Understanding Social Drivers of Health, Burden, and Impact of Hidradenitis Suppurativa Among Different Racial and Ethnic Groups in the US

Tarannum Jaleel[1], Raj Chovatiya[2,3], Elizabeth D Bacci[4], Evangeline Pierce[5], Melissa L. Constantine[4], Julia R. Correll[4], Beth Mitchell[5], Dipak R Patel[5], Brindley Brooks[6], Candrice Heath[7], Vivian Y Shi[8]

Author affiliations:

[1]Duke Dermatology, Durham, North Carolina, USA

[2]Chicago Medical School, Rosalind Franklin University of Medicine and Science, North Chicago, Illinois, USA

[3]Center for Medical Dermatology + Immunology Research, Chicago, Illinois, USA

[4]PPD Evidera Patient-Centered Research, Thermo Fisher Scientific, Waltham, Massachusetts, USA

[5]Eli Lilly and Company, Indianapolis, Indiana, USA

[6]HS Connect, Puyallup, Washington, USA

[7]Dermatology Lewis Katz School of Medicine, Temple University, Philadelphia, Pennsylvania, USA

[8]University of Washington, Seattle, Washington, USA

Corresponding author:

Dr. Tarannum Jaleel

Department of Dermatology, Duke University School of Medicine

E-mail: tarannum.jaleel@duke.edu

Supplementary Table 1: Patient-reported outcome measures and other assessments

Survey item	Description, scoring, and interpretation
Fitzpatrick Skin Scale[19]	• Used to determine an individual's skin's response to ultraviolet light; recall period: current. • Single-item measure comprising six skin types (I through VI). Decreasing numbers are associated with increased burning, lighter skin tone, and an increased risk of skin cancer. • Participants were shown a description of six skin types and asked to choose the one that most closely matches their own.
Monk Skin Tone Scale[20]	• Visual presentation of 10 skin tones; designed to be inclusive and representative of darker skin tones. No associated scoring; recall period: current. • In the survey, participants were shown an image of each skin tone and were able to choose the one that most closely matches their own.
EQ-5D-5L[21]	• Non-disease-specific instrument for describing and evaluating health-related quality of life; recall period: 1 day • Includes five domains: mobility, self-care, usual activities, pain/discomfort, and anxiety/depression, each with five levels, each assigned a number from 1 to 5, respectively: no problems, slight problems, moderate problems, severe problems, and extreme problems.
EQ Visual Analogue Scale (VAS)[21]	• Non-disease-specific instrument for describing and valuing HRQoL; recall period: 1 day. • Vertical VAS, endpoints labelled "The best health you can imagine" (100) and "The worst health you can imagine" (0). • The EQ VAS is administered after the EQ-5D-5L… • The EQ-5D-5L and EQ VAS are self-completed and can be administered electronically.
Dermatology Life Quality Index (DLQI)[22]	• Patient-administered, 10-item, validated, quality of life questionnaire that covers six domains including symptoms and feelings, daily activities, leisure, work and school, personal relationships, and treatment; recall period: 1 week. • The questionnaire is structured with each of the 10 questions having four response options: not at all, a little, a lot, or very much, with corresponding scores of 0, 1, 2, and 3 respectively. • Score interpretations are as follows: 0–1 no effect at all on patient's life, 2–5 small effect on patient's life, 6–10 moderate effect on patient's life, 11–20 very large effect on patient's life, and 21–30 extremely large effect on patient's life. The DLQI can be completed rapidly, electronically, and without difficulty by patients over a wide range of age and intellectual ability, usually in one to three minutes. • DLQI scores range from 0 to 30; higher scores indicate worse quality of life.
Neurological Disorders (Neuro-QoL) Stigma Short Form30	• Patient-administered, 8-item, not validated in HS, which measures stigma as a domain of quality of life. • The questionnaire is structured with each item having five responses: never, rarely, sometimes, often, and always. • The recall period of this scale is "lately." • Each item was reported individually. Each item is scored from 1 to 5 and total scoring ranges from 8 to 40, with higher scores indicating increased stigma.

