



Socio-demographic diversity of the impact of dermatological diseases: Results from the patient-initiated Global Research on the Impact of Dermatological Diseases (GRIDD) study

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BACKGROUND

Previous patient-reported outcome measures did not fully capture the impact of living with dermatological conditions.

Using a ground-breaking patient-led methodology, the GRIDD project developed the first fully validated dermatology impact measure applicable to all skin conditions:

PRiDD



VALID AND
RELIABLE



EXTENSIVELY
PUBLISHED



AVAILABLE IN
15+ LANGUAGES



ELECTRONIC & PAPER
FORMATS



REFLECTS TRUE BURDEN
OF ALL SKIN DISEASES



16 QUESTIONS IN LESS
THAN 2 MINUTES

AIMS

- To describe the worldwide impact of dermatological conditions
- To compare the burden of dermatological diseases across different socio-demographic groups



METHODS

Study design: global online cross-sectional survey, available in 17 different languages (Arabic, Bengali, Danish, German, English, Spanish, French, Hindi, Italian, Japanese, Dutch, Portuguese, Russian, Serbian, Swahili, Vietnamese and Chinese), conducted between June 2023 and January 2024.

Patients: adults (≥ 18 years) with a self-reported dermatological condition, recruited through the International Alliance of Dermatology Patient Organizations' membership network and via social media



3811 PATIENTS

76.6% female
age = 48.49 ± 5.74 years



90 COUNTRIES



114 DIAGNOSES

12.6% Lichen sclerosus
12.4% Psoriasis
8.2% Hidradenitis suppurativa
7.5% Atopic dermatitis

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Measures:

- Socio-demographic questionnaire
- Patient-Reported Impact of Dermatological Diseases (16 items, total score ranging 0-63)



