A social vaccine? Social and structural contexts of HIV vaccine acceptability among most-at-risk populations in Thailand

Newman, P.A.\textsuperscript{a}, Roungprakhon, S.\textsuperscript{b}, Tepjan, S.\textsuperscript{a}, Yim, S.\textsuperscript{a}, Walisser, R.\textsuperscript{a}

\textsuperscript{a} Factor-Inwentash Faculty of Social Work, University of Toronto, Toronto, ON, Canada
\textsuperscript{b} Faculty of Science and Technology, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand

Abstract

A safe and efficacious preventive HIV vaccine would be a tremendous asset for low- and middle-income country (LMIC) settings, which bear the greatest global impact of AIDS. Nevertheless, substantial gaps between clinical trial efficacy and real-world effectiveness of already licensed vaccines demonstrate that availability does not guarantee uptake. In order to advance an implementation science of HIV vaccines centred on LMIC settings, we explored sociocultural and structural contexts of HIV vaccine acceptability among most-at-risk populations in Thailand, the site of the largest HIV vaccine trial ever conducted. Cross-cutting challenges for HIV vaccine uptake - social stigma, discrimination in healthcare settings and out-of-pocket vaccine cost - emerged in addition to population-specific barriers and opportunities. A 'social vaccine' describes broad sociocultural and structural interventions - culturally relevant vaccine promotion galvanised by communitarian norms, mitigating anti-gay, anti-injecting drug user and HIV-related stigma, combating discrimination in healthcare, decriminalising adult sex work and injecting drug use and providing vaccine cost subsidies - that create an enabling environment for HIV vaccine uptake among most-at-risk populations. By approaching culturally relevant social and structural interventions as integral mechanisms to the success of new HIV prevention technologies, biomedical advances may be leveraged in renewed opportunities to promote and optimise combination prevention. © 2012 Copyright Taylor and Francis Group, LLC.

Author keywords

acceptability of healthcare; HIV vaccines; populations at risk; structural interventions; Thailand

Indexed Keywords

EMTREE drug terms: Human immunodeficiency virus vaccine

EMTREE medical terms: article; clinical article; drug cost; drug efficacy; female; homosexuality; human; Human immunodeficiency virus infection; infection risk; lowest income group; male; priority
### References (40)

<table>
<thead>
<tr>
<th>Page</th>
<th>Export</th>
<th>Print</th>
<th>E-mail</th>
<th>Create bibliography</th>
</tr>
</thead>
</table>

1. Allen, M., Lau, C.-Y.  
   Social impact of preventive HIV vaccine clinical trial participation: A model of prevention, assessment and intervention  
   doi: 10.1016/j.socscimed.2007.10.019  
   View at publisher

2. Bechtel, G.A., Apakupakul, N.  
   AIDS in southern Thailand: Stories of krengjai and social connections  
   doi: 10.1046/j.1365-2648.1999.00910.x  
   View at publisher

3. Bonner, S.  
   Implementation science and urban health research  
   doi: 10.1007/s11524-008-9327-2  
   View at publisher

4. Busza, J.R.  
   Promoting the positive: Responses to stigma and discrimination in Southeast Asia  
   doi: 10.1080/09540120120057978  
   View at publisher

5. Dorell, C., Stokley, S., Yankey, D., Liang, J.L., Markowitz, L.  
   National and state vaccination coverage among adolescents aged 13 through 17 years-United States, 2010  
   http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6033a1.htm?s_cid=mm6033a1_w  
   View at publisher

6. Charmaz, K.  

- Corbin, J., Strauss, A.
Basics of qualitative research. Cited 3578 times.

Designing and conducting mixed methods research. Cited 919 times.

Rotavirus vaccine and the news media, 1987-2001
View at publisher

Preexposure chemoprophylaxis for HIV prevention in men who have sex with men
doi: 10.1056/NEJMoa1011205
View at publisher

Pre-exposure chemoprophylaxis for prevention of HIV among trans-women and MSM: iPrEx Study
(2011) 18th Conference on retroviruses and opportunistic infections

Human Rights Watch (HRW) and Thai AIDS Treatment Action Group (TTAG) [online]. Available from:
http://www.hivpolicy.org/Library/HPP001367.pdf

Thailand: Migrant workers unprotected and uninformed
IRIN-PlusNews [online]. Available from:

Lady boys, tom boys, rent boys: Male and female homosexualities in contemporary Thailand. Cited 17 times.
Binghamton, NY: Haworth Press

Incentives and disincentives to participate in prophylactic HIV vaccine research
Kaplan, K., Kahn, P.

