Social cohesion among sex workers has an independent effect on reduced client condom refusal in a Canadian setting

Elena Argento^a, Putu Duff^{a,b}, Brittany Bingham^a, Jules Chapman^c, Paul Nguyen^a, Steffanie A. Strathdee^d, Kate Shannon^{a,b}

- a) Gender & Sexual Health Initiative, BC Centre for Excellence in HIV/AIDS, St. Paul's Hospital, Vancouver, Canada
 - b) Faculty of Medicine, University of British Columbia, Vancouver, Canada c) Sex Workers United Against Violence (SWUAV), Vancouver, Canada
 - d) Division of Global Public Health, Department of Medicine, University of California, San Diego, California, USA

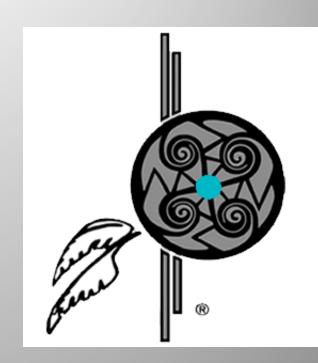








I would like to acknowledge that this conference is situated on the traditional territory of the Squamish, Musqueam, and Coast Salish peoples, and we are guests of this land.











Structural & Community-level Determinants of HIV

- Structural and community-level determinants continue to both increase and mitigate HIV risks in sex work
- Multi-pronged structural approaches to HIV prevention

International guidelines (WHO,UNAIDS,NSWP) recommend scaling-up community-led structural interventions

PREVENTION AND TREATMENT OF HIV AND OTHER SEXUALLY TRANSMITTED INFECTIONS FOR SEX WORKERS IN LOW- AND MIDDLE-INCOME COUNTRIES

Recommendations for a public health approach

December 2012











Sex Worker Collectivization & Social Cohesion

- Examples from India: Sonagachi, Ashodaya
- Focus on improving social and economic inequalities
- Community empowerment recognized as Best Practice (Kerrigan et al., Lancet 2014)

Social cohesion:

- >mutual support, trust, and solidarity
- key component of community empowerment process



Canadian Socio-Legal Context and Sex Work Organizing





- ➤ Bedford vs. Canada at the Supreme Court
- > Implications of new legislation C-36









Study Objective

To longitudinally examine the impact of social cohesion among sex workers on risk of client condom refusal in a Canadian setting (2010-2013)

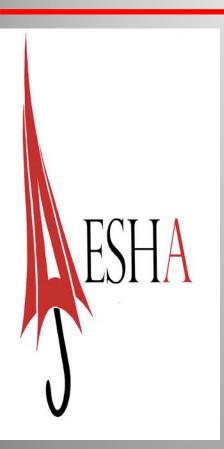








An Evaluation of Sex Workers' Health Access



- Longitudinal community-based cohort initiated in 2009 with over 800 street and off-street sex workers across Metro Vancouver
- Builds on community-based research and partnerships since 2005, with over 15 community, sex work, and HIV agencies on Advisory Board
- Cohort provides ongoing monitoring of health outcomes (e.g. sexual health, HIV, violence) and access to care
- PI: Shannon, NIH & CIHR-funded









Eligibility Criteria & Sample



- Eligibility = women (trans* inclusive) 14 years of age+ who have exchanged sex for money in last month
- Participants invited through street and off-street outreach to strolls, indoor sex work venues and online
- Baseline and semi-annual follow-up, including interview questionnaires and voluntary HIV/STI/HCV testing by nurse
- Experiential interviewers (current/former sex workers)









AESHA Cohort (2010-2013)

- Outcome measure: time-updated measure of client condom refusal for vaginal, anal or oral sex in the last six months
- <u>Primary exposure variable</u>: social cohesion among sex workers (Lippman, Kerrigan, and colleagues' Social Cohesion Scale)
- Bivariate and confounder models using generalized estimating equations (GEE)









