

U.S. President's Emergency Plan for AIDS Relief

#### Optimizing Results in PEPFAR Every Partner Every Site Impact on the Global Pandemic

AMB Deborah L. Birx, MD | April, 2017

### **PEPFAR's 3 Guiding Pillars**

Delivering an AIDS-Free Generation with Sustainable Results

AIDS-free Generation

#### **Accountability**

Demonstrate costeffective programming that maximizes the impact of every dollar invested

#### Transparency

Demonstrate increased transparency with validation and sharing of all levels of program data

#### Impact

Demonstrate sustained control of the epidemic; save lives and avert new infections



### What we know now

Thanks to the PHIAs we know:

Retention, adherence and durability of first line ART is much better than expected

From program data and PHIAs we know:

More than half of men <35 yo do not know their status and are not on treatment – this is fueling the epidemic in the 15-24 yo women

#### From program data we know:

Increased funding alone is not adequate to accelerate VMMC progress



### Gaps that need to be addressed

**Geography** – vast difference in HIV prevalence within each country; investments must continue to be targeted for impact

**Populations** – significant age gap in those we have reached and not reached impacting epidemic control: we have successfully reached women > 25 and men > 35

#### Epidemic continues unchecked in men <35 and women < 25







#### HIV Prevalence and Estimated Number of Adults and Children Infected with HIV, 2014



Commission of The People's Republic of China

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#### Dramatic reductions in HIV Incidence Rates Maintaining momentum is key to achieving epidemic control

HIV Incidence Rate by Region & Year, 1990-2015



#### Number of New Adult (15+) HIV Infections in Kenya by Province



Source: UNAIDS, 2016

### New HIV Infections & AIDS Deaths by Year in Kenya



Source: UNAIDS Global AIDS Update 2016- http://aidsinfo.unaids.org/

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#### Percent declines in new **pediatric** HIV infections (2000 – 2015)



#### Percent change in new **adult** HIV infections (2000 – 2015)

Percent Change in New Adult HIV Infections (2000 - 2015)



Source: UNAIDS, 2016; Nigeria data under revision

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### **Rollout of 13 PHIA Surveys**



# PHIA Results:

## Validating the UNAIDS modeled data and showing we are impacting the epidemic



#### Since the Start of PEPFAR, New HIV Infections Have Declined 51-76%

Reduction in rate of new HIV infections (incidence rate) during 12 years of PEPFAR implementation



# Celebrating the remarkable success of PEPFAR, GFATM, and the global HIV/AIDS response

Since the beginning of the epidemic, HIV prevalence has declined by 31% in Zimbabwe 34% in Malawi 21% in Zambia



#### HIV Prevalence by Age & Sex Zimbabwe



#### HIV Prevalence by Age & Sex Zambia



#### HIV Prevalence by age and sex Malawi : Significant new infections in young women between age 19 and 29, men between 24 and 34



Malawi PHIA, 2016

# Young women are at elevated risk for HIV infection

Compared to young men, the rate of new HIV infections in young women is 5 times greater\* in Zimbabwe 8 times greater\* in Malawi 14 times greater\* in Zambia



N under 25 are limited. PHIAs, 2016. EMBARGOED UNTIL DEC 1, 2016

#### Achieving Epidemic Control Astounding Results from Zimbabwe, Malawi, and Zambia

Progress to 90-90-90 in Adults (%)



#### **Acknowledgments for Impact Surveys** CDC – Atlanta ICAP – New York OGAC **ICAP** in Zimbabwe Ministry of Health and Child CDC – Zimbabwe Care, Zimbabwe CDC – Malawi **ICAP** in Malawi Ministry of Health, Malawi CDC – Zambia ICAP in Zambia Ministry of Health, Zambia

This project is supported by the U.S. President's Emergency Plan for AIDS Relief (PEPFAR) through CDC under the terms of cooperative agreement #U2GGH001226. The contents are the responsibility of ICAP and do not necessarily reflect the views of the United States Government.













