

ELIHO S

Reduction in risk-taking behaviors among MSM in Senegal between 2004 and 2007 ELIHoS Project, ANRS 12139

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2004: a first epidemiological survey (ANRS 1282)

- 463 MSM recruited through the snowball sampling method
- In 5 cities: Dakar, Thiès, Mbour, Kaolack and Saint-Louis
- The survey showed (Wade *et al.*, 2005):
 - a high HIV prevalence: 21.5%
 - high-risk sexual practices
 - 9 MSM on 10 also had sex with a woman

Interventions targeting MSM

- Several interventions were then carried out by National Health Authorities and NGOs:
 - STIs and HIV care programs targeting MSM carried out in several towns (PNLS)
 - Awareness-raising action about sexual risks among MSM networks (ENDA / ANCS)
 - Appeal to actors of society to address the specific risks for MSM (PNLS)

2007: a new survey - ELIHoS project (ANRS 12139)

- **Main Objective:**

To Evaluate the effects of these interventions targeting MSM.

- **Specific Objectives:**

- To measure the trends in HIV and STIs prevalences between 2004 and 2007
- To assess the impact of awareness-raising actions on HIV risk-taking behaviours among MSM.

Comparison 2004-2007

- Both surveys followed the same methodology
 - Snowball sampling – recruitment by MSM leaders
 - Eligibility: being a man 18 or over, who ever had sex with another man
 - Survey in the referral health center:
 - ◆ Standardized questionnaire on socio-demographic characteristics and sexual behaviors
 - ◆ Physical examination
 - ◆ Blood and urine samples to be tested for STIs and HIV infection
- Both surveys conducted in Dakar, Saint-Louis, Mbour, Thiès

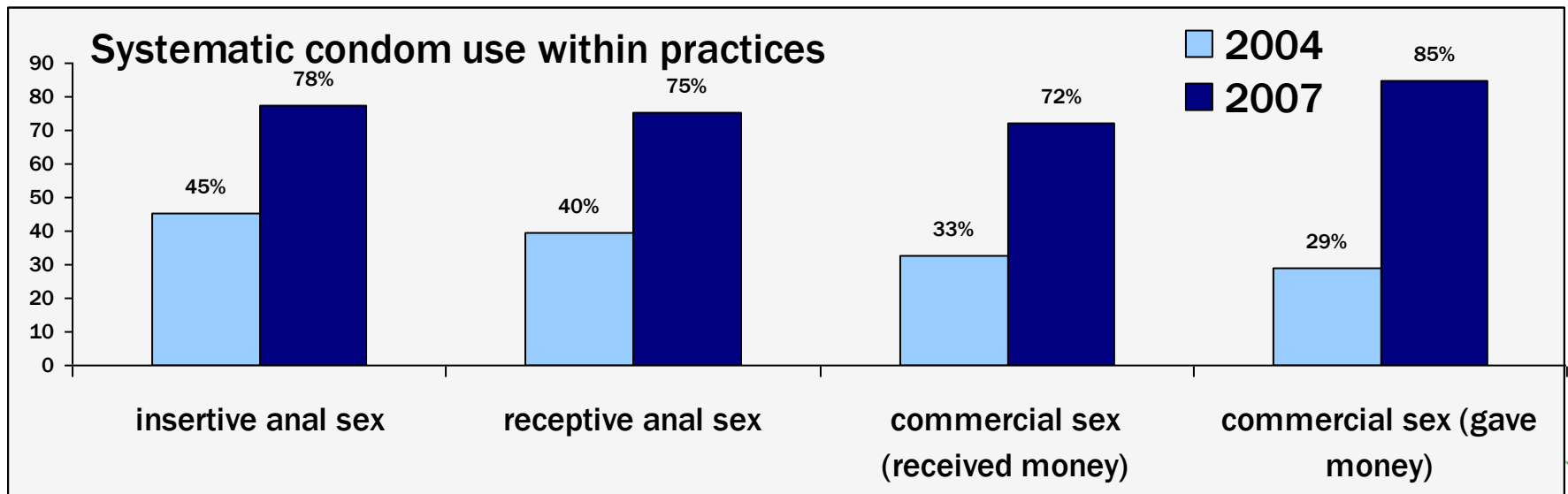
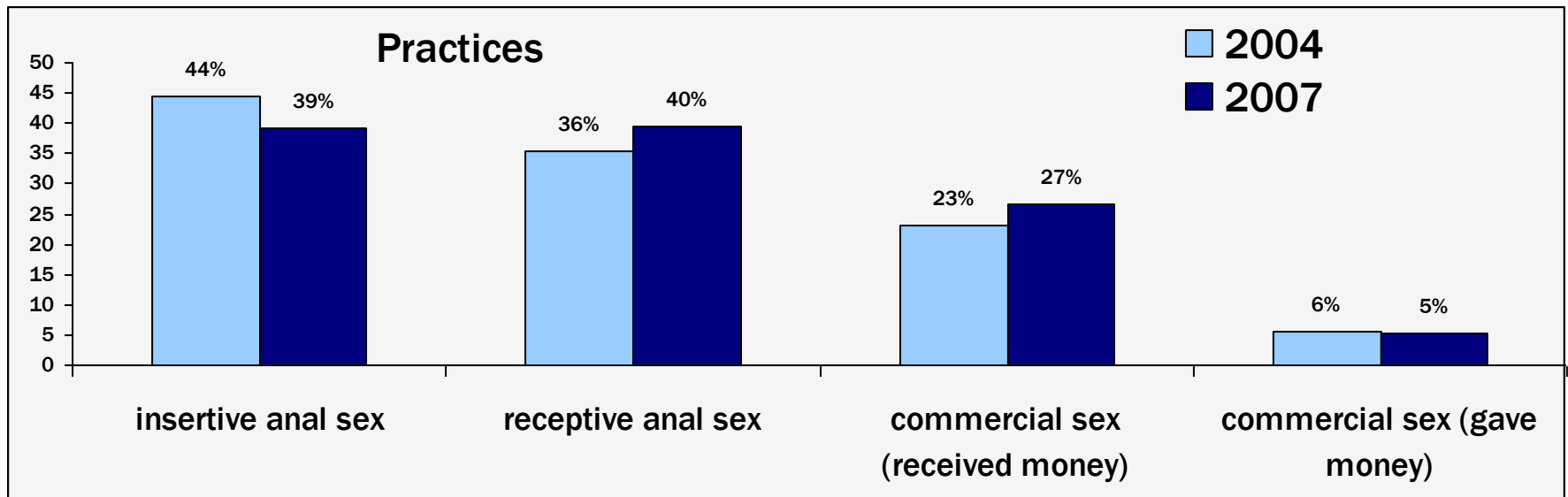
Socio-demographic characteristics

