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Study Design

Retaining Hispanics: Lessons From the Hispanic Community Health Study/ Study of Initially submitted July 1, 2019; accepted for publication 7

In 2016, the US Hispanic/Latino population reached 58 million—18% of the US population (1). Their participation in research is essential to ensure that US population health data accurately reflect their lives and experiences. The Hispanic Community Health Study/Study of Latinos (HCHS/SOL) is the most comprehensive study of Hispanic/Latino health in the United States carried out to date (2). HCHS/SOL provides a rare opportunity to understand what motivates Hispanic adults to participate in large prospective cohort studies and the strategies that can be used to successfully promote their retention.

Noting the relative lack of studies pertaining to the recruitment and retention of Hispanics/Latinos, authors of recent systematic reviews have highlighted several common barri-

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Table 2. B208 i h20808 iii. h208 ii208 k €	BB 1,11 (2008 BB € 1,18 (20	(2008–2011), 2 (2014–2015), 1 🗷			M	· 國國	1 (200	(2009–2016),	*
Characteristic	Fu	Full Sample (Visit 1) (= 16,243)	t 1)	Persi	Persistent Participants (= 10,706)	pants	PFO \$	PFQ Subsample (Visit 2) (= 5,227)	isit 2)
	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI
· ·		52.2	51.1, 53.2		52.5	54.2, 56.7		53.8	51.9, 55.7
To the state of th	41.0		40.5.415	43.4		42.8.43.9	43.0		42.2.43.8

Characteristic	Full	Full Sample (Visit 1) (= 16,243)	it 1)	Persis	Persistent Participants (= 10,706)	pants	PFC	PFO Subsample (Visit 2) (= 5,227)	lisit 2)
	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI
2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									
1 ■ 1		74.7	72.9, 76.5		79.2	77.4, 81.0		77.3	74.7, 79.6
× 1 · · · · ·		9.1	8.4, 9.8		9.0	8.2, 9.8		10.5	9.2, 12.0
		38.7	36.9, 40.5		46.7	44.6, 48.9		35.0	31.9, 38.2
		28.9	26.1, 32.0		26.9	23.3, 30.9		24.4	21.3, 27.7
r, Mar		15.8	14.0, 17.9		16.0	13.9, 18.2		16.5	14.2, 19.2
		29.5	25.2, 33.6		22.8	20.2, 25.6		32.6	28.1, 37.5
		26.0	22.8, 29.6		34.3	29.9, 39.0		26.5	22.8, 30.5
A (2%), 18 1 (2%), 18	M M M M M M M M M M M M M M M M M M M	1. 2 2 27 5.227 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27		16,243 M 1. M 1	3 3 3 3 3 3 3 3 3 3	- - - :	- 20 20 20 20 21 21 21 22	1 (9%),

Associations with persistence, motivation, and satisfaction

Persistent participation was associated with being older, female, foreign-born, and married/cohabitating (Table 5). Persons who had a high school diploma or GED, were employed for 36–45 hours/week, and had an income of at least \$25,0000/year were also among those most likely to participate across multiple AFUs. Finally, good MHF and participation in an ancillary study were associated with a higher likelihood of persistent participation. We found no associations between participation and Hispanic/Latino background, language of interview, PHF, or multiple venipuncture attempts. After adjustment for each of these demographic, health, and interview characteristics, participants in Miami were the most likely to persist in the study and participants from the Bronx were the least likely.

We identified few significant associations between high motivation or high satisfaction and our demographic, health, and interview characteristics. Older participants and females were significantly more likely to report both high motivation and high satisfaction than younger persons and males. Participants completing their interviews in Spanish reported higher motivation than those with English interviews. Additionally, foreign-born individuals with 10–20 years of residence in the United States were more likely to report high satisfaction than the US-born. After adjustment for demographic, health, and interview characteristics, participants

