

Differences in Burden of Internalized HIV Stigma (IHS) by CENTES FOR ALIS RESEARCH Race/Ethnicity among People with HIV (PWH) Living in the US

Abstract: EPD404

Lydia N. Drumright¹, Duncan Short², Bridget M. Whitney¹, Stephanie A Ruderman¹, Jimmy Ma¹, Lara Haidar³, Robin M. Nance¹, Andrew Hahn¹, Ellie Moffatt², Kenneth H Mayer⁴, Katerina Christopoulos⁵, Mallory O Johnson⁵, Michael S Saag⁶, Mari M Kitahata¹, William B Lober¹, Richard D Moore⁻, Jeanne C Keruly⁻, Amanda Willig⁶, Edward Cachay⁶, Joseph J Eron⁶, Sonia Napravnik⁶, Geetanjali Chander¹, Heidi M Crane¹, Joseph AC Delaneyȝ, Paul K Crane¹, Rob J Fredericksen¹ ¹University of Washington, ²ViiV Healthcare, ³University of Manitoba, ⁴Harvard University, ⁵University of California, San Diego; ⁹University of Alabama, Birmingham, ⁷John Hopkins University, ⁸ University of California, San Diego; ⁹University of North Carolina, Chapel Hill

BACKGROUND

- > HIV stigma can have a detrimental impact on the well-being of people with HIV (PWH)
- > Internalized HIV stigma (IHS) relates to how an individual feels about him/her/themselves with respect to their HIV status based on their internalization of social norms.
- While HIV stigma has been associated with adverse health outcomes among PWH, little is known about which subgroups are most affected by IHS and hence may experience greater adverse effects.
- We examined IHS in a large cohort for PWH receiving care in 7 sites across the US to determine differential burden of IHS in different subgroups of PWH.

- > PWH receiving care at CFAR Network of Integrated Clinical System (CNICS) locations complete patient reported outcomes and measures (PRO) assessments every 4-6 months.
- ▶ Beginning in 2016, PWH responded to 4 Likert scale IHS questions, ranging from strongly disagree (1) to strongly agree (5).
- ▶ Initial IHS responses were transformed into a score, theta, using Item Response Theory models.
- Differences in thetas across PWH who responded to questions on IHS were examined by sociodemographic characteristics using multiple linear regression stratified by race/ethnicity.

- ▶ 10,825 PWH in clinical care at CNICS sites responded to questions regarding IHS at least once.
- The overall cohort had a mean age of 47 years.
- ▶ Most identified as cisgender men (79.8%), about ½ identified as gay ▶ (51.8%), most had been in care \geq 5 years, with wide representation across US regions, however, these characteristics differed by race/ethnicity (Table
 - Table 1 Distributions and differences in subgroup characteristics by self-reported race/ethnicity among people with HIV (PWH) (n=10.825)

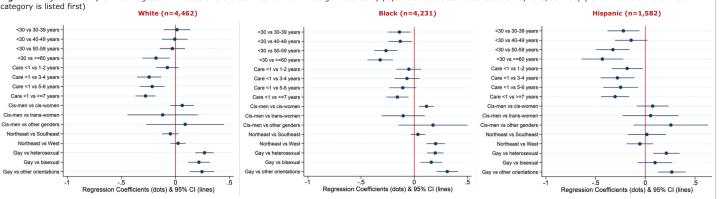
Subgroup Characteristics	Total (N=10,825) n (%)	White (n=4462) n (%)	Black (n=4231) n (%)	Hispanic (n=1582) n (%)	Other (n=550) n (%)	p- value
Age						< 0.001
<30 years	988 (9.1)	276 (6.2)	448 (10.6)	181 (11.4)	83 (15.1)	
30-39 years	2113 (19.5)	717 (16.1)	827 (19.6)	411 (26.0)	158 (28.7)	
40-49 years	2608 (24.1)	1107 (24.8)	932 (22.0)	439 (27.8)	130 (23.6)	
50-59 years	3504 (32.4)	1643 (36.8)	1307 (30.9)	415 (26.2)	139 (25.3)	
≥ 60 years	1612 (14.9)	719 (16.1)	717 (17.0)	136 (8.6)	40 (7.3)	
Years in Care						< 0.001
<1 year	1173 (10.8)	459 (10.2)	375 (8.9)	237 (15.0)	102 (18.6)	
1-2 years	1749 (16.2)	728 (16.3)	640 (15.1)	261 (16.5)	120 (21.8)	
3-4 years	1432 (13.2)	508 (11.4)	651 (15.4)	204 (12.9)	69 (12.6)	
5-6 years	1138 (10.5)	472 (10.6)	416 (9.8)	186 (11.8)	64 (11.6)	
≥ 7 years	5333 (49.3)	2295 (51.4)	2149 (50.8)	694 (43.9)	195 (35.5)	
Gender						< 0.001
Cis men	8634 (79.8)	3996 (89.6)	2820 (66.7)	1342 (84.8)	476 (86.6)	
Cis women	1947 (18.0)	415 (9.3)	1302 (30.8)	177 (11.2)	53 (9.6)	
Trans women	160 (1.5)	28 (0.6)	79 (1.9)	41 (2.6)	12 (2.2)	
Other	84 (0.8)	23 (0.5)	30 (0.7)	22 (1.4)	9 (1.6)	
Location						< 0.001
Northeast	2351 (21.7)	874 (19.6)	1178 (27.8)	208 (13.2)	91 (16.6)	
Southeast	3883 (35.9)	1335 (29.9)	2338 (55.3)	145 (9.2)	65 (11.8)	
West	4591 (42.4)	2253 (50.5)	715 (16.9)	1229 (77.7)	394 (71.6)	
Sexual Orientation						< 0.001
Gay, same sex	5604 (51.8)	3090 (69.3)	1215 (28.7)	949 (60.0)	350 (63.6)	
Heterosexual	3323 (30.7)	790 (17.7)	2140 (50.6)	304 (19.2)	89 (16.2)	
Bisexual	895 (8.3)	327 (7.3)	402 (9.5)	114 (7.2)	52 (9.5)	
Other	1003 (9.3)	255 (5.7)	474 (11.2)	215 (13.6)	59 (10.7)	

