

Mexico Must Promote HIV Self-testing: Evidence from a Survey of 11,000 Mexican MSM



<u>M. Valenzuela-Lara¹, R. Baruch-Dominguez², A.B Algarin³, M. Hernandez-Avila⁴, L.R. Smith³, T.H. Sanchez¹</u>

¹Emory University, Epidemiology, Atlanta, United States, ²International Planned Parenthood Federation, Western Hemisphere Region, Mexico City, Mexico, ³University of California San Diego, Division of Infectious Diseases and Global Public Health, La Jolla, United States, ⁴Instituto Mexicano del Seguro Social, Dirección de Presentaciones Económicas y Sociales, Mexico City, Mexico

IAS 2021, Abstract No. A-IAS2021-02243

Background

- HIV in Mexico disproportionately affects MSM with HIV prevalence of 20.7% and only 39.8% diagnosed.¹
- In May 2018, the Mexican Government included HIV self-testing (HIVST) as part of the differentiated screening strategies to increase people's access to HIV testing. However, HIVST remains unavailable in Mexico.
- To illustrate the importance of Mexico remaining committed to HIVST, we conducted a study to describe the Mexican MSM demand for HIVST and

Methods

- We performed a secondary data analysis of the Encuesta de Sexo entre Hombres (ESEH) study, an online sexual health survey of adult Mexican MSM recruited in 2017.
- Analysis was restricted to those participants who did not report a previous HIV diagnosis. They were asked about their willingness to buy an HIVST from a pharmacy.

Q: If there were rapid tests for HIV detection through saliva available for sale in pharmacies, would you be willing to buy them?

- Multivariable logistic regression assessed demographic and behavioral factors associated with willingness to buy an HIVST (yes versus no/maybe).
- To estimate the impact of HIVST, we assumed that the prevalence of MSM who had never been tested

estimate its potential public health impacts.

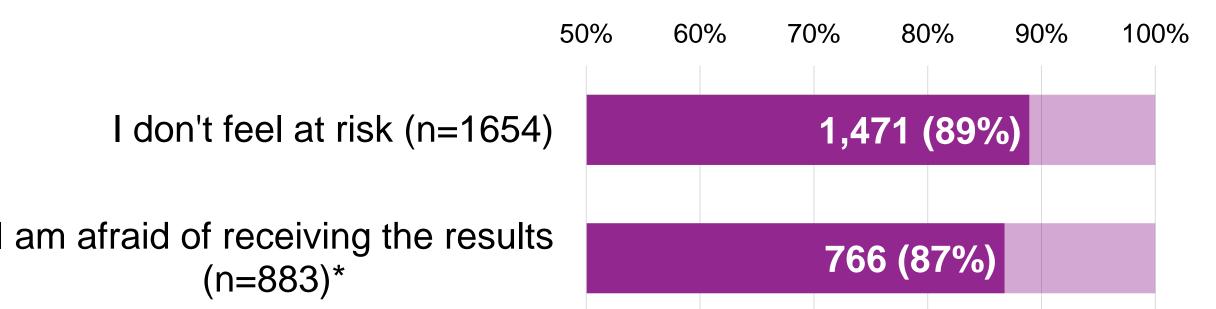
and the prevalence of MSM in Community Detection Center (5.8%) are similar. The analysis was based on UNAIDS''s estimates of undiagnosed PLWH in Mexico and a 1.2 million MSM population.^{1,2}

