolina, so we
9 aren't just targeting HBCUs but the HBCUs in North
10 Carolina, some of them have stepped up to the plate.

11 Now getting back to the second question,
12 the problem has always been around acute HIV, as it's
13 a relatively rare event, and clinicians don't think
14 about it, and if they do they order the wrong test.
15 So we really need to do more awareness around the
16 signs and symptoms and get clinicians to start
17 thinking about it in terms of their differential
18 diagnosis.

19 The second thing is, we know who's at
20 risk, so I think there should be an awareness
21 campaign for MSM around the signs and symptoms of
22 acute HIV so that they go in and get care.

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1 Looking at the five cases that I didn't
2 talk about of the acute HIV that we had last summer
3 among college students, all of them went to be seen.

4 None of them were diagnosed the first time they went
5 in for HIV.

6 It's a real problem, and I think we have
7 to do more education around that.

8 DR. SWEENEY: Reverend Lusk.

9 REV. LUSK: Great presentation; thank you
10 so much.

11 I was just wondering, could you give me
12 just a little more information, detail, on what you
13 felt the confusing or the conflicting message was on
14 the Oprah show regarding the "down low" message, and
15 how it conflicts. And also these numbers are really
16 kind of frightening, particularly just hearing you
17 say that many college presidents are not even open to
18 discussing the situation.

19 Some type of rejection if it's not dealt
20 with, if there is no intervention, how bad could it
21 be in your estimation?

22 Those are the two questions I have.

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1 DR. LEONE: Pretty bad. I don't think we
2 know the extent of it. And the problem is I see
3 continued transmission that is happening on the
4 campuses. And again because these networks are
5 small, I really think that we are sitting on the
6 precipice of the significant problem on our campuses.

7 We're now up to 153 cases, and I
8 anticipate by the end of the year when we do our
9 sweep for the last year we'll be probably close to
10 180 to 200 cases, somewhere in that ballpark, since
11 the beginning of this. So that is significant.

12 I think that I worry about it actually
13 moving more into the middle class, because this is an
14 ever-revolving population. Students are in for a
15 couple of years and then leave, and they go back to
16 their hometowns or communities, many of them
17 undiagnosed. So we don't know how many students
18 we've missed.

19 The confusion I think with the Oprah show
20 was the fact that black men in this country have been
21 marginalized, pushed to the side, stripped I think of
22 a lot of dignity that's been there. To have a show

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1 which focused on sort of raising the suspicion that
2 black men are again transmitting a disease, not only
3 to other black men but to women, in my estimation,
4 can further marginalize the group that we are trying
5 to reach.

6 And the truth is that, in looking at the
7 college students, virtually none of them were quote
8 unquote on the down low. The majority of them
9 identified as being bisexual. They weren't open
10 about necessarily talking about wanting to fit into
11 one slot or the other with a definition. But they
12 didn't have this sort of I'm heterosexual and I
13 actually have sex with men on the side mindset.

14 So although I think it's probably real,
15 my concern is that it's sensationalism; it doesn't
16 really get down to dealing with the core issues here
17 about behavior and understanding how to deliver
18 message.

19 And I think as long as we talk about
20 trying to identify who it is who can give me quote
21 unquote HIV we never get down to the basic issue,
22 which is, you have to be responsible for yourself,

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1 and if you are someone who is dealing with your own
2 sexuality, you need to find out what your own status
3 is and protect yourself as well.

4 And that's what I worry about. Actually
5 Oprah asked me to come down to the show, and I said
6 no, because I didn't like where the show was going to
7 go. Initially it was going to be talking about
8 college students, and then the next thing it was
9 going to be about the book. So I stayed at home.
10 One of our college students actually went and was
11 interviewed. And J.L. King has made a lot of money
12 off this.

13 DR. SWEENEY: We have time, and the two
14 hands were David Reznik and Dr. Redfield.

15 David, you get to ask one question.

16 DR. REZNIK: The abuse I take.

17 My question is, any training going on for
18 the clinicians at these colleges to recognize acute
19 HIV syndrome, and if you knew how many of them
20 present with candidiasis, just out of curiosity.

21 DR. LEONE: Yeah, it's a small number that
22 present with candidiasis. I've looked at the

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1 presenting symptoms, and it's small. It's somewhere
2 less than 10 percent. I think it's actually down
3 around three to five percent. So we've seen it, but
4 it's relatively rare.

5 We've done some education. We haven't
6 done enough. We've met with the colleges. We've
7 talked about this. We talk about acute HIV. We're
8 actually trying to do a series of interventions
9 across the state now to sort of take it on the road,
10 but again, I think we need a lot more help. There's
11 only a handful of us going out there doing this, so
12 we've met with some of the student healths early on
13 with this thing, and they've been on board.

14 I still get pages and phone calls from in
15 particular some of the student healths in the area,
16 but I still think we're missing it. Because the
17 students unfortunately don't necessarily go to
18 student health. When we went to North Carolina A&T
19 what I was impressed, things haven't changed much
20 from when I was a college student. Students are
21 afraid that they get diseases from going to student
22 health, rather than student health helping.

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1 So we had a big meeting at A&T and I
2 swear they went on for 15 minutes how people were
3 coming back with urinary tract infections from going
4 to student health and being seen. And so like whoa,
5 let's get back to the issue here.

6 Unfortunately, they go back to their
7 primary care providers quite often in North Carolina
8 because they have insurance, or because they don't
9 want to talk about their sexuality, and they get
10 missed.

11 So I think we've worked on student
12 campuses, we've worked with the coalition of college
13 student health, but we need to do more.

14 DR. REZNIK: Just to follow up there is a
15 very good AIDS education and training center,
16 Southeast AIDS education and training center, which
17 is based out of Emery, that has a presence in North
18 Carolina. And maybe they should focus on training
19 the clinicians to recognize acute HIV.

20 DR. LEONE: Well, I've met with Robin
21 Swift who is at Duke, and we've talked about this.
22 We actually have posters now that we're distributing

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1 and little cards, so we're going to be sending those
2 out.

3 The problem is, we tried to set up some
4 meetings, and we didn't get any hits from the
5 clinicians on wanting to give talks. We had three of
6 us that had agreed to give talks through that
7 training center in North Carolina.

8 So again, I think we're going to have to
9 push the agenda on this, because I think many
10 clinicians just don't think it's important.

11 DR. SWEENEY: Before Dr. Redfield, are
12 condoms easily available in North Carolina without
13 waiting to ask the clerk or go behind the - you know,
14 they're put behind the desk so you have to ask -
15 behind the counter so you have to ask for them? And
16 are there free condoms available on campuses?

17 DR. LEONE: There are free condoms, and
18 Jackie can comment on -

19 MS. CLEMENTS: There - well, on campus,
20 I'm not sure how available they are.

21 DR. LEONE: I'll tell you a story which is
22 still a little disturbing. Go ahead, Jackie.

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1 MS. CLEMENTS: But they can go to any
2 health department, they can come to where I work and
3 get free condoms. But they are not just sitting out,
4 and you do have to ask for them.

5 And also with response to David's
6 question, students don't like to go to student health
7 to get tested. They don't like to be tested at
8 student health because of their concern that the
9 information may get out. Students work in student
10 health, and so they don't usually go there for
11 testing.

12 DR. LEONE: So condoms are available
13 through all our publicly funded clinics for free, but
14 you usually have to come up and ask for them, which
15 is a barrier.

16 In terms of college campuses, it really
17 varies. Some of the schools that are more religious
18 based, we've worked with, are now at least beginning
19 to approach having condoms, but many of them didn't
20 like the idea of having condoms.

21 But even on our status campuses, UNC in
22 particular, they have free condoms that are

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1 available, but the students aren't actually allowed
2 to physically hand them to someone. They have to be
3 in a bowl or a bag or out, and the reason is that one
4 of the former chancellors didn't like the idea that
5 they were handing out condoms and said that you can't
6 do that.

7 So there is no written rule about it, but
8 a sort of unspoken rule on campus. So my suspicion
9 is that if that is true at UNC which is viewed as one
10 of the more liberal campuses in North Carolina, you
11 can think about the barriers that exist on some of
12 the other campuses.

13 DR. SWEENEY: And Dr. Redfield, you'll
14 have the last.

15 DR. REDFIELD: I'll shift gears for a
16 second.

17 Peter, again, I think people know, again,
18 really to congratulate you and your team over the - I
19 think it's been almost three or four years now I've
20 been following the idea of trying to diagnose HIV
21 infection using viral detection methods by pooled,
22 and you've obviously demonstrated it and its

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1 effectiveness.

2 I'd be interested from your perspective,
3 because I again, having been in this now for 25
4 years, I know when we got the antibody test, the
5 public health service fairly rapidly applied that,
6 for its prevention consequences.

7 I think you can make a very compelling
8 argument that sero-negative HIV infection,
9 particularly among young people that are sexually
10 active and STD clinics in particular, a lot of the
11 epidemic is driven by that population; a lot of work
12 has shown that. So what's it going to take to try to
13 take these evidence based data that your state has
14 provided and you have done to try to more effectively
15 integrate that into a public health approach?

16 DR. LEONE: I think it's going to take
17 more data than just North Carolina. And we talked
18 about this. I've been out to Colorado and Denver.
19 Frank knows. Literally we've been going from state
20 to state to try to push this.

21 Now I'll give my little beef here. I
22 shouldn't in North Carolina be the person going out

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1 there having to push the agenda countrywide. I don't
2 mind doing it; it's fun; I like working with my
3 colleagues.

4 But there really should be a more bigger
5 buy in at the federal level around this. Instead
6 what we got is a demonstration project which is
7 great, but it's been saddled with too many questions,
8 and it's going to take another five or 10 years
9 before this gets rolled out.

10 And I don't think you need more data. At
11 some point you respond to what you know in HIV,
12 because by the time you wait for more data you're
13 five or 10 years down the road.

14 So we can do this; we can do it cheaply.

15 We know where we need to target this. And I think
16 STD clinics is a great place to start. We should be
17 doing it, but we need more help and support.

18 Upstate New York is doing this, but
19 they're doing it on their own. Colorado and Denver is
20 going to be doing this, but they're doing it on their
21 own.

22 This is the story across the country.

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1 DR. REDFIELD: I'd just like to echo that
2 point of view. It's sort of frustrating to see
3 commonsense and public health and then to have
4 evidence based data show this with the perseverance
5 that your group has done to take it through the
6 different steps to make this practical, and then
7 demonstrate its practicality.

8 And I think this is an area where the
9 public health service in particular, on the federal
10 level, needs to be much more aggressive in trying to
11 see this implemented.

12 DR. SWEENEY: I `d like to thank you
13 again. You wanted discussion. You knew you could
14 count on us for a very lively discussion, and I hate
15 to cut it short.

16 I hope you'll be here -

17 DR. LEONE: I'll be here.

18 DR. SWEENEY: -- you'll be here so that
19 we can get you at lunchtime, because there are other
20 people who have questions.

21 Thank you again very much.

22 DR. LEONE: Well, thank you for the

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1 privilege of being here. Thank you very much.

2 (Applause)

3 DR. YOGEV: Can we discuss a new committee
4 that PACHA recommend to revive p24 antigen? p24
5 antigen was killed. The two companies that did it
6 and are still doing it, because it doesn't detect
7 less than 10,000 as effectively. But acute
8 infection, what's unique about it is, if you notice,
9 six million. That's exactly what happened in the
10 pediatric, and we cannot get p24 antigen.

11 P24 antigen is so cheap if you do it
12 enough, and maybe PACHA should push to encourage
13 companies to produce it and people to use it, and
14 here you have one of the indications, it would be
15 very important to push it forward. It would be
16 cheaper than the ELISA. It was cheaper than the
17 ELISA.

18 (Off-mike voice)

19 DR. SWEENEY: Joe is taking notes on
20 things we need to follow up on, and that will be on
21 the list of things that we need to address, and thank
22 you.

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1 At this time we are going to move the
2 program to our next speaker, Dr. Andrew Kaplan,
3 professor of medicine and microbiology at UNC School
4 of Medicine. And he's one of the founders of the UNC
5 Prison Work Group, and he will be speaking to us, I
6 have on my paper, HIV and Incarceration, but on the
7 slide, we have Collateral Damage Incarceration: HIV
8 in Vulnerable Communities.

9 But he's before us to speak on
10 incarceration and HIV.

11 Thank you very much.

12 HIV AND INCARCERATION

13 DR. KAPLAN: Yes, thank you very much.

14 I think before I begin it's at least
15 worth acknowledging that following Dr. Redfield's
16 comments about North Carolina, there have been three
17 consecutive speakers from North Carolina. So I'd
18 like to express my condolences.

19 In any event we're going to talk today
20 about the impact of incarceration on the treatment of
21 people living with HIV, as well as the spread of the
22 epidemic through vulnerable communities.

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1 I feel that this title is a particular
2 apt one, because we have come to understand, and we
3 hope to convince you, that incarceration is an
4 important barrier to the effective treatment of HIV
5 infected people, and it also plays an important role
6 in encouraging the spread of the epidemic through
7 vulnerable communities.

8 So I'm going to talk a little about the
9 setting of incarceration and the overall impact of
10 incarceration; the spread of HIV within prison;
11 medical treatment in prison; HIV testing in prison;
12 and then the special case of county jails.

13 Following my talk Dr. David Wall is going
14 to talk with you about the transition from
15 incarceration to freedom for HIV-infected patients.

16 Before I begin, though, I need to
17 acknowledge our collaborators. As we heard we're
18 members of the UNC prison working group. And here
19 are the people that are part of that group and have
20 done a lot of work that I'm going to speak with you
21 about.

22 And we've heard a lot today about

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1 funding, and I also need to acknowledge the people
2 that have provided the money for the work that I'm
3 going to tell you about. Pretty much all the data
4 that I'm going to show you has been funded by grants
5 from the National Institutes of Health, specifically
6 the National Institutes of Mental Health and the
7 National Institutes of Drug Abuse, and at NMH it's
8 Chris Gordon, Andrew Forsyth, David Stott and Dianne
9 Rausch; and NIDA it's Elizabeth Lambert.

10 And these people in addition to providing
11 the funding have provided a lot of the intellectual
12 support as well as the guidance, and we're thankful
13 to them.

14 So it really is no exaggeration to say
15 that minorities in general, and African-Americans in
16 particular, reside at the intersection of two
17 powerful overlapping and ultimately reinforcing
18 epidemics. Those epidemics are the epidemic of HIV
19 infection, and the epidemic of incarceration.

20 Black Americans are as you know black
21 Americans are at risk of acquiring HIV at rates that
22 are severalfold higher than white Americans. Sixty

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1 percent of the prison population are racial or ethnic
2 minorities. As you can see about 12.6 percent of all
3 black men between those two ages are in prison or
4 jail.

5 And then finally the prevalence among
6 inmates is about eight to tenfold higher than in the
7 general population.

8 As I said I'm going to talk about the
9 setting and impact of incarceration, and I'd like to
10 think about it in different levels starting with
11 society.

12 First of all incarceration reflects a
13 tremendous diversion of resources from other things
14 we could be doing with them. For example North
15 Carolina, the budget of the department of corrections
16 is about a billion dollars a year, which is just
17 about the same as the budget for the division of
18 social services and the same as the budget for the
19 division of mental health and substance abuse.

20 There is one example you can use. About
21 three million children have a parent in prison.
22 That's about five percent of the children in the

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1 country have at least one or both parents in prison,
2 and as you might imagine children with parents in
3 prison are at risk for a number of bad outcomes,
4 including about a fivefold risk of becoming
5 incarcerated themselves.

6 And then finally I think it's worth
7 noting the sort of what I think is the morally
8 corrosive effect of having all these prisons, keeping
9 all these people under incarceration, and spending
10 all this money on this one thing.

11 It's interesting, those of you who are
12 familiar with the work of the early abolitionists,
13 they talk a lot about the moral depredations of
14 slavery, particularly the obviously the effect on
15 slaves. But they also spend a lot of time talking
16 about the morally corrosive effect of slavery on the
17 slaveholders, and I think that's something that
18 affects all of us, and that we need to consider when
19 we talk about this debate.

20 In terms of the national level at any one
21 time about two million people are incarcerated in the
22 United States, and this is a 300 percent increase in

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1 the last 25 years.

2 As far as the state prison systems are
3 concerned, about 600,000 people are released every
4 year, and we'll hear more about the impact of that
5 from Dr. Wall later, but it's important to note that
6 not only do you have two million people in prison,
7 but there is a tremendous churning of people going in
8 and out of prison which causes disruption of social
9 networks as well as lost economic opportunity.

10 The county jails, ten million people pass
11 through that system every year. One out of every
12 five of the HIV infected people in the U.S. will pass
13 through the correctional system every year, making
14 the point that there is a tremendous overlap between
15 HIV and incarceration.

16 And then finally it's been estimated that
17 if current trends continue, about one out of 20 of us
18 can expect to spend a night in jail sometime during
19 their lifetime.

20 I'd just like to do sort of a little
21 prison 101 just to kind of get you up to speed in
22 terms of the system of incarceration. There are -

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1 virtually all of the people that are incarcerated in
2 the United States are kept at one of three levels of
3 incarceration. There is the federal penitentiary
4 system. These tend to be older inmates. They're in
5 for longer periods of time. And the medical system
6 in the federal penitentiaries tend to be in house
7 systems in which all the doctors are employed by the
8 federal government and they have prison hospitals et
9 cetera.

10 At the next level, and what I'm going to
11 talk mostly about, is the state prison system. Each
12 state has an integrated system of state facilities.
13 Usually quite a few; in North Carolina it's about 87.

14 These are different levels, maximum, medium and
15 minimum level security.

16 The inmates are a little younger.
17 They're usually in their early 30s. The average
18 length of sentence is three to five years. In terms
19 of medical care there is usually a hybrid of prison
20 docs that are employed by the state, as well as
21 usually some contract people.

22 And in fact that's what we do; we provide

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1 the HIV care for the North Carolina Department of
2 Corrections.

3 Finally, there is a different entity, and
4 these are the county jails. And these are very
5 different from the other two. Usually these are run
6 as independent entities by each country, generally
7 run by the county sheriff. They have a very high
8 turnover. The average length of incarceration is on
9 the order of 48 hours. Police bring people to the
10 county jail straight off the street, so there are a
11 reasonable percentage of people who are either drunk
12 or high or actively psychotic.

13 Because they are each run by the
14 individual counties, although there is - there are
15 rules in terms of how they need to be managed, and
16 how the medical care needs to be delivered, as you
17 might imagine, this is the level of incarceration at
18 which there is the most amount of variability, and
19 I'll talk a little about that at the end of my talk.

20 The impact of incarceration at the
21 community level, in the United States there is about
22 one white man for every white woman. In terms of the

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1 African-American community, there are about nine
2 black men for every 10 black women, so the ratio is
3 somewhat skewed.

4 That's in part due to the fact that the
5 African-American men die at greater rates than white
6 men, but it's also due to the fact that so many
7 African-American men are in prison. AS you can see
8 about one-third of black men between the ages of 20
9 and 29 are under correctional supervision, either in
10 prison or on parole.

11 And then finally as far as the community
12 is concerned, you know prisons are dangerous places.

13 There are a lot of people who are there for drug
14 crimes. And I think when you have so many people go
15 in and out of prisons, what eventual you'll see,
16 certainly you're at risk of seeing, is a
17 normalization of incarceration itself, as well as a
18 change in the normative community values in terms of
19 what's okay in terms of sex, violence and drug use,
20 what's acceptable.

21 Here's a study that was conducted by a
22 colleague of ours, a member of our group named Dr.

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1 Ada Adimora. She looked at about 250 black men and
2 women with and without HIV infection in North
3 Carolina.

4 So comparing the HIV-infected men with
5 negative men, she found that the infected men were
6 sixfold more likely to have had a sex partner who had
7 been incarcerated; the HIV-positive women were
8 fourfold more likely to have an incarcerated partner;
9 about 81 percent of the HIV-infected women reported
10 that at least one of their last three sexual partners
11 had been incarcerated; so four out of every five
12 women knew that one of their last three sexual
13 partners were incarcerated.

14 And then finally, about a quarter of the
15 HIV-infected women, and about two-thirds of the HIV-
16 infected men, had themselves been incarcerated during
17 the past 10 years.

18 And obviously their individual impacts of
19 incarceration affects, obviously affects your
20 employment prospects, benefit eligibility. For
21 example in North Carolina if you've been convicted of
22 a drug crime you're ineligible for food stamps for

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1 six months following you release from prison.

2 Once again, you'll hear more from the
3 next speaker about all the challenges associated with
4 reintegrating into society, so now we're saying that
5 in addition to those we're not going to help you find
6 food for six months if you're convicted of a drug
7 crime.

8 They're disruptive of social and family
9 networks. Prison itself can be a brutalizing
10 experience, as we'll hear in a minute. And then
11 finally I'll talk a little bit about HIV transmission
12 itself within prison.

13 So before we begin to talk about the
14 inmates themselves, it's probably important to think
15 about who is getting incarcerated. What's the
16 population that's getting incarcerated?

17 And due to limitations of time, I'll just
18 focus on one thing, which is the experience of
19 violence for the people who are incarcerated, and
20 talk specifically about women.

21 There are a number of studies that have
22 been conducted, but in general, they report that

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1 between 10 and 90 percent of women have been the
2 subject of violence.

3 In a study that was conducted by another
4 member of our group, Kathy Fogel who is a professor
5 at the UNC School of Nursing, she - we're conducting
6 a randomized control trial of an intervention to
7 limit HIV risk behaviors of HIV-negative female
8 inmates upon release.

9 And one of the things we did is, we
10 collected data about their experiences with violence,
11 and the results are shown here. What you see is 81
12 percent of them report that they have ever
13 experienced violence or abuse. About half of them
14 have said that they have ever been forced to have
15 sex. About half of them also said that they were
16 hit, kicked, slapped, physically hurt in the last
17 year. Three quarters say that they were physically
18 or emotionally abused. Ironically only 10 percent
19 say they are afraid of a partner or someone else.
20 And about two-thirds said that they ever felt unsafe.

21 To look at those numbers a little more,
22 of the women who said they were physically hurt, hit,

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1 slapped or kicked in the last year, they reported
2 that this happened an average of 32 times in the last
3 year, so about once a week or so these women were
4 physically abused.

5 As far as who is conducting it, once
6 again to give you a sense of what their lives are
7 like, almost all of this violence is intimate partner
8 violence; it's almost all people they know, either a
9 partner or an ex, in terms of who's hitting them,
10 who's abusing them, and who is making them feel
11 unsafe.

12 Now to move to HIV transmission within
13 prison, it clearly occurs, although there is not a
14 lot of data saying how much.

15 Here is an example of a syphilis epidemic
16 in the Alabama Department of Corrections that was
17 evaluated by the CDC, and you can see the number of
18 cases increasing.

19 Just in case you thought that there
20 wasn't sex going on in prison, here is another
21 example of the social networks that Peter so
22 eloquently described.

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1 Here is someone that is infected with
2 syphilis, and these lines indicate sexual contact
3 between this person and this person. This guy had
4 sex with nine people, and this person had contact
5 with six people in prison. So this is something that
6 occurs, and certainly presents a risk for HIV
7 infection.

8 Now a more thorough study was recently
9 reported by the CDC and the MMWR in April. And what
10 they did is, they looked at HIV transmission in the
11 Georgia state prison system. So in 1998 Georgia
12 implemented a policy in which everyone entering
13 prison was tested for HIV. And then people were
14 tested again later on a voluntary basis. So inmates
15 were tested at the beginning, all of them, and some
16 of them, for whatever reason, decided to get tested,
17 or if there was a medical indication that they should
18 get tested, they were tested.

19 And what they found during a seven-year
20 period is, 88 male inmates were negative when they
21 came in but turned positive sometime during their
22 incarceration, which indicates they were infected

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1 while in prison.

2 Remember this is a lower estimate of the
3 number of people, because although they tested
4 everyone when they came in, they didn't test
5 everybody again, so we're certainly missing some
6 people.

7 The Georgia Department of Corrections has
8 about 45,000 inmates. The median age is 34 years,
9 and about two-thirds are blacks. This is a
10 reasonable approximation of all the state prison
11 systems in the Southeastern United States.

12 About two percent were known to be HIV
13 infected, and among those the overwhelming majority
14 were African-American.

15 To look for a minute at the people who
16 were infected in prison, 54 inmates reported have
17 male-male sex while in prison. About three-quarters
18 of those reported no male-male sex during the six
19 months before incarceration, and this gets to another
20 idea of sexual identity and sexual behavior. These
21 are people who at least six months before prison had
22 no male-male sexual contact, but while in prison had

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1 that, so there is some suggestion that there might be
2 more male-male risk behavior when you're incarcerated
3 for a long period of time with just other men.

4 Among these, about three-quarters
5 reported consensual sex, and 89 reported sex only
6 with other inmates.

7 Of the 43 inmates who reported consensual
8 sex, 30 percent reported using condoms or other
9 improvised barrier methods - things like rubber
10 gloves or Saran wrap.

11 Of the 14 inmates who had sex in return
12 for something else, about 3 reported using improvised
13 barrier methods but not condoms, and no barrier
14 methods were used during rape.

15 I think it's important to step back and
16 consider this for a moment, what this means. So
17 these are people that were convicted of a crime, that
18 we've put in prison. They're incarcerated; they're
19 under our supervision. We can't protect them from
20 getting raped. We can't protect these men under our
21 supervision from getting raped.

22 In addition, in almost every jurisdiction

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1 in the United States, it's not permitted to have
2 condoms in prison. So these are guys who are using
3 Saran wrap. They understand they're at risk. They
4 try to protect themselves; but we deny them the means
5 to protect themselves.

6 Here are the people that are most at risk
7 in that study in terms of a multiple variable
8 analysis. If you had male sex in prison, if you
9 received a tattoo in prison, or if you are African-
10 American, you are more likely to be infected.

11 Perhaps more troubling is this
12 information that if you body mass index is under 25
13 at entry you're at greater risk of infection.

14 The body mass index, or the BMI, is an
15 overall measure of your size. It takes into account
16 your weight and your height. So in other words, just
17 to give you a frame of reference, my BMI is about 23.

18
19 So smaller people, smaller men, were at
20 greater risk of infection. And whether that's
21 because they were more likely to have sex, or were
22 less able to defend themselves against sex, is not

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1 clear; but it's certainly troubling.

