

Men who have sex with men (MSM) and risk factors associated with last sexual intercourse with a man and a woman in Senegal - ELIHoS Project, ANRS 12139

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▶ To cite this version:

Joseph Larmarange, Abdoulaye S. Wade, Abdou K. Diop, Oulimata Diop, Khady Gueye, et al.. Men who have sex with men (MSM) and risk factors associated with last sexual intercourse with a man and a woman in Senegal - ELIHoS Project, ANRS 12139. XVIII International AIDS Conference, Jul 2010, Vienna, Austria. hal-04119531

HAL Id: hal-04119531

https://hal.science/hal-04119531

Submitted on 6 Jun 2023

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Men Who Have Sex With Men (MSM) and Risk Factors Associated With Condom Use at Last Sexual Intercourse With a Man and a Woman in Senegal ELIHoS project ANRS 12139

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Background

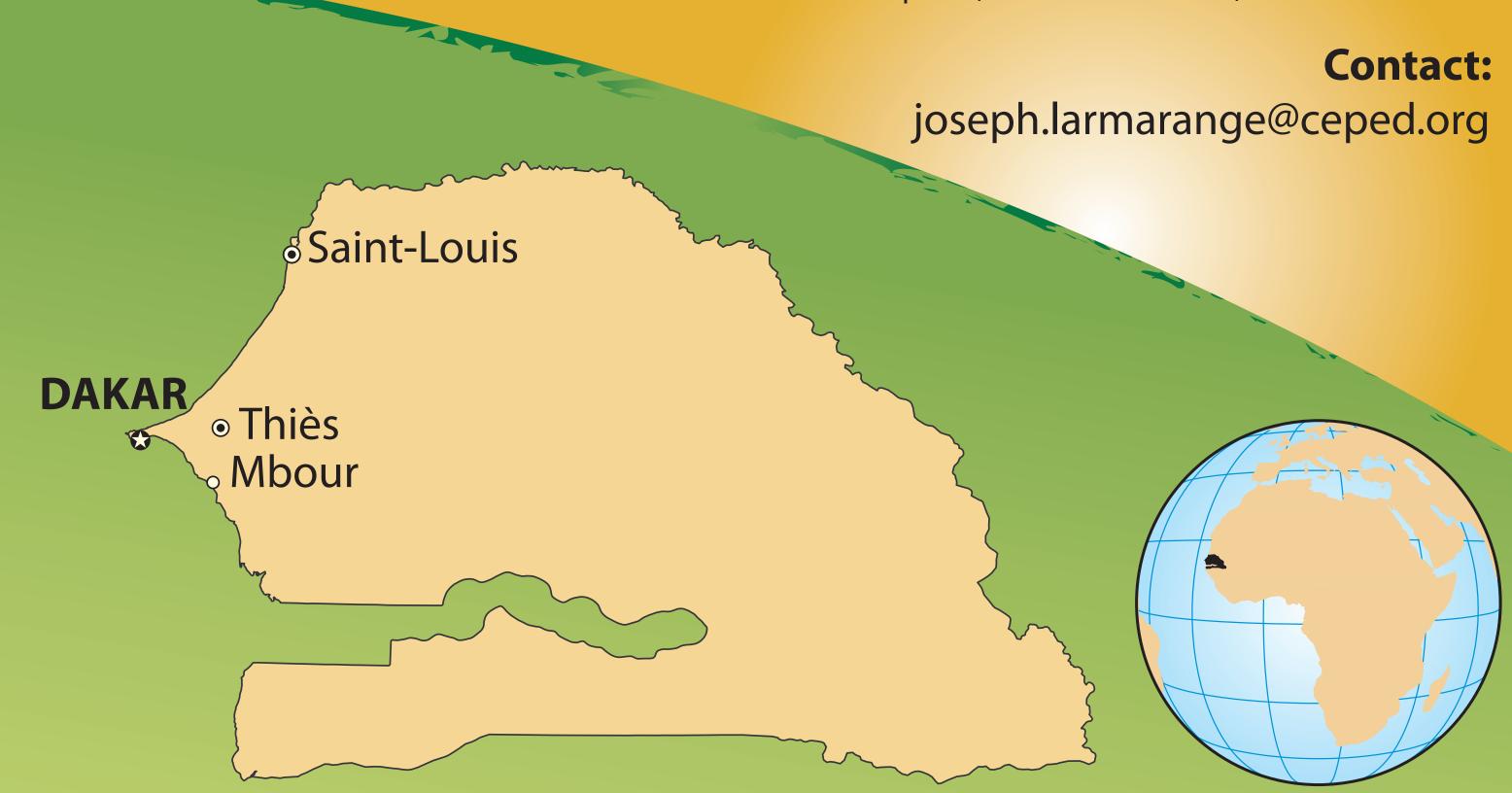
Men who have sex with other men (MSM) are in Africa a vulnerable population which has up until now been insufficiently explored. In Senegal, HIV prevalence among MSM was 21.8% in 2007. Given the high rate of bisexuality (73% of MSM had had both male and female partners over the past year), it is important to understand their risk-taking behaviours regarding both men and women.

