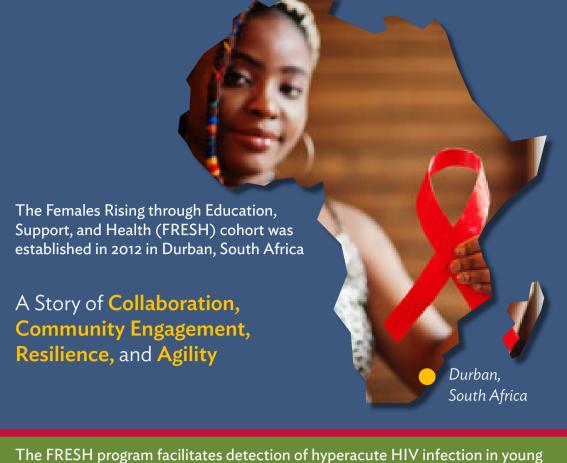


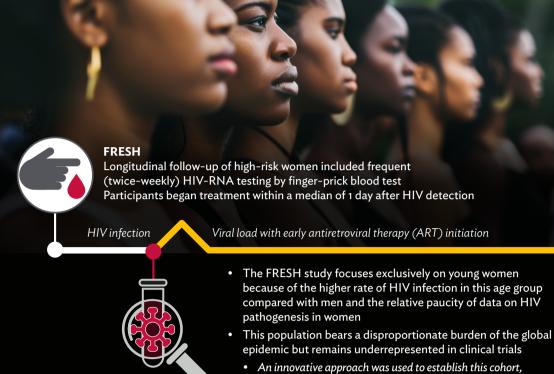
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women, combined with an intensive life skills and job readiness curriculum



Twenty women from the FRESH cohort participated in an ATI-inclusive HIV

cure trial evaluating the safety and efficacy of 2 bNAbs combined with vesatolimod

which integrated scientific research with social support, addressing participants' holistic needs. This strategy, featuring an empowerment curriculum, has fostered exceptional retention, adherence, and engagement among participants and community stakeholders, while advancing critical HIV research

Optional ATI extension

Up to 10 biweekly oral doses of vesatolimod

vesatolimod (VES) (GS-US-382-5445; NCT05281510)

cohort, who had been virally suppressed on ART for ≥ 12 months

PHASE 2a TRIAL: June 2022 - January 2025

Week 5: ART stopped

ART, antiretroviral therapy; ATI, analytical treatment interruption; bNAb, broadly neutralizing antibody; IV, intravenous.

Single IV infusion

of each bNAb

Complex HIV cure trials ask a lot of participants and staff Extensive safety monitoring, extended observation after study drug dosing, biweekly and weekly visits, frequent blood and tissue sampling, and longitudinal assessment of participant experiences

The study weathered several disruptive external events, including the

Phase 2a, open-label trial evaluated the safety and efficacy of 2 anti-HIV envelope broadly neutralizing antibodies (bNAbs), VRC07-523LS and CAP256V2LS, combined with a Toll-like receptor 7 agonist,

Participants: Unique population of early-treated women with clade C HIV-1 recruited from FRESH

COVID-19 pandemic, political unrest, and natural disasters FRESH BEGINS

> Having an established cohort and a trusting relationship with the site staff facilitated recruitment, likely increased willingness to participate, participant retention, uptake of optional sampling, and adherence to an

FRESH team mobilized additional resources for ART delivery and launched

Roads to the site washed away, no access by car; participants and study team

Mobilized additional resources to rebuild and restore the site and finally

COVID-19 DISRUPTION: ALL FACILITIES CLOSED All clinical trial sites in South Africa were required to close All research facilities/universities in South Africa were required to close

intensive study protocol

POLITICAL UNREST

walked to site

No water or electricity for weeks

This trial was a culmination of a productive partnership between

FRESH clinical site decimated; all equipment, furnishings, and supplies destroyed or stolen Study team moved to a temporary location at the nearby hospital Took 3 months to rebuild the site Despite delays and challenges, Gilead successfully launched clinical trial training CATASTROPHIC FLOODING, ROAD CLOSURES AND DAMAGE

No missed days of monitoring for acute HIV infection

launched first trial participant's first VES dose

Overcoming multiple challenges required unwavering commitment, enthusiasm,

ART home delivery to maintain viral suppression

and support to make the trial a reality

academia, government, community, and industry

GOVERNMENT ACADEMIA

COMMUNITY Early engagement. Gave

in Africa, which has the highest prevalence of HIV globally

The academic partners at the

University of KwaZulu-Natal

and the Ragon Institute provided scientific input and

deep contextual knowledge

of the local setting

INDUSTRY

Gilead Sciences, Inc., was

the study sponsor/funder,

and provided scientific and

operational knowledge to

support the study

FRESH:

Females Rising through Education, Support, and Health A unique platform for HIV prevention and cure research

Health Systems Trust - South Africa Ragon Institute of Mass General Brigham, MIT, and Harvard

US National Institute of Allergy and Infectious Mass General Brigham University of KwaZulu-Natal HIV Pathogenesis Programme

Acknowledgments: We want to thank the participants, their partners and family members, the study team at FRESH, HIV Pathogenesis Programme (HPP) core lab staff, counselors from University of KwaZulu-Natal, HPP Community Advisory Board, and University Pathology lab. Writing and editorial support

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Presented at the 13th IAS Conference on HIV Science; July 13–17, 2025; Kigali, Rwanda

The NIH

Vaccine Research Center

contributed extensive knowledge

on bNAb development

and supplied the bNAbs

input on language, cultural context, consent form, and protocol



Gilead Sciences sponsored the trial and worked closely with key collaborators: Department of Health Province of KwaZulu-Natal

- Witten Family Foundation
- for the poster was provided by Parexel and funded by Gilead Sciences, Inc.