2 It's interesting, medical treatment in
3 prison, there is a fair amount of data, although
4 there is a lot of variability, you've all heard the
5 horror stories, there is a fair amount of data that
6 medical treatment in prison is actually better than
7 comparable people get on the outside or the same
8 people get on the outside.

9 And here's a review of studies of
10 pregnancy. These are women who gave birth in prison.

11 And what you can see from that top panel there is
12 that women who give birth in prison are shown up
13 here, and these are compared to themselves to the
14 same women who gave birth out of prison, or compared
15 with these controls. And what you can see here is
16 the risk of having a low birth weight infant.

17 Women who give birth in prison are about
18 half as likely to have a low birth weight infant as
19 women who give birth - when the same women give birth
20 on the outside. And I think that is a measure of
21 what it means to take people out of a chaotic
22 environment and provide them social service and free

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1 medical care.

2 And it's also telling that as horrible an
3 environment as prison is, it's better for these
4 people medically than when they're out of prison.

5 Here's some data that was published by
6 one of our colleagues, Becky Stevenson White, and
7 what you see here in the gold bars are the viral
8 loads of people who stayed in prison, and the red
9 bars, you see the viral loads of people who were
10 released and then reincarcerated. So the gold bars
11 are much lower indicating that the viral loads are
12 better controlled than after people are released.

13 I only have one slide for HIV testing in
14 prison, because almost nothing is known about HIV
15 testing in prison. Nineteen states have mandatory
16 testing; 31 states that incarcerate about 70 percent
17 of the state prison population, prison testing is
18 voluntary.

19 We have recently submitted a proposal to
20 do HIV testing anonymously in all of the inmates
21 entering the North Carolina Department of
22 Corrections, to look at what encourages testing, and

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1 to look at the risks associated with getting
2 diagnosed in prison in terms of abuse or violence.

3 There is a fair amount of data to suggest
4 that the people who decline voluntary testing when
5 they get to prison are the people most at risk of in
6 fact being HIV infected.

7 And then finally to end with the special
8 circumstances in talking about jails, remember I told
9 you that jail is a fairly chaotic environment with
10 high turnover. This is a study that was done by one
11 of our students, someone named David Rosen. And he
12 surveyed all the county jails in North Carolina. He
13 found that only a quarter tested more than one person
14 for HIV per month. In three-quarters of the jails
15 the health screening form was administered in a
16 common area, typically to a group of inmates.

17 So essentially what you're saying is that
18 in the last 12 hours all the inmates that are
19 incarcerated get into a room like this, and a prison
20 guard will ask, who wants to be tested for HIV, raise
21 your hand? Obviously it's not an optimal setting.

22 Corrections officers then administer the

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1 screening form in virtually all the jails and
2 dispense medication in four out of five of the jails.

3 And as you might imagine these are not people that
4 are trained as pharmacists; they are not people
5 trained to do health screening. And it's an
6 inherently coercive environment. So this is
7 obviously not the best way to get sensitive health
8 information from a newly incarcerated person.

9 And in terms of confidentiality, all the
10 medical staff and all the offices agreed with the
11 statement that if an inmate is taking medications in
12 jail, other inmates will know about it.

13 So I'll stop there and let my colleague,
14 David Wohl, take it from here.

15 DR. WOHL: I want to thank the board for
16 the invitation to present to this group, and I'll
17 just jump in so we don't lose any time.

18 As Andy mentioned we are providing HIV
19 care in North Carolina to the state of North Carolina
20 Department of Corrections, and also are doing the
21 work that we've talked about here.

22 So I'm going to just capitalize on the

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1 background that Andy gave you and try to make several
2 points.

3 One is that incarceration fuels the HIV
4 epidemic through the modes that Dr. Kaplan has gone
5 over, and I'm going to capitalize again on some of
6 the themes, indicating that we felt HIV is fostered
7 by incarceration, by the disruption of the existing
8 relationships, personal relationships that people
9 have before they're in prison and after they get out.

10 And that there may be prompting of risk behaviors
11 in and out of prison. I'll go over some of those
12 data.

13 As Dr. Kaplan mentioned, HIV care in most
14 prisons and some jails is good, but I think the
15 benefits that are accrued during incarceration are
16 usually lost after release as we saw with the
17 increasing viral loads of people after they get out
18 of prison.

19 And I think in the absence of a reduction
20 in the absolute number of people we incarcerate, who
21 are at risk for HIV infection, the transition from
22 prison or even jail to the community is probably the

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1 best opportunity we have to reduce the contribution
2 of imprisonment to the spread of the virus.

3 Some points that are worth thinking about
4 again and emphasizing is that, again, one out of
5 every five persons living with HIV infection passes
6 through a correctional facility, so there are
7 opportunities that we can leverage in order to impact
8 the effect of incarceration on HIV, and also, HIV on
9 communities that people return to.

10 And I think it's also important to
11 recognize that the vast majority of persons who are
12 incarcerated do not stay in prison for a very, very
13 long period of time, especially HIV infected persons.

14 For men the mean duration is about two years, and
15 for women, it's probably half of that. Women get
16 incarcerated for other types of offenses, and usually
17 petty crimes that carry shorter sentences. So people
18 are cycling in and out of prisons and into the
19 community at an astounding rate.

20 So we've gone over some of the
21 disadvantages, and I'll point these out again, of
22 incarceration as far as HIV is concerned, and

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1 incarcerating large numbers of persons, especially
2 persons of color, can have deleterious effects,
3 socially disruptive, just as we've talked about, a
4 removing a significant number of men from a community
5 can contribute to some of the behaviors that we're
6 trying to avoid as far as HIV transmission, and that
7 gender imbalance that Dr. Kaplan mentioned.

8 In prison HIV transmission does occur,
9 and the Georgia data are very insightful there. But
10 again in the context of how many people are infected
11 in Georgia in the Department of Corrections, it seems
12 that just a small percentage of those who are
13 incarcerated with HIV in that system acquired their
14 infection in prison, and a great majority came into
15 prison with their HIV.

16 I'll show you data that indicate that
17 there are probably increase risk behaviors by people
18 after they're released from prison, and that there
19 may be increased risk behavior by the partner who
20 remains in the community.

21 So there are all sorts of effects that
22 are going on both within prison and outside of

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1 prison.

2 There are advantages of course to
3 incarceration, and this has been pointed out as well.

4 It's a point of opportunity for HIV testing. Many
5 states do a better job of that than others.

6 Transmission risk reduction interventions can also be
7 applied. You have a captive audience, and effective
8 evidence-based interventions can be applied and can
9 be effective.

10 In prison HIV treatment improves the
11 health and potential productivity of the individual
12 inmate, but possibly even has benefits after the
13 person gets out, and reduces infectiousness, as
14 you'll hear more about I'm sure in the next day or
15 two. HIV therapy can reduce the amount of virus that
16 is in the blood plasma, and by extension, in
17 different compartments within the general tract, and
18 reduce infectiousness, so there could be a public
19 health benefit that should be realized as well.

20 And effective discharge planning if done
21 correctly can link people to community resources that
22 they may not have accessed prior to their

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1 incarceration.

2 So who are the people who are getting out
3 of prison? Well, our research and others indicate
4 and paint a picture of a very complicated setting,
5 where most people have no home to go to. The
6 majority of people in our system don't have a stable
7 setting in which they will return. Our work also
8 demonstrates that more than 50 percent of the people
9 require ongoing mental health care either for
10 depression, other mood disorders, or psychoses.
11 Almost all need substance abuse counseling,
12 especially HIV-infected individuals who have largely
13 incarcerated for drug-related crimes; job training;
14 parenting classes; go without saying.

15 And then ongoing HIV transmission risk
16 reduction is becoming an important feature, we think,
17 in people who are HIV infected. Certainly everyone
18 who is HIV infected needs HIV care.

19 So I'm going to capitalize a little bit
20 more and expand upon the last two points that are
21 being made here. We've done some work looking at the
22 effective release of people who are HIV infected on

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1 behavior and access to care. So this is a
2 prospective observational study of over 170 HIV-
3 positive persons; 74 percent were African-American
4 reflecting the population in North Carolina
5 Department of Corrections, and almost 60 percent were
6 women. Again, more women are incarcerated for
7 shorter periods of time, so there are more women who
8 are released relative to men, even though their
9 numbers are smaller in the prison system.

10 So there are two groups we were studying.

11 In blue is the group that we interviewed before they
12 got out of prison, and then an average of around 36
13 days after they got out of prison.

14 So the blue will code for people who were
15 interviewed in those two time points. We also took
16 advantage of people who were coming back into prison
17 after a delay, so these were people who were released
18 and then came back into the prison, and we interview
19 them when they came back into prison. These two
20 groups are mutually exclusive; these are not the same
21 people. So we have the two cohorts that I'll go
22 over.

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1 So for people who are released, when we
2 interviewed them about a month after they were
3 released, 100 percent had received HIV medications at
4 release, and that's pretty standard at most
5 department of corrections. You'll get a 30-day
6 supply or basically what's left over in your pill bin
7 and given to you when you get out the door along with
8 prescriptions and maybe some appointments.

9 The mean number of days of the supply was
10 about 32 days, which is about right. And then since
11 release, though, 17 percent have gone without
12 medicines of a lapse of at least two days. And most
13 of these when we asked them more about it is, they
14 run out or they lost it. And as far as accessing
15 care, 41 percent had not seen a health care provider
16 since they've gone out. This is any type of health
17 providers, emergency room or routine appointment.
18 And 46 percent felt that their health was better than
19 when in prison. The other proportion obviously felt
20 the opposite.

21 When we at recidivists, people who had
22 been incarcerated and then were freed for a period of

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1 time, and the mean duration of freedom was a little
2 over a year, you see a greater opportunity to have
3 more trouble. Thirty four percent, or a third, who
4 were on medicine run out of medicine while they were
5 free. And the mean time from release to running out
6 of medicine is about 159 days, and the length of time
7 offered therapy of course is over 200 days.

8 They did not receive care while free, a
9 third of them; hospitalized, almost a third as well.

10 And most people agree, you could read this yourself,
11 but they had trouble accessing and using care while
12 they were out.

13 Again homelessness being in a halfway
14 house or shelter was common as was substance abuse,
15 relapse.

16 Importantly we asked these people about
17 their sexual behaviors, and for the people when we
18 interviewed them prior to their release, almost 80
19 percent had indicated they had unprotected sex during
20 the year that they were - the year before they were
21 incarcerated, and then when we followed up with them
22 a month after they were out, already 26 percent had

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1 had unprotected sex. And I should tell you, there is
2 quite a bit of counseling that does go on in the
3 North Carolina Department of Corrections regarding
4 safer sex.

5 When you looked at recidivists who
6 epidemiologically were no different from the cohort
7 listed in blue, but had more opportunity to practice
8 unsafe sex, again, we're seeing numbers approaching
9 70 to 80 percent of people who indicated they had
10 unprotected sex while they were outside of prison.
11 All these people knew that they were HIV infected.

12 Rates of unprotected sex were fairly
13 high, especially among their main partners as opposed
14 to casual partners; and they believed - most of them
15 believed that about half their partners were HIV
16 uninfected. And a third of each group felt it was
17 somewhat or very likely they would infect one of
18 their partners.

19 So Dr. Kaplan went over this, and this
20 has implications. If we see that there is increased
21 risk behavior when people leave prison, and this
22 slide shows you - these are couplets, so each of

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1 these colors are one person. So the yellow
2 represents the viral load in the blood fo someone
3 getting out of prison, before they get out of prison,
4 and the red is what their viral load is when they got
5 reincarcerated. And about 42 percent of people in
6 North Carolina get reincarcerated who are released.
7 So you can see the people who stay low are yellow and
8 red are at the same level. You can see the majority
9 of the slide is red, and that people that started out
10 with a very low viral load or undetectable, and then
11 came back in prison with a very high viral load.

12 So you can see this is a perfect storm of
13 increased risk behavior, and high levels of virus,
14 probably also in general secretions.

15 And that's important, because other data,
16 I won't get into it, that the amount of virus you
17 have in your blood predicts whether or not you're
18 going to infect your uninfected partner.

19 So what can we do to make transmission
20 more successful? I don't really have any very good
21 answers, because we don't have a very broad
22 collection of data to guide us.

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1 Education certainly is something we could
2 center our thoughts on. And there are different
3 types fo educational interventions, motivational and
4 skill building, educational counseling has been found
5 to be effective for risk reduction, both for HIV
6 infected and for HIV uninfected persons. This can be
7 done in jail, and in prisons. The challenge is doing
8 it also after people get out.

9 We could spend a lot of time and money
10 educating people and counseling people while they're
11 incarcerated while they have limited access to some
12 of the things we're asking them not to do, as opposed
13 to when they get out of prison where it's a free for
14 all and the intervention stops.

15 So things that can bridge that period of
16 time from incarceration to community release might be
17 more effective, although again we don't have a lot of
18 data yet.

19 I think community partnership is a big
20 part of this, and this is kind of a commonsense move.
21 We'd need buy-in from communities, from AIDS service
22 organizations, work out ways to get them inside of

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1 correctional settings so they could work with people
2 before they get out.

3 It's going to take some buy ins from
4 leadership. Faith-based programs may be particularly
5 effective, and there are pilot programs that are
6 going on, but I'm not aware of any results to date.

7 Again, I want to center our discussion on
8 HIV therapy, because we know that it's effective for
9 the individual, but also has a public health role in
10 reducing infectiousness. For many of our people who
11 get out of prison, they have limited access to HIV
12 medicines. In our state when people get incarcerated
13 they lose access to the AIDS drug assistance program,
14 and if our AIDS drug assistance program is no longer
15 taking new applicants, they cannot get medication
16 through that program.

17 And also lastly, I'm going to talk a
18 little bit about new approaches to traditional case
19 management, and end on that point.

20 As most of you appreciate, case
21 management is a comprehensive approach to providing
22 services and coordinating services and mental health

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1 and other services that are used. It's considered a
2 glue that holds together a bunch of different needs
3 that people may have, and the setting of HIV case
4 management, it's been shown to be effective in
5 creating benefits advocacy, supportive services, home
6 health, and it's been also shown to decrease
7 recidivism, reincarceration, both in Rhode Island and
8 in Massachusetts in studies that have looked at it.

9 So there are a number of improved health
10 outcomes that can come from quality case management.

11 Currently, we're doing an NIH-NIDA sponsored
12 randomized controlled trial of a novel case
13 management program that begins before people are
14 released from prison, and continues with that same
15 case manager after release for six months.

16 This is different than traditional case
17 management, in that it's a very motivational
18 strengths model, case management that's very
19 motivated and tries to let the client lead where the
20 case management is going within limits.

21 And this is a randomized study, so people
22 not randomized to the bridge in case management

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1 receive standard discharge e planning, which I
2 described as, here's your medicines, here's your
3 prescriptions, here's your ADAP forms, don't forget
4 to send them in.

5 And we are following people for a year
6 after they get out, the bridging case management
7 program will exist for three months before they get
8 out, and then six months after release.

9 So to date we have 102 participants
10 enrolled. They're all HIV infected. Again, 76
11 percent are men, 81 percent African-American, fairly
12 consistent for all our work. Seventy five
13 participants have been released to date, and the
14 median time out is about 130 days. And I'll show you
15 some preliminary data that we put together for the
16 purposes of this meeting.

17 Re-incarceration in prison so far in the
18 standard of care arm, the standard of practice, five
19 people have been re-incarcerated today, and only one
20 bridging case management participant has been re-
21 incarcerated in prison so far. Utilization of
22 emergency room care, which is one of our outcomes,

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1 standard of care has used ER at least once 44 percent
2 of the time in the three months after release, versus
3 28 percent of the bridging case management.

4 And our primary outcome that we're
5 interested in, although the case managers are not
6 privy to that necessarily, is access to HIV care.
7 And again, this is just an early look, but in red, or
8 pink, is the standard of care, and in blue is the
9 bridging case management.

10 We're seeing some separation here where
11 time to access the care is favoring people in
12 bridging case management, and by week 12, 21 percent
13 of people in bridging case management have not seen
14 an HIV provider as opposed to 43 percent of people in
15 the standard of care who have not seen an HIV
16 provider for any reason.

17 So I think we're seeing some overlapping
18 converging data that indicate that probably this kind
19 of intensive case management intervention for example
20 can be effective. And Dr. Redfield has experience
21 with sort of kitchen sink approaches as well, and has
22 very nice data showing that we can impact recidivism

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1 and other health outcomes if we package services and
2 make it available.

3 So I'm going to end on just a few quick
4 notes, and this will take about 15 seconds.

5 As was talked about, there is a lot going
6 on with people who are incarcerated. There's a lot
7 going on with HIV-infected people who are
8 incarcerated. We have an obligation to them and to
9 the community to try to reduce their having trouble
10 after they get out, whether that be trouble accessing
11 meds, trouble getting training, trouble staying out
12 of prison.

13 I also want to talk a little bit about
14 their communities of origin, because I think we
15 ignore what happens with the people who get left
16 behind. And we know again with that altered
17 perturbed ratio of men to women that that leads to
18 all sorts of things that are not good when you think
19 about HIV prevention including partnerships that may
20 be concurrent; that means a partner - someone having
21 a partner, and having another partner at the same
22 time. That mathematically has been modeled to show

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1 to spread the HIV virus much more efficiency than
2 other modes.

3 Many of the men who are available who are
4 not incarcerated at that moment may be underemployed
5 or financially unstable, and they are sexually mixing
6 wearing women who normally would not be hooking up
7 with these men are hooking up with these men because
8 there are less men available in that community.

9 And work that has been done again by our
10 colleague, Dr. Adimora, indicates that a substantial
11 portion of African-American women who are HIV
12 positive have relatively few risk factors for HIV
13 infection, and posits that that is a clear sign of
14 how endemic HIV infection is in communities of color.

15 So schematically one thing that we're
16 very interested in exploring is whether or not in a
17 partnership where the man gets incarcerated, not
18 focusing so much on him for the moment but on her,
19 and if he's gone out of the picture for awhile, are
20 there pressures that lead her - whether they're
21 community pressures or personal pressures - to hook
22 up with another individual, thus placing her at risk

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1 for acquisition of an STD, HIV included, and then of
2 course her partner comes back out, she hooks back up
3 with him and may have other partnerships in addition
4 to that.

5 So we think that this sort of cycling
6 could theoretically lead to her being exposed
7 disproportionately to HIV infection, especially of
8 her relationship now breaks up because of the stress
9 of incarceration. And in a community where there is
10 a lot of HIV and there is a lot of incarceration, I
11 think this could multiply, and we might see spreading
12 of HIV amongst the women, and I think that may
13 reflect what we're seeing.

14 So I'm going to end there, and open it up
15 for both of us to take your questions. And I
16 appreciate it.

17 DR. SWEENEY: We're going to take
18 questions, but I've been given strict instructions
19 about lunch and breaking and getting started this
20 afternoon. So I'm going to start in order of people
21 that didn't get to go last time, if there are any
22 people who want to ask questions, and we hope that

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1 Dr. Kaplan and Dr. Wohl will stay through lunch so
2 that we can have additional questions answered if we
3 don't have time now.

4 Dr. Sullivan.

5 DR. SULLIVAN: Really a question to Dr.
6 Leone. Is he here?

7 You mentioned the survey that you did I
8 guess educating men who I believe if I remember
9 correctly frequenting bars; during the course of one
10 year there was a significant drop in the rate of
11 infection.

12 Why was that study not continued?

13 DR. LEONE: So the study I referred to was
14 called the Popular Opinion Leader Model. And it was
15 funded through CDC post our outbreak investigation.
16 And we were told that that was all the funding they
17 had available on that, period.

18 To be blunt, it took a lot of pushing. I
19 think the folks at the CDC were very supportive;
20 certainly the epi branch agreed with our data on the
21 college outbreak. And I don't know where the problem
22 was about continuing it or coming up with more

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1 funding, but it took literally a battle in the press
2 in order to get that funding to begin with.

3 So there is more than a little bit of
4 frustration on my part that we have a program that's
5 been successful and the plug has been pulled on it
6 after a year.

7 DR. SULLIVAN: We can discuss this
8 tomorrow. But it seems to me that really is an issue
9 that concerns me, and I think we need to discuss it
10 further.

11 MR. BENAVIDEZ: Thank you, Dr. Wohl. I
12 appreciate that. I found it very interesting.

13 A quick comment. I think you mentioned
14 the mental health problems of people leaving prison
15 were significant, over 50 percent I believe. So
16 obviously that will have an impact on compliance,
17 seeing a physician, having access to the medication.

18 How do you incorporate I guess that
19 mental health component in your studies and how
20 you're looking at these patients?

21 DR. WOHL: At this point, up until very
22 recently we were observing this, and were quite

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1 surprised to see how much mental health needs our
2 patients had.

3 With the case management intervention
4 that we've applied, the case managers are well
5 equipped to refer people to the available resources
6 that exist in the community.

7 The problem is if there aren't resources
8 available in the community, and then it takes a lot
9 of creativity. So I think what you're getting at is
10 a really important point of the lack of what I call
11 good, clean, well-lit places where you can get mental
12 health care, and that is certainly a problem.

13 Our case managers many times will tell us
14 they physically drove someone, sat with them at a
15 mental health center, and tried to get them care just
16 to ensure that it happens.

17 DR. SWEENEY: I just wanted to ask a
18 question about contact tracing and partner
19 notification.

20 Is it done? Are people who are
21 incarcerated, and who know their partners, do they
22 get notified that they may have been exposed and

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1 offered testing?

2 DR. WOHL: Yes, so when people are
3 diagnosed with HIV in the North Carolina Department
4 of Corrections, contact tracing follows just as it
5 would in the community. And Peter, I don't think you
6 have any indication that there is any difficulty with
7 contact tracing of prisoners.

8 I know that there is - we're talking
9 about contact tracing of people who are diagnosed
10 with HIV in prison, and I think that system seems to
11 work very well, and I don't know if you've heard of
12 any problems with it.

13 DR. LEONE: I think it works well. The
14 problem that I've seen from my perspective, and Andy
15 and Dave can comment on it, is, actually empowerment
16 for a lot of these in particular women about
17 negotiating either not having sex or using condoms.

18 So second paper that was published a year
19 ago on black AIDS awareness day, MNWR looked at women
20 in North Carolina and HIV as an outgrowth of the
21 college outbreak.

22 And what we found was, again, very little

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1 empowerment for these women, either around poverty or
2 being able to negotiate with their men condom use.

3 So even though they're notified, it
4 frequently doesn't seem to change in the results of
5 protection in that couple. So it's an ongoing issue.

6 But to be clear, North Carolina law requires partner
7 notification. So everyone who is newly diagnosed
8 will be interviewed. If they give us the names of
9 partners, we will locate them and notify them. But
10 we've seen it, and maybe Dave and Andy can comment,
11 where women know that their male partners are
12 infected, and they continue to have unprotected sex.

13 DR. KAPLAN: But I think you're talking
14 about within prison.

15 DR. LEONE: Within prison.

16 DR. SWEENEY: I was talking about within
17 prison, while the partner is within prison.

18 DR. LEONE: Yes, absolutely. I think that
19 one works much easier than the community link,
20 because they know who they are. So they will easily
21 call someone over - the prison has complete control.

22 So if someone mentions another person that they had

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1 sex with when they were diagnosed, they will find
2 that person and then offer them HIV testing.

3 DR. WOHL: The only problem I see, if you
4 are talking about in prison, their partners, is that
5 you may not get information about who they had sex
6 with.

7 So the bottom line in all of this is,
8 you're stuck with someone giving you a name or
9 letting you know what happened.

10 And I would think - I don't know, because
11 there is no data - that in prison there is a lot of
12 pressure not to talk about what actually transpired.

13 DR. KAPLAN: Well, it's illegal to have
14 sex in prison. That will extend your time in prison.

15 DR. SWEENEY: No, I wasn't talking about
16 tracing the partners in prison. I was talking about
17 tracing their partners who are in the community, and
18 notifying their partners in the community.

19 DR. WOHL: That happens. But Peter's
20 point is well taken, and our data show that men who
21 come out of - men and women who come out of prison
22 and go back to their main partner, frequently don't

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1 use condoms even though their partners are HIV
2 uninfected. But say they've disclosed their HIV
3 status to those partners, as opposed to their more
4 casual partners.

5 And most of our people when they get out
6 have on average about seven to eight partners. And
7 when we ask them about this, they say that their main
8 partner is the one that they are least likely to be
9 safe with. Their casual partners who they are, A,
10 less likely to disclose to, they are more likely to
11 use condoms with.

12 And these are data that we thought were
13 very odd. There is another research group that is
14 similar to ours in San Francisco that has found very
15 similar results in San Francisco.

16 DR. SWEENEY: Thank you.

17 I see Ram, David. Before we have any
18 other questions, Joe Grogan has to make an
19 announcement.

20 MR. GROGAN: It's a new wrinkle for us
21 here. We've got a little extra time for questions,
22 because the catering van bringing the food got

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1 stolen.

2 (Laughter)

3 So the members do have a guarantee that
4 the sandwiches will be super fresh this time, because
5 they are working as quickly as they can.

6 (Simultaneous voices)

7 DR. YOGEV: I was just wondering with the
8 new recommendation of the CDC for universal testing,
9 do you think it's about time for the committee to
10 consider recommending mandatory testing of
11 incarceration, not only when you come in but also
12 when you come out, with partner notification?
13 Because it's not. You got a refreshing, but I'm
14 coming from a state you can't even talk about it.

15 DR. KAPLAN: I think we're in agreement on
16 this.

17 DR. WOHL: I think we're in agreement on
18 this. I don't know if our group is unanimous on
19 this, and it's a divisive issue about testing inside
20 of correctional settings, especially prisons.

21 And I think that - and Andy can speak up
22 - I think testing in prison has a lot of value, and

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1 as I mentioned provides a lot of opportunities.

2 I think one thing has to be very clear,
3 though, is if you are going to test in a correctional
4 setting, how, A, those data are going to be handled.

5 Can it be done confidentiality and not coercively as
6 much as possible.

7 And B, what are you going to do with the
8 data as far as treatment? If you don't have
9 treatment available as is the case in many jails, why
10 are you testing? And can you apply therapeutic and
11 prevention interventions? If you can't, then I don't
12 understand why you are testing?