Survey item	Description, scoring, and interpretation
Patient-Reported Outcomes Measurement Information System (PROMIS)	• Patient-administered, 8-items, not validated in HS • response options for each question are: I am not at all confident, I am a little confident, I am somewhat confident, I am quite confident, and I am very confident. The recall period of the scale is "current." • Each item is reported individually. Each item is scored from 1 to 5 and total scoring ranges from 8 to 40, with higher scores indicating higher levels of confidence. The PROMIS Managing Social Interactions Short Form has not been validated for patients with AD, PsO, HS, or AA.
Patient Global Impression of Severity (PGI-S)[23]	• To assess patient's impression of their disease severity; one item; recall period: 1 month. • 5-point Likert scale with a higher value indicating more severe disease (0 = no symptoms, 2 = very mild, 3 = mild, 4 = moderate, 5 = severe).
Protocol for Responding to and Assessing Patients' Assets, Risks and Experiences (PRAPARE)[24]	• Social risk assessment/screening tool designed to assess social drivers of health; 17 core questions; recall period: current. • The core question domains are personal characteristics, family and home, money and resources, and social and emotional health. All response options are assigned a value of 0 or 1, with individual question scores totaling 0 to 7. Total scores range from 0 to 22, with 0 indicating the participant reported no social driver of health risks and 22 indicating the participant reported all measured risks.
Questions derived from the Research Program[25]	• Six questions derived from the from the All of Us research program healthcare access and utilization survey were included. These questions were originally developed for the National Health Interview Survey program. • The questions have verbal response options for frequency and level of importance. Each item is reported individually.

HRQoL = health-related quality of life

Supplementary Table 2: EQ-5D-5L index scores and Visual Analogue Scale scores

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
EQ-5D-5L index score[a]									
Mean (SD)[b]	0.6 (0.3)	0.6 (0.3)	0.6 (0.3)	0.6 (0.2)	0.6 (0.2)	0.1 (0.4)	0.6 (0.3)	0.6 (0.3)	0.6 (0.3)
Range (min - max)	-0.3 - 1.0	-0.3 - 1.0	-0.2 - 1.0	0.2 - 0.9	0.2 - 0.8	-0.2 - 0.4	-0.2 - 0.9	-0.3 - 1.0	-0.3 - 1.0
95% CI (lower - upper)	0.6 - 0.6	0.5 - 0.6	0.6 - 0.7	0.5 - 0.7	0.4 - 0.8	-3.8 - 3.9	0.5 - 0.7	0.6 - 0.6	0.5 - 0.7
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
EQ-5D-5L Health VAS (0-100, with 100=best health imaginable)									
EQ-5D-5L Health VAS responses (n [%])									
0 - 10	6 (1.0%)	3 (1.3%)	3 (1.1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	5 (1.0%)	1 (1.3%)
11 - 20	7 (1.2%)	3 (1.3%)	2 (0.7%)	0 (0%)	1 (14.3%)	0 (0%)	1 (2.1%)	5 (1.0%)	2 (2.6%)
21 - 30	21 (3.6%)	11 (4.7%)	7 (2.6%)	1 (5.6%)	2 (28.6%)	0 (0%)	0 (0%)	18 (3.6%)	3 (3.9%)
31 - 40	31 (5.3%)	13 (5.5%)	12 (4.4%)	1 (5.6%)	0 (0%)	1 (50.0%)	4 (8.5%)	30 (5.9%)	1 (1.3%)
41 - 50	85 (14.6%)	39 (16.5%)	39 (14.3%)	1 (5.6%)	1 (14.3%)	0 (0%)	5 (10.6%)	79 (15.6%)	6 (7.9%)
51 - 60	97 (16.6%)	31 (13.1%)	57 (20.9%)	3 (16.7%)	1 (14.3%)	0 (0%)	5 (10.6%)	86 (17.0%)	11 (14.5%)
61 - 70	99 (17.0%)	37 (15.7%)	43 (15.8%)	7 (38.9%)	1 (14.3%)	0 (0%)	11 (23.4%)	83 (16.4%)	16 (21.1%)
71 - 80	124 (21.3%)	58 (24.6%)	50 (18.3%)	3 (16.7%)	1 (14.3%)	1 (50.0%)	11 (23.4%)	106 (20.9%)	18 (23.7%)
81 - 90	84 (14.4%)	35 (14.8%)	40 (14.7%)	1 (5.6%)	0 (0%)	0 (0%)	8 (17.0%)	71 (14.0%)	13 (17.1%)
91 - 100	27 (4.6%)	4 (1.7%)	20 (7.3%)	1 (5.6%)	0 (0%)	0 (0%)	2 (4.3%)	22 (4.3%)	5 (6.6%)
Missing	2 (0.3%)	2 (0.8%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (0.4%)	0 (0%)
Mean (SD)[b]	64.3 (19.0)	63.0 (19.9)	65.3 (18.3)	65.2 (16.7)	46.0 (22.3)	58.5 (30.4)	67.3 (17.5)	63.7 (18.9)	68.2 (19.1)
Range (min - max)	0 - 100	0 - 95	4 - 100	30 - 100	20 - 77	37 - 80	12 - 94	0 - 100	6 - 100

