Fatigue, Quality of Life, Physical Function and Participation in Social, Recreational, and Daily Living Activities in Women Living with HIV: a Descriptive Study

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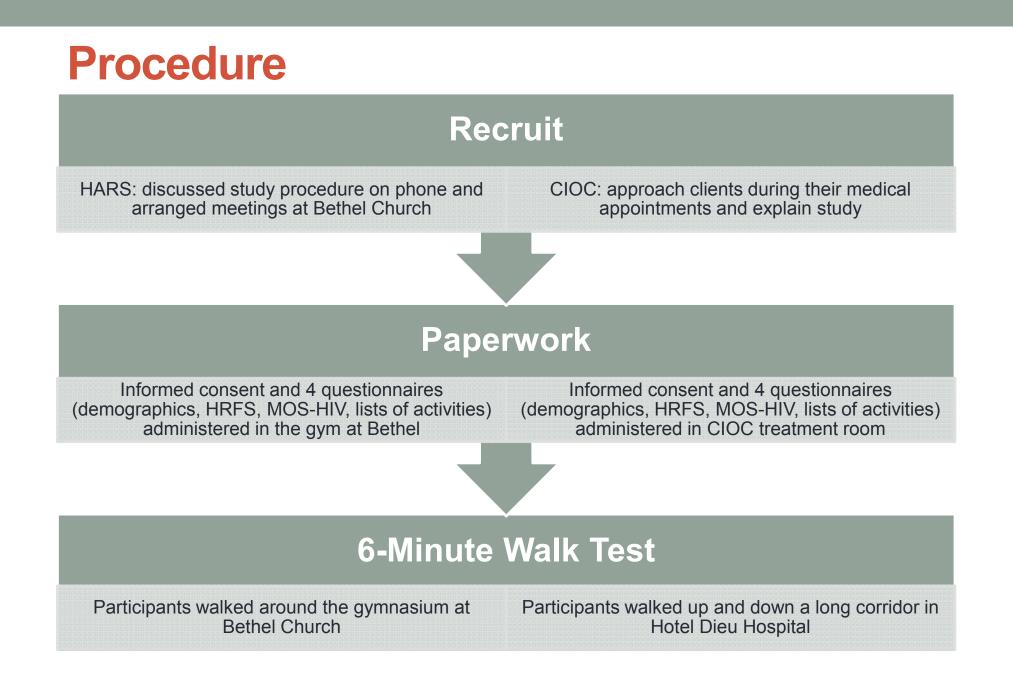
CHANGING THE COURSE OF THE HIV PREVENTION, ENGAGEMENT AND TREATMENT CASCADE

# **Impact of HIV-Related Fatigue**

- Relationships between fatigue and psychological factors (Barroso, Carlson & Meynell, 2003; Jong et al., 2010)
- **Restriction in activities of daily living (ADLs)** (Rusch et al., 2004)
- **Limitations in complex role functioning** (Crystal et al., 2000)
- **A** Decreased quality of life (QoL) (Sama et al., 1999; Safren et al., 2012)
- Limited research specific to women with respect to the impact of HIV (and the related fatigue) on:
  - QoL
  - physical function
  - ADLs and participation

## **Purpose:**

To describe the impact of fatigue on quality of life, participation in social/recreational activities, ADLs, and physical function in women with HIV



# **Demographics**

Number of Participants	15
Age (years) (mean±SD, range)	44 <u>+</u> 8 (30, 56)
Duration of HIV infection (years) (mean+SD, range)	12 <u>+</u> 5 (5, 23)
Number of Participants using ARVs	14
Duration of therapy use (years) (mean <u>+</u> SD, range)	9 <u>+</u> 3 (4, 15)