# **Transparency and accountability** Using data to achieve more with flat budgets

# PEPFAR: Remarkable Expansion of lifesaving services with flat budgets



#### **PEPFAR Results for 2016**

### 74.3 Million People were tested & counseled for HIV



## **PEPFAR Results for 2016** 11.5 Million Men, Women, & Children on Treatment 1.1 Million Children on Treatment – a 97% increase in 2 years PFPFAR

# **PEPFAR Results for 2016** 11<sub>-</sub>7 Million VMMC

(voluntary medical male circumcisions)



#### **PEPFAR Results for 2016**

## Nearly 250,000 Babies born HIV Free in 2016

### Cumulative total of nearly 2 million since the start of PEPFAR



#### **PEPFAR Results for 2016**

6.2 Million Orphan and Vulnerable Children received care and support



Country-Specific Partner Management



	Partner Monitoring Strategy		FY 16 HTC-TST	HTC YIELD
		IM	% PERFOR MANCE	
50,000	HTS-YIELD PARTNER 140. PERFORMANCE	0% University Mailman School of	63%	1.8%
40,000	117.6%	0% University	68%	2.0%
	<b>16,426 99.8%</b> 100.	California at San 0% Francisco		
30,000	93.7% 95.7%	Kenya Episcopal Conferenc e	113%	2.5%
20,000	<b>74.9%</b>	% Elizabeth Glaser Pediatric AIDS	67%	1.6%
	<b>28,372</b> 6,940 60.0	% Foundation PAMOJA Christian	<sup>1</sup> 244%	1.8%
10,000	<b>16,780 13,983</b> 40.0	Mealth Associatio % n of Kenya CENTERS	5 1 <b>2</b> 2%	1.2%
0	9,535 5,465 5,400 4,415	FOR HEALTH SOLUTIO		
	20.0	Eastern Deanery AIDS	118%	1.8%
(10,000)	0.0%	, Relief		

#### Examining distribution of site performance to find underperforming sites hidden within good overall results

Coverage of HIV known status among TB cases, by site, Province and partner, APR16



#### Integrating performance and volume analysis to target remediation to have most impact



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Youth Bulge Overview of demographic shifts and the need to adjust our response accordingly

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#### Youth Bulge in Zambia



Young Men Population: 781,000 Young Men PLHIV: 38,000 Young Women Population: 772,000 Young Women PLHIV: 66,000

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Young Men Population: 1.6 million Young Men PLHIV: 48,000 Young Women Population: 1.6 million Young Women PLHIV: 77,000
#### Youth Bulge in Malawi



Young Men Population: 880,000 Young Men PLHIV: 23,000 Young Women Population: 922,000 Young Women PLHIV: 62,000 Young Men Population: 1.9 million Young Men PLHIV: 34,000 Young Women Population: 1.9 million Young Women PLHIV: 61,000

PEPFAR Source: US Bureau of the Census, 2017 & UNAIDS, 2017

#### Youth Bulge in Zimbabwe



Young Men Population: 1 million Young Men PLHIV: 72,000 Young Women Population: 1 million Young Women PLHIV: 119,000

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Young Men Population: 1.6 million Young Men PLHIV: 59,000 Young Women Population: 1.5 million Young Women PLHIV: 91,000

### Youth Bulge in Sub-Saharan Africa: Larger than in China and India, with **double** the number of 15-24 youth compared the start of the epidemic

**Figure 4.9** Projected Growth of Youth Population 15–24 Years of Age in Sub-Saharan Africa, China, and India, 1950–2050





Source: World Bank, Africa Development Forum, 2015

# Evolving the Program to end the epidemic



Young adult men (23-35) INFECT adolescent girls & young women (16-23) who then grow up to infect their male peers (24-29) AND THE CYCLE **CONTINUES...** 





# The Solutions:

Risk Avoidance, risk reduction and sexual violence prevention through DREAMS

EPFAR

# Young women and girls account for



#### of new HIV infections among adolescents in sub-Saharan Africa



# 1 in 3 girls in the developing world are married before age 18



Source: Girls Not Brides, www.girlsnotbrides.org, 2016

### DREAMS COUNTRIES

Solutions must be ready for rapid implementation in one or more of the 10 DREAMS countries

Kenya
Lesotho
Malawi
Mozambique
South Africa
Swaziland
Tanzania
Uganda
Zambia
Zimbabwe

Determined

Resilient Empowered

owered AIDS-Free

Safe

Mentored



### **DREAMS-like countries**

5 new countries will receive funding through their Country Operational Plans (pending the COP review) for **DREAMS** like activities for FY18 With a focus on risk avoidance In 10-14 year old girls.