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
95% CI (lower - upper)	62.7 - 65.8	60.5 - 65.6	63.2 - 67.5	56.9 - 73.5	25.4 - 66.6	-214.7 - 331.7	62.2 - 72.5	62.1 - 65.4	63.8 - 72.5

CI = confidence interval; ; max = maximum; min = minimum; SD = standard deviation; VAS = Visual Analogue Scale

Note: All results are descriptive; data for very small subgroups (Asian and Native Hawaiian or Other Pacific Islander) are reported for descriptive completeness only and are not intended for comparative interpretation.

[a] The EQ-5D-5L index score is calculated using the country-specific value set for the United States.

[b] Higher scores for the index score and the VAS indicate greater utility and quality of life.

Supplementary Table 3: EQ-5D-5L descriptive statistics of the five categorical items

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
EQ-5D-5L, Current health: mobility (n [%])									
No problems walking	299 (51.3%)	109 (46.2%)	156 (57.1%)	7 (38.9%)	2 (28.6%)	0 (0%)	25 (53.2%)	261 (51.5%)	38 (50.0%)
Slight problems walking	185 (31.7%)	79 (33.5%)	79 (28.9%)	7 (38.9%)	3 (42.9%)	1 (50.0%)	16 (34.0%)	159 (31.4%)	26 (34.2%)
Moderate problems walking	81 (13.9%)	38 (16.1%)	32 (11.7%)	4 (22.2%)	1 (14.3%)	0 (0%)	6 (12.8%)	73 (14.4%)	8 (10.5%)
Severe problems walking	17 (2.9%)	9 (3.8%)	6 (2.2%)	0 (0%)	1 (14.3%)	1 (50.0%)	0 (0%)	14 (2.8%)	3 (3.9%)
Unable to walk	1 (0.2%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (1.3%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
EQ-5D-5L, Current health: self-care (n [%])									
No problems washing/dressing	417 (71.5%)	155 (65.7%)	207 (75.8%)	14 (77.8%)	5 (71.4%)	0 (0%)	36 (76.6%)	361 (71.2%)	56 (73.7%)
Slight problems washing/dressing	107 (18.4%)	49 (20.8%)	47 (17.2%)	3 (16.7%)	2 (28.6%)	1 (50.0%)	5 (10.6%)	94 (18.5%)	13 (17.1%)
Moderate problems washing/dressing	50 (8.6%)	26 (11.0%)	17 (6.2%)	1 (5.6%)	0 (0%)	1 (50.0%)	5 (10.6%)	46 (9.1%)	4 (5.3%)
Severe problems washing/dressing	8 (1.4%)	5 (2.1%)	2 (0.7%)	0 (0%)	0 (0%)	0 (0%)	1 (2.1%)	6 (1.2%)	2 (2.6%)
Unable to wash/dress	1 (0.2%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (1.3%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
EQ-5D-5L, Current health: usual activities (n [%])									
No problems doing usual activities	220 (37.7%)	81 (34.3%)	119 (43.6%)	3 (16.7%)	2 (28.6%)	0 (0%)	15 (31.9%)	193 (38.1%)	27 (35.5%)

