



Willingness to Participate in HIV vaccine trials among IDUs in Xinjiang, China

Lu Yin

NCAIDS, China CDC

Aug 22, 2007



Objective and Methods

- Research on willingness to participate in HIV vaccine trials is important in preparations for HIV vaccine research, but there are few data from China, especially from injecting drug users (IDUs)
- 401 IDUs was recruited to complete face-to-face interviews in a IDU inhabited community of Urumqi city of Xinjiang, China by a cross-sectional study between April and June, 2005.
- Questionnaire interviews were conducted to collect information about knowledge and attitudes to AIDS vaccine trial concept, demographic characteristics, drug use and sexual behaviors.



Results

- 298 (74.3%) were definitely willing
- 71 (17.7%) were probably willing
- 25 (6.2%) were probably not willing
- 7 (1.8%) were definitely not willing

Table 1 Univariate and multivariate associations with willingness to participate in HIV vaccine trials

Factors	Total	Willingness % N	Unadjusted OR [95% CI]	P value	Adjusted OR [95% CI]	P value
Frequency of injecting drugs in the past 3 months						
< 7 times/week	143	66.4 (95)	1.0		...	
≥ 7 times/week	258	78.7 (203)	1.86 (1.18,2.95)	0.0072	...	
Frequency of heroin use in the past 3 months						
< 7 times/week	137	65.7 (90)	1.0		...	
≥ 7 times/week	264	78.8 (208)	1.94 (1.22,3.07)	0.0044	...	
Any new partner shared injection equipment in the past 3 months						
No	357	72.3 (258)	1.0		1.0	
Yes	44	90.0 (40)	3.84 (1.34,11.00)	0.0076	3.76 (1.22,11.62)	0.0215
Had sex with heterosexual drug partners in the past						
No	245	70.2 (172)	1.0		1.0	
Yes	156	80.8 (126)	1.78 (1.10,2.89)	0.0182	1.85 (1.07,3.21)	0.0281
Supported by families to participate in future HIV vaccine trials						
No	142	50.0 (71)	1.0			
Yes	259	87.6 (227)	7.09 (4.32,11.64)	<0.0001	7.22 (4.28,12.18)	<0.0001
Worried that people may think I'm at high risk for HIV or AIDS if I'm in a vaccine trial						
No	224	82.6 (185)	1.0		...	
Yes	177	63.8 (113)	0.37 (0.23,0.59)	<0.0001	...	
Worried that there is always a chance that a vaccine could cause problems in the future						
No	163	81.6 (133)	1.0		...	
Yes	238	69.3 (165)	0.51 (0.31,0.83)	0.0057	...	
Worried that people may not want to have sex with me if I'm in a vaccine trial						
No	228	81.6 (186)	1.0		...	
Yes	173	64.7 (112)	0.41 (0.26,0.66)	0.0001	...	
Worried that people may avoid me if I'm in a vaccine trial						
No	221	84.2 (186)	1.0		1.0	
Yes	180	62.2 (112)	0.31 (0.19,0.50)	<0.0001	0.31 (0.18,0.53)	<0.0001



Conclusions

- In this study, a large proportion (74.3%) of IDUs reported willingness to participate in future vaccine trials.
- Among IDUs, the groups with higher risk behaviors, are more willing to participate in HIV vaccine trial, compared with those having lower risk.
- Family and social supports are important to positively affect the willingness of the IDUs to participate in HIV vaccine trials.
- There is a need for targeted education against misunderstanding vaccine trial to ensure participants and community to understand fully the key concepts of HIV vaccine trials.