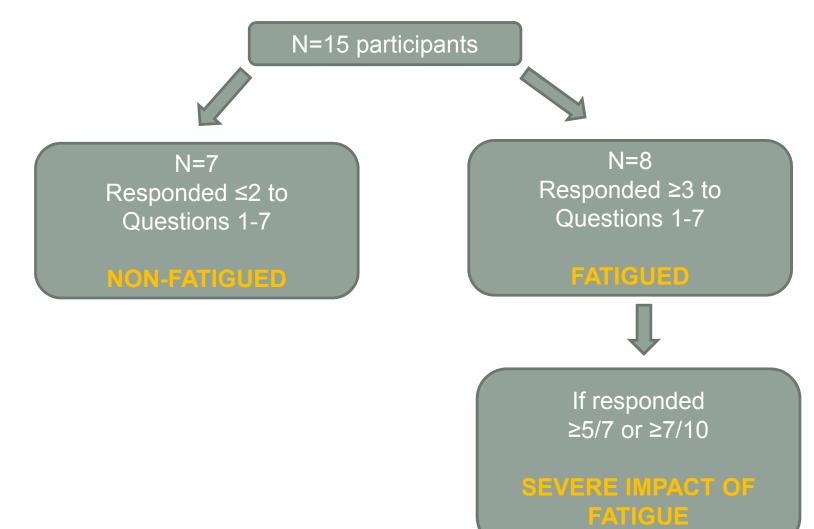
CO-MORBIDITIES	# of participants	
Musculoskeletal (muscle, bone)	5	
Cardiorespiratory (heart, lung, blood vessels)	10	
Mental Health	8	
Neural	3	
Other	7	

<b>MEDICATIONS (# of participants)</b>				
Vitamins and Supplements	10			
Psychogenic	6			
Cardiorespiratory	7			
Gastrointestinal	2			
Anti-inflammatory	2			
Pain	5			
Other	3			
<b>EMPLOYMENT (# of participants)</b>				
Working full-time	4			
Working part-time	3			
On Disability	7			
Other	1			
HIGHEST EDUCATION COMPLETED (# of participants)				
Elementary School	1			
Secondary School	7			
Post-secondary School	7			

## **HIV-Related Fatigue Scale**

- Standardized Questionnaire
- ✗ First section, 7 questions
  - Questions #1-5  $\rightarrow$  scale of 1 to 10
  - Questions #6&7  $\rightarrow$  scale of 1-4
  - If answer, ≤2 all questions, then no fatigue and person does not complete the rest of the form
  - If answer,  $\geq$ 3, then complete the rest of the questionnaire
- **★** Second Section, Questions 8 56
  - Indicate response on a scale of 1-10 or 1-7





## **HIV-Related Fatigue Scale**

#### **Examples of Severity Rating**

In the past week, to what degree has fatigue interfered with your ability to do household chores?

