

### CONFERENCE CAHR 2

CONGRÈS DE  $I' \Delta C R V$ 2

### Evaluating Healthy Aging Among Canadian HIV-positive Older Adults in the CHANGE-HIV Cohort

<sup>1</sup>University of Toronto, Toronto, Canada; <sup>2</sup>University Health Network, Toronto, Canada; <sup>3</sup>Toronto General Hospital Research Institute, Toronto, Canada

Alice Zhabokritsky<sup>1,2</sup>, Rosemarie Clarke<sup>3</sup>, Ron Rosenes<sup>2</sup> and Sharon L. Walmsley<sup>1,2,3</sup> on behalf of the CHANGE HIV study team

## Background

- Life expectancy among people living with HIV (PLWH) is approaching that of the general population.
- PLWH continue to experience greater burden and earlier onset of medical comorbidities, especially among those who initiated treatment at lower CD4 counts.
- Important differences in clinical outcomes and quality of life persist.
- Examining healthy aging as a <u>multidimensional</u> state can guide development of preventative and management strategies that are appropriate for the complex social and healthcare needs of people aging with HIV.

# Methods

- exact tests for comparisons

• The CHANGE HIV (Correlates of Healthy Aging iN GEriatric HIV) study is a Canadian cohort of PLWH age > 65

 In this cohort, healthy aging is assessed across 7 domains of health using the Rotterdam Healthy Aging Score (HAS)

• HAS scores for the first 216 participants were compared according to gender and other sociodemographic and HIV-related factors using Kruskal-Wallis and Fisher's

### **Table 1.** Rotterdam Healthy Aging Score

<b>Domains of Health</b>	Measurement Tool	Score	
Quality of Life	Life Satisfaction Questionnaire	0 Low I Moderate 2 High	Low QoL on 5-8 items Low QoL on 1-4 items High QoL on all 8 items
Social Support	Questionnaire	0 Low I Moderate 2 High	"Agree" with 0-2 statements "Agree" with 3-4 statements "Agree" with all 5 statements
Pain	Self-rate	0 Low I Moderate 2 High	Very severe pain for ≥1 activity Everything in between No or mild pain for all activities
<b>Physical Function</b>	Basic Activities of Daily Living (bADL)	0 Low I Moderate 2 High	Severe disability on bADL or iADL Everything in between Mild disability on bADL and iADL
	Instrumental Activities of Daily Living (iADL)		
<b>Cognitive function</b>	Mini Mental State Examination (MMSE)	0 Low I Moderate 2 High	Score of 0 to 20 Score of 21 to 25 Score of 26 to 30
Mental Health	Center for Epidemiologic Studies Depression Scale (CES-D)	0 Low I Moderate 2 High	Score of 23 to 60 Score of 17 to 22 Score of 0 to 16
Chronic Disease	Number of Chronic Diseases	0 Low I Moderate 2 High	>1 disease "multimorbidity" 1 disease 0 diseases

- ▷ Healthy aging scores (HAS 13-14)
- ▷ Intermediate aging scores (HAS 11-12)
- ⊳ Poor aging scores (HAS 0-10)

## Results

- - (p<0.05).

• HAS scores did not differ by age (p=0.691), race (p=0.510) or CD4 count nadir (p=0.535), but participants with longer duration of HIV infection had lower HAS scores (p=0.043).

• Among 216 participants, median (IQR) age was 71 (68-74), 90% were men, 9% women and 1% transgender.

• Majority of participants were white (78%), born in Canada (65%) and retired (77%).

• Median (IQR) HAS was 12 (10-13).

Women and transgender participants were more likely to have poor aging scores, compared to men (p<0.05).

▷ Women had fewer comorbidities compared to men, but worse cognitive function scores and more pain

### **Figure 1.** HAS distribution in the CHANGE HIV cohort

Healthy Aging

Poor Aging







# CONCIUSIONS

Longer duration of HIV infection is associated with poorer aging scores.

• Using a multidimensional score like the HAS can identify individuals at risk of poor clinical outcomes and direct interventions that support healthy aging.

• Gender seems to have an important impact on the aging experience of PLWH, especially across comorbidity, cognitive function and pain domains of health.