

Introduction

•Women living with HIV/AIDS (WLHA) are a vulnerable population and many face unique challenges in managing their disease

•Given the growing number of women who are HIVinfected, it is important to understand what selfmanagement strategies they use, which strategies are effective, and how those strategies can be enhanced

•Previously, there were no validated scales which measured self-management among either women or people living with HIV. This study aimed to fill this gap by developing an instrument which measured the day-to-day ways WLHA manage their illness.

Materials and methods

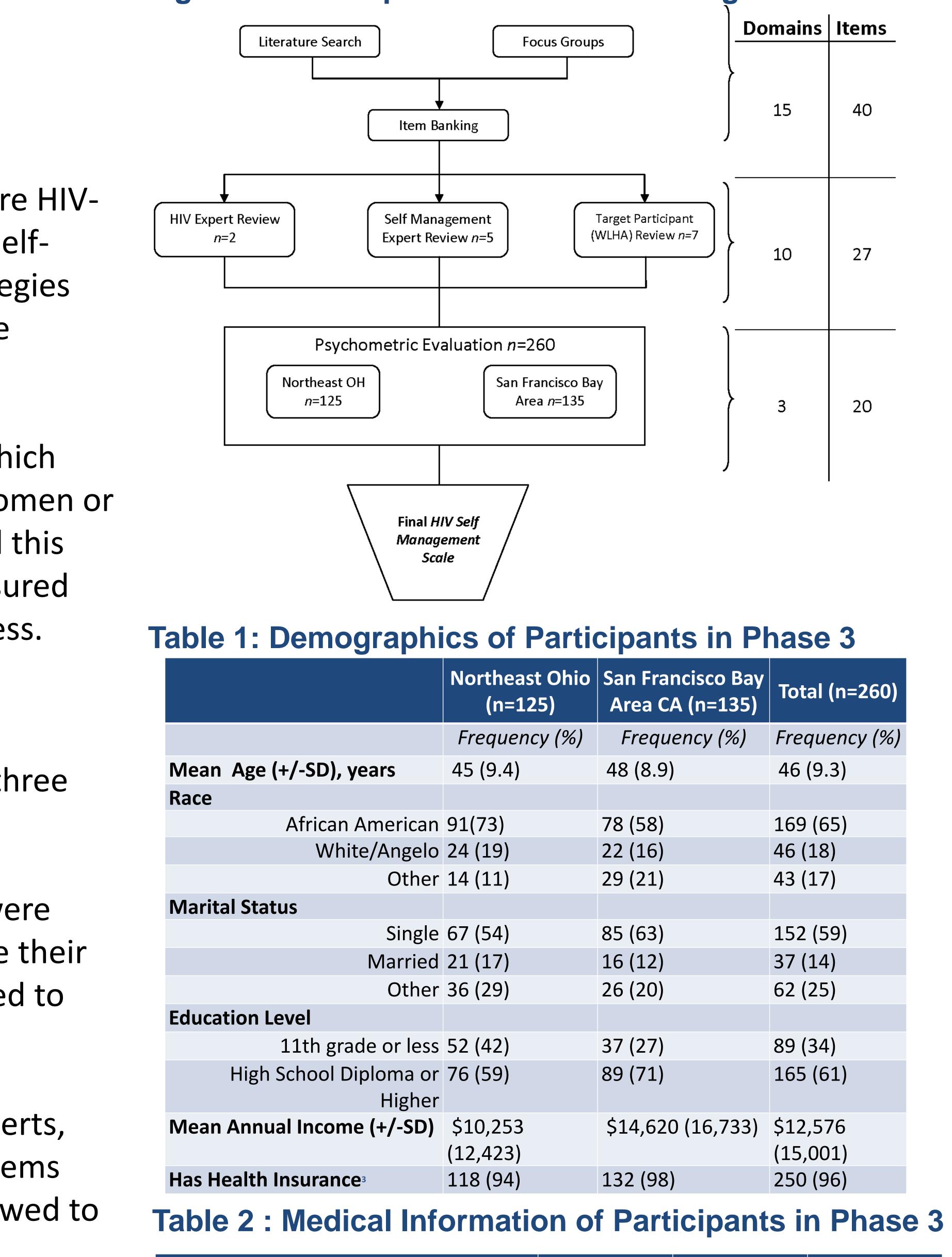
Instrument development was conducted in three distinct phases:

- 1) 12 semi-structured focus groups (n=48) were conducted to explore ways WLHA manage their illness and qualitative description was used to identify themes and possible scale items.
- 2) Expert review (n=14) with WLHA, HIV experts, and self-management experts of the 40 items identified by the focus groups were narrowed to 27 instrument items.
- 3) 260 WLHA in San Francisco and Northeast Ohio took the survey and these results were analyzed for psychometric evaluation.

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Understanding the Management of Chronic disease in Women Living with HIV/AIDS (WLHA): Development of the HIV Self-Management Scale Allison R. Webel, PhD, RN; Yvette Cuca MPH, MIA,; Jennifer G Okonsky, PhD (c), RN, MA, NP; Alice Asher, RN, CNS; Alphoncina Kaihura, RN, MSN; Carol Dawson Rose PhD, RN; Jan E. Hanson BS; Robert A. Salata MD.

