

MULTIPLE SEXUAL PARTNERS, CONDOM USE, AND THEIR ASSOCIATIONS WITH HIV INFECTION AMONG MAN WHO HAVE SEX WITH MAN IN MEDAN

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ABSTRACT

Background: Human Immunodeficiency Virus (HIV) continues to be a major global public health issue, having claimed more than 35 million lives so far. In 2017, 940 000 people died from HIV-related causes globally. There were approximately 36.9 million people living with HIV at the end of 2017 with 1.8 million people becoming newly infected in 2017 globally. Key populations are groups who are at increased risk of HIV irrespective of epidemic type or local context. They include: men who have sex with men, people who inject drugs, people in prisons and other closed settings, sex workers and their clients, and transgender people. This study aimed to examine multiple sexual partners, condom use, and their associations with HIV infection among man who have sex with man (MSM) in Medan, North Sumatera.

Subjects and Method: This was a case control study conducted at puskesmas (community health centre) Teladan in Medan, North Sumatera, in May 2018. A sample of 96 MSM was selected for this study. The dependent variable HIV infection. The independent variables were multiple sexual partners and condom use. The HIV status was taken from the medical record. The other data were collected by questionnaire. The data were analyzed by a multiple logistic regression.

Results: Multiple sexual partners (OR= 2.93; 95% CI= 1.25 to 6.86; p= 0.022) and no condom use (OR= 2.83; 95% CI= 1.23 to 6.52; p= 0.024) were associated with an increased risk of HIV.

Conclusion: Multiple sexual partners and no condom use are associated with an increased risk of HIV.

Keywords: HIV, multiple sexual partners, condom use, men who have sex with men

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