Exploring the Efficacy of FOXY and SMASH Arts-based HIV Prevention strategies with Northern and Indigenous Youth: Implications for Tailored HIV Prevention

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Background and Research Question

- The Northwest Territories (NWT) is home to among Canada's highest rates of sexually transmitted infections (STI)
 - In 2015, gonorrhea rates were 14 times higher in NWT than in all of Canada¹
 - In 2015, chlamydia rates were 6 times higher in NWT than in all of Canada²
- Nationally, rates of HIV are higher among Indigenous populations than non-Indigenous populations³
- These inequities are rooted in intergenerational trauma and effects of colonization⁴
- Gap in research: limited knowledge of efficacious approaches for HIV prevention among Indigenous and Northern young men and women in the Northwest Territories (NWT)
- Study aim: to explore the effectiveness of arts-based HIV/STI prevention workshops to increase HIV/STI knowledge and safer sex-self-efficacy (SSSE) among Northern and Indigenous youth in the NWT

Methods and Analysis

- Methods
 - School-based arts-based HIV/STI prevention workshops in 17 NWT communities
- Population and sample size:
 - 610 participants (mean age 12.2 [SD: 1.5], 49.5% cisgender women, 48.9% cisgender men) and most (73.3%) were Indigenous
 - Analysis:
 - Conducted pre- and post-test surveys to assess STI knowledge and SSSE scores using validated instruments
 - Descriptive statistics explored differences in STI knowledge and SSSE scores pre-post workshop, with statistical comparisons made using a paired student's t-test
 - To account for the effect of baseline differences in STI knowledge and SSSE scores, used multivariable regression models adjusting for sociodemographic variables
 - Conducted sensitivity analyses stratified by age and gender

Results and Implications

- Results:
 - After accounting for baseline differences, there was a 6.2 point (CI: 5.4, 7.0, p<0.001) increase in STI knowledge, and a 1.8 point (CI: 1.10, 2.52) increase in SSSE scores between pre- and post-test scores</p>
 - Some subgroups shows no statistically significant differences between pre- and post-test scores:
 - ► ≥15 years (difference: 0.04, p=0.689)
 - Those who were sexually active (difference: -0.26, p=0.968)
 - Those who use alcohol/drugs (difference: -0.26, p=0.340)
 - Increased STI knowledge scores were significantly higher among younger age groups (<15 year old vs. >15)
 - SSSE scores revealed greater increases among women than men

Implications:

- This study provides novel findings regarding the efficacy of arts-based strategies for increasing STI knowledge and SSSE among Northern and Indigenous youth
- Future research should tailor HIV/STI prevention for age, gender, alcohol and drug use, and sexual experience in the NWT

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