



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

HIV in Women

Why We Need Female-controlled Prevention

Heather Watts, MD | March 21, 2017

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



Disproportionate Success in Epidemic Control by Age Group

New HIV Infections by Population and Year



Sources: * UNAIDS AIDS info Online Database, 2016; ** 15-24 yrs age group projected based on Africa Development Forum / World Bank 2015, "Africa's Demographic Transition: Dividend or Disaster?"

Incidence of New HIV Infections 2015



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

Understanding the Youth Bulge: Why are there more adolescents than ever before? The Millennium Development Goals helped more babies stay healthy and live longer now the Sustainable Development Goals aim to help this new generation of adolescents stay HIV-free Millennium **Sustainable Development Goals Development Goals** MDG: 4 SDG: 3 **Reduce Child Mortality** Health and Wellness MDG: 5 SDG: 5 Improve Maternal Healthcare **Gender Equality** MDG: 6 SDG: 15 Number of Adolsescents Combat HIV/AIDS **Reduced Inequalities** Infant Mortality Results **Projected Results** More babies were born healthy More adolescents living healthy, and survived past infancy **HIV-free lives** 1990 2000 2015 2030 Reduction in mother to child 90/90/90/UNAIDS goals transmission of HIV 2000-2015 2015-2030

Youth Bulge in Zimbabwe



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

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

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

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**

Youth Bulge in Zambia



Young Men Population: 781,000 Young Men PLHIV: 38,000 Young Women Population: **772,000** Young Women PLHIV: **66,000** Young Men Population: 1.6 million Young Men PLHIV: 48,000 Young Women Population: **1.6 million** Young Women PLHIV: **77,000**



New HIV Infections among adolescent girls and young women

AIDS-Free

Mentored

Safe

New HIV infections among adolescent girls and young women (aged 15–24), sub-Saharan Africa, 2014



Empowered

Source: UNAIDS estimates, 2014.

Resilient

Source: UNAIDS, 2015

Determined

New HIV infections among young women (aged 15-24 years), global, 2005-2015





Stark Disparity in HIV Prevalence in young women & young men

Prevalence of HIV among high school students in rural KwaZulu-Natal, South Africa (2014)



HIV Prevalence by Age and Sex

Population-based HIV Impact Assessments







Females Males

Compared to young men, the rate of new HIV infections in young women is

Error bars represent 95% confidence intervals.

5 times greater* in Zimbabwe
8 times greater* in Malawi
14 times greater* in Zambia

Acknowledgments for Impact Surveys

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Prevention and Treatment for <30





Adapted from: Dellar R, Tanser F, Abdool Karim Q, et al. Manuscript in preparation. / Abdool Karim Q. HIV infection in young women in Africa: An overview. Presentation at AIDS 2016. http://programme.aids2016.org/Programme/Session/1257.

HIV Prevalence and ART Use Among Men in Partnerships with 15-29 yo Women in South Africa

Evans et al, AIDS and Behavior 3/7/2017



Fig. 2 HIV status and ART use among men by partnership type: agesimilar (<5 year age gap), age-disparate with an age-gap of 5–9 years, and age-disparate with an age-gap 10+ years, with the

analyses conducted separately by age of their female partner (15-24 years old or 25-29 years old)

Viral Load Suppression Rates by Age and Sex from PHIA Data





Error bars represent 95% confidence intervals.

Viral suppression rates are below 50% in men under 35, increasing risk of transmission to partners.

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...**





HIV Risk and Mitigation



Lutz and Small 2014

HIV Prevalence and Inequality as Measured by the Gini Co-efficient



From Piot, Greener, and Russell 2007. See Cash Transfers and HIV Transmission UNDP discussion paper by Lutz and Small, 2014.





Access to Sexual and Reproductive Health Services Crucial to Empowering Young Women



Data from the most recent DHS analyzed by Rick Olson of UNICEF.

Percentage of 13-24 Year Old Female Respondents Who Reported First Sex as Forced/Coerced



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



Source: VACS, 2016

*Data for Zimbabwe only available for 13-17 year old female respondents.

Disclosure and Service Usage 18-24 Year Old Female Victims of Sexual Violence*, VACS



* Among those who experienced sexual violence prior to age 18

Source: VACS, 2016



Education reduces risk of HIV acquisition



Study in Botswana compared young women and men completing 9 versus 10 years of education

One additional year of education for adolescents can reduce HIV acquisition before age 32 by one third

AIDS-Free

 The protective effect of education is even stronger among young women – risk of HIV acquisition was cut nearly in half

Empowered

Source: De Neve et al., The Lancet, 2015

Determined

Resilient

Safe

Mentored



Our world is home to 1.8 billion young people between the ages of 10 and 24, and the youth population is growing fastest in AFRICA nearly 2% every year. If adolescents were a country they would be the most populous country. Within this generation are 600 million adolescent girls with specific needs, challenges and aspirations for the future.

