Examining geographical differences in the HIV care cascade among men who have sex with men in Mexico

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Introduction

In 2018, there were an estimated 230,000 people living with HIV (PLWH) in Mexico

- 79% know their status
- 72% are on ART
- 55% are virally suppressed

In an effort to reach the UNAIDS 90/90/90 goal, it remains important to examine barriers to its achievement.

Examining regional differences can shed light on intervention planning tailored to regional, historical, social, and economic contexts.



(De La Torre, 2019)

AIM

To describe regional differences in the HIV care cascade among MSM in Mexico

Methods



Data

Es entre Hombres Study
Self-reported data from
N=15,889 MSM

Similar study design to the American men's Internet Survey



Timeline

May-June 2017



Recruitment

Online through Social Networking applications:

- Grindr
- Facebook
- Etc.



Eligibility

- Cisgender male
- 18+ years of age
- History of anal/oral sex with another man
- Mexican Residence

Regional Stratification

Based on the self reported state of residence, participants were stratified into the following 6 regions:

1) Noroeste

• Tijuana, Ciudad Juarez, Chihuahua

2) Noreste

Monterrey, Nuevo Laredo

- 3) CDMX/EdoMex
 - Toluca
- 4) Centro
 - Puerto Vallarta, Colima, Guadalajara
- 5) Bajio/Occidente
 - Puebla, Tlaxcala, Veracruz
- 6) Sur/Sureste
 - Oaxaca, Cancun, Campeche



(Baruch, *in progress*)

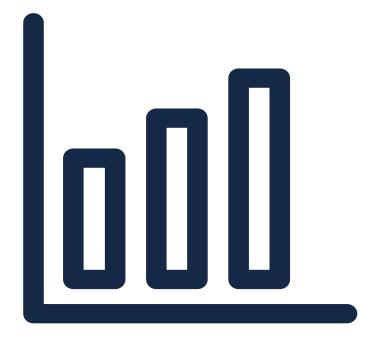
HIV Care Cascade and related variables

HIV negative

- History of HIV testing
- HIV testing in past year

PLWH

- HIV counseling at diagnosis
- Linkage to care <1 month
- Lab results <1 month
- Accessed ART <1 month
- Currently on ART



Analysis



Descriptive statistics Chi Squared tests Alpha=0.05



Geographical depictions of regional differences in the HIV care cascade and related variables

Demographics

65.7%

18-29 years

15,889

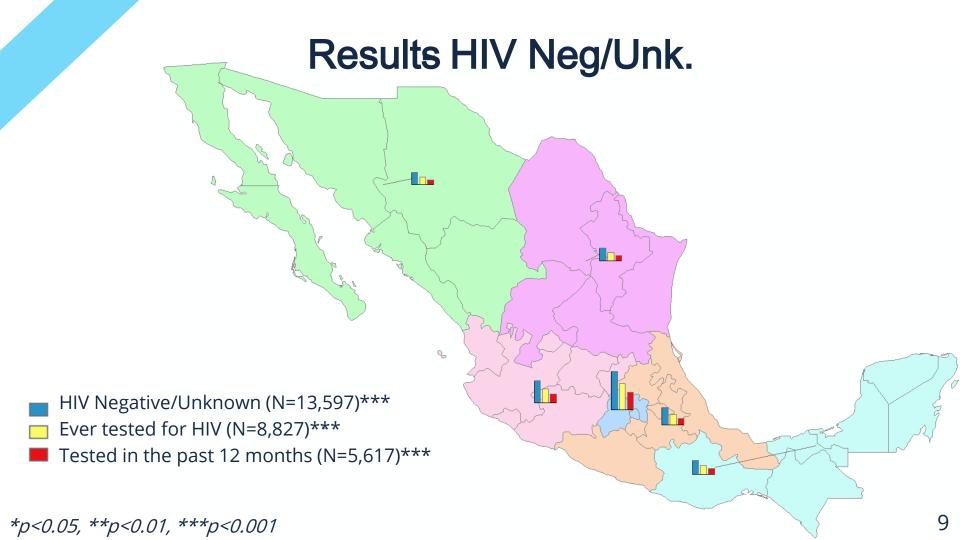
Total Participants

64.8%

≥ Technical/ Bachelors

Regional Stratification





Results HIV Neg/Unk.

	Noroeste	Noreste	СDМХ	Centro	Bajio	Sur
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
HIV neg/unk.	906 (58.3)	935 (58.6)	3,101 (59.5)	1,250 (54.6)	1,607 (57.6)	1,028 (56.9)
Ever HIV Test	906 (63.4)	935 (63.4)	3,101 (68.6)	1,250 (62.2)	1,607 (62.8)	1,028 (64.3)
HIV Test 12m	546 (39.9)	587 (41.6)	2,054 (47.3)	765 (39.6)	992 (40.3)	673 (43.9)





Results HIV Positive

	Noroeste	Noreste	СДМХ	Centro	Bajio	Sur
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
HIV Positive	124 (8.0)	123 (7.7)	686 (13.2)	279 (12.2)	230 (8.2)	208 (11.5)
Received Labs	36 (33.0)	32 (29.4)	331 (53.9)	84 (35.3)	78 (37.1)	57 (31.8)
Accesed ART	40 (36.0)	57 (52.3)	222 (35.8)	83 (34.9)	83 (39.7)	76 (42.0)
Current ART	95 (84.8)	97 (88.2)	571 (91.2)	196 (81.7)	182 (86.3)	158 (86.8)

Discussion

This is the first study to examine regional difference is in the HIV care cascade among MSM in Mexico



Not yet close

- 31.3% have unknown HIV status
- 87.7% are currently on ART



HIV negative

Despite testing recommendations,

- 43.1% of HIV neg/unk received test in 12m
 - Low Centro (39.6%)
 - High CDMX/EdoMex (47.3%)

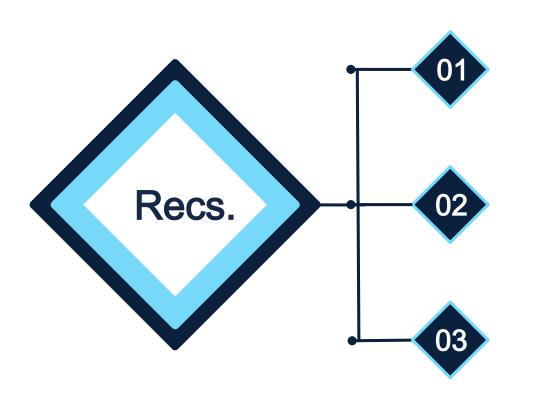
Lower resources, increased stigma, and accessibilty issue could be driving regional disparities



HIV Labs 1m receipt

- Overall 42.4%
 - Low Noreste (29.4%)
 - High CDMX/EdoMex (53.9%)

Fragmented health system, lab processing protocols, lower resources



Continued Surveillance

Similar NHBS/AMIS

Allows for researchers to identify trends

Resource Distribution

Resources for HIV should be distributed in a more targeted way

Policy

Policies surrounding lab processing, health system communication, clinic accessability, and stigma are necessary

Thanks

Do you have any questions?

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