

Definitions



- ♦ Self-Efficacy the belief that one is capable of performing in a certain manner to attain certain goals
- Disclosure the speech or act of making something evident, e.g. disclosing HIV Status
- ♦ Quality of Life the degree of well-being reported by an individual
- \Rightarrow PLH People Living with HIV

Review of Literature



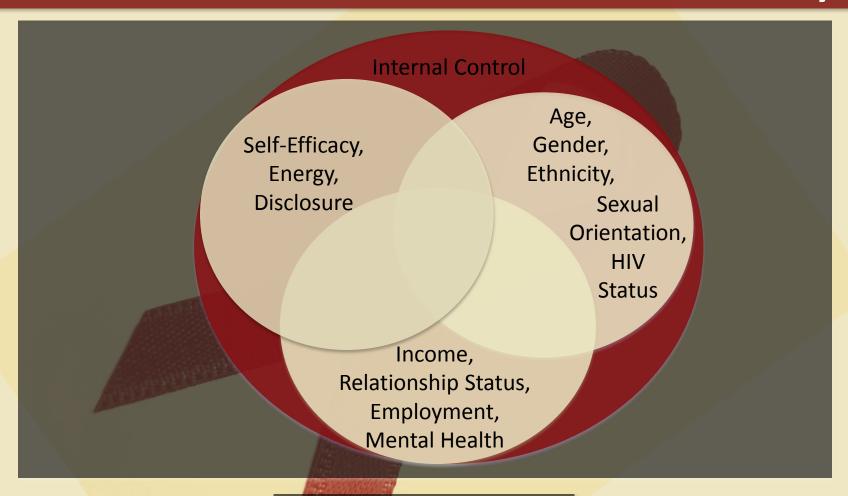
- Locus of control predicts and explains health behavior (Ubbiali et al., 2008)
- ❖ PLH who do not disclose their HIV status to sexual partners report higher levels of risky sexual behavior as well as significantly lower levels of self-efficacy (Kalichman & Nachimson, 1999)
- → HIV disclosure is positively associated with overall quality of life (Chandra et al., 2003)

Gaps in Knowledge

- The use of a locus of control measure in PLH to understand medical outcomes and decisions of PLH have not yet been examined.
- The effects of disclosure in relation to energy or fatigue have yet to be studied.

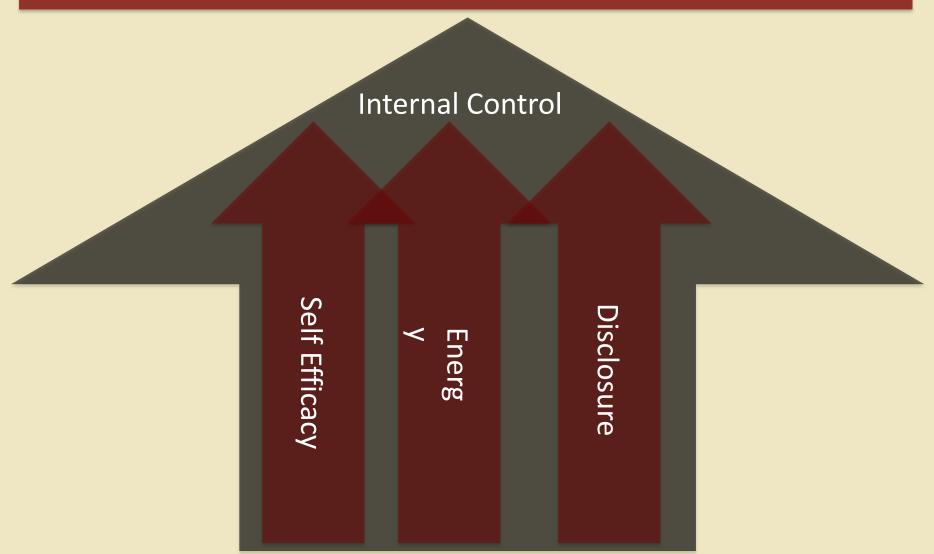


Internal Locus of Control Theory



(Levensen, 1973)