Results

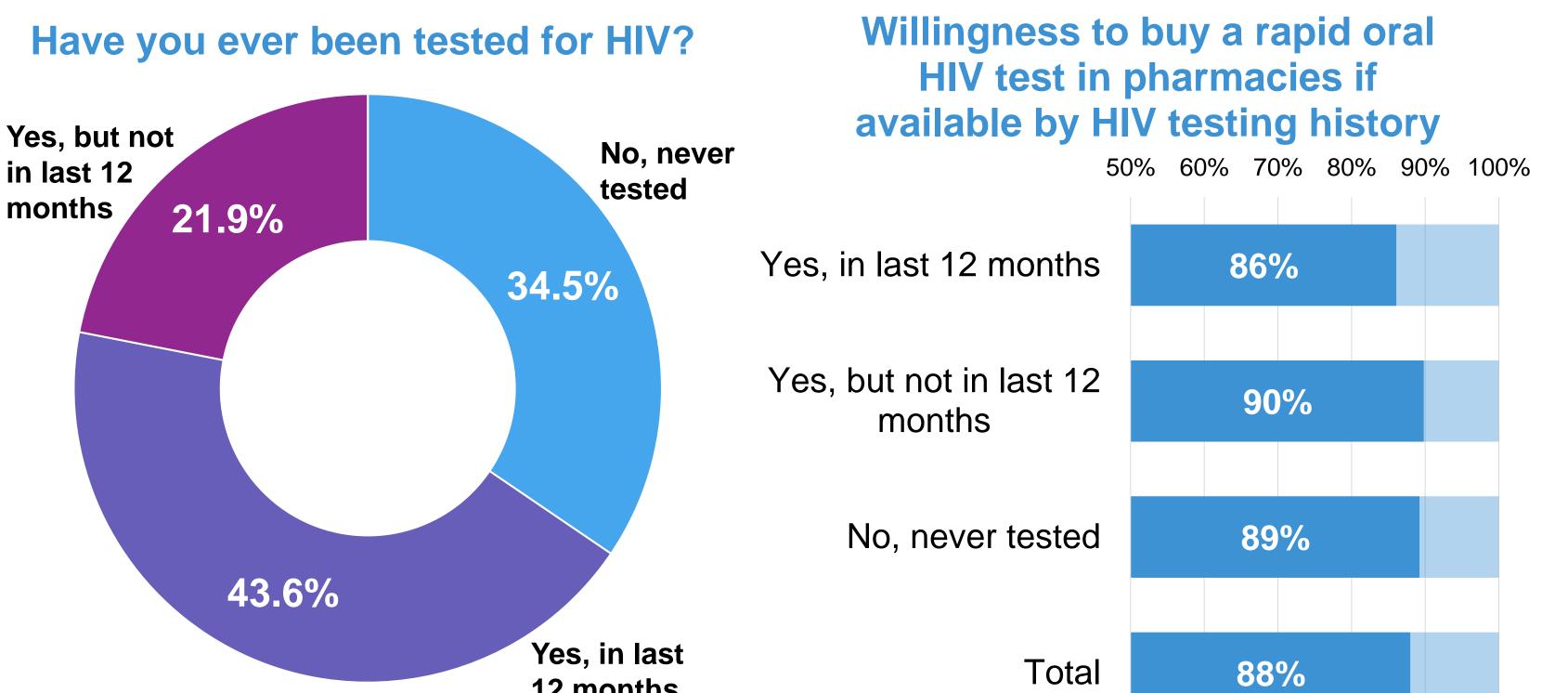
Sample characteristics

- 11,183 MSM participants
- Median age: 26 years old (IQR: 22-31)
- Median # of sex partners in the past 12 months: 4 (IQR: 2-10)
- 74% of participants had at least an associate or bachelor's degree
- 34.5% (3,858/11,183) had never been HIV tested
- 21.9% (2,453/11,183) were tested >12 month prior.

Willingness to buy a HIVST kit in pharmacies if available by reason for not HIV testing

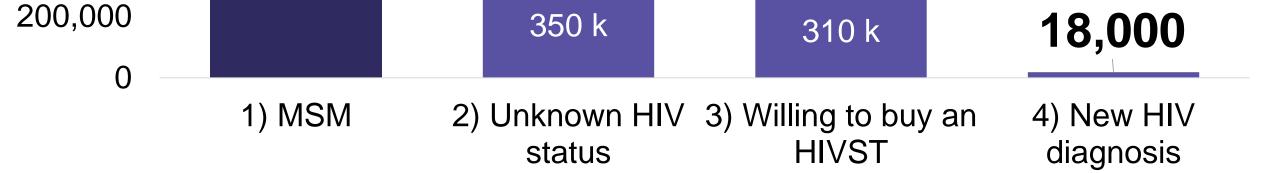


88% of participants would buy an HIVST from a pharmacy (9,839/11,183)