	2004		2007		
	n= 440		n= 501		
	%	n'	%	n'	
Dakar	68	297	61	306	
Saint Louis	10	45	19	95	**
Thiès/Mbour	22	98	20	100	
Age					
18-24	53	235	58	291	NS
25 and above	47	205	42	210	
Education					
Never been to school	17	76	14	70	
Primary	40	175	39	195	NS
Secondary	38	169	40	201	
Higher	5	20	7	35	
Member of a MSM's NGO	11	50	41	201	**
Ever participated in a prevention program for MSM	23	100	59	294	**
Participation to the 2004 survey	all		34	170	

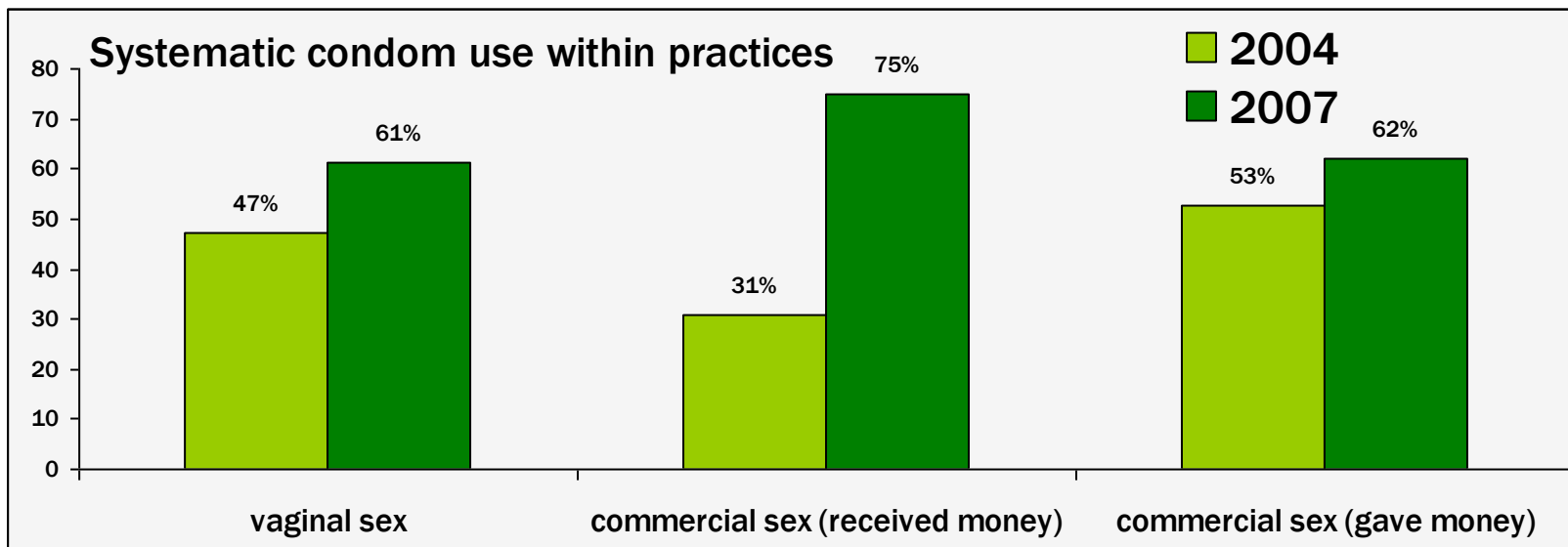
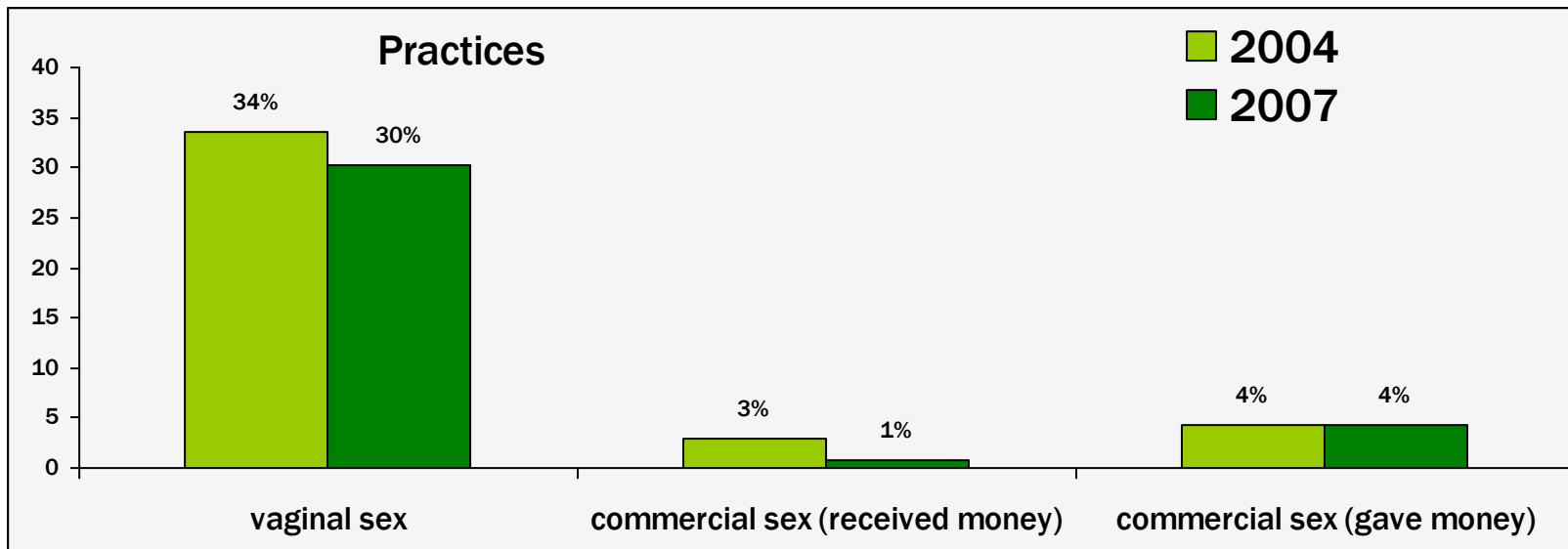
HIV and STIs prevalences

	2004		2007		
	%	95% CI	%	95% CI	
HIV	22.4	18.6-26.8	21.8	18.3-25.7	NS
<i>among 18-20 years</i>	9.1	4.9-16.1	7.0	3.7-12.5	NS
<i>among 21-23 years</i>	28.4	18.8-40.2	19.7	13.1-28.3	*
HSV2	23.4	19.4-27.9	20.6	17.2-24.5	NS
Syphilis	5.0	3.2-7.7	3.4	2.1-5.5	*
Gonorrhoea	5.5	3.6-8.3	2.6	1.5-4.5	**
Chlamydiae	4.0	2.5-6.6	3.2	1.9-5.3	NS

Sexual practices with a man (last month)



Sexual practices with a woman (last month)



Conclusions


- The prevention interventions carried out between 2004 and 2007 among MSM resulted in the reduction of risk-taking sexual practices:
- Same sexual practices in 2007 compared to 2004 BUT more protection

⇒ Developing specific interventions for MSM is effective to reduce HIV risks

Conclusions (2)

- MSM community remains vulnerable to HIV transmission in Senegal:
 - High HIV prevalence
 - Despite progresses, 1 on 4 anal intercourse remains unprotected
 - Heterosexual sex is frequent and less likely to be protected than homosexual sex

⇒ these issues should be addressed in the coming prevention campaigns

E L I H  S

Thank you
for your attention



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Appendix : sexual practices – last month

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