

BC CARMA CHIWQS COLLABORATI

Confirming Self-Reported Data about Chronic/Latent Viral Infections and Key HIV-related Health Parameters in Cohort Studies: the British Columbia CARMA-CHIWOS Collaboration (BCC3) Study Experience

Tetiana Povshedna, Shayda A Swann, Amber R Campbell, Sofia LA Levy, Melanie Lee, Elizabeth M King, Valerie Nicholson, Angela Kaida, Melanie CM Murray, Helene CF Cote, on behalf of the BCC3 (CIHR, CTN 335) study team

I respectfully acknowledge that the land I work, learn, and live on is the traditional, ancestral, unceded territories of the Coast Salish Peoples, including the x^wməθk^wəy'əm (Musqueam), Skwxwú7mesh (Squamish) and səlílwətaૠ (Tsleil-Waututh).

Contact: Tetiana Povshedna t.povshedna@alumni.ubc.ca









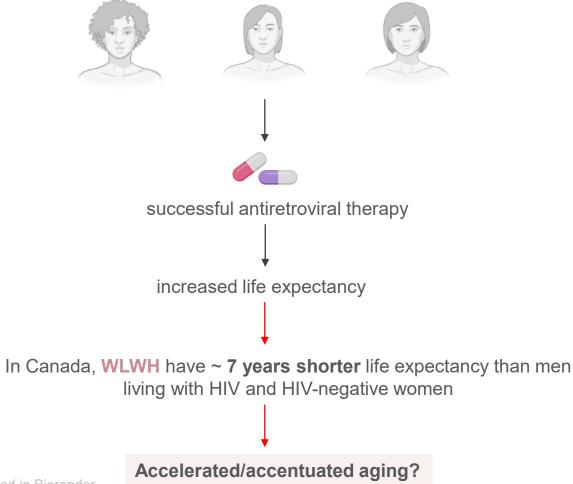




Background

An estimated **19.9 million women** were living with HIV (**WLWH**) globally in 2020 (53% of all adults). In Canada, 23% of people living with HIV are women.

About **50%** of estimated 1.5 million **new HIV infections** were among women (2020).



CARMA: <u>Children and Women AntiRetrovirals Therapy</u> and <u>Markers of Aging (2008-2018)</u>



CHIWOS: <u>Canadian HIV WOmen's Sexual and</u> Reproductive Health Cohort Study (2011-2019)



= BC CARMA CHIWOS Collaboration

Currently enrolling WLWH and controls in BC

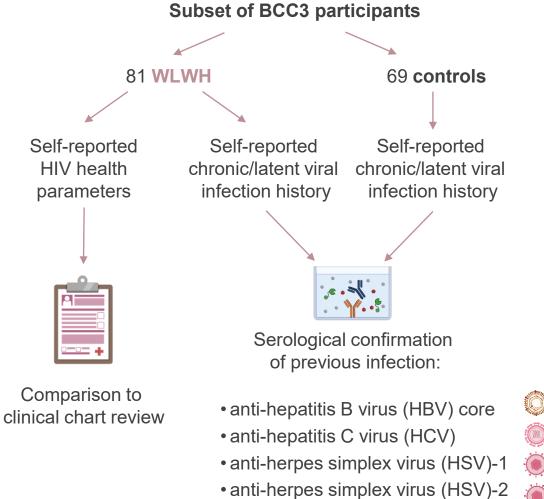
Holistic analysis of aging and health:

- Cellular and biological markers of aging
- Prevalence of chronic/latent viral infections
- Hormonal health
- Comorbidities, mental health
- Structural, psycho-social, socio-behavioral parameters
- Chronic pain

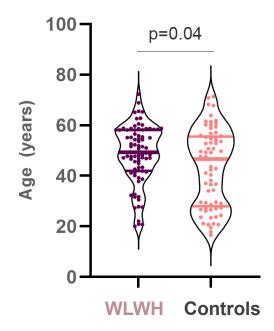


BCC3 is a community-based cohort study that **relies** on **self-reported** data about HIV-related health parameters and chronic/latent viral infections.

