

A Critical Point In most cases, the stress response is more dependent on the individual's PERCEPTION of the stressor than on the stressor itself.

Acupuncture Treatment

- May reduce stress hormone levels, perceived stress and enhance immune function.
- Group setting offers a cost-effective treatment for HIV related symptoms.
- Wide variety of possible treatment settings.
 - Few studies have examined the effects of acupuncture on stress-associated conditions in HIV+ populations.

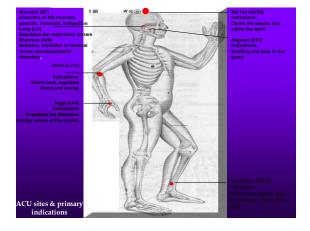
EXPORT Funded Project Principal Investigator: Dr. Gregory A. Hand Purpose To determine the effects of real and placebo acupuncture (ACU) on markers of distress and immunity in HIV+ African-Americans.

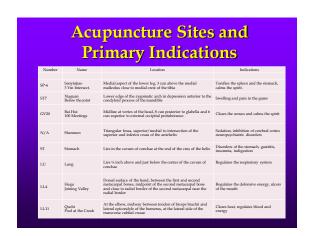
Methods

- Seventy-seven HIV infected African Americans were randomized into either a real (n = 37) or placebo (n = 40) acupuncture group.
 - Real ACU treatment group received standardized needling twice a week for 5 weeks.
 - Placebo ACU group received treatment using placebo needles identical in shape and size to the real needles.
 - Plastic rings were taped over sites for all participants which helped maintain placement of placebo needle without penetrating skin.

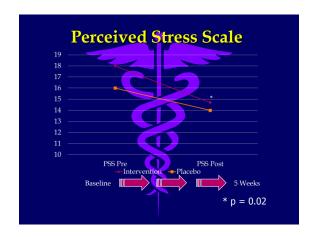
Data Collection

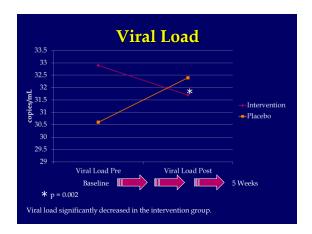
- Data collected at pre and post treatment:
 - Plasma viral load
 - Perceived stress scale
 - Symptom Distress Scale
- Data was analyzed using a two way repeated measures ANOVA with p value ≤ 0.05

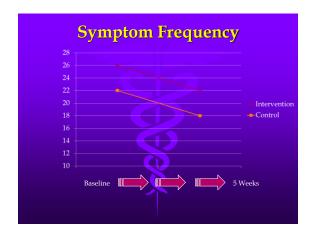




	Real (N=37)		Placebo (N=40)
Age	43		44
Sex	20	Male	25
	17	Female	15
HIV Status	25	HIV Asymptomatic	22
	12	HIV Symptomatic	15
		AIDS	
		Decline	
Route of	27	Intercourse	33
Infection		IV Drugs	
		Blood	
		Accident	
		Other	
Currently			
taking	25	Yes	30
HAART	12	No	10









Conclusions These data show that 5 weeks of acupuncture twice a week can help reduce perceived stress and possibly viral load. Unable to determine potential effects of long term acupuncture. 5 weeks of acupuncture did not effect the frequency of HIV-related symptoms nor the associated distress. Additional research is warranted to determine potential benefits of acupuncture as a form of complementary alternative medicine in HIV-infected population.

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