13 Part of the problem is, we don't have
14 uniform quality of HIV care in prisons, and
15 especially in jails.

16 DR. YOGEV: I'm raising exactly that issue
17 because of what you just said. It's interesting that
18 I belong to the International Subcommittee, and we're
19 committing HIV testing to treatment in Africa, and
20 it's about time we do it here in the United States.
21 And that should be part of the resolution is, what's
22 fascinating to me is, one out of five who have HIV is

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1 going through the system that can help us to identify
2 and connect to treatment, you are also correct.

3 And the only way to do it is incentive,
4 and maybe connect to Ryan-White or whatever, just the
5 issue of mandatory is so controversial, and that's
6 why I was raising it.

7 DR. WOHL: We see both sides. Certainly
8 if we have mandatory testing we see that there are
9 more people that will be identified. But we also
10 know that before you mandate, before you do HIV
11 testing against someone's will, you betting think
12 long and hard about it and make sure the benefits are
13 there.

14 It's very interesting about the Georgia
15 outbreak, they had a voluntary system for two years
16 during that long period of time where people were
17 offered annually HIV testing. Half of those 88 cases
18 were detected , seroconversion in prison, were
19 detected during those two years, out of 25 years of
20 this program going on where they test people.

21 So clearly we know that we can raise the
22 level of people that we can identify with very good

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1 voluntary testing programs.

2 I think mandatory testing is something
3 that's not off the table in prison, but we haven't
4 even explored expanding voluntary testing in a way
5 that I think -- to its full potential.

6 DR. KAPLAN: Yes, I think we could do a
7 lot without that testing. We can do a lot without
8 forcing people to get tested before we decide to go
9 that route.

10 The other thing you need to keep in mind
11 is that when someone is diagnosed with a treatable
12 illness, the Department of Corrections is obligated
13 to provide treatment for them free of charge, so it's
14 very, very expensive, and I'm sure there is a
15 tremendous financial disincentive. They are only
16 going to be there for three years, so this idea of
17 preventive care is really not on the table.

18 There is a tremendous disincentive to
19 identify people that will then require expensive
20 care.

21 As just sort of an anecdote, the medical
22 director of the North Carolina Department of

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1 Corrections has to go before the state board - I'm
2 sorry, the state legislature, every year and
3 rationalize her budget. And I guess one of the
4 legislators asked her, said, look, the food service's
5 budget decreased by 15 percent last year, but your
6 budget went up 20 percent, why is that? So maybe
7 they're related, but it is the kind of pressure that
8 they face. So this is one way of not having to pay
9 for it.

10 DR. SWEENEY: Sandra, did you have your
11 hand up?

12 MS. McDONALD: Thank you for your
13 presentation.

14 Our agency in Atlanta has been doing a
15 lot of work in corrections. In fact we had a program
16 in county jail where people got released to our
17 program. My hands are off to you. It is tedious
18 work.

19 Did you link in the services for
20 substance abuse and housing? We almost babysat. We
21 had very good outcomes, but one of the persons in
22 that program told me that he was better off

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1 incarcerated than being with us, because we really do
2 hands-on stuff to get the results.

3 DR. WOHL: That's exactly right. And
4 again this is a plug. Everyone has their own agenda.

5 This case management and intervention that we are
6 piloting we've received funding which was wonderful
7 from NIDA. Unfortunately our funding is running out,
8 so we're going to end this program very soon. And we
9 were hoping to implement it, and not just be
10 something that someone could look up in a dusty issue
11 of a journal. We want this to become a reality, so
12 we're really looking hard to make this happen in real
13 life, and not just in an academic setting.

14 And your example is very good. When I go
15 to the literature, I go to these boards and I try to
16 prove to people that this works. They say, show us
17 the proof. We don't have studies, rigorously
18 controlled studies, that show that this kind of
19 intervention and others that are like it work,
20 because a lot of people have put the effort into it.

21 So I think we're really trying to make
22 this happen and have a breakthrough. We could say,

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1 this is the model we should be following. We should
2 be having a link.

3 Right now there is this huge gap between
4 incarceration and the community, and no one is
5 bridging it; we're just doing it piecemeal, and we
6 need a more comprehensive system to make sure that
7 people can stay, keep their weight on, keep their
8 viral loads low and their CD4 cell counts high, and
9 remember to use condoms; that's what we're trying to
10 implement.

11 DR. KAPLAN: And Ryan-White funds can't be
12 used for people who are incarcerated, so that's
13 another problem for us.

14 DR. SWEENEY: David.

15 DR. REZNIK: Actually, I think you have
16 the data to support at least the linkage.

17 If I heard some of your materials
18 correctly, the people who were able to obtain care in
19 your program, there was this long period of time
20 where they were no longer able to access medications,
21 which to me means that we're creating resistance.
22 We're also increasing viral load, increasing

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1 transmission, and therefore increasing resistant
2 transmission.

3 The Ryan White dollars can be used - the
4 reasons they said, at least in the study, that they
5 couldn't access care, but Ryan White would cover them
6 once they're no longer incarcerated.

7 So there needs to be - so there seems to
8 be, and this is Dr. Primm's point, and he's not here,
9 and it's hard for me to speak for Bennie, but there
10 seems to be an issue with linkage from when they get
11 out of the corrections into Ryan White, and that has
12 to be a priority for the community itself, when
13 you're talking about such a high percentage of males
14 that are incarcerated in the minority community,
15 where not only are we fostering an epidemic among
16 those less fortunate, but we're creating a more
17 complex epidemic because of resistance issues, and
18 attached with mental health and substance abuse.

19 So I think that there needs to be a
20 priority put, maybe not exactly, or in your case,
21 maybe in the model that you created, the six-month
22 model. But at least some kind of model that links

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1 people upon release into the Ryan White system of
2 care, because the qualifications in any state they
3 would fit that. That's got to happen.

4 DR. KAPLAN: We're both trying very hard
5 to raise money to continue this project.

6 DR. WOHL: You'd be surprised how hard -
7 this is like the obvious point. We're going to
8 private foundations. We're applying to different
9 grant sources. This sort of obvious case that we
10 need linkages.

11 And you could count on your hand how many
12 systems of formalized linkages that start before
13 people get out, and continue after they leave, and
14 we're being told, it sounds like a good idea, but
15 we're not so sure about it.

16 DR. REZNIK: It sounds like medical case
17 management, which is a core service under the
18 hopefully soon to be reauthorized, correct.

19 DR. SWEENEY: Dr. Sullivan.

20 DR. SULLIVAN: I have a more fundamental
21 question. I'm sure that this is something that you
22 talk about, but here you have a system as I

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1 understand it of individuals going into prison,
2 really being exposed and being infected with HIV, and
3 of course it fosters the epidemic.

4 What is done in prison to try and prevent
5 that spread? Because it seems to me that it's a
6 head-in-the-sand philosophy that years ago we
7 quarantined people with tuberculosis to prevent the
8 spread of the infection.

9 So I know this must be an issue, but what
10 is being done, or what can be done, to really stop
11 the spread of the infection in prisons?

12 DR. KAPLAN: Well, there is aggressive
13 counseling of people that are infected. But in terms
14 of unprotected sex, it's an infraction. But there
15 isn't a lot of supervision.

16 I think one story - David and I went to a
17 medium security prison not far from where we live,
18 and we were on the yard with the captain of the
19 guards, and we just sort of were walking across the
20 yard, and there were maybe 2-300 men just sort of
21 very buff kind of men walking around. It was David
22 and I and this guard. And I said, well, what happens

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1 if they decide to grab us? And he said, well,
2 there's a guard in the tower with a rifle, but other
3 than that, the numbers aren't good.

4 (Laughter)

5 Which is very comforting you can imagine,
6 but there isn't a lot of supervision. I mean these
7 guys have a lot of time on their hands.

8 DR. WOHL: I think when you look at state
9 prison systems, it's federalism at work. What we see
10 is every system takes their own approach. So some
11 systems have said, the way that we're going to curb
12 this problem is, we're going to mandatorily test
13 everyone who comes into prison. Those who are HIV
14 infected we're going to have centers of excellence,
15 segregated units, where there will be care, social
16 work, whatever, and that way, they can have sex with
17 each other if they want, but there is no HIV
18 transmission going on, and we'll sort of cull from
19 the general population before they check in.

20 That system has been very hard to
21 implement in many places, and you have to have a lot
22 of safeguards in there. Are we segregating? Are we

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1 taking away privileges? Are we taking away
2 opportunities? It could be done very well. It can
3 be done very, very poorly as well, and there are
4 states that have had a lot of trouble providing
5 services to people who are congregated in a situation
6 where everyone has the same infectious disease.

7 There are public health aspects of that,
8 too.

9 So I think testing, letting people know
10 that they're HIV infected, is a major part of that.
11 The majority of people who are HIV infected don't
12 want to give their HIV to anyone else. I think there
13 is a lot of data on that. There's exceptions.

14 The majority of people who come into
15 prison, the majority of people with HIV in prison
16 come into prison with their HIV, so I think we have
17 to do more about identifying who's HIV positive,
18 counseling them, and allowing them to have the
19 opportunity to be in prison, and I think personally I
20 think allowing people to have access to condoms, the
21 intervention that we know works very well outside of
22 prison should be applied in prison as well,

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1 especially given the circumstances that are existing.

2 Will it obviate transmission that occurs
3 during rape? No, just like in the general community.

4 But I think there's more that we could do to try to
5 do that.

6 Increased security is not going to be an
7 issue. You can't keep it secure enough to prevent
8 these episodes from happening.

9 DR. SWEENEY: We have two, Dr. Judson and
10 then Dr. McIlheney.

11 DR. JUDSON: Well, I think we appreciate
12 even more the challenges of turning prisons into HIV
13 prevention and treatment centers, of the highest
14 order.

15 But it still seems, using the PP analogy,
16 and maybe the sexual predator/sexual assault analogy,
17 where people who are known to be HIV positive when
18 they're released, a condition of their parole or
19 continuing parole would be that they not have anyone
20 who is HIV positive not have sex or contact with
21 anyone without their prior knowledge and consent.

22 And we would follow somebody with active

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1 TB, and it wouldn't be their choice as to whether
2 they go back and infect others in the community, or
3 in their homesite.

4 So where has there been any progress on
5 that?

6 DR. WOHL: It's already state statute that
7 you can't knowingly spread your HIV to anyone else.
8 So everyone signs a form that says they recognize it.

9 When they leave prison, every single one of our
10 known HIV positive inmates signs a form that says,
11 I'm aware of North Carolina law that says if I do
12 this I'm breaking the law.

13 The other thing that we have to realize,
14 a lot of people get out not on parole or probation.
15 They're out, scott free. In fact our HIV positive
16 inmates prefer to complete their entire sentence
17 rather than get caught in the trap of parole
18 violations.

19 So we have very, very limited contact or
20 control of people who get released in many, many
21 circumstances.

22 MS. CLEMENTS: Can I speak a little

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1 further to that? The control measures, North
2 Carolina control measures, not only say you must use
3 a condom, but you must also inform your partner that
4 you have HIV even though you do use a condom.

5 DR. KAPLAN: And you can incarcerate them
6 for violating those.

7 DR. WOHL: And that happens. It's not
8 very often, but we do have people incarcerated now.
9 Usually it's for sex work.

10 DR. JUDSON: But that's been the law?

11 DR. WOHL: Yes.

12 DR. McILHANEY: Have you - if you said
13 this I didn't hear it - have you tried to calculate
14 how much of the HIV burden, the new HIV infections of
15 the 40,000 a year in this country might be attributed
16 to the whole penal system and what you've been
17 talking about today?

18 DR. WOHL: It's a real - like Peter said,
19 it's the million dollar question. The reason that we
20 formed this working group is because a group of us at
21 the university who were working in separate areas
22 started to realize we were all finding the same

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1 thing. Whether you look microscopically or
2 microscopically, from a behavior approach or from a
3 medical model approach, all arrows started pointing
4 towards incarceration.

5 Dr. Adimora's work that showed that HIV
6 positive people were more likely to have had a
7 partner who was incarcerated really lit the flame and
8 we started to see incarceration is playing a major
9 role in what is going on in these people's lives.

10 When we do qualitative interview it comes
11 up every time. If you get a group of African-
12 American women living in the South together, and you
13 start talking about STDs and HIV, invariably, the
14 shortage of men, the type of men that are available,
15 and incarceration will emerge during the discussion.

16 We think we're on to something big here.

17 We don't think this is the pie, and we're a little
18 small dot. We think this is a big deal, and really
19 fueling HIV epidemic, especially in the South.

20 DR. KAPLAN: I think if you believe that
21 the context in which someone lives influences their
22 spread of - whether or not they're going to spread

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1 HIV or STDs, and then this plays a tremendous effect
2 on minority communities; tremendous.

3 DR. McILHANEY: Do you think you could
4 draw lines to as much as 25 percent of new HIV
5 infections, or are you just not there yet?

6 DR. WOHL: Well, in certain communities, I
7 think it's rampant. I think it's a major role.

8 Now these might be small communities.
9 We've done some work in small urban areas in North
10 Carolina, Jackie knows what I mean, there are these
11 small mega-centers like High Point and Greensboro
12 where we go and we interview people, and half the
13 people just going to a nightclub and interviewing
14 them, have been incarcerated themselves.

15 So incarceration has become sort of a
16 rite of passage or a natural thing that happens,
17 usurping other natural things like joining the
18 military or graduating from college or getting
19 married; it's become a normal life event.

20 And we think there is some interplay here
21 between risk behavior and that event. So I think
22 you're right. I think we're talking clearly double

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1 digit percentage of maybe people who wouldn't be HIV
2 infected were it not for incarceration.

3 DR. SWEENEY: My question is, Canada has
4 made condoms available in prison for years, as has a
5 couple of states and a few municipalities in the
6 United States. And I wonder if you have any data
7 from any of them about the effectiveness of their
8 making condoms available, particularly Canada who has
9 done it for a very long time.

10 DR. WOHL: There are no data that have
11 been reported. If anyone in the room has something
12 more up to date, but I belong to a group of people
13 who write a newsletter about prison issues, and we
14 ask this question of our board just a few weeks ago,
15 and there were no data that anyone had access to.

16 Canada reports on their success of
17 implementing it. Vermont has a program as well where
18 they implement it. Even Riker's Island, condoms were
19 available for a short period of time. So we know
20 that these things exist.

21 But again in corrections we see the same
22 thing over and over and over. People do something,

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1 they report about it, but they don't study it. And
2 so we're seeing a real acute shortage of the kind of
3 data that would be wonderful to see.

4 The good news is, horrible things haven't
5 happened. People haven't used them as weapons.
6 We're not hearing reports of people smuggling
7 contraband using condoms and swallowing.

8 These are the things that, rightly so,
9 security officers, correctional officers, were very
10 concerned about. We haven't seen that.

11 DR. SWEENEY: We're going to have to stop
12 now, even without lunch Joe says we have to stop.
13 And he's going to tell us what to do.

14 And thank you both and Dr. Kaplan very,
15 very much.

16 (Applause)

17 REV. LUSK: Can I say one thing please?
18 I'm listening to this, the previous study and this
19 study, what's going on now. It's obvious to me and
20 to all of us that the African-American community is
21 being affected disproportionately.

22 And it just seems to me when you have

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1 these kind of numbers that some special intervention
2 ought to take place. You know, even the Ryan Act
3 where you can't use money for this, you can't use
4 money for that, I think we really have to think
5 seriously about recommending some kind of
6 intervention that's different than what we've been
7 doing.

8 Obviously if we don't, many African-
9 Americans and children are going to go by the
10 wayside, and I just wanted to go on record saying
11 that.

12 DR. SULLIVAN: If I might second that, I
13 want to thank our colleagues from North Carolina for
14 coming.

15 I agree. It seems we have a major issue
16 here, and we can't be asleep at the wheel, and act as
17 if this doesn't exist. I think we have to really
18 work with our colleagues in the medical community to
19 really address this. Otherwise, why are we here?

20 So thank you very much.

21 (Applause)

22 MR. GROGAN: It doesn't look like they're

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1 going to get the food here unfortunately.

2 So what I'm going to recommend that we do
3 is just walk over to the cafeteria and we'll
4 reimburse you for your lunch.

5 But try and be back on time, because Mark
6 Dybul is on at 1:10, and I know he's got a meeting at
7 the State Department, so we got to nail that; we've
8 got to start at 1:10.

9 So thanks.

10 (Whereupon at 12:38 the
11 proceeding in the above-entitled matter went off the
12 record, to return on the record at 1:17 p.m.)

13 INTERNATIONAL

14 DR. REDFIELD: I think if we can get
15 started now, if I can get everybody to gather around
16 the table, that'd be great.

17 I want to thank Mark Dybul for taking
18 time to come. I think everybody knows Mark. He's
19 now the acting U.S. global AIDS coordinator, NOGAC,
20 and Mark is going to talk about the U.S. response to
21 global HIV infection, particularly some challenges
22 and opportunities.

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1 Mark, thanks for taking time to be with
2 us today.

3 U.S. RESPONSE TO GLOBAL HIV/AIDS: CHALLENGES AND
4 OPPORTUNITIES

5 MR. DYBUL: Thanks a lot, Bob, and it's
6 very good to be here. Thank you for letting me spend
7 a few minutes with you.

8 Joe asked me to go over a couple of hot
9 topics. And I guess the most recent hot topic is the
10 annual meeting PEPFAR had last week in Durbin, South
11 Africa. About 1,200 people from around the world
12 came. Fifty countries were represented. And
13 President Bush opened the meeting with a video. As I
14 think many of you know, he doesn't particularly like
15 doing such videos; the fact that he was willing to do
16 it really highlights his commitment to PEPFAR and the
17 administration's commitment.

18 The president outlined the results so
19 far, through March 30th of this year. The U.S.
20 government, the American people, are supporting
21 treatment for 560,000 people in sub-Saharan Africa.
22 552,000 of those 560- are in sub-Saharan Africa.

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1 560- covers 15 countries, the 15 focus countries.
2 We are certainly supporting more in other countries,
3 but our reporting beyond the 15 countries is only on
4 a yearly basis, not an mid-term basis.

5 We are supporting care for 3 million
6 individuals, including 1.2 million orphans. We
7 supported PMTCT services for 4 million women which
8 resulted in the counseling and testing and services
9 to those women resulted in 350,000 receiving short-
10 course preventive therapy, which probably averted in
11 the neighborhood of 65,000 infections.

12 We're spreading behavior change messages
13 throughout the world. We're supporting now
14 counseling and testing for 13.6 million individuals.

15 This is all in two years. So this is
16 what the president outlined in his talk, but mostly
17 thanked people for being here, particularly the
18 people from the countries, the 50 countries that were
19 represented, particularly the people from the focus
20 countries.

21 The meeting was heavily African, because
22 the epidemic is heavily African, and a lot of our

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1 response was there. About 80 percent of the
2 individuals were from Africa.

3 And importantly many of the presentations
4 were from Africans themselves or other in country
5 folks, which demonstrates the capacity that is being
6 built. For those of you who have been to other
7 international meetings, this is not the norm. And so
8 we are very excited to see more and more people from
9 the countries presenting their work, and the capacity
10 that is being built to do that to understand what
11 they're doing in order to aggregate information and
12 present it.

13 But we can do better on that. We still
14 have too many international organizations presenting
15 in my opinion, so we're going to focus them in the
16 coming year on technical assistance to help grantees,
17 particularly the local folks, feel more comfortable
18 with their data, feel more comfortable writing
19 abstracts and presenting them, so that they're not
20 only comfortable for our meeting, but international
21 meetings, to put together their work and present
22 their work, and we are going to do a little more

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1 capacity building there.

2 There was a lot of good emphasis on the
3 meeting on what's been accomplished, but also looking
4 at questions. On what has been accomplished, it was
5 the first international meeting I've been to where
6 the ABCs were fully represented in all three
7 components, including two plenary talks which
8 presented both an overview from an African on the
9 effectiveness of ABCs and what she's seeing,
10 particularly in Kenya the country where she's from,
11 where we have seen dramatic results over a five-year
12 period; and then a member of USAID actually presented
13 the evidence base, and I think it actually provided a
14 lot of people with a view of what the evidence for
15 ABC are, and I think it had a significant impact,
16 including among our European colleagues who came up
17 to me and said, I didn't realize that there was that
18 much data behind this.

19 So we're making some progress here, and
20 some good press reports came from it.

21 There was also some very good coverage on
22 utilizing community health workers, and nontechnical

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1 experts to do counseling and testing, to do things
2 that people can do.

3 One of our biggest challenges is
4 utilizing the resources that are available, the human
5 resources that are available, because there just
6 aren't enough human resources for a Western-based
7 approach in a place like Mozambique where there are
8 600 doctors total for 19 million people, you can't
9 have something like Washington, where you have six
10 university medical centers within spitting range.

11 So you have to use the resources that are
12 there. And there were a lot of good data presented
13 on this topic.

14 I was recently in Ethiopia, and in many
15 of the clinics I visited, 20 percent of the nursing
16 workforce in every clinic was being utilized to do
17 counseling and testing.

18 Anyone in this room can do counseling and
19 testing, and can do a finger stick to show HIV
20 positivity with some training.

21 So you could tomorrow have 20 percent of
22 your nursing workforce doing more clinically based

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1 work if we could change some of these policies. And
2 there was a lot of discussion about effective
3 utilization of community health workers, or
4 nontechnical folks for things that they can do. A
5 lot of data on the challenges to that, but the need
6 for policy changes. So that was a very impressive
7 highlight.

8 Another important highlight is the
9 success some countries are having integrating HIV and
10 TB. Rwanda now is testing in the neighborhood of 70
11 percent of TB patients for HIV, and that's doubled
12 since - in a year.

13 A number of countries, Kenya, Tanzania
14 and others, have instituted what's called routine
15 counseling and testing, or diagnostic counseling and
16 testing. So most people entering TB clinics are
17 almost routinely offered counseling and testing.

18 Namibia introduced such a policy, and
19 these data were presented in a nationally for PMTCT,
20 and they doubled the uptake of counseling and testing
21 by the women by having that policy.

22 So some of these things are happening and

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1 changing in terms of better utilization of policies,
2 and it seems to be working quite a bit.

3 The two big surprises, I think, from the
4 meeting, and those of us who spend a lot of time with
5 international meetings, I won't say if that's a good
6 utilization of time, but nonetheless, we have to
7 spend a lot of time at international meetings, there
8 is this attempt to link poverty with HIV/AIDS, and to
9 say, rather than addressing direct prevention care
10 and treatment, let's just solve poverty.

11 Well, there were some very impressive
12 data from very careful analyses from two sites that
13 showed that if you looked at people who were
14 relatively poor in the country, they actually had a
15 lower prevalence of HIV infection.

16 Now as people gain access to resources
17 and other things, they engage in activities or become
18 urbanized in a way that actually increased the
19 prevalence rate.

20 Now it is true that the people in those
21 countries that are relatively well off are still poor
22 by U.S. standards. But we're not going to get

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1 countries in Africa to U.S. standards economically
2 for 25 - 30 years, rather than spend - if we're lucky
3 - so we need to concentrate on saving the lives
4 there. And that was a message that challenged a lot
5 of people, but it was very important to hear.

6 To be honest this isn't rocket science. South
7 Africa and Botswana, two countries with very high
8 prevalence rates, are two of the wealthiest countries
9 - and Namibia - are three of the wealthiest countries
10 in sub-Saharan Africa. Yes, they're not as wealthy
11 as we'd like them to do, but it's a demonstration
12 that this attempt to say, let's just solve poverty,
13 isn't going to save HIV/AIDS lives in the near term.

14 The other very surprising thing is,
15 there's been lots of efforts to link nutrition to
16 clinical benefit in HIV/AIDS, particularly in
17 treatment. There is no question nutrition in the
18 early stages may - well, I wouldn't say there is no
19 question, but there are some data that nutrition in
20 the early stages may delay when you need to start
21 antiretroviral therapy.

22 But from Malawi they're actually doing a

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1 randomized control trial introducing food with
2 antiretroviral therapy, some food supplementation in
3 the same populations, and not introducing food, just
4 giving antiretroviral therapy. And the preliminary
5 data showed no benefit clinically to adding the food
6 supplementation.

7 That doesn't mean food isn't important,
8 and people aren't hungry. There is no question;
9 everywhere we deal people are hungry. The question
10 is, how should HIV/AIDS resources be utilized. So
11 we'll be following this closely. This is not a
12 definitive word, but I think the two challenging
13 things to most people in terms of their perceptions
14 were the link between poverty and prevalence and the
15 link between nutrition and clinical outcome when
16 added to antiretroviral therapy, not to care.

17 But overall I think it was - and
18 unfortunately to a lot of people it was challenging,
19 was the database for ABC. But we're making progress
20 on all of these things, and I think it was overall a
21 very good meeting.

22 The reason I wanted to go through the

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1 meeting because I think that summarizes to a large
2 degree where we are in terms of gains that have been
3 made, but also some of the significant challenges
4 that remain.

5 And this meeting really brought those
6 out. John Donnelly even did a piece surprised that
7 we would have people question what's going on.

8 Of course you need to always question
9 what you're doing, and self analyze what we're doing,
10 because we're not going to reach as many people and
11 save as many lives if we don't. And I think this
12 meeting was a good demonstration of that.

13 We began the meeting in fact by pointing
14 out that PEPFAR and the successes of PEPFAR have
15 become the base for the role model for the
16 president's malaria initiative, for what is now
17 happening with the director of foreign assistance, by
18 pointing out that if you look at a business model,
19 the first company out of the box in most fields
20 doesn't do so well in the long run. And they reason
21 they don't, they kind of get bogged down in their
22 ways of doing things, and don't innovate, don't

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1 constantly innovate.

2 So what we're trying to do is ensure that
3 in PEPFAR we constantly7 innovate, that we are
4 constantly out ahead of the curve, that we are
5 challenging and looking at what we are doing, so we
6 are a successful startup, and we don't get overtaken
7 by others.

8 And we spend a lot of time talking with
9 them. So I think ti was a very good meeting, that
10 highlighted both the successes and the challenges.

11 The successes I don't want to lose sight
12 of, are extraordinary, are absolutely - they're
13 breathtaking, they are extraordinary. But we have a
14 long way to go. We need to almost quadruple the
15 number of people seeking therapy to meet the
16 president's goals; almost triple the number of people
17 receiving care; and expand our prevention program.