RESULTS

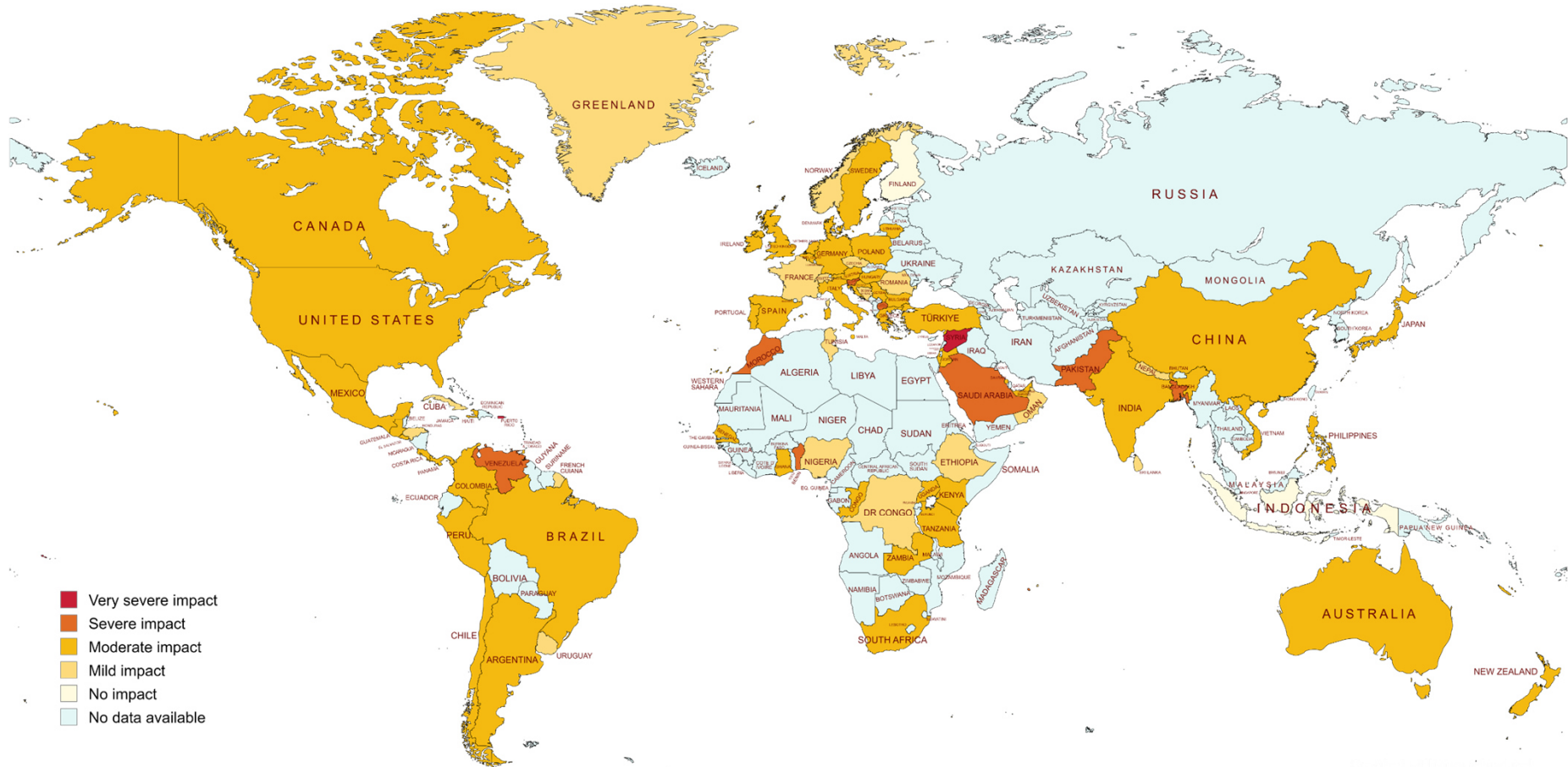


Figure 1 | The impact of living with a dermatological condition, as assessed with the PRIDD total score, across the 90 participating countries.



RESULTS

Table 1 | Comparison of PRIDD total scores across socio-demographic groups.

		<i>n</i>	<i>M</i>	<i>SD</i>	<i>F</i>	<i>p</i>	<i>Post-hoc comparisons with Bonferroni correction</i>
Sex	Female	2918	28.91	7.89	19.25	<0.001	-
	Male	886	27.52	9.30			
Age groups	Emerging adults (18-30 years)	576	29.33	8.05	39.15	<0.001	Emerging adults > Elderly Adults > Elderly
	Adults (31-64 years)	2549	29.09	8.13			
	Elderly (65+ years)	686	26.09	8.45			
WHO region of living	Eastern Mediterranean Region (EMR)	19	33.56	8.32	20.66	<0.001	EMR > EUR, SEAR AFR > AMR, WPR, EUR, SEAR AMR > EUR, SEAR WPR > SEAR EUR > SEAR
	African Region (AFR)	373	31.25	9.17			
	Region of the Americas (AMR)	1202	29.13	8.19			
	Western Pacific Region (WPR)	390	29.03	7.78			
	European Region (EUR)	1747	27.72	7.95			
	South-East Asian Region (SEAR)	80	23.58	8.72			
Country of living by income	High income	2897	28.24	8.13	9.42	<0.001	Low > High income
	Upper middle income	345	29.35	7.68			
	Lower middle income	351	29.27	8.80			
	Low income	213	30.96	9.33			

n – number of participants; M – Mean; SD – Standard-deviation; F - analysis of variance (ANOVA).



RESULTS

		<i>n</i>	<i>M</i>	<i>SD</i>	<i>F</i>	<i>p</i>	<i>Post-hoc comparisons with Bonferroni correction</i>
Ethnic origin, group or background	Oceania (OC)	15	35.13	10.78	10.94	<0.001	OC > EU, EA, SA BL > EU, EA, SA MIX > SA LAT > EU, EA, SA SEA > SA
	Black (BL)	412	31.09	9.09			
	Other/ Mixed ethnicity (MIX)	54	30.54	8.45			
	Latino (LAT)	283	30.19	8.45			
	South-East Asian (SEA)	121	29.57	6.44			
	Middle Eastern (ME)	38	28.27	10.56			
	White/ European descent (EU)	2527	28.10	7.88			
	East Asian (EA)	198	27.62	8.50			
South Asian (SA)	110	25.98	9.21				
Fitzpatrick skin type	I: skin always burns, never tans, and is sensitive to UV exposure	212	29.88	8.22	7.71	<0.001	I > III, IV V > III, IV VI > II, III, IV
	II: skin burns easily and tans minimally	736	28.65	8.27			
	III: skin burns moderately and tans gradually to light brown	1644	28.07	8.06			
	IV: skin burns minimally and always tans well to moderately brown	714	28.00	8.00			
	V: skin rarely burns and tans profusely to dark	354	29.92	9.13			
	VI: skin never burns, is deeply pigmented, and is least sensitive to UV exposure	44	33.18	7.36			

n – number of participants; *M* – Mean; *SD* – Standard-deviation; *F* - analysis of variance (ANOVA).



CONCLUSION

This is the first real-world study using the PRIDD questionnaire to collect global patient-reported data. The identification of socio-demographic groups at greater risk of suffering high disease burden paves the way for detecting specific patient needs, developing health policies, and determining resource allocation and research priorities on a global scale.



NEXT STEPS

Comprehensive impact analyses, including the examination of relationships between PRIDD and other relevant variables (clinical variables, other PROs)

Psychometric testing of PRIDD language translations

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