Botswana

**Cote D'Ivoire** 

Haiti

Namibia

Rwanda



Resilient

Empowered

A AI

AIDS-Free

Mentored

Safe





#### In its first year, the **DREAMS** Partnership reached more than

# ADOLESCENT GIRLS AND YOUNG WOMEN

with critical comprehensive HIV prevention interventions







#### Sexual Violence among 13-24 Year Old Female Respondents Within the Past 12 Months



#### **Swaziland Priority Populations for Prevention**

OVC primarily 10-17, and a focus on 9-14 y/o for risk avoidance and sexual violence preventions

Population: 353,178 71% are OVC<sup>†</sup> Adolescent Girls 15 – 19 Risk avoidance and reduction *Prevalence: 10.1\** 

Young Women 20 – 29 Risk reduction *Prevalence: 32-47%\*\** 

 Young Men

 VMMC, Condoms, PrEP

 20 – 39

 Prevalence: 7-47%

 20-24: 7%
 25-29: 21%

 30-34: 37%
 35-39:

 47%\*\*

Increased focus on identifying the most vulnerable age/sex segments (e.g. out-of-school rural adolescent girls, remote poor, mobile males with money)

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Source: PEPFAR, Swaziland 2017

# Challenge need to accelerate progress and improve linkages

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### Annual VMMC Results (2009 – 2016)

#### PEPFAR-Supported Voluntary Medical Male Circumcisions, Annual Results FY2004-2016



# Using data to identi gaps in programmin Failure to identify young people under 35 and link them to treatment PEPFAR

# Awareness of HIV positive status by age – those under 30 unaware they are HIV positive

Percent of HIV positive individuals aware of their HIV status, by age, Pooled data from Malawi, Zambia, and Zimbabwe, 2016



Prepared by ICAP on September 12, 2016 in response to request from OGAC Preliminary data, not cleaned, unweighted and subject to change

#### Progress to 90/90/90 in adolescents and young adults (15-24 years old) (%)



# Country-Specific Results:

# Demonstrates the need to focus on case-finding and linkage to treatment



#### Swaziland Population Pyramid by sex, HIV

positive status, and whether they are on treatment





#### **Swaziland Population Pyramids – Regional**



Population Male

60-64

55-59

50-54

45-49

40-44

35-39

30-34

25-29

20-24

15-19

10-14

5-9

0-4

30,000



0.000

13,788

1,787

2.212

2.673

3,285

4,268

5,823

7,545

10,021

12,219

13,434

2,018

2.624

3.497

4,737

6,120

7,622

8,723

10,373

12,248

13,373

13,497

15,348

16,792

20,000

#### Namibia: National ART Gap by Age and Sex

Young men and women aren't on treatment



#### Namibia: ART Gap by Age and Sex





Source: PEPFAR Namibia, 2017

## Botswana : Cascades by Age & Sex as of FY17Q1 missing men across ages and young women



Source: PEPFAR Botswana, 2017

# Botswana : Cascades by Age & Sex as of end of FY18 – addressing the gaps in



Source: PEPFAR Botswana, 2017

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#### CI: Treatment Targets through 2020

Years	Target ART (All)	Target ART Coverage (All)	Male Target	Coverage Male	Female Target	Coverage Female
2016	211,600	46%	70,533	36%	141,067	53%
2017	262,200	57%	87,400	45%	174,800	66%
2018	312,800	68%	125,120	64%	187,680	71%
2019	363,400	79%	145,360	74%	218,040	82%
2020	414,000	90%	165,600	85%	248,400	94%



Source: PEPFAR Cote d'Ivoire, 2017



#### COP15 HIV Testing Models, Yield and Cost Per Positive Case Identified





#### Testing by Modality by SNU Prioritization



Accelerating Children's Treatment (ACT)

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### ACT Results, 2015

#### **PEPFAR** is supporting

# 567,000 children with life-saving antiretroviral treatment in the ACT countries up

from 300,000 just 12 months, 267,000 additional children on treatment and lives saved due to ACT

#### Importantly, **1.1 million children** are now on treatment through PEPFAR a 97% increase in 2 years.


#### Pediatric vs Adult ART Coverage,



Source: UNAIDS, 2017



Summar

## Need for Continuous Assessment of The Epidemic in Real Time and Partner Performance



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#### **Going forward**

- Developing a assay that not only diagnosis HIV and if a recent infection
- Continuous Improved partner performance using quarterly data and cost analysis
- Must know the areas of higher transmission and understand the primary transmission risk by age group and population
- More aggressive prevention for young women 15-19 utilizing successful elements out of the DREAMS
- Aggressive Prevention for young men: continued expansion of VMMC
- New testing and treatment strategies needed to reach < 35 yo to ensure access to treatment



#### Our work is far from done. This week:



Over 2,000 children died from HIV

### Over 19,200 adults died from HIV

Over 2,800 babies were infected with HIV

Over 37,000 adults were infected with HIV, of which more than 7,500 were young women





# Thank You!

PEPFAR Dashboards Using Data for Decision Making