18 So lots of great work has been done;
19 extraordinary hope. But we still have a lot - a long
20 way to go.

21 One of the issues Joe asked me to address
22 specifically is the GAO report on our prevention

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1 strategy. There was, as many of you know, a report
2 at the request of Congress, but then turned into a
3 Comptroller directed report rather than response to
4 the congressional inquiries regarding our prevention
5 policies and what it's doing in the field. And there
6 was a lot of activity around that, probably more than
7 was in the report. In fact the person who headed the
8 report, David Gutnik, had a meeting at CSIS, and most
9 people who walked out of there were wondering so much
10 noise was made about this report.

11 There were a couple of important things
12 in the report that pretty much dropped when the press
13 was covering it. I think the most important thing
14 is, in three or four places, the report stated that
15 there was a consensus among U.S. government employees
16 that ABC is the most effective prevention strategy in
17 generalized epidemics.

18 That would never have been the case three
19 years go. So the evidence base is getting out there.

20

21 There was not a single statement in the
22 report, and I have no doubt they looked pretty hard

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1 for it, from a U.S. government professional who said
2 that they wished they could do less AB, or that the
3 AB programs weren't working. It wasn't anywhere in
4 the report.

5 So I think from that we can conclude that
6 ABC does work well; the field believes it works well.

7 But there are resource constraints, and this is what
8 the report focused on, the need to balance resources
9 in the country when you don't have unlimited
10 resources.

11 And while President Bush's emergency plan
12 is an extraordinary initiative, the largest
13 international health initiative in history, \$15
14 billion over five years, we are currently as a people
15 providing about as much resources as all other
16 international partner governments combined, so that
17 the resources are huge, but it's not going to solve
18 all the problems of the world, so there are resource
19 constraints.

20 One of the issues that was pointed out in
21 the report was PMTCT, and whether or not our sexual
22 transmission activities were squeezing out some PMTCT

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1 activities, prevention of mother to child
2 transmission, and had some comments, as well as data
3 from a number of countries of relatively level
4 resources for PMTCT.

5 I think there are a couple of important
6 points on that. First, we've had a massive increase
7 in PMTCT resources under PEPFAR, and actually to go
8 back to the president's first initiative, which was
9 the prevention of mother and child initiative.

10 Second, a lot of resources for PMTCT are
11 not counted in PMTCT for bureaucratic reasons. PMTCT
12 - prevention of mother to child transmission, as it
13 implies - is counted in prevention. But there are
14 aspects of PMTCT that were shifting rapidly out of
15 that direct prevention, which is single dose therapy
16 for HIV/AIDS.

17 First of all, much of the counseling and
18 testing that is accounted for in PMTCT is now
19 accounted for in what we call care, because all of
20 our counseling and testing is counted in care.

21 Secondly, we're trying to move as rapidly
22 as possible, from single dose therapy to combination

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1 therapy for pregnant women, because it probably has a
2 much better effect in terms of preventing infection.

3 There are clear data that just adding one
4 drug significantly reduces prevention, or
5 significantly reduces transmission. But if you can
6 get to three drugs in full therapy to the women who
7 need them, you will probably reduce transmission
8 further.

9 All of that type of therapy is counted in
10 treatment, not in PMTCT. So there are significantly
11 more resources for PMTCT than are counted for in the
12 budget line for PMTCT, which is bureaucratic in many
13 ways, but it's important programmatically because it
14 means there are a lot more resources than were
15 accounted for.

16 But overall, we would agree with the
17 report. There are resource constraints, and you have
18 to balance them. And to be honest, had the president
19 received his full request for the focus countries,
20 none of this would have been an issue.

21 Congress has over the last couple of
22 years reduced the amount - although the top line

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1 number, the total number the president has requested
2 has remained the same or been slightly increased, the
3 total dollar amount for the focus countries has
4 actually not met the president's request as they have
5 been redirected towards other priorities.

6 It's one of the reasons we're advocating
7 so strongly this year to maintain the president's
8 full request for the focus countries so that we don't
9 have as much need to balance resources.

10 But I think importantly again, nowhere in
11 the report did it say, anyone thought we should spend
12 less on the AB component or it wasn't working. There
13 was just concern that we didn't have enough resources
14 to do everything we need to do.

15 And I'd be happy to answer any questions
16 on that.

17 So actually I'd like to save most of the
18 time for questions and answers, because I know you
19 just had lunch, and most people don't want to hear
20 people talk anyway. And your questions are more
21 important; they'll probably bring out some key issues
22 that you are concerned with.

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1 But I would have to say, the state of
2 PEPFAR is very strong. The president's vision is
3 holding up, and his bold and decision action are
4 having a tremendous impact on the field.

5 I'd like to end by saying that the impact
6 we're seeing is not limited to numbers. What we're
7 really doing is building local capacity, and country
8 ownership, to fight the epidemic. And that's having
9 spillover effect.

10 The numbers are but a reflection of a
11 higher goal, which is to save as many lives as
12 rapidly as possible, and to serve our global brothers
13 and sisters in a compassionate and humble way.

14 Those are our goals. The numbers are a
15 numeric reflection of that, and the president stated
16 that goal beautifully in his state of the union
17 address.

18 We are achieving the higher goal, and by
19 achieving the numbers. And the change in the ground
20 is night and day, the hope that has been created
21 doesn't come reflected in the numbers.

22 And it is the hope that's being created

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1 that is transforming Africa in particular.

2 So Secretary Rice's vision of
3 transformational diplomacy, transformational
4 development, is happening. What we're seeing is
5 local people who now have resources to fight their
6 epidemic, take control of their community, take
7 control of their epidemic.

8 It's creating a culture of accountability
9 that you can't describe unless you are there, and we
10 have trouble describing it numerically, which is why
11 you don't get a sense of it. It's creating a culture
12 of accountability which is leading local folks to
13 question their government and hold them accountable.

14 To wonder why don't we have the same
15 accountability for water programs and food programs
16 and malaria programs. It's leading to an account of
17 people holding governments accountable.

18 In a word, as a young Namibian told me,
19 it's creating democracy. And so there is a fall out
20 effect that you don't capture in the numbers, which
21 is inspiring and breathtaking, and those who have had
22 time to be there would see it.

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1 So things are strong. We have a lot of
2 obstacles. But things are well on track to achieve
3 the president's goals. And we appreciate your
4 insights and comments you have, questions you have,
5 on PEPFAR.

6 So with that, Joe, Bob, however you'd
7 like to handle this.

8 DR. REDFIELD: Are there some people who
9 would like to ask questions?

10 So we'll start here, and then Frank.

11 DR. SWEENEY: Thank you very much. That
12 was a very nice overview.

13 I was very struck by the statistic that
14 you did that people who live in poverty are not as
15 effective as people who are I guess middle class, or
16 whatever the class you call them. And I was
17 wondering if that indicated a lack of incidence, or a
18 barrier, to being found in terms of the testing and
19 so forth.

20 Because I went to visit David's program
21 in Georgia, and it was very much like the people that
22 I often seen in New York City, that the people who

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1 are most affected are from the lower socioeconomic
2 groups, and I just wonder if you'd comment on that.

3 Ninety percent of his patients are at 100
4 percent or more below poverty; is that right, 92?

5 MR. DYBUL: I'm speaking about Africa.
6 You can't apply the poverty situation, and compare
7 people in poverty in Africa to the United States, or
8 people in the middle class in Africa to the United
9 States.

10 In Africa it's not a difficult in finding
11 them. They actually - and these are effectively
12 randomized controlled looks, looking at the same
13 number of poor people and relatively wealthier
14 people.

15 Now by a U.S. standard those relatively
16 wealthy people are still poor. So it's really within
17 Africa, and Africa is a much different place, and you
18 cannot apply what I said to the United States. And I
19 don't know the data in the United States, because I
20 don't work here. I work predominantly in Africa.

21 Now why that would be the case in Africa
22 is probably remarkably different than here. The

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1 poorer people tend to be in more rural communities,
2 for example, and in the rural communities the family
3 structure is stronger, and there is a system of
4 support that is much stronger than you would find in
5 many sections of the United States, particularly in
6 the inner cities here.

7 As people start to get more money in
8 Africa, they tend to migrate to the cities, where
9 some of that rooting and family and support
10 disappears. There is a four season phenomena where
11 young girls will have transactional relationships
12 with older men to gain goods, clothing, cell phones,
13 cars, things like that that you don't see so much in
14 the rural communities.

15 So it's a much different situation; it's
16 a much different situation. And the - and I'm
17 talking internationally here, not domestically.
18 Internationally there has been this push to say,
19 let's not focus on HIV/AIDS. It's not a unique
20 thing, because of poverty, that people are becoming
21 infected. So let's just put all our resources toward
22 poverty reduction, and then HIV will go away.

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1 Well, these data are kind of a wakeup
2 call to people who are arguing for that, saying,
3 until we get to wealth levels such as the United
4 States we are unlikely to have a significant impact
5 on the HIV infection, so over the next 20 or 30
6 years, which is what it would take under the best of
7 circumstances to get most of these countries to level
8 like the United States, tens of millions of people
9 will die, so we need to focus on the HIV piece, that
10 it is exceptional right now, and we can't have a huge
11 impact if we fight the epidemic directly.

12 But I would not take anything that I said
13 as applicable to the United States.

14 DR. JUDSON: I'd just give a commentary on
15 my own personal experience, just to underscore what
16 Mark was saying.

17 Many years ago I wanted to start a
18 program to do HIV care and treatment in rural Malawi.

19 We estimated based on prevalence rates that the
20 infection rate was going to be between 20 and 30
21 percent based on the urban community.

22 Our initial first year prevalence rates

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1 an hour from the capital city came back 3.7 percent;
2 I didn't believe them. Seven years later our average
3 prevalence rate is between 3-1/2 and 4 percent.

4 We are going to get a little into this
5 with the next speaker as we kind of follow up on the
6 Washington Post articles, et cetera, about did we
7 overestimate the epidemic. I think what Mark is
8 trying to underscore is that there has been a bias
9 that this is something we can't just focus on, and
10 that is, confronting AIDS, because we've got to
11 confront all these other problems.

12 And that bias can keep us from
13 confronting AIDS, and I think, just being open, I
14 mean I know in my own personal experience, I was
15 shocked, because trying to find the resources to
16 treat this village, the 60 villages which I
17 calculated had 75,000 HIV positive people in rural
18 Malawi could have been overwhelming. It turns out in
19 reality it's only 7,500.

20 So that is overwhelming, and I think I
21 would have stopped if I thought I had to do 75,000
22 people.

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1 DR. GREEN: Thanks, Mark, that was really
2 exciting.

3 We're three years along now?

4 MR. DYBUL: We're three years from the
5 president's announcement, but two years from the
6 first funding.

7 DR. GREEN: A comment and then a question.

8
9 As far as the poverty wealth issue goes,
10 for some of us that was laid to rest a long time ago
11 just from very obvious correlations. In developed
12 countries white gay men have the highest disposable
13 per capita income of any other, most other
14 identifiable groups, and in Africa, early on, I think
15 12, 13 years or so, they did just a crude correlation
16 of per capita income, and HIV rates, and there was no
17 association or perhaps a negative association to
18 poverty, and then more recently, the studies that
19 have come to the deeper or obvious conclusion that
20 wealth gives you mobility, choices, options, and time
21 to pursue sexual exposure possibilities.

22 The question is, is - are there a set of

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1 cutoff values for when a country would be viewed as
2 potentially not achieving the goals? And what are
3 they? When would you decide this isn't working here,
4 we knew it was going to be tough, we are going to
5 have to divert resources elsewhere.

6 MR. DYBUL: Thank you, those are excellent
7 questions.

8 And on your commentary I really
9 appreciate it. Unfortunately, there is a lack of
10 willingness to face things you don't want to face.
11 And having been accused many times of ignoring
12 evidence, the propensity of many people to just
13 ignore evidence on many different topics, because
14 they want something to be a certain way is rather
15 mind boggling to me. But nonetheless it's there, so
16 we fight this on many different fronts, because we
17 want to be based on the evidence; we want to base our
18 activities on what the data show.

19 In terms of your second one, it's
20 actually an ongoing process. And I think an
21 important part of this is, we never anticipated that
22 every country would be on the same trajectory.

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1 So in Uganda because they have a national
2 strategy, not because they have resources - the
3 number of people around the world who think Uganda is
4 wealthy because of their success in prevention,
5 treatment and care is rather amusing to me sometimes.

6 But it was because they had a national plan and a
7 national commitment that predated availability of
8 resources, so they had resources to go.

9 Namibia moved rapidly because the
10 government coalesced rapidly with the partners,
11 including faith-based and community-based
12 organizations, to set a plan, so they're taking off.

13 South Africa, now that they've gotten
14 going, is taking off, probably because of
15 infrastructure.

16 Rwanda looks a little bit more like
17 Namibia, the government and the civil society is
18 coming together to move rapidly.

19 So those are countries we kind of put in
20 what we expected to be a first rapid upswing. So we
21 expect different swings. One is a very rapid upswing
22 to get to where we intended it to be, and then a

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1 leveling off.

2 Other countries were not quite in the
3 same situation, such as Ethiopia, or Nigeria, where
4 infrastructure was very weak and there wasn't much
5 leadership . And there you would expect exactly what
6 we're seeing, a slow upswing, but we're starting to
7 see the uptake after two years of concentrating on
8 building the infrastructure, and building the support
9 that is necessary to expand programs.

10 And then you have countries in between
11 like Tanzania and others that have some, a little bit
12 of the Ugandas, Botswanas, Namibias, South Africas,
13 but still weren't quite there. And there we're
14 seeing a faster initial uptick, but also a much
15 faster upswing now.

16 So we expected all of that. So what we
17 do is ask each of the countries to predict on an
18 annual basis the progress made toward the five-year
19 goal. And when we look at that, many of the
20 countries are exactly on the trajectory we expected.

21 Our resources are based on that
22 trajectory, so our annual appropriations to the

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1 countries, our annual allocation to the countries, is
2 based on that initial trajectory, but also where they
3 are.

4 So if they for example have big
5 pipelines, a lot of money that has been allocated to
6 them but not used, or if they are not reaching their
7 goals, as we put together the next year's allocation,
8 there - we actually reduce the dollar amount that we
9 give them for that year as they're building the
10 infrastructure that's necessary to utilize the
11 resources.

12 That's built into everything we do. It
13 does cause us some problems, for example with
14 Congress. We have to put it in what's called the
15 congressional budget justification, start that
16 process almost 18 months before we actually allocate
17 resources for that year.

18 So we put provisional numbers, but based
19 on the results that come in and our evaluations of
20 where the countries are, we radically modify the
21 dollar amounts that will go to that country that
22 year.

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1 So we do this on an annual basis. We
2 look at the results, and where people are, and then
3 allocate money for the coming year based on that.

4 So far most of the countries are
5 achieving the projections or the direction that we
6 anticipated. Some of them are moving a little bit
7 more slowly. Ethiopia and Nigeria were moving a
8 little more slowly initially, but now they're taking
9 off; they're starting that upswing. So we increase
10 resources as we see that happening.

11 But it's an annual effort using both the
12 March report - that's one of the reasons we ask for
13 the half year way number in terms of where they are
14 on the way to their goals, but also the annual
15 report, so we have both those sets of data to help us
16 in those determinations.

17 DR. JUDSON: Thanks, Mark. Exciting news
18 coming out of the most recent PEPFAR conference.

19 This will be sort of a rhetorical
20 question, because you know my answer to this
21 question. But in light of the accumulating empirical
22 basis for ABC, why is it we still have leading AIDS

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1 experts who say that fidelity and abstinence, sure,
2 we're all for it, but such behaviors have little
3 relevance in the actual lives of women today in
4 Africa.

5 What do you say when you hear that?

6 MR. DYBUL: Well, as to motivation toward
7 why people have these views, we actually try not to
8 attribute motives to people. We try to hope that
9 everyone is trying to do their best with the
10 information available and come up with a good
11 decision.

12 Unfortunately most people don't accord us
13 the same respect, but our view is that everyone is
14 working to try to do the best thing they can.

15 So why people are in that situation, I
16 don't know. I think some of it has to do with the
17 early epidemiology. You know the early epidemics and
18 the early control were in concentrated epidemics, and
19 there is this effort to apply lessons learned from
20 concentrated epidemics to generalized epidemics, and
21 you can't do that.

22 I understand the propensity to do it, but

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1 it makes no epidemiological or medical or clinical or
2 scientific sense, but if you grew up with a certain
3 mindset it's going to be hard to change when the
4 underlying situation changes.

5 So I do think there is an attempt to
6 bring lessons from a concentrated epidemic to a
7 generalized epidemic, and you just can't do that.

8 I've heard the head of the AIDS program
9 in Brazil say if South Africa had just done what they
10 did they wouldn't have a prevalence rate. Well,
11 there is no evidence that Africa ever had an epidemic
12 that looks anything like Brazil's. So you have to
13 apply lessons to a situation and use the evidence
14 base. And I think there is just a lag in that.

15 There may be other motives, but we'll
16 hope that that is the major reason.

17 There is no question that gender plays a
18 role in HIV/AIDS, just as there is no question that,
19 writ large, the basic situation of joblessness -
20 there are many things that play a role. But that
21 doesn't mean you don't use concentrated approaches
22 where you've seen the data.

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1 So on the small issue of how does gender
2 interact, and gender is not relevant to ABC - well,
3 to some degree it's not, but we know if we can focus
4 on men's behavior toward ABC, that will take care of
5 that to a large degree.

6 So you have to target the men, and we
7 have a lot of programs that target the men for
8 responsible behavior, because if the men aren't
9 abusing the women and following those approaches, you
10 get a much different response.

11 But there is no question we need to work
12 on the underlying culture and gender issues, too.
13 And we do do some of that.

14 I think one of the best recent examples
15 is, there was a church in Zimbabwe that had
16 throughout its history taught polygamy, and because
17 of the links between partners and multiple partners
18 and the spread of HIV our folks in country and some
19 others worked intensively with the church to show
20 them the relationship between HIV and multiple
21 partnerships and the spread, and this year, because
22 of HIV/AIDS, they revoked their policy on polygamy,

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1 and said that you should not be polygamous because of
2 HIV/AIDS.

3 So you do have to deal with some of these
4 underlying issues, if you are going to overcome and
5 get to the best results you can get to, which is what
6 we're trying to do, not just to get a good result,
7 but the best possible results.

8 So we are also dealing with some of the
9 underlying gender issues, whether it's targeting men.

10 One of the other things we're working on, there is
11 one place stigma is good, and that's stigmatizing
12 older men who prey on younger girls. And we actually
13 have some programs designed to try to stigmatize
14 transgenerational sex.

15 So we do have to deal with some of these
16 underlying social issues while we're putting forward
17 the best possible programs that we can in a focused
18 way as well.

19 So it's balancing and mixing, which gets
20 again to why we need the president's full request for
21 the focus countries.

22 DR. YOGEV: The question I have is, I was

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1 a bit surprised to hear that you move money from
2 mother to child transmission, they are focusing on
3 the treatment. And when you are also correct, when
4 you give three drugs you prevent 90 percent plus.
5 When you give one drug, you prevent 70 percent. But
6 if you do the simple mathematics with the enormity of
7 the program it doesn't make much sense to give one
8 drug for 4 million women versus two drugs to 1
9 million women, you are going to save more kids and
10 insist on moving into the treatment to help to really
11 get the number that the president was hoping to get.

12 MR. DYBUL: That's a very good question,
13 and it gets to resources. Maybe you can't do the
14 best thing; you can only do what gets you the
15 furthest along.

16 And I think it's a very important and
17 good question.

18 First of all, money is an accounting
19 issue in a lot of ways - where do you count, where do
20 you put the money, not is it really PMTCT.

21 Most countries are moving towards full
22 care and treatment for the mother as well as the

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1 child, because the goal is to have a healthy and
2 happy child to prevent transmission, and one of the
3 best ways to do it is to keep the mother alive, and
4 to keep the family alive.

5 One of the pieces of data that we're
6 presented at this last meeting which really shocked
7 me is that in households where the child lost a
8 parent, even if that child were HIV negative, there
9 was a threefold increase in death in the first five
10 years, because there is no one to care for the kid.

11 And then of course what will happen to
12 these orphans over time without a family structure,
13 without someone to take care of them, we're seeing
14 more and more orphan-run households.

15 So the purpose of preventing transmission
16 is not just to prevent transmission. In some ways
17 it's to have a broader picture.

18 So even under the president's initial
19 initiative, the goal was to utilize resources where
20 possible, to save as many lives as possible now,
21 because you can get single dose therapy out there
22 much more rapidly. But to move towards, as rapidly

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1 as possible, where resources and infrastructure
2 allow, towards that full care and treatment. And
3 that's what we're trying to move towards.

4 But even in the short course therapy, we
5 now know that for not much more money you can have
6 one drug, and for a longer period of time that will
7 cut that transmission rate down further.

8 I was in a meeting in South Africa at a
9 meeting in McCord Hospital that has gone in this
10 direction, and they went from a 50 percent
11 transmission rate to an 85 percent transmission rate,
12 to a 90 percent transmission rate, to zero over the
13 last six months. And that's what we're trying to get
14 to, not only for transmission, but also to keep the
15 parents alive so that the children will have healthy
16 and happy lives.

17 But it's a very difficult balance, and we
18 leave it to the countries to sort that out.

19 DR. BOLLINGER: Thanks, Mark.

20 I have a comment and a question. Comment
21 is about the association between poverty and HIV. My
22 experience obviously is not in Africa; it's in India.

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1 So I'm not sure how relevant this experience is.

2 But certainly as you've described in
3 Africa, there has been a long not only an association
4 with the lower HIV prevalence in poor rural
5 communities than in more economically higher level
6 urban communities.

7 And yet I've never interpreted that to
8 mean poverty isn't important in India in the HIV
9 epidemic, because in fact it's the poverty in the
10 rural areas in India that forces women into the
11 cities; that forces men to seek economic
12 opportunities in the urban areas, where the risk
13 increases.

14 Because again, I agree, they leave the
15 traditional relationships that are present in those
16 rural communities that provide support for lower risk
17 behavior, but are also in situations where the
18 poverty is so severe that it drives them into the
19 city seeking other economic opportunities.

20 And certainly in the case of women,
21 opportunities where they are not empowered to protect
22 themselves.

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1 So while I agree there is lower HIV
2 prevalence in poorer communities, and particularly
3 rural communities in India and maybe in Africa, I'm
4 not yet convinced that necessarily means that poverty
5 is not an important driver in the HIV epidemic.

6 I'm not suggesting PEPFAR needs to fix
7 that. But I think we have to be careful about
8 suggesting that poverty is not an important driving
9 force in the epidemic, even in Africa and Asia.

10 My question is about some of the really
11 encouraging things you said about the ownership that
12 some of your in-country partners are beginning to
13 demonstrate for the programs, some of the additional
14 benefits of the program.

15 And one of the issues that we're thinking
16 about as a group is sort of the transition period,
17 the longer term sustainability of this great initial
18 effort. And that's going to require us more buy in,
19 more ownership from your local partners.

20 I'm interested in your thoughts. My
21 question is about your preliminary thoughts about how
22 that can be done effectively, so that not only is

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1 there greater ownership emotionally and spiritually
2 to these programs, but also financially, and whether
3 there are incentives in place to help assure the
4 sustainability of what you've initiated in some
5 places, beyond simply the hearts and minds issue if
6 you will.

7 MR. DYBUL: Thanks, Bob.

8 On the first point, I actually agree with
9 you. There are many underlying issues. There is
10 almost no underlying issue in Africa or India that
11 doesn't have some relationship to AIDS. I think what
12 these data show over and over again is that we're not
13 going to solve the AIDS epidemic in the next short
14 term by focusing the resources on poverty, and there
15 is an effort to do that, to say this is not an
16 exceptional epidemic, that it should just be poverty
17 reduction, and that's true, you do need that, and
18 we're very pleased that the president has supported
19 the Millennium Challenge Corporation so heavily, and
20 other economic drivers within USAID to build those
21 economic bases so that over time we can advance not
22 only against HIV/AIDS but the basic condition in

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1 these countries.

2 I think it's more important - what we
3 draw from that is not that poverty is irrelevant,
4 because it's not, but that the almost panacea that's
5 being proposed is that if we just move people up a
6 little bit up out of poverty that HIV will disappear
7 is not accurate either. And so we need to work on
8 all these things simultaneously, using the incredible
9 programs the president and Congress has supported to
10 build some of that economic aid. So I don't think
11 anyone is disagreeing with your first comment.

12 In terms of the sustainability, there are
13 two pieces of sustainability in our view, and we've
14 actually just issued some guidance on this. In
15 development terms, sustainability means basically
16 freedom financially and in every other way.

17 In our terms, at least for the near term,
18 in most places, sustainability is going to be local
19 ownership completely where our need is more resources
20 and a little bit of technical exchange. But we need
21 to get to the point where the country and the local
22 folks fully own the program.

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1 To do that we've done a number of things.

2 One is the new partners initiative which the
3 president announced on World AIDS Day to bring more
4 and more leadership up.

5 The other is to push heavily for sub-
6 partners who have moved towards competency to be full
7 partner status, to get them out from subpartnership
8 into individual partnership, so that it's a local
9 group that is fully managing it.

10 The other is to emphasize on local
11 umbrella organizations, because you don't want a lot
12 of small groups that are doing great to have to build
13 a bureaucracy over and over again to manage grants,
14 so we're creating new umbrella grants that will cover
15 those for kind of budgetary accounting purposes, but
16 let the smaller local groups do the work, so that
17 gets more ownership there.

18 We've instituted a policy that Ambassador
19 Tobias instituted initially, and that no more than 10
20 percent of any country's total budget could go to a
21 single organization; we've dropped it to eight, to
22 try and spread the money out so it's not all held in

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1 large international organizations.

2 We're putting contractual language in
3 after two years of fighting with lawyers and
4 contracts officers, which has been just the funnest
5 part of my job and most time consuming I would have
6 to say. But you actually have benchmarks within
7 contracts, within grants now, so that you not only
8 have to report on your success in achieving your
9 numbers; you have to report on what you're doing to
10 turn over what you're doing to local organizations,
11 whether it be government, faith-based, community-
12 based, or whatever organization.

13 So we're doing all these mechanistic,
14 bureaucratic steps to get to that local ownership.

15 Now in terms of sustainability beyond
16 that in the development sense of financial
17 sustainability where you work in India that is
18 probably possible. In China that is probably
19 possible. In Russia that is probably possible, and
20 in a number of other places, mostly in Asia and a few
21 other places.

