

# A NEW HIV-SPECIFIC HEALTH-RELATED QUALITY OF LIFE INDEX TO MEASURE OUTCOMES AND PROPENSITY TO ADOPT INTERVENTIONS

Kedar K. V. Mate<sup>1,2,3</sup>, Nancy E Mayo<sup>4</sup>, Marie-Josée Brouillette<sup>2</sup>,  
Lesley Fellows<sup>5</sup>, Bertrand Lebouché<sup>1,2,3</sup>

1. Department of Family Medicine, Faculty of Medicine and Health Sciences, McGill University, Montreal, Canada
2. Centre for Outcomes Research and Evaluation, McGill University Health Centre Research Institute, Montreal, Canada
3. Chronic and Viral Illness Services, Division of Infectious Disease, Department of Medicine, McGill University, Montreal, Canada
4. School of Physical and Occupational Therapy, McGill University, Montreal, Canada
5. Department of Neurology and Neurosurgery, Montreal Neurological Institute, Montreal, Canada



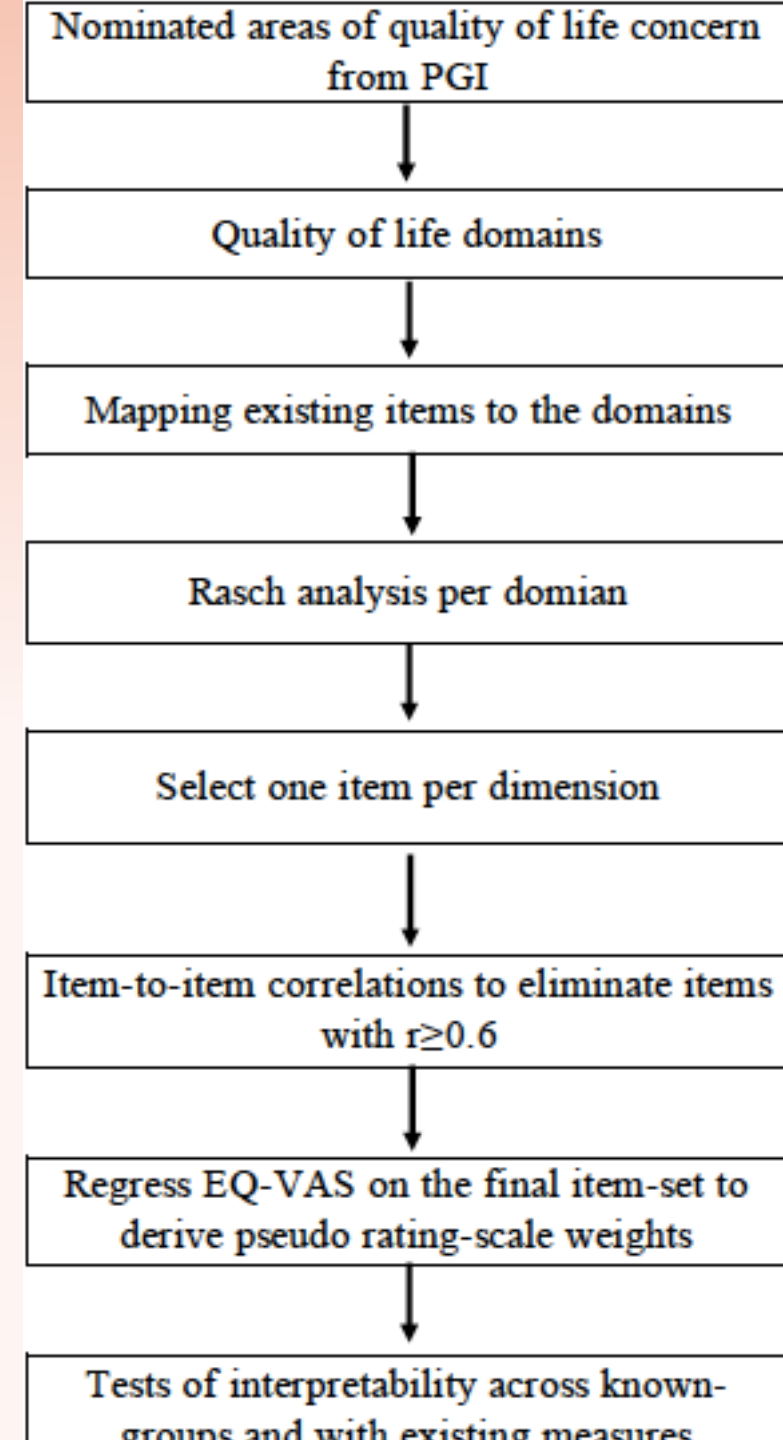
# WHAT'S THE ISSUE AND SO WHAT?

- Current generic or disease-specific health-related quality of life (HRQL) measures are mostly profile type
- These consists of multiple domains each with multiple items leading to multiple scores
- Increases respondent burden, limited clinical uptake, and multiple scores complicates research application
- Need to create an index score requires a weighting system for the domains
- Increasingly HRQL measures that produce one value across multiple dimensions are being developed
- Patients' preferences are used to weight the dimensions so that one value is produced
- **Aim** of this project was to develop a short, HIV-specific, HRQL measure with a scoring system based on patient preferences for the different dimensions, the Preference Based HIV Index (PB-HIV)



# HOW DID WE APPROACH?

- Data from 854 people with HIV from the Canadian Positive Brain Health Now on standard format and individualized measures was analyzed
- Patient-Generated Index identified the important areas of life that are affected by HIV
- Items from the standard format measures were mapped to these areas and formed the domains
- Rasch analysis was used to identify the best performing item to represent each dimension
- Each dimension was then regressed on self-rated health (scored 0 to 100) and the regression parameters were used as weights
- To customize the dimensions, cognitive debriefing and simultaneous translation in English and French was conducted with patients and healthcare professional



# WHAT DID WE FIND?

- Preference-based HIV Index: seven independent dimensions with three declarative statements
- These dimensions are **pain, fatigue, memory/concentration, sleep, body image, depression, motivation**
- Item-to-item correlations ranged from 0.16 to 0.55
- Scoring range from 0 (worst health) to 100 (perfect health)



# WHERE DO WE GO FROM HERE?

- PB-HIV Index is the first HIV specific preference-based measure
- Estimate preference weights using Best-Worst Methodology (work in progress)

