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Bleeding Disorder Data Registry Reveals Racial/Ethnic Disparities That Could Significantly Impact Patient Journey

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Abstract

Background: Community Voices in Research (CVR) is the National Hemophilia Foundation's community-powered registry designed to provide researchers with a firsthand, 360-degree view of what it means to live with an inherited bleeding disorder (IBD) by providing insight on a wide range of areas previously not evaluated or under-evaluated in this population. Since 2019, information has been collected from those with an IBD as well as their immediate family members/caregivers. Previous QOL data-collection efforts have been narrow in scope or duration and/or relied on HCPreported data. The self-reported, confidential, de-identified aggregate CVR data are used to improve clinical outcomes and quality of life for people with IBDs and identify research questions important to the community.

Methods: Participants complete an enrollment survey followed by the baseline then annual surveys. Additional surveys focused on specific areas of interest are issued periodically. Participants provide demographic data including race, ethnicity, level of education, household income, employment, and health-insurance status. External researchers of various collaborations may apply for access to the de-identified, aggregate data, launch individual surveys, or invite participants to virtual advisory panels. All research findings are communicated to its participants through a personalized CVR Sdashboard.



Islander and any combination of those who identify as white/Caucasian plus another race; 1.8% indicated that their race was unknown or that they preferred not to answer. Ethnicity was reported as Hispanic/Latino(a) (51%), not Hispanic/Latino(a) (46.6%), and unknown/prefer not to answer (2.4%).

Demographic data reveal significant disparities between white/Caucasian/non-Hispanic (WCNH) and other CVR participants in key social determinants of health, including education level, household income, employment, and health-insurance status. Tables 1-4 provide a detailed breakdown.

Education: The majority of WCNH participants (64.2%) reported having college/graduate/professional-level education, while among others, most (59.4%) reported having a trade/vocational school-level education.

Annual household income: The majority of WCNHs participants (57.5%) reported earnings between \$50K-\$149K. In contrast, the large majority (71.2%) of others reported earning \$35K-\$49K annually. For WCNHs participants, the midpoint of income range divided by number of people in the household was more than double that of other participants (\$31,249 vs. \$14,166).

Employment: Significant differences between the groups in employment were seen. WCNH participants were more likely to be employed full-time (58.6%), disabled (30%), retired (30%), homemaker (15.7%), or a student (11.4%). Other participants were more likely to be employed part-time (32.5%) or unemployed (51.3%), or able to work but were unemployed (75.2%).

Health insurance: A particularly stark disparity was noted in health-insurance type. Among WCNHs, 50.1% reported insurance through an employer or union, while only 15.8% of others fit this category. Among others, the majority (76.9%) reported enrollment in Medicaid or other public income-based insurance (vs. 13% of WCNHs).

Conclusions: The demographic disparities between WCNHs and other participants in the CVR are critical and emphasize the need to focus on correlations between known social determinants of health and self-reported health outcomes and quality-of-life information. It is well known that education level and type of insurance, for example, can have a significantly negative impact on factors such as access to treatments and healthcare and medication adherence.

CVR recruitment efforts must focus on enrolling racially and ethnically diverse participants to better understand their patient journey. This will enable the characterization of the links between racial/ethnic disparities and differences in access to care, quality of life, and related issues in the IBD community, and tailor education and advocacy efforts. As CVR data are extracted to answer a host of research questions, ensuring the inclusion of demographic disparities will benefit all members of the IBD community.

Figure 1



		Other* (n=511)	White/Caucasian, Non-Hispanic (n=261)		P	
Education level	n	column %	n	column %	0.0001	main effect
Primary School	0	0	1	0.38	3774211	50
Junior High/Middle School	2	0.39	2	0.77		
HS graduate	99	19.37	51	19.54		
Trade School/Vocational	304	59.49	21	8.05		
College/University	78	15.26	125	47.89		
Graduate/Professional	19	3.72	43	16.48		

1.76

18

Table 2: Household income

Post-graduate

	Other* (n=510)		white/Caucasian, non-Hispanic (n=261)		P	
Household Income	n	column %	n	column %		
Prefer not to answer	5	0.98	16	6.13		
					0.0001	main effec
<\$25,000	25	4.95	28	11.43		
\$25,000-\$34,999	34	6.73	22	8.98		
\$35,000-\$49,999	360	71.29	15	6.12		
\$50,000-\$74,999	56	11.09	42	17.14		
\$75,000-\$99,999	10	1.98	49	20.00		
\$100,000-\$149,999	11	2.18	50	20.41		
\$150,000-\$199,999	4	0.79	22	8.98		
\$200,000 or more	5	0.99	17	6.94		
Median household income rank	3 (\$35,000- \$49,999)		5 (\$75,000- \$99,999)			
Midpoint of income range divided by number in household	\$14,166.50		\$31,249.75			

^{*}Includes Black/African American; Asian; South Asian; Alaska Native; American Indian; Middle Eastern; and Native Hawaiian/Pacific Islander and any combination of those who identify as white/Caucasian plus another race

Table 3: Employment

	Other* (n=511)		white/Caucasian, non-Hispanic (n=261)		Р
Employment	n	column %	n	column %	< 0.001
Employed full time	83	16.24	153	58.62	<0.001
Employed part time	166	32.49	38	14.56	< 0.001
Not employed	262	51.27	70	26.82	< 0.001
not employed, disabled	39	14.89	21	30.00	0.004
not employed, homemaker	5	1.91	11	15.71	< 0.001
not employed, retired	10	3.82	21	30.00	< 0.001
not employed, student or child	7	2.67	8	11.43	0.002
not employed, able	197	75.19	3	4.29	<0.001
not employed, other	4	1.53	6	8.57	0.002

main effect (full time vs. part time vs. not employed Full time vs. part time employed vs. not employed main effect (reason for unemployment)

*Includes Black/African American; Asian; South Asian; Alaska Native; American Indian; Middle Eastern; and Native Hawaiian/Pacific Islander and any combination of those who identify as white/Caucasian plus another race

Table 4: Health-insurance status

Others	white/Caucasian,	
Other*	non-Hismanic	D



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^{*}Includes Black/African American; Asian; South Asian; Alaska Native; American Indian; Middle Eastern; and Native Hawaiian/Pacific Islander and any combination of those who identify as white/Caucasian plus

Medicaid or any kind of government-assistance special needs plan (CHIP, GHPP, CSHS)	393	76.91	34	13.03	<0.001
Medicare, for people 65 and older or people with certain disabilities	12	2.35	40	15.33	<0.001
Insurance through a current/former employer and/or union or family member	81	15.85	131	50.19	<0.001
Military (Tricare), Veterans Affairs (VA)	3	0.59	6	2.30	0.068
Insurance purchased through the Marketplace or from an insurance company	9	1.76	39	14.94	<0.001
Other	1	0.20	5	1.92	0.019
none	12	2.35	6	2.30	1.000

^{*}Includes Black/African American; Asian; South Asian; Alaska Native; American Indian; Middle Eastern; and Native Hawaiian/Pacific Islander and any combination of those who identify as white/Caucasian plus

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Disclosures

Witkop: Teralmmune, Inc.: Consultancy. Valentino: Spark: Ended employment in the past 24 months.

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