

BRITISH COLUMBIA CARMA-CHIWOS COLLABORATION (BCC3) PROTOCOL: An interdisciplinary, community-based study of healthy aging by, with, and for women living with HIV



We gratefully acknowledge that this research is conducted on the Traditional, Ancestral, and unceded Territories of the Coast Salish Peoples, including the Skwxwú7mesh (Squamish), Stó:lō and Səlílwətaʔ/Selilwitulh (Tsleil-Waututh) and xʷməθkʷəy̓əm (Musqueam) Peoples.

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I have no conflicts of interest to disclose

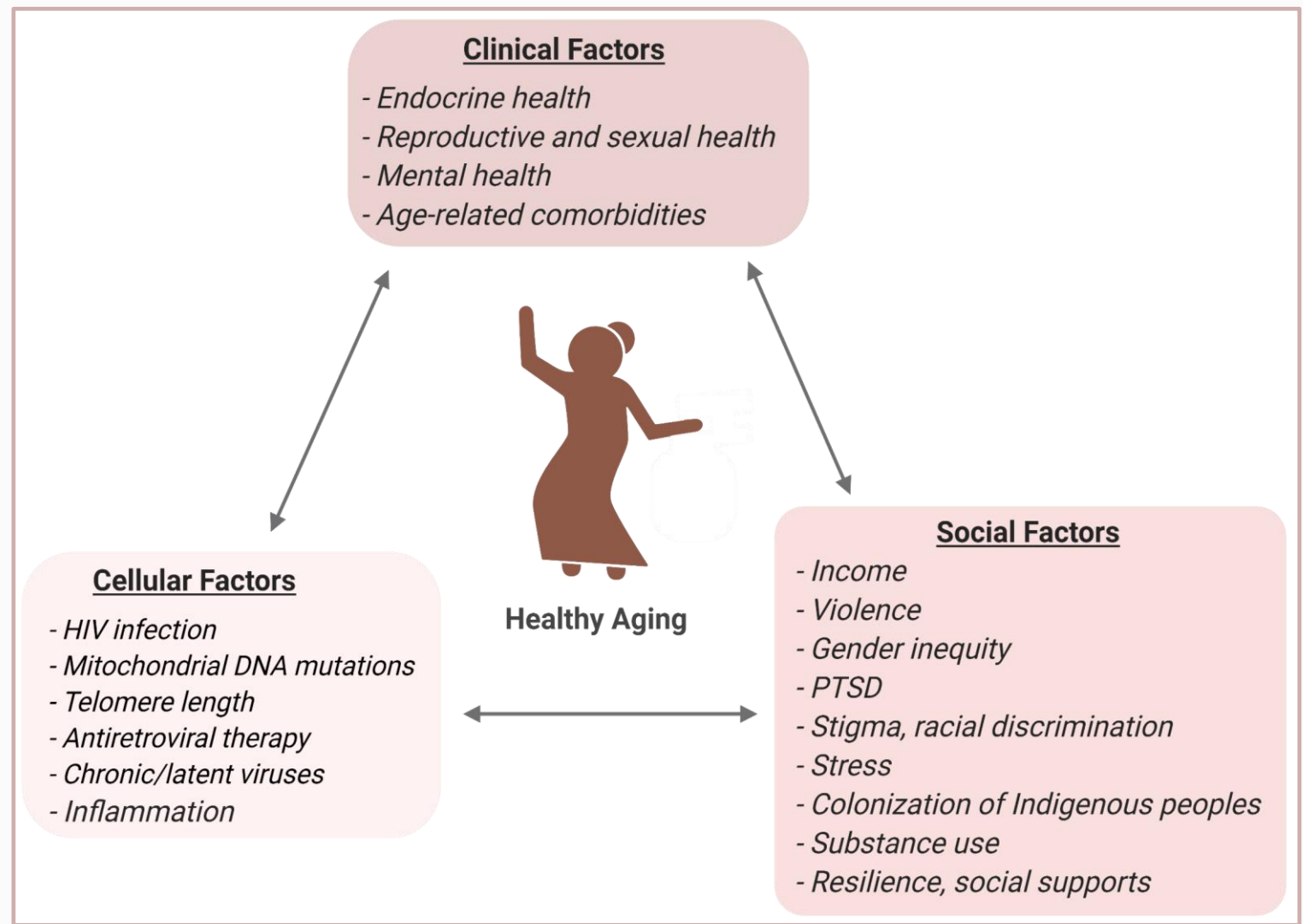


**WOMEN'S HEALTH
RESEARCH INSTITUTE**
AT BC WOMEN'S



Introduction

- ❖ Long-term **comorbidities**, **quality of life**, and **longevity** are priority concerns for women living with HIV (WLWH).
- ❖ On average, WLWH have a **shorter life expectancy** than men with HIV and women not living with HIV.
- ❖ Women's healthy aging is influenced by **cellular**, **hormonal**, **psychosocial**, and **structural** factors.



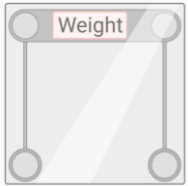
Overarching aim: To comprehensively investigate intersecting factors that influence aging in WLWH using *cell-to-society* and health equity approaches.

