

# Predicting Condom Use Among Men Who Have Sex With Men (MSM) Recruited From The Internet

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## Background:

MSM is the priority community for HIV prevention in Hong Kong and sex networking using internet relates to HIV risk among MSM. We examined correlates of condom use among internet-recruited sample of MSM (n=1342) in Hong Kong.

## Method:

Using data from a large-scale internet survey for MSM, Asia Internet MSM Sex Survey in 2010, we conducted forward stepwise multivariate logistic regression analysis to determine the predictors of consistent condom use in anal sex during the last 6 months among the MSM respondents.

## Result:

About 85% (n=1138) of respondents ever had anal sex. At sexual debut, their median age was 21 years old and 58% of them used

condom. Among them, 76% (n=866) remained sexually active for the last 6 months. Condom use at sexual debut was the most significant predictor of consistent condom use for regular sex partner (OR,2.94; p<0.001) and non-regular sex partner (OR,1.54; p<0.01) in the last 6 months. Other significant negative predictors of consistent condom use included multiple sex partnership (OR, 0.46; p<0.05), and drug abuse before/during sex (OR,0.58; p<0.01).

## Conclusion:

Our findings highlight the importance of sexuality education before sexual debut, and targeted interventions to support MSM, in making informed decision about sex with condom, risk of drug abuse and multiple sex partnerships.

**Key words:** MSM, condom use, internet survey, predictor

## Factors associated with consistent condom use in past 6 months

Factors (only selected factors are illustrated)	Consistent condom use with RSP		Consistent condom use with NRSP	
	Unadjusted OR (95% CI)	Adjusted OR (95% CI)	Unadjusted OR (95% CI)	Adjusted OR (95% CI)
Condom use during first anal sex				
No	1.00	1.00	1.00	1.00
Yes	2.98 (1.99-4.46)***	2.94 (1.96-4.40)***	1.74 (1.24-2.42)**	1.64 (1.17-2.31)**
Drug abuse before or during sex in past 6 months				
No	1.00	-	1.00	1.00
Yes	0.81 (0.52-1.28)	-	0.56 (0.38-0.82)**	0.58 (0.39-0.87)**
Number of male sex partner in past 6 months				
1	1.00	-	1.00	1.00-
2-5	1.44 (0.94-2.22)	-	0.47 (0.24-0.93)*	0.46 (0.22-0.93)*
6-10	0.82 (0.45-1.49)	-	0.45 (0.22-0.94)*	0.48 (0.23-1.02)
11-50	1.29 (0.73-2.28)	-	0.43 (0.21-0.88)*	0.47 (0.22-1.00)*
50+	0.73 (0.22-2.37)	-	0.12 (0.04-0.39)***	0.10 (0.02-0.40)***
Alcohol consumption before or during sex in past 6 months				
No	1.00	-	1.00	-
Yes	1.21 (0.85-1.73)	-	0.64 (0.46-0.88)**	-
Ever had HIV test				
No	1.00	-	1.00	-
Yes	1.17 (0.79-1.73)	-	0.85 (0.60-1.20)	-

Key: RSP=regular sex partner; NRSP=non-regular sex partner; OR=odd ratio; CI=confidence interval  
\*P<0.05; \*\*P<0.01; \*\*\*P<0.001