

Supplementary tables:

Table S1. Domains of health measured in the CHANGE HIV cohort.

Domain of health	Measure	Measurement tools
Physical function	Frailty Disability Independence Falls Urinary incontinence Insomnia Vision Hearing Fatigue	Fried frailty phenotype [6] Frailty Index [7] HIV Disability Questionnaire [8] Basic Activities of Daily Living [9] Instrumental Activities of Daily Living [10] ACTG 5322 falls questionnaire [11] Bladder diary [12] Pittsburg sleep quality index [13] Snellen vision chart [14] Hearing handicap inventory for the elderly [15] Functional Assessment of Chronic Illness Treatment fatigue scale [16]
Mental health	Anxiety Depression	Hamilton Anxiety Rating Scale [17] Beck Depression Scale [18] Geriatric Depression Scale [19] Center for Epidemiologic Studies Depression Score [20, 21]
Cognitive function	Learning, judgement, memory	Mini Mental Status Evaluation [22] Montreal Cognitive Assessment (MoCA) [23]
Quality of life	Well being Satisfaction	Life satisfaction questionnaire [24] EQ5D [25] MOS HIV [26]
Social supports	Social support networks Loneliness	Duke social support index [27] Medical outcome study social support survey [28] UCLA Loneliness Scale [29]
Pain	Pain severity with activity and at rest	Rotterdam Healthy Aging Score pain sub-scale [30]
Chronic disease	Comorbidity	Chart review and self-report

UCLA= University of California, Los Angeles.

Table S2. Determinants of health evaluated in the CHANGE HIV cohort.

Determinants of health	Measure	Measurement tool
Behavioural	Coffee/Tea consumption Food security Sexual activity Sexual satisfaction Exercise Smoking, Alcohol and other Substance use	Self-report- adapted from Liver cohort [31] Food security survey adapted from OCS [32] Questionnaire from OCS cohort for men [32] Questionnaire from CHIWOS for women [33] New sexual satisfaction questionnaire [34] PROMIS sexual function and satisfaction tool [35] Questionnaire adapted from OCS [32] Questionnaire from CTN 222 [36]
Economic	Income and source Work- current and past Social security, pension	Scale of Economic Self-Sufficiency [37] Self-report adapted from OCS [32] Self-report adapted from OCS [32]
Social	Community engagement Resilience Violence and abuse Stigma Isolation, social network	Meaningful Activity Participation Assessment [38] Resilience Scale [39] Modified WHO IPV Scale (CHIWOS) [33] HIV stigma scale [40] NIH Toolbox Adult Social Relationship Scales [41]
Health and social services	Primary/specialty care Mental health support Addictions counselling Physiotherapy and Rehabilitation AIDS service organizations Long term care Hospitalization	Self-report adapted from OCS and CTN222 [32, 36]
Physical environment	Urban or rural Transportation Housing Household members	Self-report
Personal	Age Biologic sex Education level Literacy Marital status Children Ethnicity	Self-report

	Year of immigration Gender role Gender identity	Bem Sex role inventory short form [42] Sexual Identity Scale [43]
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OCS= Ontario HIV Treatment Network Cohort Study; CHIWOS= Canadian HIV Women's Sexual and Reproductive Health Cohort Study; CTN= Canadian Institutes of Health Research Canadian HIV Trials Network; NIH= National Institutes of Health.