		12 months	TOTAL	88%	
I am ashamed to talk to a counselor (n=670)*	628 (94%)				
		Factors associated with willingness to		T kit	
t is too far away from me (n=193)	179 (93%)	from pharmacies if available			
			Yes	aOR	95% Cis
ave tried to do it and there were	66 (72%)	Have you ever been tested for HIV?*			
not test available (n=92)*		Yes, in last 12 months	4194 (86.08)	1.0	
■Yes No/Maybe		Yes, but not in last 12 months*	2203 (89.81)	1.4	1.2 - 1.7
		No, never tested*	3442 (89.22)	1.5	1.3 - 1.8
• 000/ of participants who re	anandad nat faaling at riak	Do you think there is any benefit to getting tested for HIV?			
 89% of participants who responded not feeling at risk 		No	52 (63.41)	1.0	
would still buy an HIVST ki	t if available	Yes*	9621 (88.44)	4.9	2.7 - 8.9
• The higher percentage of y	villingness was among MSM	Number of sexual partners in the last 12 months			
	0	≤2	2954 (86.7)	1.0	
that referred feeling asham	ned to talk to a counselor (94%)	3 to 4	1750 (87.63)	1.0	0.8 - 1.2
		5 to 9	1974 (88.6)	1.1	0.9 - 1.4
Ectimated impact of HIV	ST among MSM who have	≥10* Nove you ever avoided going to medical convises because you are	2533 (89)	1.3	1.0 - 1.5
	ST among MSM who have	Have you ever avoided going to medical services because you are worried that someone might find out that you have sex with men?			
never b	een tested	No	7925 (87.69)	1.0	
200,000		Yes*	1549 (90.01)	1.0	1.0 - 1.5
00,000	Availability of HIVST could	Condomless anal sex in past 12 months		1.4	
	potentially reduce one-third	No	3062 (87.04)	1.0	
300,000	of the estimated diagnostic	Yes	5206 (88.78)	1.1	0.9 - 1.3
00,000 1.2 million	gap (18,000/55,000).	Condom use in last anal sex		-	
	34p (10,000,000).	No	4739 (88.36)	1	
400,000		Yes	4732 (87.58)	0.9	0.8 - 1.1
		Total	0830 (87 08)		

lotal 9839 (87.98)



1) Proportion of the population of adult men who have sex with men use in Mexico: 3%. 2) MSM 20 to 69 yo = 1,010,000 x 34.5% 3)Among those who have never been screened for HIV (89.2%). 4) HIV prevalence of Community Detection Centers (5.8%)

Conclusions

- Never tested and tested but not in the last 12 months were associated with willingness to buy an HIVST.
- MSM that perceived a benefit on getting an HIV test were 5 times more likely to be willing to buy an HIVST kit

Adjusted by: age, age of first oral and anal sex, education level, type of health insurance (public vs. private), recruitment source *p-value < 0.05

- Mexican MSM demand for HIVST is exceptionally high, even if HIVST must be bought from a pharmacy, especially among MSM who have never or inconsistently tested or who have experienced barriers in the past. This high demand emphasizes that Mexico's implementation of HIVST policy is very likely to have substantial population-level effects on HIV prevention and care of Mexican MSM.
- Access to HIV testing decreased 60% in 2020 as a consequence of the COVID-19 pandemic.³ Educational campaigns on the benefits of getting tested for HIV and access to HIVST in pharmacies could increase the frequency of HIV testing and the proportion of MSM aware of their HIV status.

¹ Ministry of Health of Mexico. Informe nacional del monitoreo de compromisos y objetivos ampliados para poner fin al sida (Informe GAM) [Internet]. Mexico City; 2018. www.unaids.org/sites/default/files/country/documents/MEX 2018 country/documents/MEX 2018 country/documents/MEX 2018 country of Health of Mexico. Boletín de Atención Integral de Personas que Viven con VIH [Internet]. Mexico City; 2018. www.gob.mx/cms/uploads/attachment/file/598926/BOLETIN DIA MUNDIAL 01122020.pdf ³ Ministry of Health of Mexico. Boletín dia mundial del Sida [Internet]. Mexico City; 2020. www.gob.mx/cms/uploads/attachment/file/442533/2018 3 Detecci n v4.pdf ³ Ministry of Health of Mexico. Boletín dia mundial del Sida [Internet].