Hypotheses

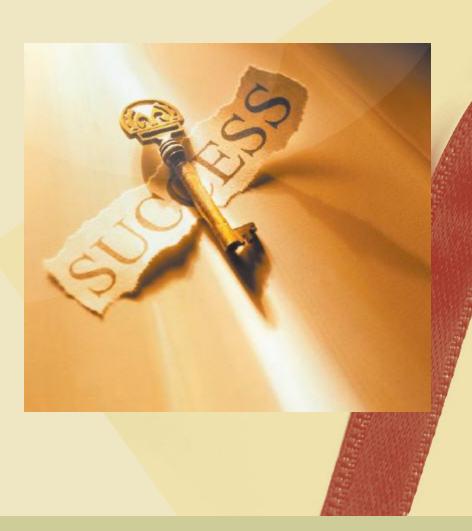


Methodology

- ♦ Study conducted with approval obtained by the Institutional Review Board (IRB)
- HIV+ individuals recruited from AIDS Service Organizations (ASO) in the Dallas-Ft. Worth metropolitan area
- ♦ Participants met inclusion criteria:
 - ♦ Over the age of 18
 - ♦ English-speaking
- ♦ Provided informed consent
- In compensation, participants received \$15 per baseline survey collected



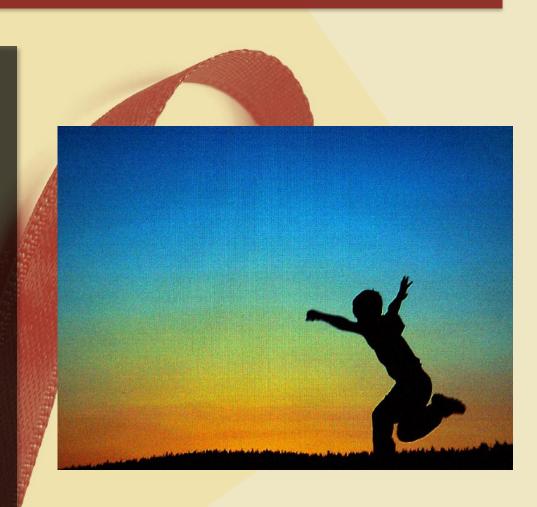
Medical Self-Efficacy



- ♦ Self-Efficacy of Managing Chronic Disease (HIV) scale (SEMCD; Lorig et al., 2001)
- ♦ 6-item scale measured on a 6-point likert-type scale
- ♦ 1 Not at all confident
- ♦ 6 Totally confident
- ♦ Reliability: Internal Consistency ($\alpha = .91$)
- ♦ Sample Question: "How confident are you that you can do things other than just taking medication to reduce how much your illness affects your everyday life?"

Energy and Fatigue

- ♦ Using the Medical Outcomes Survey – HIV (MOS-HIV; Wu et al., 1994; α = .87)
 - ♦ Energy and Fatigue is the subscale we used to measure (Wu et al., 1994; $\alpha = 78$)
- A 4-item subscale measured on a 6-point likert-type scale
- ♦ 1 None of the time
- \diamond 6 All of the time
- ♦ Validity: Construct Validity
- ♦ Sample Question: "How often, during the last 4 weeks, did you feel worn out?"



Disclosure



- \Rightarrow Using the HIV Stigma Scale (HSS; Berger, Ferrans, & Lashely, 1996; α = .96)
 - Disclosure is a subscale we used to measure (Berger, Ferrans, & Lashely, 1996; α = .90)
- ♦ A 10-item scale measured on a4-point likert-type scale
- ♦ 1 Strongly disagree
- ♦ 4 Strongly agree
- ♦ Validity: Construct Validity

Internal Locus of Control

- \diamondsuit Using the Multidimensional Health Locus of Control Scales (MHLC; Wallston, Wallston, & DeVellis, 1978; α = .60 .75)
 - ♦ Internal Locus of Control subscale used to measure (Wallston, Wallston, & DeVellis, 1978; α = .65)
- ♦ A 6-item scale that was measured on a 6point likert-type scale
- ♦ 1 Strongly disagree
- ♦ 6 Strongly agree
- Reliability/Validity: Test re-test reliability,
 concurrent validity (Moshki et. al, 2007)
- ♦ Sample Question: "The main thing that affects my health is what I do to myself"



Results

Descriptive Statistics

	Mean (SD)	Range
Age	47.5 (7.5)	24 - 61

N = 61

Univariate

	Mean (SD)	Range	α
Self-Efficacy	39.5 (14.1)	6 – 60	.93
Energy	12.8 (4.5)	4 – 22	.83
Disclosure	26.3 (5.8)	10 – 40	.70