22 In Africa, South Africa can probably get

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1 there. Botswana can probably get there. Namibia can
2 do a lot more. There are some countries that can do
3 a lot more.

4 But the fact of the matter is, going back
5 to the first issue on poverty, we have to build an
6 economic infrastructure that can support massive
7 costs.

8 You know this year in many of these
9 countries PEPFAR will be supplying \$200 million
10 sometimes more than that; Kenya is \$300 million;
11 South Africa - the countries will not get to the
12 economic development to support those types fo
13 dollars for a long time.

14 You can do things underneath that to
15 support the local infrastructure, which is to try to
16 get government to spend more money on their own
17 programs.

18 So we've been working very carefully with
19 Namibia in this way, to say basically it should be a
20 third global fund, a third PEPFAR, and a third
21 government. We need the government to pick up, and
22 they're starting to.

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1 We're doing some fascinating work within
2 the, for example, government structures, where we
3 will support on a contract basis employees in the
4 government.

5 For example in Namibia we're supporting
6 pretty much everyone doing counseling and testing in
7 the public sector, and about 80 percent of the people
8 doing care and treatment in the public sector.

9 And we're working on agreements -- and
10 we're doing this in Botswana too - we're working on
11 agreements so that over time the civil service
12 absorbs those people into their civil service
13 structure.

14 So we pay for them on a contract basis,
15 and they have a process in place over time they're
16 absorbed into the civil service.

17 So there are a lot of these things we are
18 doing to lead towards that, but outside of a few
19 countries, we're going to have to foot the bill for
20 quite awhile.

21 DR. REDFIELD: Maybe before Joe I just
22 wanted to follow up with a question that leads into

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1 it.

2 Mark, could you sort of tell us, this
3 morning we had a long discussion about the
4 reauthorization of Ryan White. Where are we with
5 beginning to get the reauthorization for it?

6 I understand that the PEPFAR was a five-
7 year authorization, so maybe you could comment on
8 that, because that plays into this, and then Joe, and
9 then Reverend.

10 MR. DYBUL: Well, we've begun the process
11 internally. The fact that Ambassador Tobias left has
12 put us back a little bit, because I think we really
13 need not an acting but a full coordinator to push
14 that forward. It will be our office's responsibility
15 to present the president with options, but ultimately
16 it's going to be the president's decision to lay out
17 his vision for the next five years, even though he
18 won't be in office. He began this, and he will I
19 would imagine want to lay out a vision of where he
20 would see this going, and of course working with
21 Congress.

22 Timeframes, we're still okay, probably.

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1 You know just on - no one is going to want to get
2 into this in 2008. As you all know there's lots of
3 other stuff happening in 2008.

4 So we're probably going to want to begin
5 the process, so a vision is presented sometime in
6 2007, and then start working through the process.

7 We have not gotten in full swing in that,
8 yet, but that would be the normal process, unlike the
9 first time, of course, there is no secret that there
10 is going to be a next phase. So there will be more
11 public discussion.

12 DR. REDFIELD: Joe.

13 DR. McILHANEY: Thanks, Mark. Work is so
14 important.

15 I understand that in Uganda years and
16 years ago a very very popular singer developed
17 HIV/AIDS and died, but was very influential because
18 he went public.

19 That led me to think, as you were
20 talking, about another popular singer, Bono, and his
21 emphasis on forgiving debt, and also HIV.

22 In your opinion do you think he's a

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1 distraction or an asset on all of this? Or do you
2 want to comment?

3 MR. DYBUL: Thanks a lot.

4 (Laughter)

5 Anyone who highlights global HIV/AIDS who
6 has access to us is an advantage. There is still a
7 great deal of lack of understanding of the scope of
8 the epidemic and urgency of need to respond.

9 And I think it's probably less so in the
10 United States. I mean the fact that the United
11 States is now providing as much as the rest of the
12 world combined, we don't say out of pride, we say out
13 of almost astonishment that after the 2001 UN special
14 session the president is the only one in the world
15 who stepped up to say, you're right, there is a
16 massive problem and we need to respond.

17 And so the American people are doing
18 that. We need the rest of the world to respond in a
19 similar way. And anyone who can get the rest of the
20 world to do that I think is important to have
21 everyone step up who can do it.

22 You know we don't always agree with

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1 everything they advocate for. I don't know that we
2 agree with anyone all the time on what they advocate
3 for. But they do play an important role in pushing
4 some of these initiatives forward.

5 And sometime attribution of successes
6 might be an issue for some people, but it's not for
7 us. As many people as want to take credit for what
8 happens, it's great with us, because then they feel
9 more ownership, and will push forward even more, so I
10 think that's great.

11 The fact of the matter is that this
12 administration was interested in debt relief for a
13 long time and worked hard on it, worked hard on many
14 of these issues, the malaria initiative, and many
15 other things too.

16 So I think what he brings to this is very
17 important in terms of getting the word out, spreading
18 the message, and trying to get others to respond.

19 And we work very closely with their
20 organization, they have great people.

21 REV. LUSK: One of my questions you just
22 answered. I was just curious, I thought I heard you

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1 say that the president's initiative has given more
2 money than perhaps all the developed countries
3 together; is that what I heard?

4 MR. DYBUL: Yes, as a matter of fact that
5 is true. As the accounting goes, if you add up what
6 everyone else in the world - I'm talking about
7 developed countries, countries that are considered
8 donors normally. We don't like using that term,
9 because that is not the true relationship; it's not
10 donor-recipient; it's partner.

11 But if you look at other donors the
12 United States is giving about as much as all the rest
13 of them combined.

14 REV. LUSK: Just wanted to just commend
15 the president and the work that he's doing as it
16 relates to the resources that he's allocating. I
17 think that's commendable, being an African- American
18 and knowing that some of those monies are being
19 directed to Africa. And in that way it's
20 encouraging.

21 I'd also just say, I have two questions.
22 One question is, we have an organization, Stand for

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1 Africa. We're in Malawi, South Africa, Mozambique,
2 and we're going to Swaziland and Tanzania and do some
3 work there as well.

4 One of the things that we've noticed is
5 how resilient the people in Africa are, and the
6 indigenous people there actually can do a whole lot
7 of things that I think a lot of people perhaps think
8 they can't do. I mean this whole idea of having
9 missionaries coming from America to do some of the
10 work that needs to happen over there, we've found
11 that the people in Africa, the indigenous people, can
12 do things like some testing; they can do some things
13 that would cost us an awful lot of money if we tried
14 to do them another way.

15 Could you comment a bit about that? And
16 also, that would involve faith based initiatives,
17 some churches and faith-based organizations in Africa
18 that we're working with, we found them to be
19 extremely helpful.

20 The last question is, the new partners
21 initiative, just wanted you to talk a little bit
22 about that, and when the RFP is going to come out.

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1 MR. DYBUL: Thank you, pastor.

2 I think you put your finger on a very
3 important thing, and why we emphasize the importance
4 of having everyone respond to the global epidemic,
5 including community and faith-based organizations.
6 Because they are in the communities. They have
7 credibility in communities. And they can frequently
8 do things at a much lower cost, and get a reach that
9 you cannot get otherwise.

10 And that's why we've encouraged so much
11 the inclusion of faith-based and community-based
12 organizations. Because we won't achieve the
13 president's goals, you cannot get to national scale
14 up without it.

15 The countries that are doing rather well,
16 their national plans, in Namibia and in Ghana, and in
17 South Africa, the scale up of mission hospitals,
18 Kenya, the scale up of mission clinics and other
19 centers and the use of mission centers and faith
20 organizations to expand prevention, care and
21 treatment, is part of the national plan.

22 They incorporate the mission hospitals

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1 into their rollout schemes, and that's one of the
2 reasons that we're moving so rapidly.

3 So we agree completely, and so we're very
4 pleased to continue to see an increase in the faith-
5 based percentage of partners, and also the dollars;
6 there's actually been a doubling in resources for
7 faith based organizations in the past year. And we
8 think that's important, because we're not going to
9 achieve results, we're not going to save as many
10 lives as possible unless they're included.

11 In terms of the new partner initiative,
12 the first request for applications is actually out
13 and due - responses are due July 16th I believe,
14 although I could be wrong about that.

15 There've been a number - there have been
16 four preliminary bidders' conferences around the
17 country to let people know about it, and this is just
18 since the president announced it on World's AIDS Day.

19 There have been two or three more
20 intensive three-day sessions to provide information
21 on how to apply for U.S. government money. One of
22 the problems is, many organizations out there doing

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1 good work, to them the United States paperwork is
2 like a massive wall that's impenetratable. So what
3 we're trying to do is provide information for people
4 to learn how to jump over that wall and break through
5 to explain grants; how to apply for a grant; what is
6 necessary for a grant.

7 We're using a system for the NPI which
8 decreases the burden required for concept papers and
9 things, so you don't have to do 70-page intensive
10 concept papers to get the ball rolling.

11 And then we'll have post-award technical
12 assistance to help build the capacity within the
13 organizations to help maintain that process.

14 This is not new. The U.S. government has
15 been doing this for quite awhile. Some of the large
16 international partners started exactly the same way
17 20 years ago. They're often the groups now who say
18 you shouldn't be doing this, when that's how they got
19 their start.

20 So it's a way to effectively level the
21 playing field. So that everyone has equal access to
22 dollars, everyone has equal competition.

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1 And we think it's essential just like for
2 the faith based groups, we think it's essential to
3 bring in all these partners to achieve the goal. We
4 need everyone engaged.

5 And I hate to get too far off the track,
6 but in 2001 there was an historic document in
7 development. It basically said what we've been doing
8 in development hasn't been working. We need four
9 things to get where we need to go.

10 And everyone in the world agreed, but
11 it's kind of falling away as everyone wants to talk
12 about harmonization and alignment, as if that is
13 going to solve our problems.

14 The four principles were country
15 ownership, good governance, all sectors and all
16 people responding; private sector, public sector,
17 faith based, community based, everyone, because we
18 are not going to overcome these massive problems
19 unless everyone gets engaged; and results based.

20 And that summarizes what we're trying to
21 do with everything, and it is one of the reasons
22 we're pushing forward with the new partners

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1 initiative and these other approaches to build local
2 capacity, because you are not going to get country
3 ownership, good governance, all sectors involved, or
4 the results you need, unless you do.

5 DR. REDFIELD: One last question or
6 comment, Mark, and then we're going to move on. And
7 we want to thank you for the time.

8 You mentioned several times the
9 importance of trying to get the full funding for the
10 president's request for this. You know, again, some
11 of us just sort of hear whether there is money that
12 is going to be moved from the president's initial to
13 the global fund, or the global fund. Obviously both
14 avenues are very important. Is there still tension
15 there? Is there any question about whether the
16 president is going to get full funding on PEPFAR
17 program? Anything this committee could do to help in
18 that regard?

19 MR. DYBUL: Well, the House has already
20 passed their bill. And our budget, at least from the
21 State Department piece - we have multiple buckets of
22 money, but the State Department piece, which is the

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1 biggest piece, which comes in foreign operations or
2 foreign affairs, that falls within something called
3 the 150 account which covers all development
4 assistance.

5 And that 150 account in both the House
6 and the Senate is down considerably from what the
7 president's request is, a couple of billion dollars.

8 Now and that means some money has got to
9 go somewhere. So the House bill is fairly close to
10 the president's request, with a decrease for the
11 focus countries of a couple of hundred - a little
12 over \$200 million.

13 But we're in a process now where the
14 Senate will pass a bill, and then there will be a
15 conference. And we work extremely well with our
16 colleagues on the Hill. There is a bipartisan
17 dedication to HIV/AIDS which is extraordinary. I
18 mean when President Bush took office, the American
19 people were committing \$840 million for HIV/AIDS
20 globally. In 2001, only five years ago, \$840
21 million.

22 The president's first request for PEPFAR

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1 was \$2.4 billion, around 2.4. Congress actually
2 exceeded a little bit the president's request. The
3 second was \$2.8 billion, then \$3.2 billion, and now
4 the president is asking for \$4 billion; more than a
5 quadrupling of where we were when President Bush took
6 office.

7 You don't get that without bipartisan
8 congressional support, without incredibly good
9 working relationships, without good advocacy by folks
10 like Bono and others.

11 So the money has been there. The money
12 has been coming, but we always have to work within
13 the top line budget to try to get what we can.

14 But both pieces are important. I mean
15 the global fund is part of our strategy. It's part
16 of the president's vision and part of our strategy.

17 But given our bilateral strength, we
18 believe our proper contribution is more heavily
19 towards bilateral and global fund. Getting to the
20 question of where the rest of the world is, most of
21 the rest of the world doesn't have that bilateral
22 strength, so if they are going to give, they should

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1 probably give to the global fund.

2 DR. REDFIELD: Well, I know I speak for
3 everyone, Mark, we want to thank you for your
4 commitment, and your continued leadership.

5 (Applause)

6 I think our next speaker, James Shelton,
7 is an acting deputy director for the Office of
8 Population in USAID, and Jim is going to talk to us
9 about directions and level of the global HIV
10 epidemic. I think we've all seen some publications
11 recently in some of the major media trying to suggest
12 whether we overestimated or underestimated the
13 epidemic, so - James, he wants me to give you five
14 minutes to get everybody awake, to go to the
15 restroom, and then we're going to come back. We're
16 going to start in five minutes.

17 (Whereupon at 2:14 p.m. the above-entitled

18

19 proceeding went off

20 the record to return on the record at 2:25 p.m.)

21 DR. REDFIELD: Again, I want to thanks
22 James Shelton for coming. Again, as I introduced

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1 him, he's the acting deputy director for the Office
2 of Population at USAID. He's going to talk about
3 directions and levels of the global epidemic.

4 Thanks, James.

5 DR. SHELTON: Okay, so let me start off by
6 saying that these are my views. They are not the
7 views of the U.S. government or the Agency for
8 International Development.

9 I happen to think they're pretty
10 insightful, but they are just sort of my take on
11 things.

12 I'm an epidemiologist public health
13 person by profession. And my passion is actually
14 prevention, so that's the lens that I'm focused
15 through. I mean I love all the rest of the work, but
16 I'm really interested in that core of HIV
17 transmission, especially in what I call the hyper-
18 epidemics.

19 So I was asked to talk a little about the
20 trends, I suppose in the aftermath of this Washington
21 Post article that came out in April sometime. I
22 didn't actually go back and look at that. I remember

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1 reading it, and I thought, yeah, there's some truth
2 here, but it's kind of exaggerated.

3 In a way, I was actually surprised, there
4 was a very vigorous response from UN AIDS, and I
5 actually have a statement that I'm going to quote
6 from on that.

7 So I'm going to talk a little bit about
8 the numbers and how you arrive at them, but also what
9 it means programmatically, because I'm just going to
10 take this opportunity to kind of make a pitch for
11 what I think is the most important approach to
12 prevention.

13 So if you will bear with me, I think one
14 of the key points, which is like epidemiology 101,
15 but it's funny, myself I didn't pay enough attention
16 to it. But in HIV the relationship of incidence,
17 which is the rate of new infections per population,
18 and prevalence, turns out to be pretty profound.

19 And this is the example of Kenya. And
20 here's incidence of new cases. Now this is modeled.
21 This is part of the problem. We can measure
22 prevalence reasonably well. Incidence is basically

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1 either modeled using computer modeling, but there is
2 a lot of consistency in the data. Or sometimes
3 infections in young people is used.

4 But I'll show you, there's actually two
5 major groups of modelers in the world that are kind
6 of interrelated, one at the Bureau of the Census, and
7 one at UN AIDS, and they kind of work together, but
8 they also work somewhat separately. They have
9 separate estimates.

10 But anyway for the sake of illustration,
11 here is Kenya which probably peaked in '93, '94 in
12 incidence. So notice that at the same time incidence
13 - I've lost my arrow - was actually declining.
14 Prevalence continued to increase, so obviously - for
15 some time - and it wasn't until about 2003 that
16 actually people kind of woke up and said, hey,
17 prevalence has been declining in Kenya for years. I
18 mean I never heard anybody saying that before that,
19 and I'll try to explain that a little bit as we go
20 on.

21 So obviously prevalence is important to
22 understand the burden of the disease, potentially to

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1 some extent estimating treatment; but if you are
2 interested in prevention, you've really got to focus
3 on incidence.

4 And if you are looking up here at
5 prevalence, you are literally behind the curve, if
6 you will.

7 Now these are - this is actually UN AIDS
8 modeling. I got this sort of unofficially. They are
9 not really officially available. But these are
10 basically all the countries in Africa. This is one
11 that we know well, which is Uganda, and then the
12 subject of - can you see that? -- subject, it's kind
13 of got its own nice little early peak.

14 One of the things I wanted to point out
15 though, this is incidence. It's modeled. It could
16 be off slightly, but I don't think it's off a lot.
17 But notice that incidence always peaks, and everyone
18 of these African countries. Now it may be a gentle
19 low peak, or it may be a peak that ends in sort of a
20 kind of tail off, but incidents always peak, which of
21 course is true of all infectious diseases at some
22 point.

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1 Now just to kind of get away from some of
2 that kind of spaghetti in a way, here's - I'm back to
3 Census modeling. I picked these out because they are
4 not - are you having trouble seeing the screen?

5 This is just kind of illustrative.
6 Again, here is I think Uganda. If you want to
7 evaluate prevention efforts, too, you can't just look
8 at the peak. What is really working, since it always
9 peaks, the real question is how fast does it come
10 down?

11 So notice that Kenya comes down, but also
12 Uganda comes down. But some of these other hyper-
13 epidemic countries - notably here is Botswana,
14 Lesotho, and South Africa, which is sort of a later
15 one, these sort of had a peak, but they never came
16 down. They're still like - here is Botswana. Maybe
17 the modeling is off. But it's got incidence of
18 something like four percent of the adult population
19 per year. That's horrendous. So what's happening
20 in HIV/AIDS is that some countries are getting a lot
21 better, especially in East Africa. Some countries
22 never really took off in West Africa. And the real

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1 epicenter is in southern Africa, most notably, South
2 Africa.

3 So the question is, why is HIV so high in
4 southern and eastern Africa, but especially now
5 southern Africa, and why were there these peaks in
6 incidence?

7 So part of the explanation, and this
8 relates a little bit to what Mark was saying, is that
9 there's come a realization that concurrent - this is
10 a belief; this is - it's justified by the modeling
11 and a lot of data; I would say it's still something
12 of a theory in a certain way, but it explains a heck
13 of a lot, which is the concurrent partnerships. And
14 Mark was absolutely right. The knowledge about
15 concentrated epidemics and intervening with sex
16 workers and so forth which was absolutely and still
17 is pivotal to a lot of prevention efforts, notably in
18 India, as well as Cambodia and Thailand and so forth,
19 that model is not what was really going on in
20 southern Africa. It's more an issue of concurrent
21 partnerships and the relationship with poverty is
22 sort of interesting.

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1 And one of the things that in all
2 likelihood that feeds that is the fact that when
3 people are newly infected, they are much much more
4 infectious than at other times.

5 So this is only part of the explanation,
6 and I don't pretend to understand all the modeling.
7 But the part of the problem with concurrent
8 partnerships is that when people are newly infective,
9 and if they have regular partnerships, then you can
10 basically have new infections spawning new infection
11 over and over again, and causing much higher rates.

12 And just to give you a feel for that,
13 there may be also an issue at the tail end when viral
14 load goes up again.

15 Now this is from Malawi, and it's only
16 illustrative, and if I don't purport to make it say
17 that it's totally representative of Africa at all,
18 but this is just to give you a sense. These are
19 actual data. This is a sexual network in Malawi, a
20 study, a published study of seven villages in Malawi.

21 It's actually rural Malawi, and this is actually the
22 two-thirds of the population in these seven villages

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1 are actually linked together in kind of one big ball
2 of yarn of concurrent partnerships.

3 Now, I don't want to exaggerate this.
4 It's not as if you just sort of light a match and all
5 of a sudden the whole thing takes off. It doesn't
6 work like that at all.

7 But it really is the risk of concurrent
8 partnerships that I believe is sort of one of the
9 major factors in southern Africa.

10 So what you have in effect is something
11 of a perfect storm in southern Africa of factors,
12 first of all lack of circumcision, which is very
13 common in West Africa, sort of intermediate to some
14 extent in eastern Africa, not that common anymore in
15 southern Africa, networks of multiple concurrent
16 partnerships of men and women.

17 Let me just go back to that one. This is
18 men and women. It's not as though one person has 20
19 partners, or something like that. It's more like
20 many people have two, three partners, that sort of
21 thing. It's not a youth thing. It's not all that
22 the youth are hypersexual or something like that.

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1 It's a societal thing, or phenomenon.

2 And it plays out in different ways.

3 In addition to those two factors I've
4 already mentioned it's possible that the presence of
5 other STIs and also potentially a different clade,
6 for example, the C clade is I guess thought to be
7 more infectious in southern Africa. I don't happen
8 to think that that is probably all that important.

9 So what is the reason for those peaks in
10 incidence that I pointed out? Well, the most
11 important one is probably simply the epidemic natural
12 history, which is that at some point the people that
13 are most susceptible get infected, and they are no
14 longer able to get infected. And it's compounded in
15 my view by this role of acute infection. Because
16 once acute infection sort of passes, for most people,
17 no longer can acutely infected people infect other
18 people.

19 So the main thing is simply the epidemic
20 natural history.

21 The second most likely thing in my
22 opinion is really just self adopted behavior change,

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1 which is essentially fear based. And I know Ted has
2 made the case for fear-based behavior change, and I
3 think he's right. I don't think it has to be all
4 fear based, but I do think fear plays an important
5 role, and we've kind of done a misservice by the sort
6 of dogma in public health school 101 you don't do
7 fear-based behavior change. Well in fact that's
8 wrong, and that's not what the evidence shows. I
9 think you can overdo it, but I think basically what's
10 motivated this behavior change is, people think that
11 they could die if they don't change their behavior.

12 Then I do think, then there is a small
13 effect of programmatic effects. And I don't think
14 we've been nearly as focused as we could have been.
15 I think we've kind of been sort of not being as
16 knowledgeable or as focused or as action-oriented as
17 we could have been or as precise in this.

18 But I think there have been some program
19 effects.

20 So as I was saying incidence will always
21 peak. The effectiveness of prevention is actually
22 reflected more in the rate and the decline, the depth

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1 of decline. So again my thinking of this has
2 evolved. At one time we were trying to explain what
3 happened in Uganda. So the big question was, well,
4 why was there this peak around 1998, 1999. And I now
5 think well it's not really so much about the peak in
6 `98 or `99, but rather the decline that occurred
7 thereafter and continued on.

8 I still think part of the reduction was
9 the main thing that contributed to that, but it is a
10 slight change in thinking.

11 Okay, now I'm going to shift a little bit
12 to the numbers, because that's actually what Joe
13 wanted me to talk about. And if you are following
14 along in you8r books, this will sort of spoil the
15 suspense. But these are all estimates for the year
16 2003, it just happens that actually about every six
17 months, UN AIDS, WHO, puts out their estimates, and
18 they have estimates for various years.

19 In 2000 year itself the estimate of new
20 infections was 5 million. The following year, again
21 talking about 2003, they downshifted to 4.8 million.

22 And then in 2005 downshifted again to 4.6 million,

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1 and then into 2006 report 3.9 million.

2 So that's all for the same unit. That's
3 quite a downshift for the same year. So something is
4 definitely going on here in terms of global
5 estimates.

6 Let me also point out that
7 parenthetically the 2005 estimate and the 2006 report
8 was 4.1 million. So if you compare that to the 2.9
9 million that they were saying for 2003, what happens
10 every year is that you still see this rising curve.
11 It just sort of gets ratcheted down.

12 So every year the headline is, HIV is
13 increasing, even though the headline in a way could
14 also be, HIV is decreasing. Depends on how you look
15 at it.

16 So to understand how you get to this, it
17 is important to understand the way that these data
18 are collected. And there are really three different
19 ways. I'm going to talk about two ways. There's
20 antenatal care, antenatal settings; there is
21 population based. And then there's also testing
22 among folks at highest risk, which we're not going to

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1 talk about.

2 But the two main ways, traditionally the
3 main way was antenatal sites to estimate prevalence,
4 and I think over time the methodology has gotten a
5 lot better with that.

6 It's not easy trying to do these
7 estimates. My hat is off to these people trying to
8 do them. It's difficult to sort of look at the data
9 and try to come up with good numbers.

10 More recently in the last five years or
11 so, we've been using more population based,
12 representative surveys, especially the demographic
13 and health surveys, which have a long history in my
14 own field, family planning, going back well over 20
15 years. And we basically have added child survivor
16 and now HIV/AIDS in the last five years.

17 Notice that - I guess I'll go ahead and
18 bring out the antenatal care. The advantage of
19 antenatal care is you can do it more often. That's
20 the major advantage. And there are not many
21 refusals.

22 But you have a very select population.

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1 You have women, not men. You have pregnant women.
2 You have pregnant women who happened to go to
3 antenatal care sites.

4 So there is a lot of bias if you will
5 about who goes for antenatal care and where the sites
6 are.

7 And it turns out that even, sort of
8 getting to this previous discussion about poverty,
9 and I very much agree with the point, I actually
10 published on this about a year ago, that actually
11 wealth is more of a risk factor than poverty per se,
12 but there is a very important
13 economic/financial/poverty dynamic that I'm convinced
14 still induces HIV infection. But the fact is that
15 sites that are more urban, and where antenatal sites
16 are, they tend to be district hospitals, so they tend
17 to be places where there are more people. There are
18 more people that are commercially and socially
19 interactive and so forth, and potentially of higher
20 socioeconomic status.

21 The main thing, though, is gender, sex.
22 It turns out that many of these places, the sort of

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1 conversion factors if you will that people use to
2 extrapolate from women to the general population had
3 to be readjusted in a major way.

4 The classic example is Kenya which in
5 2003, and when the DHS survey came out in 2003 for
6 Kenya, the estimate for HIV prevalence dropped from
7 13 to 7, and a lot of that was just because men in
8 Kenya have one-half the HIV prevalence as women.

9 So a lot of what's been happening in
10 these changing numbers is simply that the methodology
11 is getting better, the methodology of the population
12 based surveys is a lot better, and causes a
13 ratcheting down of the estimates. Now that's not the
14 only explanation, but that's a lot of it.