Lippman, Kerrigan & colleagues' Social Cohesion Scale

You can count on other workers if you need to borrow money

You can count on your colleagues to accompany you to the doctor

You can count on your colleagues if you need to talk about your problems

In general, other workers in your area only worry about themselves

You can count on other workers if you need advice

You can count on other workers if you need somewhere to stay

You can count on other workers if you need help with violence or difficult client

You can count on other workers if you need help to find clients

You can count on other workers to support use of condoms

The people whom you work with are an integrated group

In general, the people you work with are always arguing among each other

In general, the people you work with get along well

- Cronbach alpha score >0.70 in Vancouver (Duff et al, 2015 JECH)
- \triangleright Continuous measure for social cohesion (0 48)

Demographics and Work Environment

- Of the 654 sex workers, one-third (33.8%; n=221) reported client condom refusal over the three-year study period
- Median social cohesion score of 24 (IQR=20-29, range 4-45)
- Median age was 34 years (IQR=28-42)
- 36% Indigenous/Aboriginal ancestry
- 57% serviced clients indoors; 43% serviced clients outdoors
- 12% HIV seropositive; 21% HIV/STI seropositive, with no differences in client condom refusal by HIV or HIV/STI status



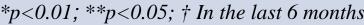






Bivariate and multivariable GEE analyses for the effect of social cohesion on risk of client condom refusal among a cohort of sex workers in Metro Vancouver (n=654)

	Unadjusted Odds Ratio	Adjusted Odds Ratio
Characteristic		
Social Cohesion Score	0.97 (0.95-0.99)*	0.97 (0.95 – 0.99)*
Age (per year older)	0.96 (0.94 – 0.97)*	0.96 (0.94 – 0.97)*
Injection drug use	1.60 (1.21 – 2.10)*	
Aboriginal ancestry	0.80 (0.59 – 1.09)	
Primary place to solicit:		
Indoor in-call venues (vs. street)	0.57 (0.40 – 0.81)*	0.63 (0.44 – 0.91)**
Independent/self-advertising (vs. street)	0.60 (0.44 – 0.83)*	0.62 (0.45 – 0.85)*
* $p<0.01$; ** $p<0.05$; † In the last 6 months		





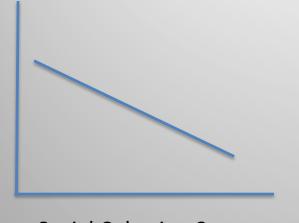






Correlation of Social Cohesion & HIV Risk

Client condom refusal



With every one point increase in the social cohesion score, the average odds of client condom refusal decreased by 3%

Social Cohesion Score

Social cohesion mitigates HIV risk with clients









Policy and Program Implications

- Ability to work together plays a key role in mitigating HIV risk with clients
- Social cohesion inversely associated with reductions in HIV-related risk factors
- Critical need to remove legal barriers that limit sex workers' ability to organize











Acknowledgments

Investigators: Kate Shannon (PI), Kathleen Deering, Shira Goldenberg, Gina Ogilvie, Jean Shoveller, Steffanie Strathdee, Thomas Kerr, Evan Wood, Julio Montaner

Research & Administrative Support: Chrissy Taylor, Jennifer Morris, Sarah Allan, Peter Vann, Brittney Udall, Chantelle Fifton, Sandra Cortina, Sylvia Machat, Eva Breternitz, Julia Homer, Andrea Krusi, Emily Leake, Jane Li, Rachel Nicoletti, Tina Ok, Sabina Dobrer, Paul Nguyen, Ofer Amram, and Jill Chettiar.

Community Advisory Board & Partners: Sex Workers United Against Violence (SWUAV), Women's Information Safe Haven (WISH), HUSTLE/Health Initiative for Men (HiM), PACE, Supporting Women's Alternatives Network (SWAN), Positive Women's Network (PWN), YouthCo AIDS Society, BC Women's Hospital, Options for Sexual Health, VCH, BCCDC, ATIRA Women's Resource Society, RainCity, Pivot Legal Society

Funders: US National Institutes of Health, Canadian Institutes of Health Research, MAC AIDS

www.gshi.cfenet.ubc.ca; gshi@cfenet.ubc.ca