#### 1 2 3 4 5 6 **7 8 9 10**

Not at all

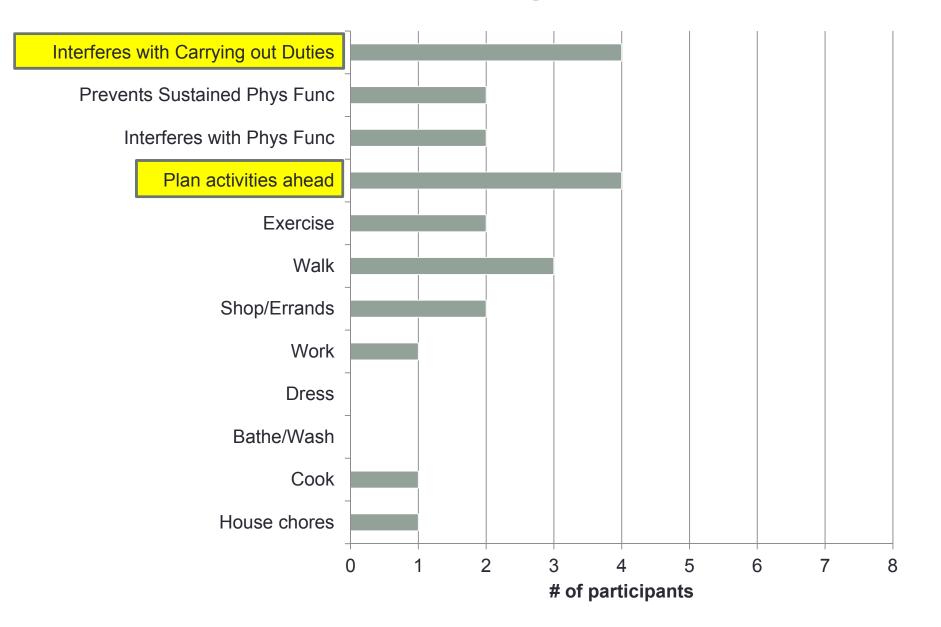
a great deal

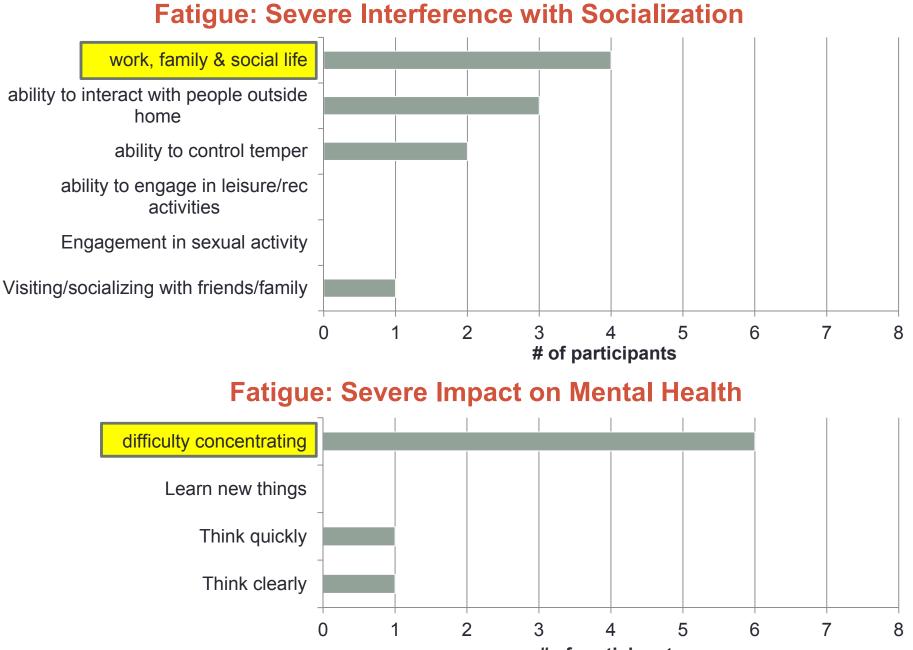
*My motivation is lower when I am fatigued.* 