Table 4. 「國」,「國	5	-: -: -:					1.2,	, 	-: -: '	- ,	<u>⊠</u>	_	-: 3	, 2014–2015	-2015
							Ē	Field Center							
Characteristic	<u> </u>	Bronx, New York (= 1,051)	ork	ָ טֿ	Chicago, Illinois (= 1,372)	oois	2	Miami, Florida (= 1,385)	da)	San	San Diego, California (= 1,419)	omia		All Centers (= 5,227)	s
	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI
		74.6	70.3, 78.4		78.2	74.6, 81.3		89.7 · ·	87.0, 91.9		80.8	76.3, 84.7		81.8	79.8, 83.6
	68.9		68.3, 69.5	72.4		71.8, 73.0	67.0 · ·		66.4, 67.6	72.0 ,		71.2, 72.7	69.7		69.2, 70.1
	4.7		4.5, 5.0	5.1		4.9, 5.3	3.3		3.1, 3.5	5.8		5.4, 6.3	4.6		4.4, 4.8
.1 A p.4. 1–5 .1 🚳 1.1 🚳 1.1															
-		87.3 · ·	83.7, 90.2		. 2.96	94.9, 97.9		74.3 , ,	70.8, 77.6		97.2 ,	95.7, 98.2		87.3	85.4, 89.0
(((((((((((((((((((92.0	89.8, 93.8		97.1	95.6, 98.1		78.0 · ·	74.7, 81.0		94.3	92.5, 95.7		88.9	87.4, 90.2
		78.8	74.9, 82.3		94.0 · ·	92.1, 95.4		45.6 ' '	41.9, 49.3		86.0 ' '	82.5, 88.8		72.4	69.8, 74.8
- - - - - -		6.99	61.8, 71.6		90.3	87.1, 92.8		59.5	56.2, 62.7		75.4 · ·	71.3, 79.1		9.02	68.5, 72.7
۲ -		38.0	33.7, 42.4		48.8	44.8, 52.9		33.3	29.2, 37.5		49.1	44.1, 54.0		41.2	38.9, 43.5
國 · · · · 國		57.4	53.3, 61.3		52.1	48.1, 56.2		72.6 , ,	68.8, 76.0		59.3	55.6, 62.8		62.0	59.8, 64.1
1 1 1 1 1 1 1 1 1 1		50.0	45.7, 54.2		50.7	46.9, 54.5		22.8	19.7, 26.3		38.9	35.0, 43.0		38.3	36.1, 40.6
		25.1	21.5, 29.1		20.0	17.0, 23.3		4.1	3.1, 5.6		14.0	11.0, 17.7		14.5	12.9, 16.3
		23.9	20.1, 28.1		28.5	25.5, 31.8		12.2	9.6, 15.3		20.4	16.8, 24.6		19.9	18.1, 21.9
		15.9	12.9, 19.5		4.5	3.2, 6.3		1.6	0.9, 2.7		9.8	6.0, 12.2		7.4	6.3, 8.8
		17.8	14.1, 22.2		24.6	21.1, 28.4		11.8	9.2, 15.0		11.8	8.6, 16.0		15.4	13.6, 17.3
		4.1	2.6, 6.4		0.2	0.1, 0.9		0.0	0.3, 1.1		2.0	1.1, 3.6		1.7	1.2, 2.4
ÅL L - 1,514,514		2.0	1.0, 3.8		6.0	0.4, 2.2		0.7	0.4, 1.3		1.0	0.5, 2.1		1.2	0.8, 1.7
														Table c	Table continues

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								Field Center	ler						
Characteristic		Bronx, New York (= 1,051)	, York 51)	. ט	Chicago, Illinois (= 1,372)	nois 2)	2	Miami, Florida (=1,385)	ida 5)	San	San Diego, California (= 1,419)	lifornia 9)		All Centers (= 5,227)	rrs (7.
	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI	Mean	%	95% CI
ار <u>ه</u> ال		55.4	50.9, 59.8		20.6	47.0, 54.2		78.1 , ,	74.7, 81.1		67.0 , ,	67.0 · · · 62.5, 71.3		65.1	62.8, 67.3
國 <u>-</u> : - : - :		76.0	76.0 · · 72.2, 79.4		68.4 ' '	65.3, 71.4		85.3	81.9, 88.1		84.7	81.8, 87.3		80.1	78.4, 81.7
⊠ ✓ A 1.1.1.		45.9	41.4, 50.5		44.5	40.7, 48.2		71.6	67.7, 75.2		59.2	54.9, 63.4		9.79	55.2, 59.9
- Ya 4		, 4.09	55.6, 64.9		64.4	60.8, 67.8		84.5 ' '	81.2, 87.3		73.2 , ,	69.6, 76.6		72.3	70.1, 74.4
		56.9	52.5, 61.2		51.4	47.4, 55.3		73.1 · ·	73.1 · · · 69.4, 76.5		64.1	60.6, 67.5		63.2	61.0, 65.3
		68.3	63.6, 72.7		63.6	60.2, 67.0		85.8	82.7, 88.5		72.5 ,	68.9, 75.9		74.4	72.3, 76.3
		55.0	49.7, 60.1		52.4	48.4, 56.3		83.8	83.8 · · 80.4, 86.7		56.1	51.9, 60.2		64.3	61.7, 66.8
/ 23		61.3	56.3, 66.1		65.8	62.4, 69.0		79.2 · ·	79.2 · · 75.2, 82.7		69.4	65.6, 73.0		70.0	67.8, 72.2
	20.3														