15 So I've already talked about this with
16 the - you have this problem that the antenatal care
17 sites are more urban, they're around areas of social
18 - of higher social interaction and so forth.

19 I also think that there has been a
20 tendency, and I've done it myself, there's been a
21 tendency to look at prevalence, and not look at
22 incidence. And that's partly because incidence data

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1 hasn't been available.

2 But if you are kind of worried about HIV,
3 and you see that the rates have been going up, and
4 now it looks like they might be turning down, and
5 you've got a methodology with antenatal test sites
6 that are - is a bit iffy anyway, you are not going to
7 want to say right away or that quickly, it looks like
8 things are getting better. And to some extent
9 rightly so. I mean I do think you don't want to send
10 the message that everything is a lot better all of a
11 sudden.

12 Another sort of similar thing is that I
13 think there's been actually a major misconception
14 that HIV was going to sort of take off in India and
15 China and other parts of the world in the way it did
16 in Africa. And I think that's just really not the
17 case. And the evidence, I'll show you a little bit
18 of the evidence. But also, they're different sexual
19 patterns, especially for women the number of
20 partners.

21 Then I think - this is kind of a
22 euphemism in a way - I think there is still

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1 processing going on in the minds of people that do
2 these numbers. One of them is that for example China
3 which I'll talk about briefly I guess in 2003 they
4 had an estimate from the government that it was about
5 800,000 total cases, and they didn't have a lot of
6 basis for that. So they sent in a special team in
7 2005, this is UN AIDS, you know, very painstaking
8 hard work, and they decided 650,000 was a better
9 estimate, just based upon - I don't actually know
10 what methodology they did, but I respect their
11 methodology. So when that happens, again, people are
12 afraid, I don't want to give the message that HIV is
13 going down. Because I don't know that that's true.

14 But I also think, I have a little bit of
15 evidence I'll show you, I think we haven't quite
16 caught up yet in terms of the estimates. And I'll
17 show you a little bit on that.

18 So in response to the Washington Post
19 article, this was a statement that they put out, and
20 you'll notice that all the data that I show that came
21 from UN AIDS and from the Bureau of the Census really
22 showed, if you believe the modeling, that incidence

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1 did peak around 2004 or a little bit before in
2 southern Africa. So in fact they're agreeing with
3 that. They're saying that incidence in southern
4 Africa peaked - I went to the website; I couldn't
5 find this document, but I saved it, so if anybody
6 wants it I can share it with you.

7 But then notice it says for the last
8 three years there have been 1.1 million new
9 infections per year. So I don't - I think there's
10 probably been some decline in the last year. Now
11 granted there's another subtlety in a way. Numbers
12 of new infections is not quite the same as incidence,
13 because incidence has population as the denominator,
14 and population is growing a little bit. But that is
15 kind of a refinement.

16 But remember I said that their estimate
17 for 2005 was an increase in global new cases by about
18 200,000 I guess. I don't know how you get to that.
19 If HIV new cases is stable in southern Africa, and I
20 think it's at least stable in India; there are
21 estimates in India that - sub-Saharan Africa is five-
22 eighths of the number of HIV infected; India is

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1 another eighth; that's three-quarters of the world.
2 Their estimates for new cases in India did not go up,
3 and we'll talk about China. I don't know actually
4 know how they're getting to those higher numbers, and
5 they don't give you the breakdown by country
6 systematically.

7 Okay now, this is - I was talking to Bob
8 before the meeting about this. This was published in
9 Lancet I guess in early April online, and this is
10 antenatal care data from India. And Bob's concern
11 that there may be a dilution by this here, in that -
12 that's my term - that as you add more antenatal test
13 sites, and they are in lower prevalence areas, you
14 may actually kind of dilute your numbers down.

15 Notice also that these numbers are really
16 - this is 1.1 percent, and for northern India it's
17 point three percent; that's three per thousand.
18 Think about the precision of that estimate. It's not
19 real good, if you are testing 1,000 women in order to
20 find three cases. It's obviously susceptible to a
21 lot of small numbers.

22 Nonetheless, at face value, if you look

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1 at - these are infections in younger women. In
2 southern India, which is four states in southern
3 India, including a couple where we have pretty active
4 programs, in Tamil Nadu for example, HIV prevalence
5 among younger people which is taken as an indicator
6 of incidence is actually falling fairly
7 substantially.

8 And don't forget that the way the sort of
9 epidemic evolves, even if it's stable, if it reached
10 a point of stability, you'd probably come to a point
11 of declining incidence already.

12 So I don't think we really know entirely
13 what's going on in India, and I still worry about it,
14 but to me it's much more of a concentrated epidemic
15 phenomenon.

16 And China the estimate as I was saying is
17 650,000 HIV positive, and 70,000 new infections. So
18 if you just sort of divide 70,000 into 650- you get
19 something like nine. That ought to tell you that
20 this is a relatively stable, based on the numbers, a
21 relatively stable epidemic, and it's primarily
22 intravenous drug users.

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1 So my view is, incidence has peaked,
2 although it's not this sharp of a peak.

3 Okay, now I'm going to shift a little bit
4 to the programmatic, if you'll bear with me. I heard
5 ABC mentioned a bunch of times in this meeting. I
6 will probably not use it too much, and I'll tell you
7 why.

8 The reason is from where I see, mostly
9 what I see is kind of a battle between the forces of
10 A and the forces of C. And it's unfortunate, and
11 it's - the problem is with that is, first of all it's
12 a lot of wasted energy, but secondly, with some
13 merit, actually, it's always good to have some
14 diversity of views, the real tragedy to me is that
15 actually what is the most important component, which
16 is the B, the partner reduction, which is far and
17 away the most important part of this, has actually
18 been neglected quite a bit, both in terms of the sort
19 of global discourse, but also programmatically.

20 And one of the reasons why I worry about
21 saying ABC, ABC, is because I think people hear A.
22 They hear the A, they don't hear the rest of it.

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1 That's been my observation.

2 And then I don't know how many op-ed
3 pieces I've read where people talk about ABC and then
4 they say abstinence, and they sort of make that jump,
5 which is unfortunate, which is not to say that A and
6 C don't have important roles; they do. I think they
7 have extremely important roles. I just think they
8 are more like supportive roles.

9 And again as Mark was saying, I don't
10 know if any of you got a copy of it. I've got a
11 little piece called "Confessions of a Condom Lover."

12 I have spent almost 30 years promoting condoms, and
13 I feel like I have good condom credentials.

14 And I feel like condom promotion in sex
15 workers has maybe been the most important
16 intervention in the entire global pandemic. I mean
17 it has helped containing what could have been very,
18 very bad epidemics primarily in southeast Asia but
19 also India and other places.

20 However, I don't think that translates
21 necessarily to the epicenter of the epidemic, and I'm
22 going to talk about South Africa a little more. Here

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1 is a place that is literally flooded with condoms.
2 And believe me, I spend a good deal of my life trying
3 to help flood these places with condoms, and I think
4 it's actually been a useful thing.

5 But here, with a population of 48
6 million, 346 million condoms provided by the public
7 sector alone - now this is from the national survey.

8 And in the survey, also, among single youth aged 15
9 to 24, 69 percent said that they used condoms in
10 their last sex act. But still the epidemic is raging
11 on, notwithstanding.

12 So here are some of the limitations of
13 condoms. They are 90 percent effective, but they
14 have to be used correctly and consistently - I'm
15 probably telling you stuff you know. And this is a
16 virus that is not all that infectious to begin with.

17 So in the right situation that can do a lot of good.

18 But they are often not used consistently.

19 More often they are not used consistently, or
20 correctly. There is some data to support that.

21 Also quite importantly, they tend not to
22 be used in these longer term relationships, so that

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1 if you believe the concurrent partnership model for
2 southern Africa, if people are not using these in
3 their established multiple relationships but only in
4 sort of sporadic ones, then you are not getting a lot
5 of benefit.

6 And then the last kicker is that I truly
7 believe that as with basically any other prevention
8 modality, they are subject to risk compensation, to
9 disinhibition, such that people will use condoms, and
10 there again there is enough evidence for this that's
11 in this little essay, that rather than limiting
12 partners, people will use condoms. And then it
13 becomes kind of a tradeoff to some extent.

14 Now, lest I spare abstinence either, the
15 problems I see with abstinence are, of course we
16 already talked about young women. Women may be
17 subject to coercion. My main issue with primary
18 abstinence is it's actually a very narrow effect that
19 you can have on the epidemic directly. Because the
20 average time period between sort of setting aside
21 whether or not you can change that behavior, which I
22 think you can to some extent, the actual time between

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1 the initiation of sex and marriage for example is
2 actually a fairly narrow range, specifically for
3 women. In some other countries, it's a bit broader
4 than that.

5 But also, people have the belief that
6 adolescents are sort of the engine of these
7 epidemics. Somehow I think people generally - well,
8 it's an STI, and it must be young people having a lot
9 of partners or something like that.

10 And indeed that is quite important. But
11 in fact these are generalized epidemics, and it's a
12 sexual behavior not just of youth but of basically a
13 lot of people that are at issue.

14 So just to show you now a little bit of
15 data, this is condom use. Now for Kenya. So we now
16 have - I should have said this - in addition to
17 Uganda, we now have two major successes in sub-
18 Saharan Africa: Zimbabwe, which is not as clear as
19 Kenya; and Kenya.

20 And it turns out though that for Kenya,
21 that serendipitously, or maybe not that
22 serendipitously, but for '93, '98 and 2003, there are

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1 these DHS surveys which are right smack in the middle
2 of this decline in HIV incidence, and are somewhat
3 instructive.

4 This is sort of evidence based judgment
5 we're talking about here; still a judgmental thing.
6 One problem is the methodology change, but you can
7 see that between '93 and '98 actually there probably
8 was a fairly substantial increase in condoms. So you
9 can give condoms some at least in terms of
10 correlation some credit for the effect.

11 Between '98 and 2003 however there really
12 isn't much increase in condom use among men - as
13 reported by men, I should say. Again the denominator
14 changes slightly. If you were to adjust for that, it
15 would actually increase that second bar probably a
16 little bit, because what's missing is the cohabiting
17 nonspouse who tend to have lower condom use. So
18 there is not really much difference.

19 My judgment of this is this sort of
20 correlates with some benefit, but is probably not
21 enough in and of itself to have that much impact.

22 Now here's primary abstinence. And I

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1 actually did this two ways. It turns out primary
2 abstinence is kind of tricky to measure, because it's
3 a cohort phenomenon, and if you want to sort of
4 measure it over time, sort of what time does the
5 initiation start. So it's kind of - and you can't
6 look back at people when they're age 40, and sort of
7 look back and see - you can to some extent, but it
8 becomes difficult.

9 There's not a - I won't spend that much
10 more time - there's not that much change in primary
11 abstinence during this time period, either if you
12 look at it sort of survey by survey, or actually if
13 you look back sort of in time, by people older
14 cohorts if you will.

15 Now in contradistinction to that, this is
16 maybe one of the most important sites I have to show,
17 this is in those three surveys, changes in the number
18 of people, men, reporting multiple partners. And if
19 you remember that sort of slide of all the different
20 partnerships, basically of all age groups, the number
21 of partners that men say they're having - in the
22 first instance, it's the first six months; and then

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1 it's the next 12 months - these are really quite
2 profound changes in my opinion. It's judgment. You
3 can form your own judgment if you like. But to me
4 this is fairly profound. It's actually the number of
5 partners that has a major impact on the epidemic.

6 And of course the example of Uganda was
7 much, much cleaner, because there really wasn't that
8 much condom use or change in abstinence.

9 Now in contradistinction, and these are
10 not DHS surveys, this is actually South Africa, and
11 there is a different research group that does these
12 surveys, and I have a little trouble making the
13 numbers add up, but at face value, these are between
14 2002 and 2005, these are from these two surveys, what
15 percent of men and women having more than one
16 partner. You can see there is a little bit of a
17 decline in women, but if anything there is an
18 increase in men.

19 So you are free to draw your own
20 conclusion. My conclusion is that South Africa has
21 had sort of a situation within inundation by condoms,
22 and not much partner reduction. And the reasons why

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1 that might be. And that hasn't been enough to turn
2 the epidemic around.

3 Whereas I think if you have a platform of
4 partner reduction, and you add condoms, and you add
5 abstinence, and you add a lot of counseling and
6 testing, and you can - and I'll have a slide on that
7 - you can have a major impact. That's the ideal way
8 we should be doing these epidemics.

9 So that's what I'm calling the overall B
10 strategy. And the question is, how do you get to
11 that? How do you support the behavior that people
12 are largely in my opinion doing on their own?

13 I'll skip down here. I think we ought to
14 be using behavior change best practices to reinforce
15 that behavior, and by and large we're not doing that.

16 By and large our prevention efforts are not really
17 focused on job A, if you will, job one. I don't see
18 that happening in the field nearly as much as I would
19 like to see that happen, and to me this was the most
20 important thing we could be doing for HIV globally
21 that could have an impact on the pandemic is trying
22 to reinforce partner reduction and other supportive

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1 kinds of activities, and it's beginning to happen a
2 little bit, and some of it is happening on its own,
3 but we're not doing nearly as much as we should.

4 Part of the reason for that is, I think,
5 many people that are working at HIV, if you say,
6 well, we want to change the general social norm to
7 reduce partners, don't really have a programmatic
8 sense about how you go about doing that. You know a
9 lot of people have medical training and they know you
10 have some feel for counseling, so how do you change a
11 societal norm?

12 Now there's a way to do that. There's
13 actually a fairly straightforward way to do that, the
14 behavior science people can tell you. It begins with
15 an open environment by the government about HIV; that
16 people are dying of HIV. And it's clear messages
17 about concurrent partners and numbers of partners and
18 condom use and abstinence, and so forth.

19 But we really ought to be doing it, and I
20 think we're starting to get there.

21 Let me just digress a second, because I
22 think there are sort of three main strategic thrusts

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1 about trying to affect these epidemics. One is the
2 one you've already heard about, which is, if you
3 reduce poverty, you'll take care of it. And I think
4 we know that will probably not really solve the
5 problem.

6 The second is that if we only test
7 everyone - and I'm exaggerating this a little bit -
8 if we just do voluntary counseling and testing, then
9 everybody - there was an article in Science this past
10 week for China, sort of just talking about testing.
11 I think testing is very important, but I think
12 unfortunately the way it's carried out, we don't get
13 the counseling we need to get the behavior change
14 that we really need.

15 And part of the problem, I mean these
16 research studies show you can do it, but in real life
17 it mostly doesn't happen that much. So it's not just
18 enough to do the testing.

19 But the third major thrust is changing
20 the overall behavior, which is daunting to many
21 people. But part of the solution is that you do mass
22 media, but you also use every fiber of social

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1 capital, which means the faith based groups, the
2 schools, the military, I've listed some of these
3 people, and try to get that consistent message of
4 reducing partners, which is to some extent what
5 happened in Uganda.

6 So I think we ought to be leading with B,
7 and I do think that - the idea is that condoms then
8 have this residual high risk sort of role. And even
9 though I've talked a lot about concurrent partners
10 and so forth and the evolution of these epidemics,
11 it's important to not fight the last battle, because
12 to some extent that's - even though it's still
13 happening - a lot has happened, and we're going to
14 see more mature epidemics where there'll be less in
15 my opinion new transmission, and more people that are
16 HIV infected either with treatment and so forth.

17 So this point about discordant couples
18 ends up being quite an important point. And part of
19 the testimony to the fact that it's not as infectious
20 as we think, this virus, is there are a lot of
21 discordant couples that are having a lot of sex, and
22 they're still discordant.

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1 Okay, so an abstinence programming helps
2 set the stage, forced in and of itself, for
3 responsible initiation of sexual debut. Secondary
4 abstinence, which I should have mentioned, actually
5 is on the increase in a lot of places in Africa, but
6 also sets the general social norm of sort of
7 responsible sexual behavior, and when you do start
8 having sex, have one partner.

9 I'm getting a lot of head nods from Ted
10 over here.

11 And then counseling and testing has got
12 to support the message, and then - oops - sorry.
13 Male circumcision which is right around the corner,
14 it's got to have a strong B component. If the men
15 who get circumcised are then subject to risk
16 compensation such that they then start having more
17 partners or not using condoms or something like that,
18 you've got to have that platform.

19 I happen to think male circumcision,
20 regret that we are not doing a lot more than we are
21 already, because I'm convinced it's quite effective.

22 But vaccines, same point. It's not going to be 100

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1 percent effect. Microbicides, same point. You've
2 got to have that sort of prudent partner platform if
3 you will.

4 So where does the global epidemic stand?

5 Mature generalized epidemics in eastern and southern
6 Africa. Actually a fair number of bright spots. In
7 addition to Zimbabwe and Kenya, and Rwanda, Haiti and
8 probably in Ethiopia there have been some significant
9 declines as well.

10 But it's still raging on in the southern
11 African countries. West Africa is stable. In the
12 Muslim world, I think because circumcision is so
13 prevalent, I find it hard to believe that there will
14 be a whole lot of HIV in really any Muslim country,
15 and that also includes other countries like
16 Madagascar and Philippines where circumcision is
17 close to universal.

18 But in the rest of the world I think what
19 we're facing, and this is a pretty key point, is a
20 lot of pernicious intransigent low level sort of
21 concentrated type of epidemics, that are not going to
22 go away, and we ought to sort of get away from this

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1 idea that AIDS is going to explode or the former
2 Soviet Union is going to explode a la Africa, but
3 rather we're going to have this burrowing difficult
4 kind of epidemic to kind of deal with.

5 And my last message is just simply to
6 lead with the B.

7 (Laughter)

8 DR. REDFIELD: Thank you, James.

9 (Applause)

10 Okay, Dr. Green.

11 DR. GREEN: Yes, I was nodding a lot.

12 Fantastic presentation, Jim. After hearing you and
13 Mark Dybul, one after the other, I feel like I can
14 retire.

15 And I agree with everything you've said.

16 I think it's supported by the evidence, except there
17 is only one comment that I would maybe raise a
18 question about, and I'm sure you know which one it
19 is, and that is that in your estimation the single
20 most important intervention so far, and keep that
21 slide, because it will keep the minds open that need
22 to hear what you're saying.

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1 But just for the record, and I'm sure
2 we're thinking of countries like Thailand and
3 Cambodia, from what you yourself said about the
4 nature of the epidemic in Asia, women tend not to
5 have multiple concurrent partners, I think that the
6 reproductive number is always going to be less than
7 one. Yes, sometimes a man will infect his wife from
8 going to a sex worker, but she is not going to infect
9 someone else. So I think the prevalence would have
10 fallen because of the natural dynamics in Thailand
11 and Cambodia.

12 DR. SHELTON: You could well be right.

13 DR. GREEN: Also in both countries at the
14 same time we had very high condom use in commercial
15 sex, we had a significant decline in the proportion
16 of men reporting going to sex workers, and even
17 reporting casual sex. So we don't know how much of
18 that decline was due to high levels of condom use,
19 and how much to other more fundamental types of
20 behavior change.

21 DR. SHELTON: No, I've made that latter
22 point myself, and it's in the little essay, that in

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1 fact what we've got - and this testifies to the
2 ability to influence behavior - people were promoting
3 condoms and yet we also saw - with sex workers - but
4 we also got a behavior change where men went less to
5 sex - even though there wasn't - there was a little
6 bit of promotion of that, but not a lot.

7 So there's a lot of quote unquote agency.

8 There's a lot of ability to influence this kind of
9 behavior. My own view is that people actually get
10 it. Even if there is all this vague stuff out there
11 about protect yourself, which really doesn't tell you
12 anything or what have you, to some extent people get
13 that this is sexually transmitted. And I better be a
14 bit careful.

15 I just wish we were reinforcing that
16 message, and telling people specifically this issue
17 of concurrent partners in sub-Saharan Africa.
18 Because I don't think people know that at all.

19 DR. GREEN: I totally agree. I hope these
20 slides will be made available? Can we get them in
21 electronic form?

22 DR. SHELTON: Sure, or I can send them to

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1 you, Ted. I've got your email address.

2 DR. REDFIELD: Dr. Sullivan?

3 DR. SULLIVAN: Thank you very much for a
4 very informative presentation.

5 You went by rather rapidly the comment
6 that you don't expect the epidemic or the pattern of
7 the spread in India or China to be like Africa. So I
8 wonder if you would comment a little bit more,
9 because I would have to plead guilty to being one of
10 those individuals whose been saying, if we don't do
11 things we're going to see that. And so it'd be very
12 helpful to understand that.

13 DR. SHELTON: I think the heterosexual -
14 as Ted was just saying - the heterosexual patterns
15 are not like this. My counter to Ted's point was, I
16 think there was sort of a culture in Thailand and
17 Cambodia where men went a lot to sex workers, and I
18 think you can get a fairly high level I think just by
19 that.

20 But the extreme example was China. I
21 mean those women, to some extent they are kind of -
22 here's a situation where social isolation protects

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1 you. That women just do not have that many partners.

2 Not that many women have more partners in China; it
3 just doesn't happen. I mean that's what I'm told.

4 So to get this kind of explosion it might
5 only take five or 10 percent of women or something
6 that are having multiple partners. But if you're
7 down in the half or one percent of women, it's a
8 heterosexual epidemic; you've got to have men-women,
9 men-women. And you know men may be the same
10 everywhere, but if women are different or made to be
11 different - sorry, I'm on thin ice here - if they are
12 made to be different by the social situation, then
13 it's not - you have men having sex with men, and you
14 have all these other things. But you are not going
15 to get to a heterosexual epidemic at this level.

16 DR. REDFIELD: David.

17 DR. REZNIK: Just a follow up. I
18 understand the concepts that you're saying about
19 China. And although I've never been to India like my
20 colleague, Dr. Bollinger has, from what I've read
21 there has been a pretty substantial increase in an
22 epidemic that started in the IDU population and it's

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1 now moved to heterosexual means as its number one way
2 of passing. And although it's 5.7 million cases out
3 of 1.1 billion people, that's a lot of cases. And I
4 think that epidemic to me is somewhat worrisome.

5 DR. SHELTON: Oh, I'm worried about it. I
6 think my very last slide said I'm still worried about
7 India, by the way; or the one before that. But to me
8 it's not a generalized heterosexual epidemic. You
9 don't see that level; that's why the antenatal care
10 levels are still so low. You'll see it spike up in
11 IVUs and then having sex with men and so forth.

12 It takes more to have it spill over, not
13 to mention all the Muslims, which is something like a
14 fifth of India or something like that, they are all
15 circumcised, so that's going to help keep it down.

16 DR. REDFIELD: Joe and then Robert.

17 DR. McILHANEY: Jim, great presentation,
18 thank you.

19 What's your reflection on the U.S.
20 epidemic and why - of what you've said?

21 DR. SHELTON: No, I'm sorry, no. Well, it
22 never went generalized. It's interesting. Fifteen

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1 years ago you heard the same, it's increasing in
2 women. And it does. But it starts from such a small
3 base that it - and circumcision is about 50 percent
4 in the U.S. or so. We're just really lucky it's not
5 that transmissible I guess, and it hasn't evolved to
6 be more transmissible.

7 Yes.

8 DR. BOLLINGER: Just a comment about
9 India, where I've been working since 1992. Like Dr.
10 Sullivan, when I started there, the first case of
11 AIDS was reported in '86, '87, and in the early '90s
12 we saw just tremendous increases in prevalence rates
13 among sentinel high risk groups of sex workers, STD
14 patients. And I was one of the people expecting to
15 see a similar pattern to what was seen and beginning
16 to be seen in southern Africa at the time.

17 But I was finally convinced a couple of
18 years ago to actually write an editorial in Lancet
19 questioning my own presumptions from that time. And
20 I think it's exactly for the reasons that we've just
21 heard.

22 You look at large behavior studies, I

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1 mean again, it's not a major problem. They're number
2 one and number two in the world as far as their
3 burden of infection, but the epidemic is very
4 different, because there is not the bridging group of
5 heterosexual women other than sex workers.

6 You look at large behavioral studies in
7 India that were done a few years ago and they're now
8 being repeated, about 11 percent of men, or married
9 men, in India report extramarital sex, and less than
10 two percent of women. Now compare that to the United
11 States or some other populations, and I think you'll
12 see that particularly for the women they're not a
13 bridging population. Their only risk factors if
14 they're married is their husbands.

15 And that's one of the reasons why you're
16 seeing for instance the antenatal clinic preference
17 in Bombay and Mumbai in 1992, when we started, was
18 the same as Durbin, South Africa; it was one percent.

19 It's not 1 or 2 percent in Mumbai in most places.
20 So it's been a flat prevalence in antenatal clinics.

21 Obviously Durbin has gone straight up.
22 So it's a very different dynamic. It's not that it's

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1 not an important public health priority. It should
2 continue to be a public priority. But it's a very
3 different epidemic.

4 DR. SHELTON: When you have serial
5 monogamy, in other words you have multiple partners,
6 but they are spaced if you will, then presumably
7 there's considerably less risk from that.

8 DR. McILHANEY: Could I just throw a word
9 in right here? Actually the best studies we've seen
10 about sex outside of marriage in this country show
11 that it's really rare for people in this country when
12 the marriage is intact to have sex with anybody
13 except their marital partner. So that could be one
14 of the factors in this country that has kept it from
15 becoming such a problem.

16 DR. SHELTON: But our lifetime number of
17 sex partners actually is pretty similar to some of
18 these countries as it turns out, because people have
19 serial monogamy.

20 DR. REDFIELD: Monica.

21 DR. SWEENEY: I was very interested in
22 your statistic about the prevalence of HIV in women

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1 being double that in men, and I don't remember where
2 you used -

3 DR. SHELTON: This was Kenya.

4 DR. SWEENEY: Kenya. And then you talked
5 about changing social norms to change behavior. Were
6 you also talking about Kenya or Uganda or both.

7 DR. SHELTON: Both.

8 DR. SWEENEY: In this country we have used
9 changing societal norms to change the way we think
10 about and accept smoking.

11 DR. SHELTON: It's a good example.

12 DR. SWEENEY: Do you think we could ever
13 do that with HIV and still not be accused - in
14 smoking no one accused you of being homophobic or
15 whatever the other negative terms they say when
16 you're trying to talk about changing behaviors both
17 in heterosexuals who have multiple partners and men
18 who have sex with men.

19 Can you see any relationship of how we
20 could maybe change societal norms using the smoking
21 model here to try and impact HIV?