Methods

A socio-behavioural survey was carried out in 2007 among 501 MSM recruited using the snowball sampling method in three places (Dakar, Mbour/Thiès, and Saint-Louis). We explore in this article why a condom was not used during last sexual intercourse with a man and with a woman, bearing in mind the respondent's characteristics, type of relationship and the context of the sexual act. We constructed a multiple logistic-regression model with all factors with a p-value less than 20% in the bivariate analysis and modified the model through backwards elimination, which removed explanatory variables with a p-value greater than 0.20.

Unprotected anal sex at last sexual intercourse with a man

	Univariate analysis			Multivariate logistic regression			
	%	n	χ² p-value	aOR	95% CI	p-value	
Age Group			0.000			0.193	
18-19 years	36.5	35/96		ref.			
20-24 years	24.3	46/189		0.87	0.46-1.66	0.666	
25-29 years	13.5	15/111		0.54	0.23-1.26	0.151	
30-34 years	12.3	8/65		0.44	0.16-1.22	0.113	
35 years or over	32.1	9/28		1.42	0.44-4.62	0.562	
Occupation			0.032			0.157	
None	37.0	10/27		2.98	1.10-8.10	0.032	
Student / Apprentice	29.4	37/126		0.98	0.54-1.81	0.958	
Frequent profession among MSM	16.7	18/108		0.91	0.48-1.75	0.780	
Other profession	21.1	48/228		ref.			
Global awareness indicator			0.000		•	0.000	
Don't know a place to be tested for HIV	40.8	31/76		ref.			
Know a place to be tested for HIV (a)	35.7	40/140		0.92	0.48-1.73	0.784	
(a) + has participated in an MSM prevention program (b)	15.1	14/93		0.31	0.14-0.68	0.004	
(a) + (b) + is member of an MSM organisation	10.0	27/114		0.20	0.10-0.41	0.000	
Age of the partner			0.000			0.0863	
19 years or under	42.1	24/57		1.84	0.86-3.94	0.117	
20-24 years	26.8	40/149		ref.			
25-29 years	16.4	23/140		0.61	0.32-1.18	0.141	
30 years or older	18.3	26/142		0.93	0.47-1.82	0.822	
Location of sexual act			0.000			0.001	
Respondent's home	20.1	20/149		ref.			
Partner's home	21.2	56/264		1.02	0.58-1.80	0.940	
Public place / Outside	64.5	20/31		5.70	2.21-14.71	0.000	
Hotel / A friend's home	15.6	7/45		0.66	0.25-1.75	0.405	
Partner's HIV status known			0.007			0.179	
No	24.7	110/445		ref.			
Yes	6.8	3/44		0.42	0.12-1.49	0.179	
Total	23.1	113/489					
Base: MSM who had had at least one male sex aOR: adjusted Odds ratio. 95% CI: 95% Confide		•					



Senegal Results

The sample was young (80% were under thirty) and fairly well-educated (47% had reached secondary school level or higher education). Ninety per cent lived with their family, and 41% declared themselves to be members of an MSM association. 489 men reported that they had had sexual intercourse at least once with another man during the previous year, and 358 with a man and with a woman. With another man, the main factors of not using a condom are sexual intercourse in a public place (adjusted OR = 6.8), and non-participation in an MSM prevention program (adj. OR = 3.1). The risks, although non-significant at 5%, are higher among younger men (18-19 years) and older men (35 years and over), and among vulnerable people (unemployed). With a woman, sexual intercourse with the respondent's wife is hardly ever protected (2%). Otherwise, risks are high when the female partner is very young (15 years or younger, adj. OR = 5.3) and when the man has not participated in an MSM prevention campaign (adj. OR = 2.3).

Unprotected anal or vaginal sex at last sexual intercourse with a woman

	Univariate analysis			Multivariate logistic regression		
	%	n	χ² p-value	aOR	95% CI	p-valu
Global awareness indicator			0.004			0.00
Don't know a place to be tested for HIV	53.3	32/60		ref.		
Know a place to be tested for HIV (a)	43.8	46/105		0.80	0.40-1.61	0.53
(a) + has participated in an MSM prevention program (b)	28.8	19/66		0.34	0.15-0.78	0.01
(a) + (b) + is member of an MSM organisation	29.9	38/127		0.37	0.18-0.74	0.00
Type of partner			0.000			0.00
Regular partner	30.1	56/186		ref.		
Occasional partner	36.6	53/145		1.48	0.89-2.45	0.13
Spouse	96.3	26/27		89.68	11.32-710.18	0.00
Age of the partner			0.000			0.00
15 years or under	77.4	24/31		6.38	2.45-16.59	0.00
16-19 years	35.7	55/154		ref.		
20-24 years	35.7	32/95		0.96	0.54-1.72	0.89
25 years or older	30.8	24/78		0.92	0.26-1.05	0.06
Total	37.7	135/358				

Conclusion

Whether intercourse takes place with a man or with a woman, the fact of having participated in a prevention program specifically targeting MSM constitutes a major prevention factor. This tends to show both the pertinence and effectiveness of these programs, and the necessity to pursue and to extend them.

However, these programs targeting MSM must address their heterosexual practices and the specific risks involved.