Characteristic		Participation 15,930)		y Motivated 5,227)		ery Satisfied = 5,227)
	OR	95% CI	OR	95% CI	OR	95% CI
anti hanan jij						
1 . (1)	1.47	1.34, 1.62	1.23	1.00, 1.51	1.44	1.19, 1.7
A , 🛮 .	1.03	1.03, 1.04	1.01	1.00, 1.02	1.01	1.00, 1.02
(تورا بورا دورا دورا دورا دورا دورا دورا دورا د						
J J 🛍	1.01	0.78, 1.30	1.20	0.72, 2.01	1.17	0.72, 1.8
. Ma A . J Mai	0.90	0.70, 1.17	1.46	0.93, 2.29	1.72	1.10, 2.6
2	0.80	0.60, 1.07	1.48	0.87, 2.52	1.32	0.82, 2.1
,I 20	0.96	0.74, 1.25	1.74	1.09, 2.78	2.00	1.24, 3.2
r A ⊥⊠	0.93	0.71, 1.20	1.02	0.62, 1.68	0.89	0.58, 1.3
r	0.94	0.69, 1.30	1.71	0.95, 3.08	1.53	0.81, 2.8
20.1.1.20 20.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1						
J J ^h <10 M . J , /	1.40	1.12, 1.75	1.37	0.96, 1.94	1.17	0.79, 1.7
	1.32	1.07, 1.63	1.32	0.96, 1.83	1.56	1.07, 2.29
.llh >20 📵 .l	1.25	1.01, 1.54	1.22	0.86, 1.72	1.41	0.99, 2.0
uhih 🛍 🛍 i / u 🏻 🛍	1.24	1.11, 1.39	1.07	0.89, 1.28	1.08	0.89, 1.3
(, , , , h 🗃 h i h , h)						
🛭 🕷 ()						
<36 ^h , / k	0.98	0.85, 1.14	1.01	0.79, 1.29	0.89	0.69, 1.1
36-45 ^h / _k	1.16	1.00, 1.34	1.06	0.82, 1.36	0.97	0.76, 1.2
>45 ^h / k	0.97	0.81, 1.17	1.03	0.75, 1.42	0.87	0.63, 1.1
≥\$25,000/ 🛭 (<\$25,000/ 🔻)	1.29	1.14, 1.45	1.04	0.86, 1.24	0.98	0.79, 1.2
Mary ()	1.17	1.05, 1.32	1.11	0.92, 1.33	1.18	0.98, 1.4
h, (,, a h, ,)	1.21	1.03, 1.42	0.99	0.74, 1.32	0.94	0.72, 1.2
man haman jij						
	1.10	1.04, 1.17	0.94	0.85, 1.05	0.97	0.88, 1.0
h jahah , jij	0.99	0.94, 1.05	0.98	0.88, 1.08	1.02	0.93, 1.13
ji h⊠⊠ jij						
(طیر ۱۰۰۰) طی 🗷 ایا ۱۰۰۰	1.01	0.86, 1.18	0.69	0.51, 0.92	1.08	0.79, 1.4
0	0.22	0.11, 0.44	1.69	0.50, 5.69	4.77	1.43, 15.8
>1	0.92	0.77, 1.10	1.23	0.91, 1.65	0.94	0.69, 1.2
13 1 1 3 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.60	2.30, 2.94	1.16	0.97, 1.40	1.12	0.92, 1.36
B . , 'V _k	0.60	0.46, 0.79	0.69	0.44, 1.09	0.42	0.28, 0.6
hu⊠i, u û	1.00	0.82, 1.22	0.70	0.54, 0.91	0.46	0.35, 0.5
. 20 J. J. 20	1.53	1.12, 2.10	1.31	0.79, 2.16	1.16	0.74, 1.83

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