Thai drug users network, AIDS and human rights: a conversation with Karyn Kaplan

In: Kahn P., editors New York, NY: AIDS Vaccine Advocacy Coalition

Matthews, J.E., Stephenson, R., Sullivan, P.S.

Factors associated with self-reported HBV vaccination among HIV-Negative MSM participating in an online sexual health survey: A cross-sectional study


Mills, E., Cooper, C., Guyatt, G., Gilchrist, A., Rachlis, B., Sulway, C., Wilson, K.

Barriers to participating in an HIV vaccine trial: A systematic review

doi: 10.1097/00002030-200411190-00003

Newman, P.A.

Integrating social and biomedical science in HIV vaccine research: Obstacles, opportunities and ways forward

doi: 10.1586/erv.11.162

Newman, P.A., Duan, N., Kakinami, L., Roberts, K.

What can HIV vaccine trials teach us about future HIV vaccine dissemination?

doi: 10.1016/j.vaccine.2008.03.004

Newman, P.A., Duan, N., Rudy, E.T., Anton, P.A.

Challenges for HIV vaccine dissemination and clinical trial recruitment: If we build it, will they come?


Newman, P.A., Logie, C.

HIV vaccine acceptability: A systematic review and meta-analysis

doi: 10.1097/QAD.0b013e32833adbe8
Newman, P.A., Logie, C., James, L., Charles, T., Maxwell, J., Salam, K., Woodford, M.

"Speaking the dialect": Understanding public discourse in the aftermath of an HIV vaccine trial shutdown
http://ajph.aphapublications.org/cgi/reprint/101/9/1749
doi: 10.2105/AJPH.2011.300208


Demographic and Behavioral Correlates of HIV Risk among Men and Transgender Women Recruited from Gay Entertainment Venues and Community-based Organizations in Thailand: Implications for HIV Prevention
doi: 10.1007/s11121-012-0275-4

Newman, P.A., Roungprakhon, S., Tepjan, S., Yim, S.

Preventive HIV vaccine acceptability and behavioral risk compensation among high-risk men who have sex with men and transgenders in Thailand
doi: 10.1016/j.vaccine.2009.10.142

Newman, P.A., Seiden, D.S., Roberts, K.J., Kakinami, L., Naihua Duan

A small dose of HIV? HIV vaccine mental models and risk communication
doi: 10.1177/1090198107305078

Newman, P.A., Yim, S., Daley, A., Walisser, R., Halpenny, R., Cunningham, W., Loutfy, M.

"Once Bitten, Twice Shy": Participant perspectives in the aftermath of an early HIV vaccine trial termination
doi: 10.1016/j.vaccine.2010.10.076

Pitisuttithum, P., Gilbert, P., Gurwith, M., Heyward, W., Martin, M., Van Griensven, F., Hu, D., (…), Choopanya, K.

Randomized, double-blind, placebo-controlled efficacy trial of a bivalent recombinant glycoprotein 120 HIV-1 vaccine among injection drug users in Bangkok, Thailand
doi: 10.1086/508748


Vaccination with ALVAC and AIDSVAX to prevent HIV-1 infection in Thailand


doi: 10.1016/S0140-6736(98)10411-7


doi: 10.1111/j.1365-3156.2008.02040.x


doi: 10.1097/QCO.0b013e32834ed5be


doi: 10.1097/00002030-200006001-00002


doi: 10.1016/j.healthpol.2004.05.005
Van Griensven, F., Varangrat, A., Wimonsate, W., Tanpradech, S., Kladsawad, K., Chemnasiri, T., Suksripanich, O., (...), Plipat, T.

**Trends in HIV prevalence, estimated HIV incidence, and risk behavior among men who have sex with men in Bangkok, Thailand, 2003-2007**

doi: 10.1097/QAI.0b013e3181c2fc86


**A therapeutic HIV vaccine: How good is good enough?**

doi: 10.1016/j.vaccine.2004.03.059

Weinberg, G.A., Szilagyi, P.G.

**Vaccine epidemiology: Efficacy, effectiveness, and the translational research roadmap**

doi: 10.1086/652404

Newman, P. A.; Factor-Inwentash Faculty of Social Work, University of Toronto, Toronto, ON, Canada; email:p.newman@utoronto.ca

© Copyright 2012 Elsevier B.V., All rights reserved.