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
Slight problems doing usual activities	202 (34.6%)	85 (36.0%)	85 (31.1%)	12 (66.7%)	2 (28.6%)	1 (50.0%)	17 (36.2%)	170 (33.5%)	32 (42.1%)
Moderate problems doing usual activities	130 (22.3%)	59 (25.0%)	51 (18.7%)	3 (16.7%)	3 (42.9%)	0 (0%)	14 (29.8%)	116 (22.9%)	14 (18.4%)
Severe problems doing usual activities	24 (4.1%)	7 (3.0%)	15 (5.5%)	0 (0%)	0 (0%)	1 (50.0%)	1 (2.1%)	22 (4.3%)	2 (2.6%)
Unable to do usual activities	7 (1.2%)	4 (1.7%)	3 (1.1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6 (1.2%)	1 (1.3%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
EQ-5D-5L, Current health: pain/discomfort (n [%])									
No pain/discomfort	52 (8.9%)	14 (5.9%)	37 (13.6%)	0 (0%)	0 (0%)	0 (0%)	1 (2.1%)	48 (9.5%)	4 (5.3%)
Slight pain/discomfort	185 (31.7%)	79 (33.5%)	80 (29.3%)	4 (22.2%)	3 (42.9%)	1 (50.0%)	18 (38.3%)	152 (30.0%)	33 (43.4%)
Moderate pain/discomfort	209 (35.8%)	93 (39.4%)	88 (32.2%)	10 (55.6%)	3 (42.9%)	0 (0%)	15 (31.9%)	183 (36.1%)	26 (34.2%)
Severe pain/discomfort	104 (17.8%)	39 (16.5%)	48 (17.6%)	3 (16.7%)	1 (14.3%)	1 (50.0%)	12 (25.5%)	94 (18.5%)	10 (13.2%)
Extreme pain/discomfort	33 (5.7%)	11 (4.7%)	20 (7.3%)	1 (5.6%)	0 (0%)	0 (0%)	1 (2.1%)	30 (5.9%)	3 (3.9%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
EQ-5D-5L, Current health: anxiety/depression (n [%])									
Not anxious/depressed	73 (12.5%)	24 (10.2%)	48 (17.6%)	1 (5.6%)	0 (0%)	0 (0%)	0 (0%)	67 (13.2%)	6 (7.9%)
Slightly anxious/depressed	180 (30.9%)	57 (24.2%)	98 (35.9%)	6 (33.3%)	3 (42.9%)	0 (0%)	16 (34.0%)	157 (31.0%)	23 (30.3%)
Moderately anxious/depressed	216 (37.0%)	100 (42.4%)	85 (31.1%)	5 (27.8%)	3 (42.9%)	0 (0%)	23 (48.9%)	184 (36.3%)	32 (42.1%)
Severely anxious/depressed	86 (14.8%)	40 (16.9%)	33 (12.1%)	5 (27.8%)	0 (0%)	0 (0%)	8 (17.0%)	75 (14.8%)	11 (14.5%)
Extremely anxious/depressed	28 (4.8%)	15 (6.4%)	9 (3.3%)	1 (5.6%)	1 (14.3%)	2 (100.0%)	0 (0%)	24 (4.7%)	4 (5.3%)

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Note: All results are descriptive; data for very small subgroups (Asian and Native Hawaiian or Other Pacific Islander) are reported for descriptive completeness only and are not intended for comparative interpretation.