Methods – Clinical Visit

Inclusion and Exclusion Criteria

- ✓ Age ≥16 years
- ✓ Cis- or trans-gender
- ✓ Able to provide consent in English
- ✓ Able to attend in-person visit at BC Women's Hospital
- X Currently pregnant or breastfeeding

We collect the following measurements and samples:



Weight



Waist Circumference



Hair Sample



Self-collected Rectal Swabs (optional)



Blood Pressure



Cheek Swabs



Blood Samples

+ Additional blood draws for timed hormone measures

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Clinical Questionnaire

- ❖ Demographics
- ❖ Vaccinations and viruses
- ❖ Medical and HIV history
- ❖ Reproductive health history
- ❖ Substance use

Sample Analysis

- ❖ **Cellular aging** (mitochondrial DNA, telomere length) and inflammation
- ❖ **Chronic/latent viral infections**
- ❖ **Hormone levels** (estrogens, progesterone, testosterone)
- ❖ **Chronic stress** (hair cortisol)
- ❖ **Comorbidity markers** (hematology, liver and renal function, lipids, A1c)

Methods – Community Visit and Timeline

- ❖ Takes place within 1 month of the clinical visit
- ❖ Administered by a Peer Research Associate (PRA)

Community Survey



Demographics



Social Determinants
of Health



Sleep



Oral Health



Sexual Health
& Pleasure



Discrimination
& Stigma



Physical Activity



Chronic Pain



Violence &
Abuse



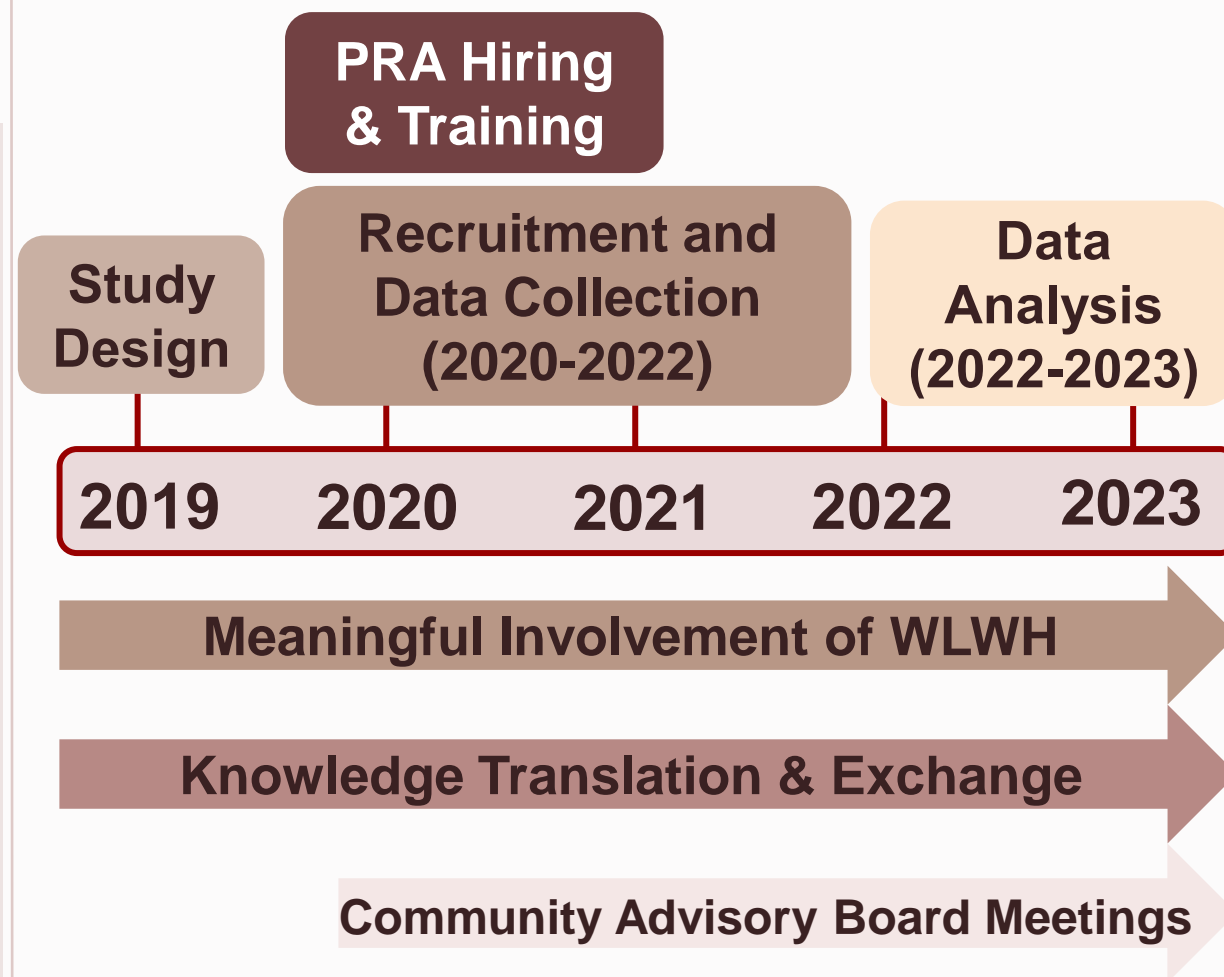
Resilience, Purpose,
& Social Supports



Emotional
Well-being



Impacts of
COVID-19



Study Updates

- ❖ Completed comprehensive **Peer Research Associate training** with four WLWH (See *Poster 103 for details*)
- ❖ Study officially launched on December 1st, 2020 – World AIDS Day
- ❖ **19** completed participant visits
- ❖ Inaugural **Community Advisory Board** meeting on March 8th, 2021 – International Women's Day (slides will be posted to our website)



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Thank you to our Community Advisory Board members, Peer Research Associates, participants, and all those who continue to support this study.