22 DR. SHELTON: I think there is a similar

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1 phenomenon such that if it becomes socially declass
2 to indulge in risky sex or - I can see where there
3 can be a social norm where - I don't want to
4 exaggerate it, but in certain contexts it's not done,
5 it's not socially done. It's not cool. It's just no
6 one would think about doing that.

7 And obviously it's sort of a continuum of
8 behavior, but in fact when people talk about social
9 norm, they're not just talking about all the
10 individuals and their behavior. To some extent
11 they're talking about how the group kind of looks on
12 that behavior, and thereby influence the behavior.

13 So yeah, that's part of the objective,
14 and if you push all the buttons, I believe, if you -
15 I really think you can do that.

16 But it's - you got it.

17 DR. REDFIELD: Frank.

18 DR. JUDSON: We previously I think
19 discussed the parallels between tobacco prevention
20 and HIV prevention, and there are really many from
21 the biochemical addictive nature of sex, and
22 nicotine, both play out in dopamine reward pleasure

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1 pathways to some extent, so they are hard to give up.

2 They are pleasurable; they're addictive.

3 For tobacco, I think what we have learned
4 over the years is that there have only been two major
5 factors in a developed country that have really
6 caused us to have the success that we have had. One
7 is the cost of tobacco which has been taken care of
8 somewhat by taxes, somewhat by litigation, which is
9 sort of an indirect tax.

10 The other has been the nonsmoker's rights
11 and laws to back environmental tobacco smoke and
12 indirect tobacco smoke regulations, which really have
13 turned this thing around from smoking was normal,
14 desirable, supportable, to the point where smoking is
15 viewed as socially undesirable and unacceptable;
16 there aren't many places you can do it; your peers
17 don't think it's cool any more.

18 And that same thing hopefully could apply
19 in Africa. When you look at the motivators for
20 people changing sexual behavior, one of them is, far
21 and away the biggest one is understanding AIDS and
22 being afraid of getting it yourself, and believing

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1 that you can change behavior to reduce your risk.

2 Another part, though, would be from just
3 as your looked on poorly if you light up and expose
4 somebody to tobacco smoke, the same thing can be
5 turned around where somebody who is exposing someone
6 to HIV against their behavior, or claiming large
7 numbers of partners, unprotected, that becomes just
8 really a source fo stigma, of positive stigma; you're
9 an outcast if you are out there spreading HIV or
10 getting HIV. And I think we've moved closer to that.

11 DR. SHELTON: And I can see it for example
12 in the behavior of younger women and older men. This
13 is a reciprocal exploitation going on. It's very
14 complicated. But to some extent, young people have
15 strong social group norms, and if the group norm is
16 that that's dumb, or what have you, then I think that
17 that is possible to happen.

18 The nice thing about this is, you know,
19 nobody is saying you can't have sex. People are
20 saying you just need to have one partner, or one -
21 you know one - that's what most of us I think do most
22 of our lives. I don't think it's totally that

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1 unreasonable to try to promote that as a social norm.

2 DR. REDFIELD: Ram, and then I think this
3 will be the last question.

4 DR. YOGEV: Very quick, would you kind of
5 speculate on the economic boom which now is going in
6 China, some places in India. This is a B but in the
7 wrong direction.

8 DR. SHELTON: Yes, I think that would be
9 expected to increase risk for STIs. I mean it's
10 already known for I think for STIs.

11 DR. YOGEV: But just one question, in
12 Shanghai for example there is an increase, and I just
13 wonder how that works against the norm that you
14 traced.

15 DR. SHELTON: I do think in concentrated
16 epidemics you still try to promote this norm. And it
17 relates to sex workers, it relates to condom use and
18 so forth, but yes. In China, even though that is
19 happening, the vast majority of people are still
20 rural. The vast majority of women are still sort of
21 in this sort of situation. I don't think it's going
22 to -

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1 MR. HOLMER: Not so much a question I
2 guess but a follow up to Monica and the discussion we
3 had earlier.

4 This is an international discussion
5 because it relates to the United States, and your
6 emphasis on being faithful and engaging in
7 responsible sexual activity and the group norm.

8 Some of us are old enough to remember
9 when the group norm was engaging in promiscuous sex
10 with multiple partners was something very much to be
11 frowned on. And sadly, that's not as much the case
12 today as it was 30 or 40 years ago.

13 But those norms could change again.

14 DR. SHELTON: I would argue that the norm
15 in the '60s was much more permissive than it is now.

16 So that pendulum has swung back to some extent. And
17 it's a social norm to some extent. I mean I think
18 we've seen it to some extent in this country, to some
19 extent.

20 DR. JUDSON: In Sex in America -

21 DR. SHELTON: Yeah, I read that. I did
22 read that book.

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1 DR. JUDSON: The most recent edition their
2 survey had, and this has been surprising to most
3 people to see America is a totally permissive, maybe
4 promiscuous place: 95 percent of adult men and women
5 in the United States have one or zero partners a
6 year. That is an enormous barrier to the spread of
7 this infection to general population spread.

8 Same thing I think is from living in
9 India for a period of time. When I thought back to
10 what I learned about the culture of India, it is
11 fairly conservative at a family level.

12 The same thing in China, despite
13 communism, it's actually maybe more puritanical than
14 we are.

15 So I think there is an enormous barrier
16 for heterosexual spread I would guess in most of
17 Indian society, Chinese society, U.S. society. We
18 shun that.

19 DR. REDFIELD: Well, Jim, I want to thank
20 you for your time and your comments. Thank you very
21 much.

22 (Applause)

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1 DR. REDFIELD: I think since we had a
2 break between we're going to go through, right?

3 So I'd like to ask John Martin, who is
4 the CEO for Gilead Sciences, to come up. I think
5 people know I've expressed my own point of view that
6 as a practicing physician the early patients I took
7 care with AIDS in 1981, '82, '83 had about a 10-month
8 survival. Now many patients can live in that for a
9 lifetime.

10 Largely that is because of the
11 pharmaceutical industry. And I think John Martin and
12 his company has been a very important part of it.

13 When we asked Mark Dybul about the issue
14 of sustainability, I've also expressed to a number of
15 people on this committee, one of my concerns is, the
16 long term sustainability of keeping the
17 pharmaceutical industry engaged in the effort, as it
18 becomes more and more an epidemic in resource limited
19 areas.

20 And the challenge is to keep that
21 pharmaceutical industry fully engaged so that the
22 best weapons for HIV therapeutics are available to

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1 our government's programs I think are fundamental,
2 and I think the opportunity to have a dialogue with
3 the pharmaceutical industry to see how to keep them
4 engaged, the same way we do the defense industry, and
5 our defense technology, I think is fundamental.

6 So John, I want to welcome you.

7 MR. MARTIN: Okay, thanks, Bob. Am I
8 ready to begin?

9 So thanks for inviting me today. I don't
10 know, maybe I shouldn't use the mike?

11 (Audio difficulty)

12 So I am pleased to have the opportunity
13 to be here today. Thanks for inviting me.

14 I was assigned the topic, the future of
15 HIV treatment. But of course I'm presenting to the
16 group that has come up with these recommendations,
17 and I congratulate you on these. I think they are
18 very good, and in some cases somewhat controversial,
19 that you are making points that will work in fact
20 toward achieving an AIDS-free generation.

21 My title, I believe, refers more to the
22 fact that at Gilead we're working with Bristol-Myers

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1 and Merck to come out with a pill that'll be all
2 three drugs taken once a day in a single regimen that
3 will be available probably well before the end of
4 this year.

5 So to begin with, I think a lot of stuff
6 I'll review in the context of this talk are things
7 that have been discussed by others here, and I even
8 heard them today.

9 We have a number of challenges. New
10 therapies are necessary to simplify treatment,
11 decrease long-term toxicities and resistance, and
12 increase tolerability.

13 And that's what we've been working toward
14 at our company. There's also an awareness now that
15 late diagnosis and lack of awareness increases
16 transmission rates and/or mortality and morbidity.
17 New infections are more prevalent among low income
18 populations.

19 And then some of the challenge we face in
20 emerging work means that there are additional
21 challenges there.

22 So the single tablet regimen is our two

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1 drugs, tenofovir and Entriva, combined with
2 efavirenz, which is provided around the world by
3 Bristol Myers and Merck.

4 And the story begins of the development
5 of this regimen begins at the time we filed for
6 Truvada in the United States and Europe in March of
7 2004, so just over two years ago.

8 Truvada, I believe most of you know, is a
9 combination of tenofovir and Entriva, both once daily
10 medications that have long duration of action, so
11 they combine very nicely together.

12 The filing and approval of Truvada has
13 led to a very successful product. Tenofovir in its
14 forms, in Truvada and Viread, is now the number one
15 molecule in the United States. Last month in May it
16 surpassed lamivudine in sales. So that's lamivudine
17 as lamivudine, Combivir, Epzicom and Trizivir.

18 So this regimen of having a combination
19 product with very well tolerated drugs is in fact
20 been well adopted by practitioners in the U.S.

21 At the time we filed on Truvada we were
22 already talking with Bristol Myers and Merck about

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1 putting together a combination product that would be
2 the first single triple given once a day. And what
3 we realized, it would take some time to negotiate the
4 agreement, because of all the commercial and
5 regulatory complexities.

6 So Gilead we requested from Bristol Myers
7 and got a very substantial supply of efavirenz, and
8 started that spring working on that triple
9 combination product, because we wanted to stay on the
10 critical path of getting this product approved.

11 Also at this time, Truvada by FDA
12 regulations was under a 10-month standard PDUFA
13 review.

14 The two individual products already being
15 on the market meant by regulation there wasn't an
16 unmet medical need for a combination product. And of
17 course everyone recognizes, including government
18 scientists, that this combination product would make
19 a real difference to patients, to improve adherence
20 and make sure that we minimize development of
21 resistance.

22 So the FDA hosted a meeting with us, and

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1 Bristol Myers, and Merck, to talk about ways to
2 expedite the review of combination products. And in
3 fact DHHS announced guidelines for that expedited
4 review in May, and at the same time we with Merck and
5 BMS announced our plans to develop the triple
6 combination product.

7 Subsequent to that, Truvada was approved
8 after only a 4-1/2 month review, so that really was a
9 very impressive effort by DHHS to change the
10 regulations and to work with the FDA, and the FDA to
11 expedite a review, where the product was approved
12 very quickly and on less stability data than would
13 normally be required, but you extrapolate it -
14 accelerate stability to estimate what the shelf life
15 would be.

16 I said working on an agreement was tough.

17 We actually didn't finalize our joint venture for
18 the U.S. until December of 2004, but we did not lose
19 any time in the work of the product, but it did take
20 awhile to establish bioequivalence. That was done in
21 January of 2006, and I think maybe many of you know
22 the story of how this bioequivalence turned out to be

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1 very difficult.

2 Most people think that making a
3 bioequivalent combination, or making a combination
4 product, you just mix them together and press a
5 tablet and ship it off somewhere, and that is
6 certainly not the case. It took us five tries to
7 come up with a pill that was bioequivalent to the
8 individual components. And FDA has a very strict
9 definition that bioequivalence has to be in a narrow
10 range.

11 And that's really important when you
12 think about it, because if you have suboptimal
13 ability, a broader range of exposure, that's what's
14 going to give rise to resistance.

15 So the FDA is right to have a very high
16 standard of bioequivalence so when you're given a
17 combination product, you know you're getting the same
18 amount of drug as if you're taking the individual
19 ones.

20 It turns out efavirenz, the third drug in
21 the regimen, is quite insoluble, and it needs to be
22 specially formulated with excipients. And what we

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1 tried to do was use tenofovir and Entriva excipients
2 to minimize the size of the pill, and that simply
3 didn't work at all. The bioavailability is very low.

4 So what we went to for the final three
5 tries was to have a bilayer tablet with efavirenz on
6 one side; our two drugs, Truvada, were on the other
7 side.

8 The third pill we did was actually pretty
9 close but it was a little bit low, just out of the
10 range of what the FDA would approve.

11 The fourth pill was off, and the fifth
12 pill actually was very good within the range, and
13 that's what we filed for approval in April when we
14 garnered sufficient stability studies for the FDA to
15 be able to review.

16 And now discussions with for the ex-U.S.
17 markets are still ongoing with Bristol Myers and
18 Merck.

19 I would like to say there is another
20 aspect of this that the FDA was very creative on.
21 Earlier, with Viread, to make Viread or Tenofovir,
22 the brand name is Viread, to make it available in

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1 Africa for instance in PEPFAR countries.

2 We were concerned about importation back
3 into our major markets. Viread is a blue pill. The
4 FDA approved another Viread pill that's white for
5 export only, and this is the first product that the
6 FDA did that for, and they really did it within weeks
7 or our request of doing that. It was very much an
8 expedited review, and it comes with a label saying
9 for export only; it's not for use in the United
10 States.

11 That was an example. In the
12 pharmaceutical industry we talk about innovation all
13 the time, and how important innovation is. But other
14 aspects of the U.S. government, throughout their
15 efforts on global AIDS, has been incredibly
16 innovative. And that's one of the ways that the FDA
17 has been innovative.

18 And in fact the day we got Truvada
19 approved, we had a different colored pill approved
20 for export only on the very day. It's part of the
21 same package that was approved in 4-1/2 months. And
22 with the triple we also expect to have approved by

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1 the FDA a different colored pill for export, so the
2 day the product is approved for use in the United
3 States, there will be a product approved for export
4 only.

5 So the partnership that we have with
6 Bristol Myers and Merck, as I indicated, the
7 formulation work was led by Gilead. We just, rather
8 than have a delay, we went ahead and made the entire
9 investment with Gilead resources to make sure we had
10 this product out there as quickly as possible.

11 BMS though has worked very closely with
12 us on the technical aspects, and of course the
13 regulatory filings. The manufacturing is also being
14 led by Gilead, and once the product is
15 commercialized, we will work together with our
16 commercial efforts, medical efforts, to provide
17 immediate access. We'll work together to educate
18 physicians on the product profile, and partly
19 securing formulary approvals as quickly as you can do
20 that. That allows for patients to get access.

21 And finally we have what we believe to be
22 the best in class patient assistance program to make

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1 the product available free of charge for individuals
2 who cannot get reimbursement. This program we put
3 together working with people who deal with this on a
4 day-to-day at medical institutions around the
5 country, including Dr. Redfield's at the University
6 of Maryland.

7 So what we call the single tablet regimen
8 addresses treatment challenges. It greatly
9 simplifies treatment. And that type of
10 simplification has been published to increase
11 compliance by up to 30 percent.

12 Also recently published was a survey, a
13 patient survey, indicating that in one week an
14 average of 17 percent of patients missed one dose;
15 another 17 percent missed two or more doses of more
16 complex regimens.

17 We by doing this these products can
18 decrease long-term toxicity and improve the
19 resistance profile. And it's important to come up
20 with products that have increased tolerability, and I
21 want to show you a little data on that.

22 We compared, and this was published in

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1 the New England Journal earlier this year, tenofovir
2 versus Truvada essentially, so AZT lamivudine, versus
3 tenofovir Entriva, both in combination with
4 efavirenz. And you can see the efficacy at one year
5 is 84 percent versus 73 percent. That's a highly
6 statistically significant result.

7 And so - and that's a real difference in
8 terms of the number of patients that are benefitting,
9 and that is entirely driven by the adverse events
10 profiled. There are fewer adverse events on
11 tenofovir, and that's why the efficacy is higher at
12 that one year time point.

13 Another study, and this is quite an old
14 study - as you can see the number of weeks goes out
15 to 240 now - we compared d4T to tenofovir in
16 combination with lamivudine in this case, and
17 efavirenz, and looked at limb fat. Unfortunately
18 when we started this study, less was known about the
19 issue of lipoatrophy, and we do not have any slide
20 numbers. But you can see at 96, 144, 192, and 240
21 weeks the difference in limb fat is approximately
22 three kilos. That's more than six pounds. That's a

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1 pretty dramatic difference.

2 And what - we do have weight gain at the
3 earlier part of the study, and what you see in the
4 course of one year is both arms gain weight as you
5 expect for AIDS patients, followed by a decline in
6 weight on the d4T arm, and it continued to increase
7 on the tenofovir arm.

8 And this data versus d4T has really
9 helped to highlight some of the concerns about d4T.

10 Okay, well, we've heard a lot about this,
11 education and early diagnosis are necessary to reduce
12 transmission. Many patients are diagnosed late. The
13 Kaiser Family Foundation showed that 39 percent of
14 those diagnosed received an AIDS diagnosis within a
15 year of testing positive for HIV. You heard from the
16 health commissioner of New York City recently that 25
17 percent of AIDS patients - or HIV cases are diagnosed
18 with a concurrent AIDS, and those are serious
19 problems, and these patients have mean survival of
20 only four months.

21 So there is, again, the theme of many
22 presentations here, a need to support a diverse

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1 portfolio of prevention strategies. And we and
2 others are involved with routine testing initiatives
3 to help with early diagnosis.

4 Early and continuous treatment is the
5 most - with the most effective and tolerable
6 treatments will successfully suppress HIV, and the
7 lifespan as Bob mentioned in his introduction, with
8 drugs, has really been improved with the advent of
9 antiretroviral therapy.

10 Many of the things that are thought to be
11 complications of drugs are really complications of
12 HIV, and it's important to have uninterrupted
13 therapy.

14 However, less than half the patients in
15 the United States that are infected are actually
16 being treated.

17 I want to sort of digress here and talk
18 about something else about Viread. The study of AIDS
19 drugs, because so many are on the market, start out
20 in the most advanced patients. Our first two studies
21 that led to approval of this product in the United
22 States and Europe were done in patients with an

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1 average of 4-1/2 years of prior therapy.

2 Then we were able to study the product in
3 naive patients, subsequent to that we were able to go
4 into children, and also studies have started in HIV
5 negative individuals, studying the potential of
6 tenofovir for prophylaxis.

7 And this is all based on data that I'll
8 share with you that dates back more than a decade ago
9 indicating that this product can completely prevent
10 infection in monkey models.

11 Clinical studies with Viread, as I said,
12 began with advanced patients in '96. The product was
13 approved by the U.S. FDA at the end of 2001.
14 Subsequent to that a variety of organizations -
15 you've heard from the CDC I think several meetings
16 ago about the use of tenofovir in some of their
17 studies. The NIH, UCSF, Family Health International,
18 and Gates Foundation have all supported these types
19 of studies.

20 There have been - these studies have, to
21 say the least, been controversial, especially for
22 some individuals concerned about how the patient

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1 populations are being affected.

2 But they are important studies. Just
3 this year the CDC has also announced data indicating
4 that Truvada, as you might expect, is even more
5 potent than Viread in preventing infections or
6 preventing disease in animal models. And we expect
7 the first human clinical data to become available
8 this year.

9 The concern of course is that by the
10 reduction in the number of experiments and the scope
11 of the experiments through a variety of different
12 types of protests that we may not have enough - the
13 number may not be enough to be definitive.

14 So this is data generated by Che-Chung
15 Tsai at the University of Washington, published in
16 Science in 1995, showing that by a variety of
17 measures, antibody virus and PCR, monkeys that are
18 infected with SIV develop AIDS, or monkey AIDS, and
19 of course die. These are very high lethal does. And
20 yet patients that are given tenofovir, and in this
21 case tenofovir is given 48 hours prior to
22 inoculation, but it even works if it's given 24 hours

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1 after, were completely protected by all these
2 measures.

3 And that of course was very exciting data
4 at the time, and it's continued to move forward in
5 studies that are sponsored by major organizations.

6 Well, so government programs are critical
7 for success, moving back to the main theme. More
8 than half of diagnosis were in African-Americans by
9 CDC in 2005, and many patients rely on government
10 assistance.

11 The ADAP program or Ryan White, and I
12 believe Marty talked about that today, provides
13 medications now in this country to 96,000 patients,
14 and eligibility to these programs are administered
15 state by state and municipality by municipality and
16 the eligibility range is from 100 to 500 percent of
17 the federal poverty level, but in point of fact, 62
18 percent are people of color, and 80 percent have
19 incomes below the 200 percent FPL.

20 And the majority are uninsured. So our
21 program provides a link to treatment. It provides
22 same day access and reimbursement counseling.

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1 The approximately 860 U.S. patients are
2 now receiving drug through our access program, and as
3 of February, 2006, the patients who had been on the
4 program who transitioned out of it, 80 percent went
5 to ADAP and 13 percent went to Medicaid. And that's
6 out of - since we launched Viread in the year 2001,
7 late 2001, we've had 7,000 patients move through this
8 access program.

9 And importantly, more than half of our
10 access patients reside in the nine states with ADAP
11 wait lists. And the point I'd like to make here is
12 that although we've worked to make this access
13 program as user-friendly as possible, lack of normal
14 types of reimbursement is an impediment to getting on
15 drugs.

16 Many patients are not in a situation
17 where they can get access through an access program.

18 The health care providers don't have the resources
19 or the know how. We spend quite a bit of time
20 training people on that, but as much as possible, I'd
21 really like to encourage the members of PACHA to work
22 to make sure that Ryan White is appropriately funded,

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1 and also importantly that states do their part to
2 make sure we minimize these wait lists that really
3 are a barrier to access in the United States.

4 And that's important if we're going to be
5 bringing more people in to care.

6 So challenges for the emerging markets as
7 we see them, and I think others do, is the - again
8 it's impacting lower income populations, and the
9 financial resources to treat patients are limited.

10 We also have issues around access in
11 emerging markets. This is challenging, middle tier
12 companies that can afford a middle tier contribution
13 or price. And one example is, we recently announced
14 a partnership with the Brazilian government where we
15 continue to ensure access to tenofovir, that we have
16 lowered the price based on Brazil's economic
17 development level to allow for more of their patients
18 to be on tenofovir.

19 Brazil has had a very successful free
20 program that has about 170,000 citizens on AIDS
21 treatment with another 20,000 expected to enter this
22 year. And this has been a successful program for

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1 sometime. So as you might imagine, many individuals
2 fail in the regimens they're on, and there is a great
3 need for tenofovir.

4 The prevalence rate is similar to the
5 U.S., and the benefit - a recent NEJM article has
6 indicated that savings to Brazil has been \$2.2
7 billion in reduced hospitalizations.

8 It's easy to make the pharmacoeconomic
9 benefit of the treatment with antiretroviral agents.

10 It's very cost effective.

11 China just came up. Again, the
12 conservative number for China is 650,000 people
13 living with HIV. However only 20,000 patients are
14 currently receiving treatment, and some of those are
15 - need another regimen.

16 We've been in discussions with the
17 Chinese government to make both Viread and Truvada
18 available through government programs in China, and
19 are optimistic we can work through the issues to do
20 that.

21 And other emerging markets, also, like
22 Brazil has done, can make a lot of progress by

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1 prioritizing HIV/AIDS.

2 There's tens of millions of people, 30
3 million infected in the developing world, and that's
4 70 percent of all cases. The number is growing,
5 quite a bit, of patients on treatment, to 1.3
6 million, as you know. Yet many of these patients
7 will eventually fail therapy and develop resistance.

8 I enjoyed hearing Mark Dybul's comments
9 today. I think he and others are doing a tremendous
10 with PEPFAR that - providing direct assistance, and
11 importantly, assuring that the products are FDA
12 approved, whether they're branded products or generic
13 products.

14 It is important, and having worked in a
15 pharmaceutical for a number of years, I feel it's
16 really critical that the products that are given to
17 people do have the potency they are what they expect
18 to be, and that the manufacturer who makes it not
19 only has demonstrated bioequivalence, but has
20 demonstrated good manufacturing capabilities, so
21 batch after batch is produced at that same high level
22 of quality.

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1 And the FDA is a very good gatekeeper for
2 that.

3 We provide our product now to 98 least
4 developed countries at no profit, and we now have
5 about 45,000 patients receiving our drug through the
6 program. About 80 percent of that is through PEPFAR,
7 and more of that is Truvada than Viread. We actually
8 are disappointed in that number. We thought it would
9 be a higher number at that time, and have built up a
10 more, we've actually had to do a writeoff on some
11 inventory that I would have liked to see the product
12 get to the patients.

13 And we are as a result considering other
14 models for access, and we'd appreciate any feedback
15 you have on this topic.

16 What we've started doing is talking with
17 Indian generic manufacturers about voluntary
18 licensing for our API in tablet. And a concept is
19 that the not-for-profit aspect of our program may not
20 quite incentivize people to get the largest number of
21 patients on drug, and with multiple manufacturers
22 that do do business in these countries, they could

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1 ensure competitive prices in the broadest access as
2 possible.

3 So what we're prepared to do is do
4 technology transfer to enable production and improve
5 the quality and get the product out there faster, but
6 we're working with the Indian government to make sure
7 that we do that in a way that protects our IP, and
8 that is a critical aspect of this for us.

9 So my final slide, for the future HIV
10 treatment, is the simplified regimens that we and
11 others have been working on definitely will provide -
12 has been providing better outcomes for patients.
13 We've shown that in clinical studies. And is working
14 to help address access issues in the U.S. and around
15 the world.

16 The U.S. treatment market has grown about
17 three percent year after year for a number of years
18 in terms of patients coming into treatment. Last
19 year I don't think it's a coincidence with the better
20 tolerated drugs and combination regimens, the number
21 of patients on treatment actually increased by eight
22 percent in the United States last year after those

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1 multiple years of three percent.

2 So with that I can close, and I believe
3 we'll have time for questions and comments.

4 Thank you.

5 (Applause)

6 DR. REDFIELD: John, I want to thank you,
7 and we'll open this up for some questions right now.

8 If you feel more comfortable sitting up
9 here at the table, you can.

10 Alan.

11 MR. HOLMER: Under Robert's leadership our
12 international committee has had some discussions
13 about what he has termed the importance of a
14 pharmaceutical industry strategy, that is, to make
15 sure that we are able to discover the vaccine.

16 And the question there is, how do you
17 ensure that companies continue to invest in HIV/AIDS.

18 I think it would be particularly useful for me, and
19 I think members of the council, just to hear the
20 thoughts of a CEO of a company like yours. As you're
21 making decisions, you don't even have to apply it go
22 Gilead, what your sense is of other CEOs of other

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1 companies. Because they're trying to balance
2 decisions. Do I invest in cancer or diabetes or
3 cystic fibrosis, or do I go with HIV, invest in
4 HIV/AIDS?