Supplementary Table 4: Descriptive statistics for individual DLQI questions

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
Itchy, sore, painful, or stinging skin (n [%])									
Very much	276 (47.3%)	107 (45.3%)	132 (48.4%)	11 (61.1%)	2 (28.6%)	0 (0%)	24 (51.1%)	239 (47.1%)	37 (48.7%)
A lot	187 (32.1%)	84 (35.6%)	82 (30.0%)	4 (22.2%)	4 (57.1%)	1 (50.0%)	12 (25.5%)	165 (32.5%)	22 (28.9%)
A little	113 (19.4%)	44 (18.6%)	55 (20.1%)	2 (11.1%)	1 (14.3%)	1 (50.0%)	10 (21.3%)	97 (19.1%)	16 (21.1%)
Not at all	7 (1.2%)	1 (0.4%)	4 (1.5%)	1 (5.6%)	0 (0%)	0 (0%)	1 (2.1%)	6 (1.2%)	1 (1.3%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Embarrassed or self-conscious because of skin (n [%])									
Very much	427 (73.2%)	180 (76.3%)	195 (71.4%)	13 (72.2%)	5 (71.4%)	1 (50.0%)	33 (70.2%)	370 (73.0%)	57 (75.0%)
A lot	89 (15.3%)	34 (14.4%)	42 (15.4%)	5 (27.8%)	1 (14.3%)	0 (0%)	7 (14.9%)	77 (15.2%)	12 (15.8%)
A little	55 (9.4%)	19 (8.1%)	28 (10.3%)	0 (0%)	1 (14.3%)	1 (50.0%)	6 (12.8%)	49 (9.7%)	6 (7.9%)
Not at all	11 (1.9%)	3 (1.3%)	7 (2.6%)	0 (0%)	0 (0%)	0 (0%)	1 (2.1%)	10 (2.0%)	1 (1.3%)
Missing	1 (0.2%)	0 (0%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)	0 (0%)
Skin interfered with shopping, looking after home/garden (n [%])									
Very much	150 (25.7%)	54 (22.9%)	74 (27.1%)	3 (16.7%)	3 (42.9%)	1 (50.0%)	15 (31.9%)	133 (26.2%)	17 (22.4%)
A lot	113 (19.4%)	44 (18.6%)	52 (19.0%)	4 (22.2%)	0 (0%)	0 (0%)	13 (27.7%)	100 (19.7%)	13 (17.1%)
A little	193 (33.1%)	92 (39.0%)	78 (28.6%)	9 (50.0%)	3 (42.9%)	1 (50.0%)	10 (21.3%)	161 (31.8%)	32 (42.1%)
Not at all	93 (16.0%)	38 (16.1%)	48 (17.6%)	1 (5.6%)	0 (0%)	0 (0%)	6 (12.8%)	83 (16.4%)	10 (13.2%)
Not relevant	33 (5.7%)	8 (3.4%)	21 (7.7%)	1 (5.6%)	1 (14.3%)	0 (0%)	2 (4.3%)	30 (5.9%)	3 (3.9%)
Missing	1 (0.2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (2.1%)	0 (0%)	1 (1.3%)
Skin influenced clothes you wear (n [%])									
Very much	364 (62.4%)	152 (64.4%)	166 (60.8%)	11 (61.1%)	5 (71.4%)	1 (50.0%)	29 (61.7%)	313 (61.7%)	51 (67.1%)
A lot	126 (21.6%)	54 (22.9%)	55 (20.1%)	4 (22.2%)	1 (14.3%)	1 (50.0%)	11 (23.4%)	111 (21.9%)	15 (19.7%)
A little	66 (11.3%)	26 (11.0%)	34 (12.5%)	1 (5.6%)	0 (0%)	0 (0%)	5 (10.6%)	60 (11.8%)	6 (7.9%)