#### 1 2 3 4 5 6 7

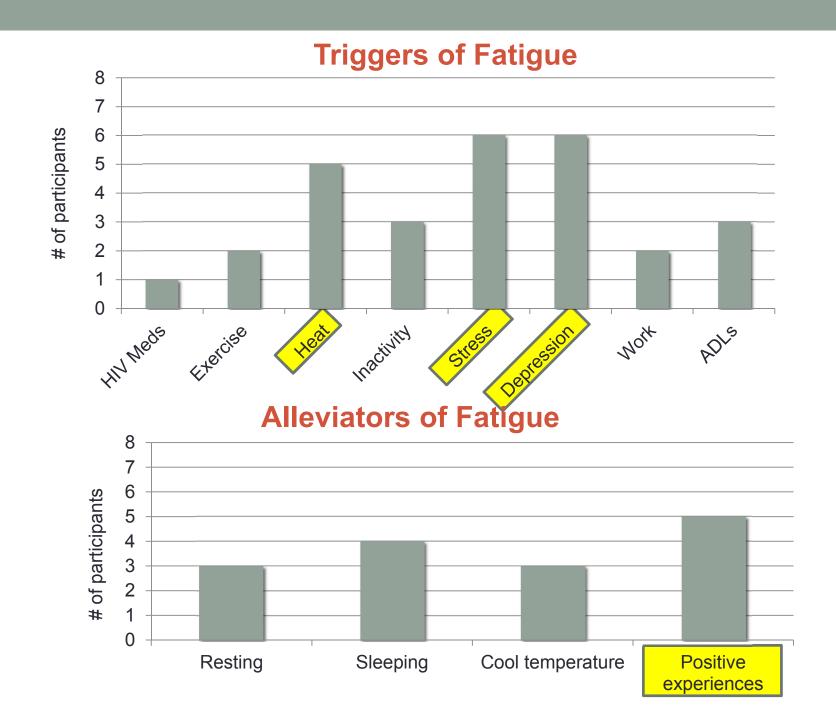
Completely disagree Completely agree

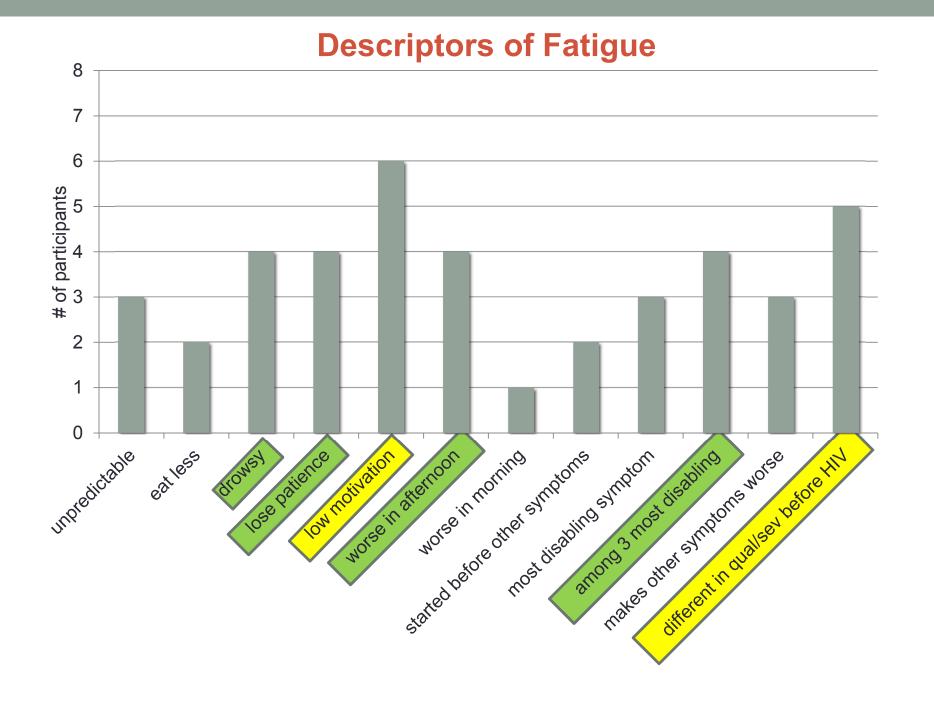
### **Severe Impact of Fatigue on ADLs**





# of participants





# Quality of Life (MOS-HIV)

### CONTENT

- Standardized questionnaire
- 35 guestions
  - Check off response to question
  - 1-6; all of the time $\rightarrow$ none of the time
  - yes/no