- Number of years in HIV care and older age were associated with lower IHS scores for many, but not all, racial/ethnic groups (Table 2).
- > Identifying with a sexual orientation other than gay was associated with higher IHS scores for most racial/ethnic groups.
- Black PWH in the West vs Northeast and cis-women vs cis-men also had a higher IHS

Table 2: Adjusted multiple linear regression models of the theta internalized stigma scores by population characteristics stratified by self-reported race/ethnicity among PWH (n=10,825)

	White (n=4462)		Black (n=4231)		Hispanic (n=1582)		Other (n=550)	
Subgroup Characteristics	Coefficient	p- value	Coefficient	p- value	Coefficient	p- value	Coefficient	p- value
Age								
<30 years	REF		REF		REF		REF	
30-39 years	0.014	0.822	-0.139	0.010	-0.221	0.007	0.036	0.770
40-49 years	-0.007	0.914	-0.131	0.018	-0.143	0.086	-0.004	0.978
50-59 years	-0.029	0.629	-0.265	< 0.001	-0.326	< 0.001	-0.205	0.126
≥ 60 years	-0.180	0.005	-0.320	< 0.001	-0.432	< 0.001	-0.314	0.078
Years in Care								
<1 year	REF		REF		REF		REF	
1-2 years	-0.075	0.148	-0.051	0.388	-0.183	0.022	-0.146	0.227
3-4 years	-0.243	< 0.001	-0.068	0.251	-0.280	0.001	-0.127	0.362
5-6 years	-0.215	< 0.001	-0.107	0.097	-0.248	0.005	-0.282	0.051
≥ 7 years	-0.277	< 0.001	-0.158	0.003	-0.304	< 0.001	-0.096	0.405
Gender								
Cis men	REF		REF		REF		REF	
Cis women	0.062	0.257	0.116	0.001	0.074	0.364	0.258	0.100
Trans women	-0.118	0.475	-0.103	0.315	0.053	0.708	-0.606	0.022
Other	0.089	0.625	0.176	0.284	0.257	0.176	-0.008	0.980
Location								
Northeast	REF		REF		REF		REF	
Southeast	-0.047	0.213	0.034	0.308	0.016	0.872	-0.102	0.489
West	0.024	0.491	0.201	< 0.001	-0.055	0.413	-0.030	0.776
Orientation								
Gay, same-sex	REF		REF		REF		REF	
Heterosexual	0.268	<0.001	0.198	<0.001	0.211	0.002	0.180	0.168
Bisexual	0.216	<0.001	0.161	0.002	0.102	0.262	0.242	0.067
Other	0.244	< 0.001	0.311	<0.001	0.267	< 0.001	0.231	0.081
Constant	0.193	0.004	0.148	0.023	0.475	< 0.001	0.293	0.055

Figure 1: Adjusted multiple linear regression models of the theta internalized HIV stigma scores by population characteristics stratified by race/ethnicity (for all variables reference



DISCUSSION

- IHS is prevalent among PWH in care
 - > Some subgroups of PWH report higher IHS, which differs by selfreported race/ethnicity.
- Specifically, more years in HIV care and older age are associated with reductions in IHS burden to some extent among most racial/ethnic groups.
- While identification with sexual orientations other than gay appear to increase IHS burden for most groups, geographic location and gender identity difference were only observed among Black PWH.

CONCLUSIONS

- These findings highlight the need for routine screening for IHS
- ▶ Interventions to reduce IHS among PWH are needed, which could be optimized by targeting/tailoring to different subgroups of PWH



Acknowledgements: This study was made possible by funding from ViiV Healthcare: NIA grant R33AG067069; NIAID grants R24 AI067039, P30 AI027757, P30 AI027767, P30 AI050410, P30 AI094189 NIAAA grants U01AA020793, U24AA020801, U01AA020802, P01AA029544-01; and NIDA grant R01DA047045, R01DA04411





Ind23@uw.edu

This content was acquired following an unsolicited medical information enquiry by a healthcare professional. Always consult the product information for your country, before prescribing a ViiV medicine. ViiV does not recommend the use of our medicines outside the terms of their licence. In some cases, the scientific Information requested and downloaded may relate to the use of our medicine(s) outside of their license.