

# Reduction of risk behaviors among MSM in Senegal after targeted prevention interventions

S. Wade Abdoulaye, Joseph Larmarange, K. Diop Abdou, Oulimata Diop, Khady Gueye, Adama Marra, Amsata Sene, Catherine Enel, Sidi Ba, Pape Niang Diallo, et al.

#### ▶ To cite this version:

S. Wade Abdoulaye, Joseph Larmarange, K. Diop Abdou, Oulimata Diop, Khady Gueye, et al.. Reduction of risk behaviors among MSM in Senegal after targeted prevention interventions. XVII International AIDS Conference, Aug 2008, Mexico City, Mexico. hal-04119395

HAL Id: hal-04119395

https://hal.science/hal-04119395

Submitted on 6 Jun 2023

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

# Reduction of risk behavior among MSM in Senegal after targeted prevention interventions • ELIHoS project ANRS 12139

Wade. A, Larmarange J., Diop A.K., Diop O., Gueye K., Marra A., Sene A., Enel C., Ba S., Niang Diallo P., Toure Kane N. C., Mboup S., Desgrées du Loû A.



## Background

In Senegal, an epidemiological survey conducted in 2004 among 463 men having sex with men (MSM) revealed a high HIV prevalence (21.5%) and high proportions of unprotected sex and bisexual activity (Wade, 2005). The health authorities concluded that not giving MSM access to health care could compromise all the efforts achieved in Senegal in combating HIV.

Consecutively, interventions targeting MSM were developped. At the beginning of 2005 we identified three on-going interventions targeting MSM in Senegal: an access to health care program for STIs and for HIV, a campaign to raise awareness on sexual risk and an appeal in defence of MSM targeting decision makers.

A second survey carried out in 2007 measured the evolution of HIV and STIs prevalence among MSM and assessed the impact of these preventive operations.

#### **Methods**

The study was carried out at three sites: Dakar, the capital city, Mbour/Thiès, a seaside tourist area, and Saint-Louis, a medium-sized town in the northern part of the country. It included both a quantitative and a qualitative component.

The quantitative part has focused on collecting sociodemographic, behavioral and biomedical data, based on a face-to-face close-ended standardized questionnaire submitted to 501 MSM recruited through the *snowball* referral method. Participants were offered to undergo a clinical examination and to provide blood and urine samples to be tested for STIs and HIV. The biological and behavioral indicators were compared to those collected during the 2004 survey.

# Results

The HIV prevalence among MSM remained globally stable, but it decreased among the youngest. Prevalence of other STIs (HSV2, Syphilis, Gonorrhea, Chlamydia) decreased.

Frequencies of various sexual practices didn't change between 2004 and 2007, but systematic condom use increased significantly irrespect of the practice and the sex of the partner.

# **HIV** and STI prevalence

STI	2004				2007	p-value	
	%	(n/N)	95% CI	%	(n/N)	95% CI	(Taillard test)
HIV	22.4	(94/420)	18.6-26.8	21.8	(109/500)	18.3-25.7	0.214
- among 18-20 years	9.1	(11/121)	4.9-16.1	7.0	(11/158)	3.7-12.5	0.144
- among 21-23 years	28.4	(21/74)	18.8-40.2	19.7	(23/117)	13.1-28.3	0.039
HSV2	23.3	(95/407)	19.3-27.8	20.6	(103/500)	17.2-24.5	0.067
Syphilis	5.0	(21/420)	3.2-7.7	3.4	(17/500)	2.1-5.5	0.053
Gonocoque	5.5	(23/420)	3.6-8.3	2.6	(13/500)	1.5-4.5	0.005
Chlamydia	4.0	(17/420)	2.4-6.5	3.2	(16/500)	1.9-5.3	0.129
95% CI: confidence interval at 95% (Wilson score with continuity correction). Undetermined results excluded.							



## Senegal

# Sociodemographic caracteristics

in %	<b>2004</b> n=441	<b>2007</b> n=501	in %	<b>2004</b> n=441	<b>2007</b> n=501
Site ####			Occupation ####		
• Dakar	67.3	61.1	• None	10.2	5.6
Saint-Louis	10.2	19.0	Student	14.5	25.9
Mbour/Thiès	22.4	20.0	• Trade	17.5	19.4
Age groups			• Employee	3.6	3.8
• 18-19	19.3	19.4	Hairdresser, beautician or artist	8.8	5.0
• 20-24	34.0	38.7	Waiter, bartender or in tourism	6.1	6.6
• 25-29	29.0	22.2	• Tailor	11.8	10.5
• 30-34	13.4	13.4	Manual worker or driver	27.4	23.2
• 35 and more	4.3	6.4	Ever participated in a preven-		
Education			tion program for MSM ****	22.7	58.7
Never been to school	17.5	14.0	Member of a MSM's NGO ****	11.1	40.9
• Primary	39.7	38.9	In couple †		
Secondary	38.3	40.1	• No	-	74.9
• Higher	4.5		• With a man	-	18.6
Lives with his family †	-	89.8	• With a woman	-	6.6
† Question not asked in 2004. <b>Comparison 2004-2007:</b> Chi <sup>2</sup> test: # p<0.10; ##	p<0.05; ### p	<0.01; ####	p<0.001 - Taillard test : * p<0.10; ** p<0.05; *** p	<0.01; **** p	<0.001

Last month sexual practices

Last month sexual practices	Year	frequency			with systematic condom use		
		%	(n/N)	p-value	%	(n/N)	p-value
With a man							
insertive anal sex	2004	60.6	(180/397)	0.0102	42.8	(77/180)	<0.0001
	2007	39.1	(196/501)	0.0102	77.6	(152/196)	<b>\0.000</b> 1
receptive anal sex	2004	37.5	(149/197)	0.1242	41.6	(62/149)	<0.0001
	2007	39.5	(198/501)		75.3	(148/198)	
oral sex	2004	42.3	(168/397)	0.0767	8.9	(15/168)	0.0460
	2007	39.3	(197/501)		13.2	(26/197)	
commercial sex	2004	23.4	(93/397)	0.0586	34.4	(32/93)	<0.0001
(received money)	2007	26.5	(133/501)		72.2	(96/133)	
commercial sex	2004	5.3	(21/397)	0.2736	28.6	(6/21)	<0.0001
(gave money)	2007	5.2	(26/501)	0.2730	84.6	(22/26)	\0.0001
With a women							
vaginal sex	2004	32.7	(130/397)	0.0967	45.4	(59/130)	0.0013
	2007	30.3	(152/501)	0.0307	61.2	(93/152)	0.0013
commercial sex	2004	2.8	(11/397)	0.0058	27.3	(3/11)	0.0544
(received money)	2007	0.8	(4/501)		75.0	(3/4)	
commercial sex	2004	3.5	(14/397)	0.1668	50.0	(7/14)	0.1635
(gave money)	2007	4.2	(21/501)		61.9	(13/21)	
p-value: Taillard test of comparison 2004-2007.							

## Conclusion

Prevention interventions targeted towards men having sex with men led to a reduction of risk behaviours in this group, showing their efficiency. Nevertheless, HIV remains high (22% versus 1% in the general population). Prevention efforts and access to care must be reinforced in this high-risk group.