How does self-reported health information compare to data obtained from clinical chart review and laboratory testing?

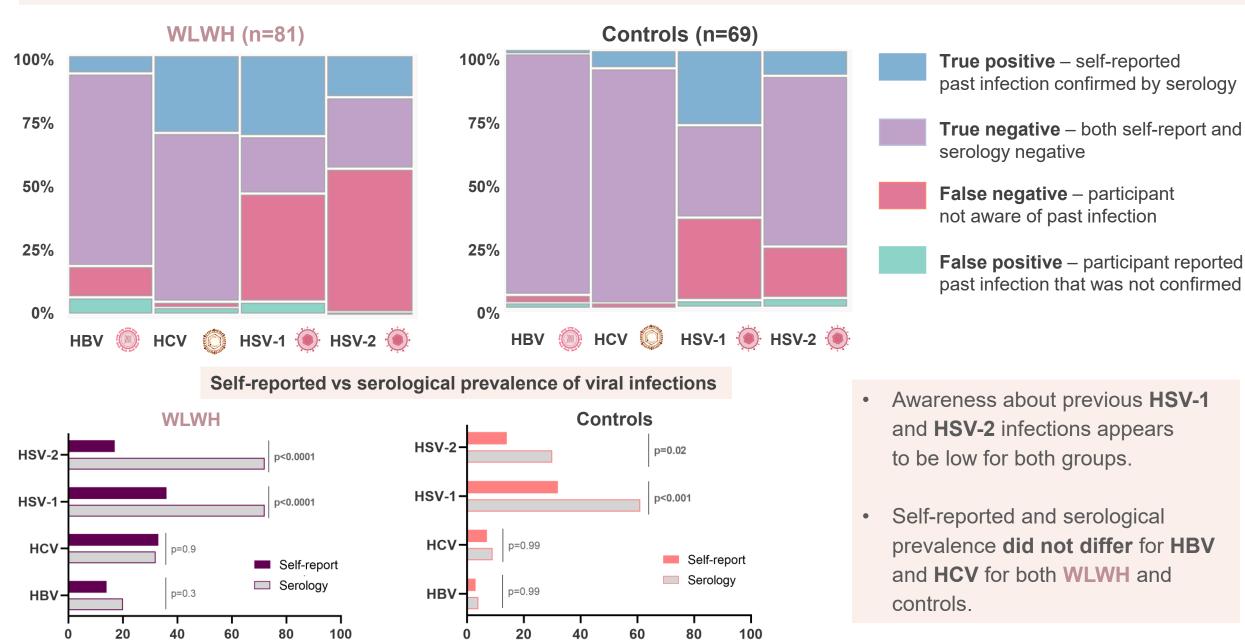


Age of participants included in analysis



WLWH were older than controls – median (IQR) age 49.3 (41.9 – 58.2) vs 46.6 (27.9 – 55.5), p=0.04; Mann-Whitney test

Results: Chronic/Latent viral infections



Prevalence of infection %

Prevalence of infection %

HIV-specific health parameter	WLWH (n=88)
Self-reported CD4 nadir confirmed by chart review ¹	52/66 (79%)
Self-reported recent CD4 count confirmed by chart review ²	48/61 (79%)
Self-reported undetectable (n=74/84) not confirmed by chart review	8/74 (11%)

¹CD4 counts from self-report and chart review (when available) were compared based on WHO HIV CD4-based staging. ²The term "recent" refers to the most recent test result before the study visit.

Conclusions

- Self-reported prevalence of **HBV** and **HCV are reliable** indicators in cohort studies.
- A high proportion of WLWH were aware of HIV-related heath parameters.
- It is important to clearly communicate CD4/viral load information to WLWH, to best inform their care and actions.

Acknowledgements



study team, participants, investigators, and staff; Côté Lab members









A high proportion of **WLWH** were able to estimate

CD4 nadir (66/88), recent CD4 count (61/88),

11% of **WLWH** were **unaware** that they recently had a **detectable** (>40 copies/ml) viral load. Of those,5/8 **WLWH** had viral load <200 copies/ml

and recent HIV viral load (88/84)

Created in Biorender