5 But particularly what the impact is if
6 you know that with respect to HIV/AIDS there is a
7 risk that at shareholder meetings you are going to be
8 attacked by critics; that some are going to demand
9 that you give the product away; or that you really
10 don't deserve intellectual property protection for
11 what you've brought to market and what you've
12 discovered.

13 So how do you approach those
14 constellation of issues, or how do you see your
15 colleagues in the industry approaching those?

16 MR. MARTIN: I think for Gilead we've
17 built a company that has the capabilities. And we
18 have a lot of people that worked at - you know, ours
19 is a business - people don't realize, you can't
20 possibly realize how complex drug development is
21 unless you've worked in the field for a lot of years.
22 It's extraordinarily difficult.

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1 When we were a smaller company I met with
2 all new employees after they've been on board for six
3 months and talked to them about the complexity of our
4 industry, and how building a jumbo jet for instance
5 is easier, because the design is based on previous
6 designs. You just put the parts in there, and it's
7 actually very complex.

8 But our industry day-in and day-out, the
9 years it takes to develop a drug, we're making
10 decisions that could go either way on how drug works.

11 And many companies have done less and less in the
12 field of HIV, and we were able to recruit the people
13 who were dedicated to this area to come to Gilead who
14 can make a real difference, and that's how I believe
15 we got to the forefront.

16 So for us we're comfortable working in
17 this area, but it does take - it is quite a
18 distraction. The vast majority of individuals and
19 organizations greatly respects what Gilead has
20 accomplished, and what our commitments are. We're a
21 very small company, and a small part of the resources
22 that are being employed to combat global HIV, and we

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1 feel like we're doing really a very good job of that,
2 and we're very proud of what we've done, and what we
3 could do in the future.

4 Yet the plain fact, our last shareholder
5 meeting had demonstrations. There are people, it's
6 just that type of area. I spend a lot of time
7 dealing with access issues, and my senior management
8 team does too, that is an opportunity cost about
9 working in other areas.

10 So you can sympathize with companies that
11 say that the challenges of this area are just too
12 much. We can deal with that. We really love the
13 contribution we're making, and the response to this.

14 One thing, an example is of how we're
15 trying to work, it's sort of a trial and error thing
16 to go through the iterations, so we recently came up
17 with this Indian generic strategy, because we think
18 that for-profit competition in Africa for generic
19 drugs will increase access and drive down the price.

20 It's not a market that we've been able to
21 grow exceptionally with our no-profit product just
22 doing it by ourselves.

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1 We have worked for hard for registrations
2 in all these countries. It's an art. There are
3 reviews. We've had reviews going on in countries for
4 over two years. Several years after Viread has been
5 on the market, after FDA review of only six months.

6 So I think there are a number of
7 activities that you end up getting involved in as a
8 company when you work in this therapeutic area. You
9 can't begin to imagine when you start, but it just
10 keeps growing as you go along.

11 So we're continuing to work in HIV. We
12 feel like we can continue to make contributions in
13 this area. And we're not giving up on this.

14 The way we very simply think of our
15 products is, AIDS is treated with three drugs, A, B
16 and C. Viread is A. Before Viread, d4T and AZT were
17 A.

18 Entriva is B. And before Entriva
19 lamivudine was B.

20 We don't have a C, and given the patient
21 experience in the United States with NNRTIs and
22 protease inhibitors, we need new classes.

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1 So we have two products in development
2 for integrase inhibitors now, because patients have
3 been exposed to those.

4 And one is already in the clinic. It's
5 in phase two, three type study, given once a day
6 because we had phase one data showing it to be very
7 potent.

8 I don't know, it's sort of a rambling
9 response to your question, but it gives a
10 perspective.

11 DR. REDFIELD: James.

12 DR. HU: I'm very happy that you work with
13 the Brazil government to make drugs, and negotiating
14 with China, and also working with the Indian
15 government to make the generic drugs; I think that is
16 a very good approach to help the world.

17 And I just want you to know that the
18 Chinese government recently organized more than 100
19 generic pharmaceutical companies, Chinese. Maybe you
20 should also approach the Chinese government how to
21 make generic drugs.

22 MR. MARTIN: I wasn't clear I guess.

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1 That's in fact that we're doing. We're working
2 directly with the Chinese government.

3 And we actually have quite a few
4 operations in China, but through Chinese
5 organizations. As you might imagine, Gilead is a
6 company where much of the work we do is done outside
7 the company. Most of our manufacturing we do with
8 other companies, and we manufacture our drug product
9 in Asia, North America, Europe - I mean API, active
10 pharmaceutical ingredient; drug product in similar
11 markets; and we're also doing it in South Africa.

12 But it's through other companies. We
13 have probably created well over a thousand jobs in
14 China, because we buy and source much of our raw
15 materials for the manufacturing from China, so we
16 have knowledge of China.

17 We are also able, just as an aside, we're
18 the inventors and developers of Tamiflu for influenza
19 that became a high profile drug because of avian
20 influenza. We worked with Roche to secure additional
21 raw materials out of China to be able to manufacture
22 that.

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1 So we are definitely working with the
2 Chinese government.

3 The one thing I'd like to emphasize here
4 is, we and others don't believe it's appropriate for
5 the U.S. and Europe, the citizens of these countries,
6 to bear all the costs of the innovation of drug
7 discovery. And so the middle tier markets according
8 to their ability to pay, should actually pay for
9 drugs. And that, the negotiation with Brazil was
10 fairly difficult, but it did end up with a successful
11 outcome that we concluded after about 18 months of
12 negotiation.

13 DR. REDFIELD: Before I call on Frank,
14 maybe you could just follow up on that comment.

15 How do you see tiered pricing? So
16 there's a U.S.-European price. There's a no-profit
17 price. Now you're getting into this, well, we'll
18 figure out what your market can bear price.

19 Particularly with the United States, and
20 I'm going to assume maybe Japan, some of the -
21 Germany, France, England, several of these countries
22 deciding to fund these global health requirements

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1 like PEPFAR, like the global fund, those citizens
2 paying it.

3 Do you think it's really a long term
4 sustainable strategy where we have multiple prices of
5 drugs for different individual countries?

6 Particularly in light of the way our health care
7 access issues are going in this country as it is?

8 MR. MARTIN: I think around the world
9 there are concerns about health care, and the prices
10 of various components of health care.

11 The one thing that - and there is a lot
12 of pharmacoeconomic research on this - is that the
13 HIV products are extremely cost effective. When we
14 launched Viread, we priced it in a range of HIV
15 products that it more reflects sort of what the
16 accepted prices become as opposed to pricing at a
17 premium, because it's a drug that provides a lot more
18 benefit.

19 And that's not necessarily true in other
20 therapeutic classes where you see an escalation of
21 cost. So I also believe that it's - I know the model
22 is, well, maybe we should have a lower price, and

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1 then have the subsidies from the richer governments
2 go to the drugs. But we don't see a way that that
3 has been workable, so we think a better way is to
4 make it available at the lowest possible price
5 without profit in many of the countries around the
6 world, but then make sure that the intermediary
7 countries do pay a fair share, that I acknowledge is
8 kind of a gray calculation how you do it, it does
9 involve some negotiation.

10 We've worked very hard to make sure that
11 the price bands for Europe, Canada and the United
12 States are very similar. We did not launch the
13 product in Canada, until we had a price that we
14 thought was similar to the U.S., because we all know
15 that U.S. citizens get pretty unhappy when there is a
16 lower price in Canada, and rightfully so.

17 DR. REDFIELD: Lower prices everywhere.

18 When you speak of no profit on your slide
19 here, first of all let me say I'm not trying to
20 corner you or anything. I'm a strong believer that
21 invested capital should have competitive returns, and
22 if we don't - if that isn't provided for we're not

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1 going to have new drugs, new vaccines, anything else.

2 But there's a very narrow way of saying -
3 of defining no profit. One would be just simply the
4 incremental costs of the incremental production of a
5 drug that you've long realized most of your other
6 costs on. Obviously a much broader definition would
7 include proportionate research and development and
8 marketing and distribution and regulatory and
9 everything else that goes into that.

10 So are you somewhere in between when you
11 say no profit?

12 MR. MARTIN: Just cost of goods of
13 manufacturing. And we're using our current cost of
14 manufacturing, but the product we're shipping is from
15 earlier in inventory. It's first-in first-out,
16 that's how they do the accounting. And that means
17 that we're actually selling at a loss on an
18 accounting basis.

19 DR. REDFIELD: So it's really at a loss by
20 any other definition, right?

21 MR. MARTIN: Well, it's at a loss by
22 accounting. But it's the price we're basically at in

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1 our manufacturing now.

2 The one thing we underestimated was all
3 the cost of our regulatory efforts which are huge,
4 and they are not included in that. Maybe they should
5 have been, but they're not.

6 DR. BOLLINGER: I would like to follow up
7 to Bob's earlier question. One of the issues we've
8 talked about is how to incentivize this process over
9 the longer term, and I guess what I heard you say is
10 that the current model would be - if I can simplify
11 for my own purposes - is that this nonprofit or loss
12 tier is subsidized by other tiers that can absorb and
13 may actually contribute to subsidizing the cost in
14 other countries.

15 Is that a long-term strategy for
16 subsequent drug development? Are there other - I'm
17 just wondering if that's enough incentive to drive
18 the kind of drug development that I think all of us
19 are interested, particularly for the developing
20 country needs.

21 What I was thinking about, for instance,
22 is - I know Bob is concerned about this as well, and

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1 it was actually in one of your slides, is the
2 resistance issue.

3 And while we expect and really look
4 forward to having a single drug, single pill per day,
5 we've got issues in India and elsewhere of the
6 interaction of these drugs with diabetic treatment,
7 with herbal treatment, with nutrition, with
8 bioavailability issues, that are all - and in fact in
9 my clinic at Hopkins if I have a patient or situation
10 where compliance is an issue, I try to avoid the
11 single-dose drugs because of the pharmacokinetic
12 issues and the risk for resistance. So these are
13 complicated issues. We don't know how they're going
14 to fall out. What it really comes down to is, we
15 need a lot of things in the pipeline, so that if we
16 run into problems with one drug we have some second
17 or third salvage regimens.

18 So we want to incentivize the process,
19 not just for the U.S., but for the PEPFAR program.
20 And maybe that's a long question, but maybe you could
21 tell us whether you think there are enough incentives
22 in the current system, or what else we could be

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1 thinking about.

2 MR. MARTIN: I think in response to Alan's
3 question, I covered some of that. Probably not very
4 articulately, because it's complicated. We keep
5 going through layers - what we believe to be true
6 today seems to be changing tomorrow, and there are a
7 lot fo forces in the world that talk about not
8 wanting to have IP protection at all for our
9 industry.

10 Obviously all of you are aware, and most
11 people are aware, that the IP protection is what
12 allows us to have future products.

13 Yes, I'm very pleased that the
14 administration has very much understood this, and has
15 also stated that we don't want, with our programs, to
16 be giving people regimens that aren't the best
17 regimens that we want to have in the United States.
18 And I think that is a very important concept.

19 We have had a lot of support from
20 Commerce, USTR. The Commerce Department is involved
21 in a lot of foreign trade issues, and the United
22 States Trade Representative is an office of the U.S.

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1 government that also helps us and advises us on how
2 to make sure our intellectual property is protected
3 abroad.

4 The U.S. government has in fact been
5 quite helpful in these things, and it's really
6 important to maintain that type of environment.
7 There are so many big issues in the world, but the
8 trade issues and IP issues associated with
9 pharmaceutical products are very critical to the
10 future of the industry; there's absolutely no
11 question about it.

12 DR. REDFIELD: Ram.

13 DR. YOGEV: I'm unfortunately or
14 fortunately the only pediatrician on the committee,
15 so you can see the question. It's not Gilead, but
16 all pharma companies somehow, because of multiple
17 issue, production, and profit and so forth, put into
18 pediatrics so much behind. For example you are
19 talking about a triple drug when your own drug is not
20 yet available for the pediatric. And how much was
21 the formulation. Also the pharmaceutical companies
22 as a group almost refusing to go with a group which

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1 is NIH supported to try to get to some liaison to
2 help the pediatric to be at the same place so it
3 doesn't come two years later or not at all.

4 Is there any thought in that direction of
5 expediting the pediatric and start working with it
6 with other agencies of the government?

7 MR. MARTIN: So I should have said, and
8 maybe you all know, my background is chemistry, so
9 I'm not a physician, and my knowledge may not be as
10 good as yours on these.

11 So but I do know about the timeline of
12 our product. Our product, Entriva, has a pediatric
13 formulation. Tenofovir has had more complexities.
14 When we were developing tenofovir, we were really
15 appropriately only allowed to study it in adults,
16 because there is concern about bone toxicity related
17 to our animal safety studies.

18 The bone toxicity is secondary to very
19 high dose - probably - secondary to very high doses
20 that cause kidney toxicity and then allow for
21 demineralization of bone. But that concern delayed
22 our ability to take it into children until we

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1 garnered very significant human clinical experience.

2 And I alluded to that when I talked about how we
3 first studied the product in very advanced patients;
4 then in naive adults; then in children and HIV-
5 negative individuals for prevention.

6 So the other aspect, our first pediatric
7 product, we didn't like it. We thought it was okay,
8 but the taste was not good. The limitation, we were
9 not able to achieve the stability we wanted, because
10 it needed to be brought up in water, suspended in
11 water. And it just didn't have quite the stability
12 we needed there, and especially for Africa where it
13 would require refrigeration.

14 So we've now come up with a product we
15 like quite a bit. It's encapsulated sprinkles that
16 can be spread onto food for instance and taken that
17 way. And we do have ongoing phase three studies to
18 get this product out there, and those studies are in
19 fact being conducted, obviously, outside the United
20 States. There just aren't enough patients. The main
21 sites are in fact in Brazil.

22 One thing that I wanted to make a

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1 comment, I didn't get to it, is that countries that
2 do support IP tend to get a lot more investment;
3 that's been shown over and over by economists. So
4 for instance in Canada we have a reasonable price for
5 our products. We also do a lot of work in Canada.
6 We own a manufacturing - we just bought a
7 manufacturing facility in Canada. We've manufactured
8 drug and drug product in Canada since 1992. We've
9 carried out a lot of research in Canada on scaling up
10 of manufacturing. We've done a lot of our safety
11 assessments and pharmacokinetic studies in Canada,
12 clinical studies in Canada.

13 It's also true that we've invested in
14 Brazil, a number of our adult HIV studies have had
15 sites in Brazil, and we're doing the pediatric
16 studies, a large percentage of studies in fact, is in
17 Brazil.

18 DR. YOGEV: I appreciate what you're
19 saying, but the NIH or NIAID has no system that takes
20 the benefit of knowledge in the United States with
21 sites in different places in Africa, Brazil, for the
22 pediatric.

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1 And there is a tendency of pharmaceutical
2 company not to go there because of the IP -

3 MR. MARTIN: No, we work with NIH all the
4 time.

5 DR. YOGEV: I know, but it took us a long
6 time for us to get you to work with us.

7 MR. MARTIN: Is that right?

8 DR. YOGEV: And you're not unique, by the
9 way. It's not a personal attack. I'm trying to find
10 out why pharmaceutical companies now, is all their
11 really openness, are now trying to take the best in
12 the United States, bring it to the rest of the world.

13 But one thing which - it wasn't your
14 company, another company - acknowledging pediatric is
15 not inn the people who are helping, because that is
16 the nature of the beast.

17 How can that be changed to make it more
18 efficient, both for the company and for the children
19 of the world, because the United States, they're very
20 low, and so it's really mainly for them.

21 DR. REDFIELD: And maybe one comment to
22 add to that as you talk, because I want to ask you a

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1 question or two about that, but one of the
2 complexities as I understand this right now for a
3 pharmaceutical company to make pediatric formulations
4 of a product, whereas I'm going to suggest is, they
5 really have to look at it, what tier is that product
6 going to be marketed in. I don't think there is
7 going to be a Canadian-Germany-United States tier.
8 They might be able to get Brazil and this middle tier
9 to pay the R&D cost. I don't think that the third
10 tier is going to be able to do it.

11 It gets at that question, your company
12 has chosen to make some formulations, even though
13 there isn't a pediatric population for you to test it
14 in this country, and there isn't a pediatric market.

15 My addition is, 10 years from now, 15
16 years from now, how do we have pediatric formulations
17 of the new products?

18 MR. MARTIN: I mean clearly, to work in to
19 the pediatric formulations is a personal commitment
20 where you really care about making sure your product
21 is available, because the financial gain, that's
22 clearly been a limitation.

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1 One of the things that is also really
2 important, and I don't know about this specific
3 instance that you're talking about. I do know that
4 we early on engaged in NIH pediatric study that
5 failed to enroll patients. And it just didn't work.

6 So I'm not aware of the current one. I'm
7 just out of the loop on that particular issue. But
8 we do have often freely worked with the NIH. There
9 periodically becomes concerns that if you accept
10 government money in the development of the products
11 that there should be some sort of control of pricing,
12 but we've never really felt that at our company.
13 We've had a very good collaboration with the NIH, in
14 pretty much all our critical studies.

15 One thing I will say is that it's our
16 experience, and I'd be happy to talk to you more
17 about it after the meeting, is that the quickest way
18 to get a product to the market is for a company to do
19 those types of phase three studies.

20 Because companies are geared up to know
21 how to do it. And in the past when we've thought
22 about doing other things, it just hasn't worked out

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1 as well.

2 So we very much believe that even though
3 NIH would provide the financial resources to do it,
4 the quickest way to get these things out to people is
5 for the company to make that direct investment.

6 DR. REDFIELD: Maybe just as a clarifier
7 on that, for some of us to think, recognizing that in
8 order for you to get a formulation approved for
9 pediatrics, studies are going to have to be done,
10 recognizing your goals to make it at no cost, so
11 therefore the R&D cost you don't want to roll into
12 the cost, am I to understand if we want to accelerate
13 the ability to have pediatric formulations for not
14 only the current medications that are approved, but
15 the future, we need to figure out a mechanism in
16 which somebody funds that clinical development path.

17 Because is it realistic to ask the
18 pharmaceutical industry to fund that African clinical
19 development path?

20 MR. MARTIN: Well, that's the way it works
21 now of course.

22 DR. REDFIELD: I know that. I'm trying to

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1 go long term. You know, those are really - I don't
2 know the answer to that question. Those are
3 important policy debates.

4 With a lot of things we do, we find that
5 we with good intentions come up with stuff that has
6 unintended consequences. But I do think that is an
7 important debate to have, the one you're proposing
8 there.

9 DR. REZNIK: Just a few questions to get
10 some clarification. One, we haven't completely
11 eliminated perinatal transmission. We still have
12 about 300 children a year, and every life in this
13 country is important. So thank you for continuing to
14 work on a formulation fo this that will work.

15 I have two questions. One, there is 1.3
16 million people in less developed countries on
17 therapy, but only 43,000 are on a safer less toxic
18 medication. And my question is, are there tariff
19 barriers in place that are causing this? I know
20 there are country-level decisions based on treatment.

21 But when you look at the treatment out there, it's
22 usually AZT/3TC or d4T/3TC. You don't see these

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1 drugs popping up. That's one part of it.

2 And then the other part would be post-
3 exposure. I know you're working on pre-exposure. On
4 post-exposure prophylaxis, this is also doesn't come
5 up as your first line, and I had an exposure in one
6 of my staff a month or two ago, and I literally had
7 to go through a little bit of a battle with the main
8 hospital to get my staff member on your drug.

9 MR. MARTIN: That's too bad.

10 DR. REZNIK: Well maybe you have some
11 marketing issues here.

12 MR. MARTIN: I do know that shortly after
13 Viread was approved New York City put it as
14 recommended for that for instance. So it varies I
15 think in various places.

16 DR. REZNIK: Well, it's a CDC guidelines,
17 I think, that needs to be worked on.

18 MR. MARTIN: Yes, the CDC guidelines, I
19 agree with that. And unfortunately, I think a lot of
20 guidelines around the world follow practice.

21 The barriers are, there are just endless
22 barriers I think. Probably the number one barrier to

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1 our product being readily accepted in places like
2 Africa is that Viread is still not on the WHO
3 essential medicines list, and probably will not be
4 until the end of 2007. So whatever influence you
5 guys have on the WHO I think that's something that is
6 really important, and something that I'm certainly
7 talking a lot about now, because I think that could
8 help with access.

9 We are working through regulatory
10 processes country by country, we underestimated how
11 complicated that would be. And so we're really
12 committed to doing that, but that's a barrier.

13 I don't know, perhaps some of you know
14 more about the economic barriers. Certainly tariffs
15 and taxes and one of your recommendations about not
16 providing drug to countries that do that I think is a
17 reasonable recommendation; or maybe that's some other
18 group's recommendation, but I think that dilutes the
19 economic contribution we make when we pay for those
20 drugs.

21 DR. REZNIK: My final question is about
22 Medicare Part D. Have you all filed - has Gilead

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1 filed - has Gilead filed for an exception in the
2 OIG's office at HHS to allow patient assistance
3 programs for people who have Medicare Part D who are
4 in the donut hole?

5 MR. MARTIN: I don't know about that; I
6 just don't know. I haven't been aware that we have
7 any issues there.

8 DR. REZNIK: Because some companies have
9 been very proactive, I believe, and have done that.
10 Because there are people who are getting stuck with
11 \$3,700 that they can't pay, and Americans are not
12 getting access to drugs, you should be aware.

13 DR. REDFIELD: Joe, last comment.

14 DR. McILHANEY: John, thanks. We all know
15 that one of the true successes in this whole field
16 has been pharmaceuticals. So thank you. You've used
17 the word, commitment, a lot, and thank you for the
18 commitment.

19 David, it seems to me that the care and
20 treatment committee ought to consider a resolution
21 something like you know the pharmaceuticals are
22 really important. It cost \$100 million to develop a

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1 new one. If resistance develops we're going to be
2 needing new drugs, that we might give him some cover,
3 and other pharmaceuticals, some cover with a
4 resolution like that.

5 Because it's such a huge and important
6 part of this whole thing.

7 (Off-mike remark)

8 DR. REDFIELD: David, you're off mike.

9 DR. REZNIK: I was trying to be not on the
10 mike for that.

11 The integrase inhibitors seem to be
12 quite potent with minimal side effects, and can help
13 out even the most multi-drug resistant patients.

14 DR. McILHANEY: The whole thinking is that
15 particularly with these people that are coming to
16 their meetings and causing trouble, it might be of
17 some help if we did something like this.

18 DR. REDFIELD: John, I want to ask you one
19 last question and then turn it over to Joe to close.

20 I want to go back to this issue, probably
21 I'm as frustrated as anybody, about the United States
22 government facilitating access to care that is

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1 profoundly less optimal than the care that we
2 facilitate for our own American population.

3 And while the most immediate reality is
4 that even in my own PEPFAR program that I'm involved
5 in, probably of the 42,000 people we put on therapy,
6 probably 37,000 went on a regimen that we wouldn't
7 use in the United States.

8 Better than nothing, but not a regimen
9 that we would use concurrently in the United States.

10 And you mentioned one of the difficulties with
11 getting optimization has been guideline issues, and I
12 think that's true.

13 I want to take that, and I also want to
14 look forward realizing that five years from now the
15 optimal regimen in the United States may in fact, at
16 least in certain circumstances, be slightly different
17 than what it is today. And there may in fact be
18 optimizations of regimens that are more optimal in
19 certain environments like Africa than would ever be
20 optimal here. There could be a different path.

21 How do you see the issues that are the
22 most critical to you, as one fo the more successful

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1 pharmaceutical companies in this area of AIDS
2 therapeutics in particular. Because we want you to
3 stay engaged. We don't want to have optimal and less
4 optimal therapy; at least I don't think that is in
5 the American public's long term interest
6 particularly.

7 How do you see us avoiding that in the
8 future, or how do you see that that doesn't become
9 reality in the future?

10 MR. MARTIN: When Bob Redfield has that
11 type of distribution of products, I think that there
12 are issues around the system that I don't understand.
13 I'd ask you, what do you need from us.

14 I think you need things from just work
15 that all the people in this room are doing over time
16 to try to influence how these decisions are being
17 made.

18 It's obviously a very challenging and
19 complex arena.

20 DR. REDFIELD: But you see it largely
21 still in sort of the political guideline issue, the
22 WHO guideline, you know many of these countries as

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1 you said, you've applied for - we can't get maybe
2 another strategy because the drug is not registered.

3 It's not registered, because even though it's been
4 two years. So you see it as just a process issue.
5 You don't see it as any fundamental economic
6 hydraulics that need to be corrected?

7 MR. MARTIN: One thing I mentioned that
8 I'd like feedback from this group on, although some
9 of you are probably going to the airport and thinking
10 about your flight delays at this moment, right? Oh,
11 okay, that's right; you're here tomorrow. No
12 problem.

13 So I do think that the profit motive
14 allows things to work better, and having the no-
15 profit motive for - and we ask our partners that we
16 work with to deliver profits at a minimal profit does
17 hamper access to some degree. Because people will
18 work harder if there's competition and not
19 opportunity for profit.

20 So what's why we're approaching the
21 Indian generics, and willing to do technology
22 transfer to them.

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1 I hope that's a good idea. It's kind of
2 one of those ideas I'm sure we're going to second
3 guess, but if we did the alternative, we'd be second
4 guessing too.

5 And I tend to think of almost everything
6 in our industry as process oriented some. I give a
7 lot of talks or interviews to the media, as I'm sure
8 many of you do, and the media is always looking for
9 that ah-ha moment where you actually know something,
10 and it just doesn't happen. Our business is a
11 process where you go step by step, and sometimes
12 you're up and sometimes you're down, and sometimes
13 you're up. And eventually you get to a certain
14 point.

15 And I know that people in a variety of
16 parts of the U.S. government are working extremely
17 hard on these issues to make sure that we get the
18 best possible care to these people in other
19 countries, because that will give the best outcomes.
20 That's the best value for the dollar.

21 DR. REDFIELD: John, I want to thank you
22 very much.

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1 And Joe, I think I'll turn it back over
2 to you.

3 MR. GROGAN: I just want to thank for
4 coming.

5 This is pretty much it for the day. The
6 bus will pick up up downstairs. It's supposed to be
7 here at 4:40, so you've got a little bit of time to
8 make phone calls and find your way down there.

9 So we'll see you tomorrow morning at 9:00
10 o'clock. Thanks very much.

11 (Whereupon at 4:23 p.m. the proceeding in the above-
12 entitled matter was adjourned)

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