# Notice of Special Interest: HIV and Women

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## Notice of Special Interest: HIV and Women

**Concept Clearance:** New Limited Competition

Title: Notice of Special Interest: HIV and Women

**Objective/Purpose:** To highlight interest in receiving research grant applications focused on HIV and women

Funds Available and Anticipated Number of Awards: Contingent upon NIH appropriations and ICO partnership

Award Project Period: Determined by mechanism



### Global statistics: Women and HIV in 2021

- 54% (~20 million) of all people with HIV are women
- Adolescent girls and young women (15-24 yrs): 2X more likely to live with HIV than male peers in sub-Saharan Africa (where there are 4900 new HIV diagnoses weekly)
- 35% women with HIV experienced IPV and are 1.5X more likely to acquire HIV
- 20% of transgender women were living with HIV
- Transgender women have 14X higher risk of acquiring HIV
- PrEP is underutilized by women for whom it is indicated
- Women with HIV are aging, and aging women remain at risk of acquiring HIV





UNAIDS Global HIV & AIDS statistics – Fact Sheet. https://www.who.int/data/gho/data/themes/hiv-aids



### **US statistics: Women and HIV in 2021**

- 23% (258,000) of people with HIV in the U.S. are women
- Women aged 25 to 34 had the highest number of new HIV diagnoses; new diagnoses among women 55 and older increased 7% from 2015-2019
- In 2020, 20% of new HIV diagnoses were in women (18% cisgender; 2% transgender)
- In 2019, Black and African American women accounted for 13% of the population and 54% of new HIV diagnoses
- Only 10% of U.S. women who could benefit from PrEP were prescribed PrEP in 2019

## **Maternal Morbidity & Mortality with HIV**

Globally, 81% of the 1.3M pregnant people living with HIV received ART

**Estimating maternal mortality in PWH is complicated:** 

- In 2017 WHO estimates 1.22% of maternal deaths are HIV-related
- Varies by region and is affected by fluctuating policies

#### What we do know:

- Breastfeeding/chestfeeding is complicated by HIV status
- HIV is associated with an increased risk of comorbidities that compound the risk of death during pregnancy

#### Sources:

Trends in Maternal Mortality: 2000 to 2017. Estimates by WHO, UNICEF, UNFPA, World Bank Group and the United Nations Population Division Calvert C, Ronsmans C. The contribution of HIV to pregnancy-related mortality: a systematic review and meta-analysis. AIDS. 2013 Jun 19;27(10):1631-9. https://www.unaids.org/en/keywords/pmtct

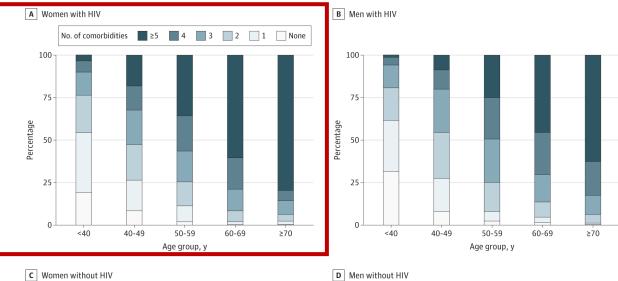


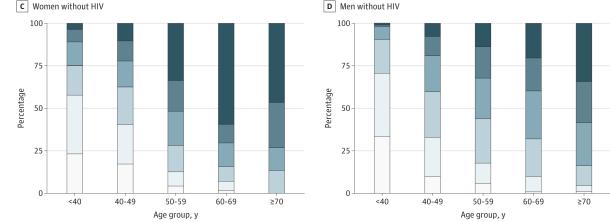


## Aging and multimorbidity for Women with HIV

- Chronic conditions and multiple chronic conditions are more common among women than men (with or w/o HIV)
- Sex and gender differences in the prevalence and clinical presentation of chronic conditions have been documented in people with HIV and people without HIV
- Symptoms of disease experienced by women are often different from men

Distribution of Prevalent Non-AIDS Comorbidity (NACM) Burden by HIV Serostatus, Sex, and Age Group









## **NIH OAR-ORWH HIV and Women Signature Program**

#### **Program Objectives**

- Promote health and well-being for all women with or impacted by HIV
- Support career development for women in HIV research

#### **Strategies**

- → NIH OAR and ORWH Collaboration
- → Increase information dissemination and NIH-wide collaboration
  - → HIV & Women Working Group
  - → NIH HIV & Women Website
  - → External Engagements listening sessions, workshops and symposia
- → Formulate strategic priorities and opportunities





# Despite Significant Progress Women Continue to Face Unique Challenges in HIV

#### **Biological Considerations**

- Multimorbidity more common in women with HIV
- Sex differences in disease symptoms
- Pregnancy in PWH linked to 2-10X increased risk of maternal mortality
- Exogenous hormone therapy
- Menopause & aging

#### **Social and Structural Considerations**

- Intersectional stigma
- Interpersonal and gender-based violence
- Unique mental health burden for women with HIV
- Gender affirming care
- Suboptimal representation in clinical; cure-related research



# Despite Significant Progress Women Continue to Face Unique Challenges in HIV



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- Interpersonal and gender-based violence
  - Unique mental health burden for

- Pregnancy in PWH linked to 2-10X increased risk of maternal mortality
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- Menopause & aging



journal homepage: www.sciencedirect.com/journal/journal-of-virus-eradication

Contents lists available at ScienceDirect

Bringing social context into global biomedical HIV cure-related research: An urgent call to action

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## **Concept Clearance: Notice of Special Interest: Women and HIV**

- Areas of focus:
  - Research and training grants
  - High priority topics identified through literature review, external engagements, Request for Information, portfolio analysis
- Intersectional approaches encouraged
- Multi-IC partnership
  - Wide interest across NIH





## **Examples of priority topics**

- Community-led research
- HIV, pregnancy, lactation, postpartum
- Early childhood consequences of HIV exposure
- HIV and aging, menopause
- Intersection of HIV and comorbidities, multimorbidity, polypharmacy
- Implementation Science treatment, prevention, maternal morbidity and mortality
- Interdisciplinary approaches BSSR, data science
- Gender-affirming and trauma-informed HIV care and research
- Sex and gender influences in treatment, prevention and cure-related research



## Thank you, and Questions?