Results Figure 1: Development of HIV Self-Management Scale



	Northeast Ohio (n=125)	San Francisco Bay Area, CA (n=135)	Total (n=260)
	Frequency (%)	Frequency (%)	Frequency (%)
Prescribed Anti-Retroviral Therapy (ART)	102 (86)	96 (74)	198 (80)
Undetectable HIV Viral Load	51 (52)	54 (49)	105 (50)
Mean HIV Viral Load for those with detectable	17,778	16,668 (32917)	17,189
values/mL (+/-SD)	(39,378)		(35,712)
Mean CD4 cells/µ1 (+/-SD)	501.2 (363.2)	574.8 (377.8)	533.5 (375.1)



Figure 2 : Model of Dimensions of HIV Self Management

cisco Bay (n=135)	Total (n=260)		
псу (%)	Frequency (%)		
	46 (9.3)		
	169 (65)		
	46 (18)		
	43 (17)		
	152 (59)		
	37 (14)		
	62 (25)		
	89 (34)		
	165 (61)		
(16,733)	\$12,576		
	(15,001)		
	250 (96)		

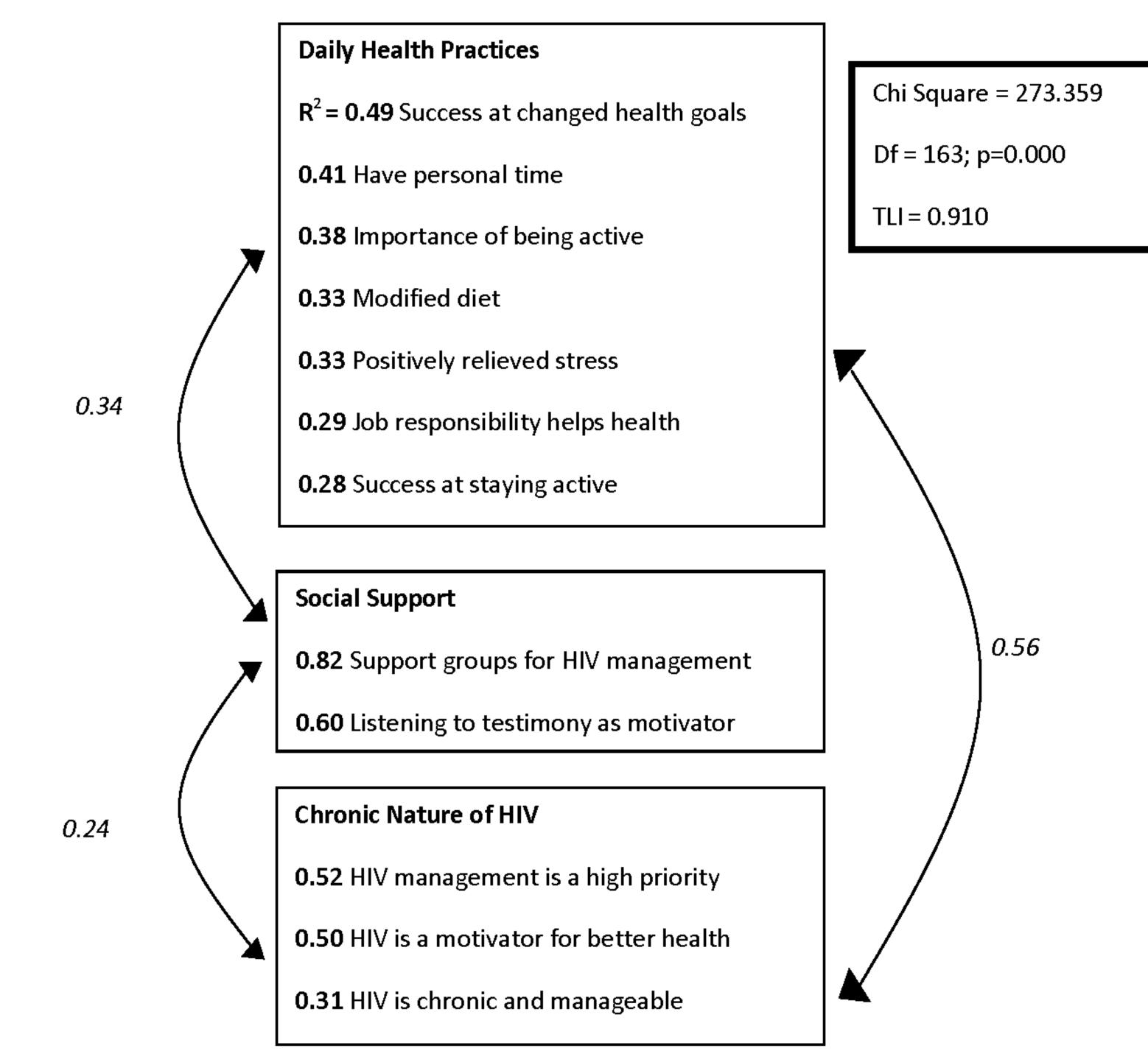


Table 3: Factor Analysis Using Principle Axis Extraction

Domain	Number of Items		Rotated Eigenvalue	% Explained Variance		Cronbach's Alpha, Follow-up (n=108)
Domain 1: Daily Self- Management Health Practices	12	1.7-2.42	5.64	28.22	0.84	0.85
Domain 2: Social Support and HIV Self-Management	3	1.90-2.13	2.24	11.22	0.86	0.83
Domain 3: Chronic Nature of HIV Self-Management	5	2.55-2.77	1.82	9.11	0.72	0.61

The resulting scale contained three domains and a total of 20 items. These factors explained **48.6%** of the total variance of the scale.

Conclusions

•Our study created a valid instrument to measure social capital among WLHA in Cleveland, OH and the San Francisco, CA

 This scale will allow future researchers to integrate aspects of HIV self-management in a variety of samples and settings in hopes of improving the lives of WLHA through self-management



Figure 2: Model of the Dimensions of HIV Self-Management in Women Living with HIV/AIDS