#### **Example**: How much bodily pain have you generally had during the past 4 weeks?

3

4

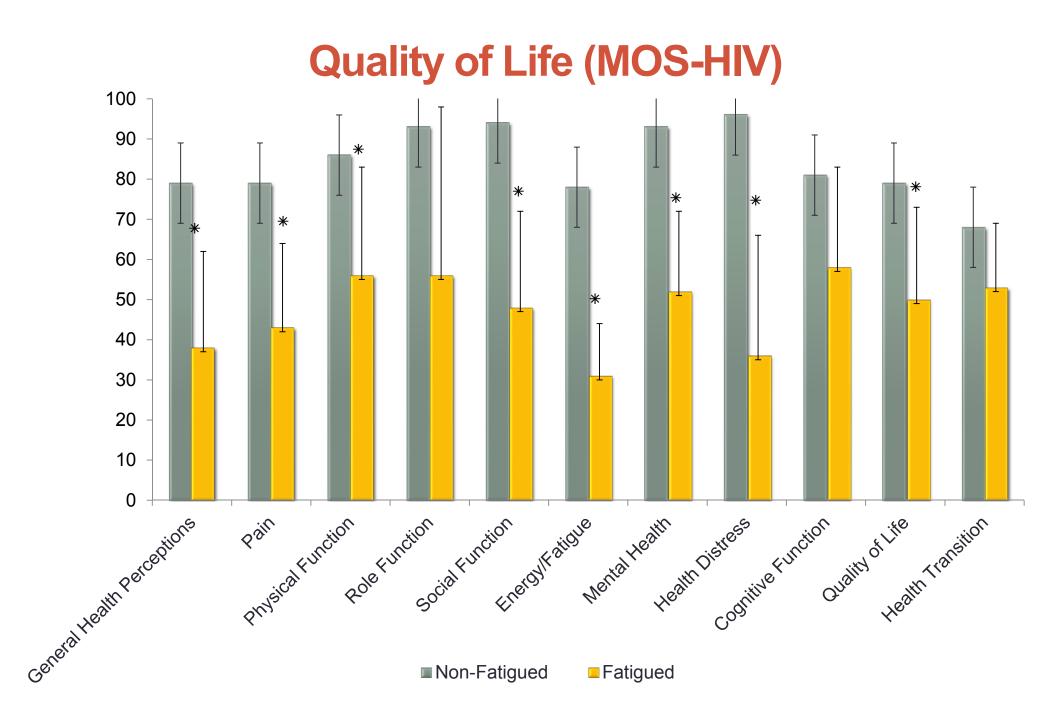
5

6

- None 1 2
- Very mild
- Mild
- Moderate
- Severe
- Very Severe

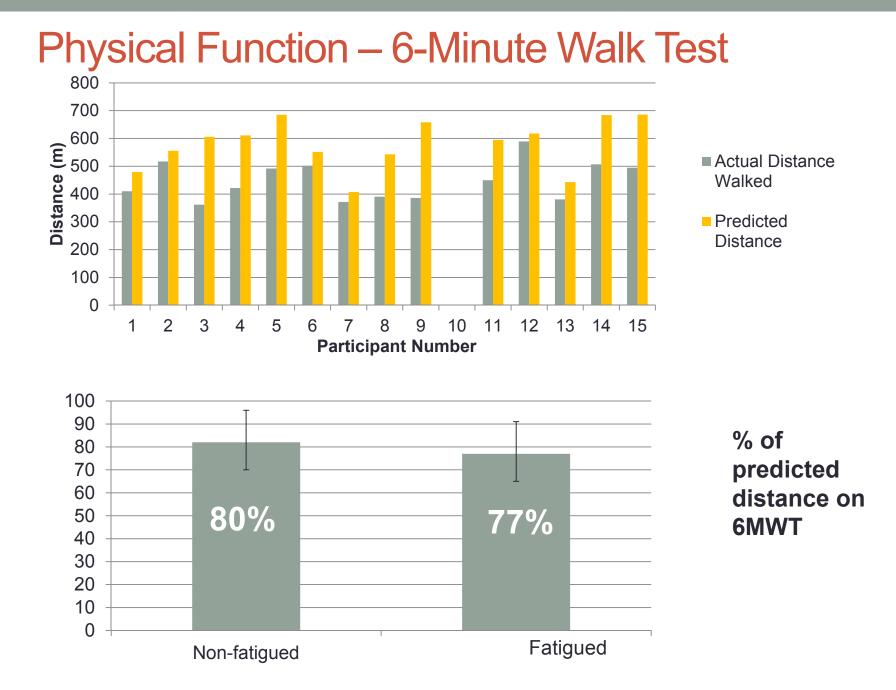
### SCORING

- transformation scoring system:
  - 11 sub-scales
    - General health perceptions
    - Pain
    - Physical Function
    - Role Function
    - Social Function
    - Energy/fatigue
    - Mental Health
    - Cognitive function
    - Quality of life
    - Health Transition
  - 2 summary scores
    - Physical Health Summary
    - Mental Health Summary



## **Lists of Activities**

ACTIVITY	# OF PARTICIPANTS	ABLE TO DO/NOT TIRED	LIMITED/TIRED		
Social					
Socializing with friend	ds 8	5	3		
Recreational					
Going for a walk	11	6	5		
Activities of Daily Living					
Grocery shopping	10	4	6		
Cleaning	9	5	4		



## **Primary Findings & Clinical Relevance**

- ½ of the women with HIV/AIDS in our study encountered some level of fatigue
- Individuals with fatigue
  - reported lower quality of life
  - Had greater limitations in activities
- Since the demographics of our sample were similar to that in the OHTN Cohort Study,
  - our data suggest that interventions should be developed to address fatigue in women with HIV to enhance their quality of life and improve their participation in daily activities

# Acknowledgments

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### Relationship between Measured versus Reported Physical Function