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
Not at all	24 (4.1%)	4 (1.7%)	16 (5.9%)	2 (11.1%)	0 (0%)	0 (0%)	2 (4.3%)	20 (3.9%)	4 (5.3%)
Not relevant	2 (0.3%)	0 (0%)	2 (0.7%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (0.4%)	0 (0%)
Missing	1 (0.2%)	0 (0%)	0 (0%)	0 (0%)	1 (14.3%)	0 (0%)	0 (0%)	1 (0.2%)	0 (0%)
Skin affected social or leisure activity (n [%])									
Very much	265 (45.5%)	98 (41.5%)	132 (48.4%)	7 (38.9%)	2 (28.6%)	1 (50.0%)	25 (53.2%)	222 (43.8%)	43 (56.6%)
A lot	132 (22.6%)	62 (26.3%)	53 (19.4%)	3 (16.7%)	3 (42.9%)	1 (50.0%)	10 (21.3%)	122 (24.1%)	10 (13.2%)
A little	129 (22.1%)	59 (25.0%)	54 (19.8%)	6 (33.3%)	2 (28.6%)	0 (0%)	8 (17.0%)	111 (21.9%)	18 (23.7%)
Not at all	48 (8.2%)	14 (5.9%)	29 (10.6%)	1 (5.6%)	0 (0%)	0 (0%)	4 (8.5%)	44 (8.7%)	4 (5.3%)
Not relevant	8 (1.4%)	3 (1.3%)	4 (1.5%)	1 (5.6%)	0 (0%)	0 (0%)	0 (0%)	7 (1.4%)	1 (1.3%)
Missing	1 (0.2%)	0 (0%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)	0 (0%)
Skin made it difficult to do any sport (n [%])									
Very much	291 (49.9%)	113 (47.9%)	137 (50.2%)	9 (50.0%)	4 (57.1%)	1 (50.0%)	27 (57.4%)	248 (48.9%)	43 (56.6%)
A lot	104 (17.8%)	50 (21.2%)	43 (15.8%)	3 (16.7%)	2 (28.6%)	0 (0%)	6 (12.8%)	93 (18.3%)	11 (14.5%)
A little	84 (14.4%)	29 (12.3%)	43 (15.8%)	4 (22.2%)	0 (0%)	1 (50.0%)	7 (14.9%)	70 (13.8%)	14 (18.4%)
Not at all	36 (6.2%)	8 (3.4%)	24 (8.8%)	0 (0%)	0 (0%)	0 (0%)	4 (8.5%)	33 (6.5%)	3 (3.9%)
Not relevant	67 (11.5%)	35 (14.8%)	26 (9.5%)	2 (11.1%)	1 (14.3%)	0 (0%)	3 (6.4%)	63 (12.4%)	4 (5.3%)
Missing	1 (0.2%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (1.3%)
Skin prevented you from working or studying (n [%])									
Yes	210 (36.0%)	79 (33.5%)	101 (37.0%)	6 (33.3%)	2 (28.6%)	2 (100.0%)	20 (42.6%)	182 (35.9%)	28 (36.8%)
No	307 (52.7%)	120 (50.8%)	149 (54.6%)	10 (55.6%)	5 (71.4%)	0 (0%)	23 (48.9%)	267 (52.7%)	40 (52.6%)
Not relevant	66 (11.3%)	37 (15.7%)	23 (8.4%)	2 (11.1%)	0 (0%)	0 (0%)	4 (8.5%)	58 (11.4%)	8 (10.5%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Skin has been a problem at work or studying (n, %)	**n=307**	**n=120**	**n=149**	**n=10**	**n=5**	**n=0**	**n=23**	**n=267**	**n=40**

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
A lot	32 (10.4%)	12 (10.0%)	16 (10.7%)	1 (10.0%)	0 (0%)		3 (13.0%)	28 (10.5%)	4 (10.0%)
A little	160 (52.1%)	64 (53.3%)	78 (52.3%)	4 (40.0%)	4 (80.0%)		10 (43.5%)	136 (50.9%)	24 (60.0%)
Not at all	114 (37.1%)	44 (36.7%)	55 (36.9%)	5 (50.0%)	0 (0%)		10 (43.5%)	102 (38.2%)	12 (30.0%)
Missing	1 (0.3%)	0 (0%)	0 (0%)	0 (0%)	1 (20.0%)		0 (0%)	1 (0.4%)	0 (0%)
Skin created problems with partner, close friends or relatives (n [%])									
Very much	155 (26.6%)	60 (25.4%)	77 (28.2%)	4 (22.2%)	0 (0%)	1 (50.0%)	13 (27.7%)	135 (26.6%)	20 (26.3%)
A lot	121 (20.8%)	43 (18.2%)	60 (22.0%)	5 (27.8%)	3 (42.9%)	0 (0%)	10 (21.3%)	105 (20.7%)	16 (21.1%)
A little	165 (28.3%)	78 (33.1%)	69 (25.3%)	4 (22.2%)	3 (42.9%)	1 (50.0%)	10 (21.3%)	140 (27.6%)	25 (32.9%)
Not at all	103 (17.7%)	41 (17.4%)	50 (18.3%)	3 (16.7%)	0 (0%)	0 (0%)	9 (19.1%)	92 (18.1%)	11 (14.5%)
Not relevant	39 (6.7%)	14 (5.9%)	17 (6.2%)	2 (11.1%)	1 (14.3%)	0 (0%)	5 (10.6%)	35 (6.9%)	4 (5.3%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Skin caused sexual difficulties (n [%])									
Very much	262 (44.9%)	106 (44.9%)	122 (44.7%)	8 (44.4%)	2 (28.6%)	1 (50.0%)	23 (48.9%)	225 (44.4%)	37 (48.7%)
A lot	125 (21.4%)	51 (21.6%)	60 (22.0%)	3 (16.7%)	3 (42.9%)	0 (0%)	8 (17.0%)	115 (22.7%)	10 (13.2%)
A little	123 (21.1%)	53 (22.5%)	55 (20.1%)	3 (16.7%)	2 (28.6%)	0 (0%)	10 (21.3%)	102 (20.1%)	21 (27.6%)
Not at all	44 (7.5%)	14 (5.9%)	23 (8.4%)	2 (11.1%)	0 (0%)	1 (50.0%)	4 (8.5%)	40 (7.9%)	4 (5.3%)
Not relevant	28 (4.8%)	12 (5.1%)	12 (4.4%)	2 (11.1%)	0 (0%)	0 (0%)	2 (4.3%)	24 (4.7%)	4 (5.3%)
Missing	1 (0.2%)	0 (0%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)	0 (0%)
Problem caused by skin treatment (n [%])									
Very much	162 (27.8%)	62 (26.3%)	80 (29.3%)	4 (22.2%)	2 (28.6%)	1 (50.0%)	13 (27.7%)	139 (27.4%)	23 (30.3%)
A lot	129 (22.1%)	52 (22.0%)	60 (22.0%)	4 (22.2%)	3 (42.9%)	0 (0%)	10 (21.3%)	112 (22.1%)	17 (22.4%)
A little	174 (29.8%)	79 (33.5%)	72 (26.4%)	7 (38.9%)	2 (28.6%)	1 (50.0%)	13 (27.7%)	151 (29.8%)	23 (30.3%)
Not at all	86 (14.8%)	26 (11.0%)	50 (18.3%)	1 (5.6%)	0 (0%)	0 (0%)	9 (19.1%)	76 (15.0%)	10 (13.2%)
Not relevant	31 (5.3%)	17 (7.2%)	10 (3.7%)	2 (11.1%)	0 (0%)	0 (0%)	2 (4.3%)	28 (5.5%)	3 (3.9%)

