

Indigenous peoples and HIV+aging

CAAN: WP V

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HIV+aging

- HIV + a combination/interaction of:
 - Immunosenescence (immunological changes due to aging leading to mortality and morbidity)
 - ARTs (changing philosophies, earlier regimens with high toxicities)
 - Chronic systemic inflammation sustained over years, decades ...
 - Comorbidities, addictions

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 - Comorbidities, addictions
 - Indigenous determinants of health
 - Racism, stigma, homophobia, lateral violence, ...

Two major groups

- Longterm +ve warriors:
 - Whatever age definition (e.g., 50+, 60+, 65+)
 - Diagnosed some time ago
 - Have lived through the various ART eras (no Tx, bad Tx, drug holidays, ...)
- Older person who is newly +ve:
 - Whatever age definition (e.g., 50+, 60+, 65+)
 - Recent diagnosis
 - Tend towards lower CD4 @ diagnosis

Biomedical issues

- Cardiovascular
- Cerebrovascular
- Cancer
- Renal
- Metabolic
- Bone mass
- Sequelae of earlier ART, O/I
- Neurocognitive
- Mental illness

Mechanisms unclear, likely multiple

- Inflammatory pathways
 - WBC activation
 - Coagulation pathway activation
 - Pro-inflammatory cytokines (e.g., IL-6, TNF- α)
 - Chronic inflammation leading to fibrosis
- Telomere shortening
- Ratios (CD8, CD14, CD16, ...)

Care and prevention

- Lifestyle
- Cultural, family, community connectivity
- Screening (metabolic, renal, cardiac, cancer)
- Specialist and sub-specialist referrals
- Medications ...?
 - Low-dose statin
 - Low-dose ACEi

Research

- Existing studies:
 - CANOC
 - CTN 272
 - Women's Brain Health Initiative
 - Bench research
 - Other ...?
- Indigenous research participation, direction ...?
- Indigenous-led projects ...?