Frequency Statistics

	Frequency (%)
<u>Gender</u> Female	32 (52.5)
Ethnic Background African American European American Other	41 (67.2) 18 (29.5) 2 (3.3%)
Sexual Orientation Straight Gay/Lesbian/Bisexual	38 (62.3) 23 (37.7)
Have Seen a Mental Health Professional Yes	49 (80.3)
Household Income Below 10,000/yr	30 (49.2)

Correlations

	1	2	3	4	5	6	7	8	9	10	11
1								1 – A	\ge		
2	08							2 – 0	ender		
3	06	42**						_	thnicity ducation		
4	22	27*	.34**					_	exual C Vental)rientati Health	on
5	06	.80**	52**	31*				7 – 1	ncome		
6	.08	02	.04	09	.02			_	elf-effi nergy	cacy	
7	12	21	.10	.15	18	.05		10 –	Disclos	ure al Locus	of
8	12	.14	13	35**	.16	13	.15	_	Contro		
9	25*	.03	.06	.03	06	.06	(24 ^t)	41**			
10	.10	.10	02	10	.09	13	03	02	20		
11	.13	05	23 ^t	24 ^t	.02	09	.11	.27*	.10	.30*) -
	** p<.01 *p<.05 ^t trending										

Regression Analysis

Linear Regression									
		β	t	р					
	Self-Efficacy	.33	2.53	.014*					
	Energy	.27	1.95	.057 ^t					
	Disclosure	.33	2.63	.011*					
	F(6, 54) = 2.52, p<.02 Adj. R ² = .20 Tolerance = .92, VIF = 1.09 ** p<.01 *p<.05 ^t trending								

Discussion



- Our findings suggest positive medical outcomes of PLH will help with the ability to effectively manage their HIV.
- ❖ Effective management of HIV may play an significant role in the improvement of quality of life among PLH.
- Improving quality of life may help people living with HIV to adopt positive coping strategies (Préau et al, 2005).

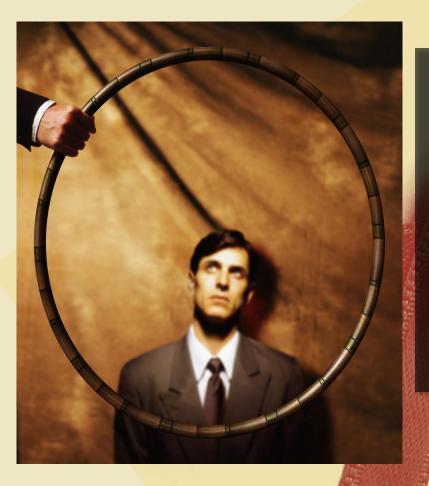
Clinical Implications

- Internal locus of control specific to the HIV+ populations may improve the understanding of psychosocial variables that could play a role in HIV populations.
- In order to increase the health and social benefits associated with higher levels of internal locus of control, clinicians must work towards understanding barriers in the:
 - ♦ Self-efficacy of managing chronic diseases,
 - ♦ Willingness to disclose HIV status,
 - And factors affecting physical and emotional energy and fatigue;

that PLH face in the context of their medical condition and well-being.



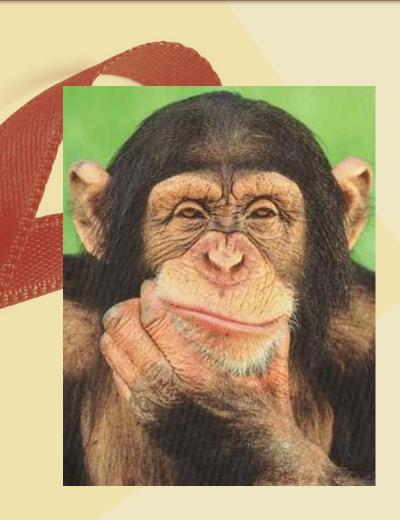
Limitations



- ↑ The cross-sectional, correlational design of our study limits causal inferences
- ♦ Sample population was only selected from one geographic location limiting generalizability
- Ethnically imbalanced, which also limits generalizability

Future Research

- ♦ Longitudinal studies
- ♦ Studies of other quality of life variables (role limitations, health distress, emotional wellbeing) in relation to internal locus of control
- Qualitative and focus group studies



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