Item	Overall (N=583)	Race						Ethnicity	
		White (N=236)	Black or African American (N=273)	American Indian and Alaska Native (N=18)	Asian (N=7)	Native Hawaiian and other Pacific Islander (N=2)	Two or more races (N=47)	Not Hispanic nor Latino (N=507)	Hispanic or Latino (N=76)
Missing	1 (0.2%)	0 (0%)	1 (0.4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)	0 (0%)
***DLQI responses* (n [%])**									
No effect at all on patient's life (0-1)	3 (0.5%)	0 (0%)	3 (1.1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	3 (0.6%)	0 (0%)
Small effect on patient's life (2-5)	22 (3.8%)	5 (2.1%)	13 (4.8%)	0 (0%)	0 (0%)	0 (0%)	4 (8.5%)	19 (3.7%)	3 (3.9%)
Moderate effect on patient's life (6-10)	55 (9.4%)	18 (7.6%)	31 (11.4%)	0 (0%)	1 (14.3%)	0 (0%)	5 (10.6%)	53 (10.5%)	2 (2.6%)
Very large effect on patient's life (11-20))	222 (38.1%)	113 (47.9%)	81 (29.7%)	11 (61.1%)	2 (28.6%)	1 (50.0%)	14 (29.8%)	188 (37.1%)	34 (44.7%)
Extremely large effect on patient's life (21-30)	281 (48.2%)	100 (42.4%)	145 (53.1%)	7 (38.9%)	4 (57.1%)	1 (50.0%)	24 (51.1%)	244 (48.1%)	37 (48.7%)
Mean (SD)	19.3 (7.2)	19.3 (6.5)	19.3 (7.7)	18.9 (6.9)	19.7 (7.1)	21.0 (9.9)	19.9 (8.1)	19.2 (7.3)	19.9 (6.8)
Median	20.0	19.0	21.0	19.0	21.0	21.0	21.0	20.0	20.0
Range (min - max)	0 - 30	3 - 30	0 - 30	11 - 30	9 - 28	14 - 28	2 - 30	0 - 30	2 - 30
IQR (Q1- Q3)	14.0 - 25.0	15.0 - 25.0	13.0 - 26.0	12.0 - 25.0	12.0 - 27.0	14.0 - 28.0	15.0 - 27.0	14.0 - 25.0	15.5 - 25.5

DLQI = Dermatology Life Quality Index; IQR = interquartile range; max = maximum; min = minimum; SD = standard deviation

Note: All results are descriptive; data for very small subgroups (Asian and Native Hawaiian or Other Pacific Islander) are reported for descriptive completeness only and are not intended for comparative interpretation.