Global Trends in Scar Prevalence: A Comprehensive Analysis of Regional, Gender, and Age-Related Differences (Results of the ALL project)



Fabienne Carballido¹, Charbel Skayem², Catherine Baissac³, Yaron BenHayoun⁴, Marketa Saint Aroman³, Charles Taieb⁵, Jean Michel Amici⁶

¹ADERMA, Global Medical Director, Lavaur, France, ²APHP - Hôpital Ambroise Paré, Department of Dermatology, Boulogne Billancourt, France, ³Pierre Fabre, Patient Centricity, Toulouse, France, ⁴European Market Maintenance Assessment, Data Scientist, Tel Aviv, Israel, ⁵European Market Maintenance Assessment, Patients Priority, Paris, France, ⁶Hôpital Saint-André, CHU de Bordeaux, Department of Dermatology, Bordeaux, France



RATIONAL

As a component of the "ALL project", our team opted to examine the prevalence of face and body scars within various regional demographics, with a specific emphasis on Europe.

OBJECTIVES

Our goal was to pinpoint overarching patterns in scarring prevalence, as well as disparities related to gender and age, and the distribution of scars across the body.

METHODOLOGY

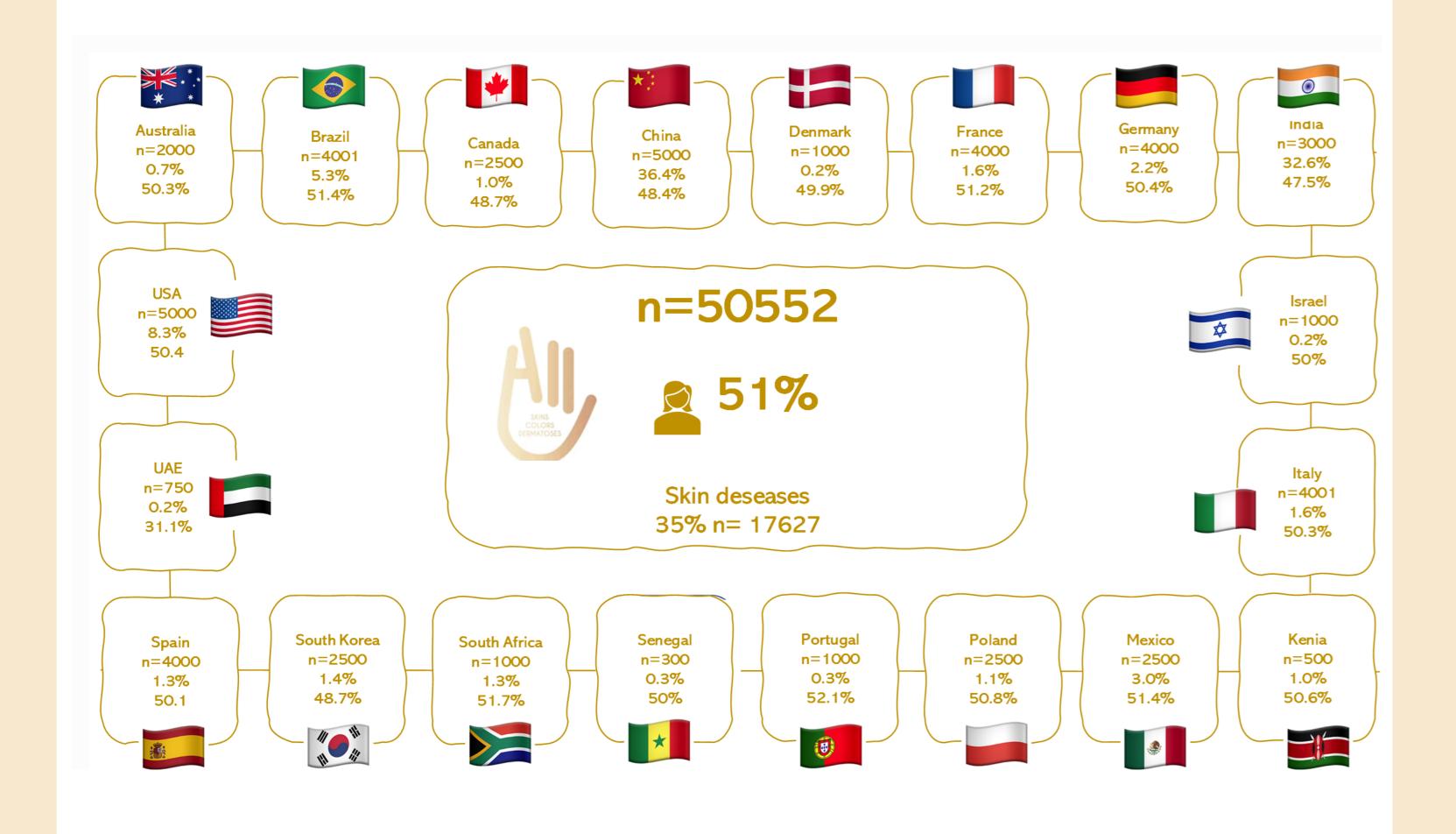
The ALL PROJECT is a large-scale study of individuals representative of the adult population in 20 countries on five continents:

Europe [France, Italy, Germany, Poland, Portugal, Spain, Denmark; n=17500], Latin America[LA] [Brazil, Mexico; n=6501], Asia [China, India, South Korea; n=10500], North America [NA] [Canada, USA; n=7500); Middle East [ME] [Israel, United Arab Emirates; n=2750], Australia [Australia; n=2000] and Africa [Kenya, South Africa, Senegal; n=1800].

In each of the 20 countries surveyed, representative and extrapolable samples of the general population aged 16 and over were interviewed.

Individuals reporting one or more scars were identified.

The results were compared using Chi-square or Fisher's exact test. The alpha risk was set at 5% and two-tailed tests were used. Statistical analysis was performed using EasyMedStat (version 3.34; www.easymedstat.com).



RESULTS

The overall prevalence of scarring is 62.1%, with marked regional differences. In Europe, the prevalence of scarring is 60.3%, slightly lower than the global average. When differentiating between the sexes in Europe, 62.8% (n=6 514) of women versus 57,6%% (n=5838) of men reported having one or more scars (p<0.001).

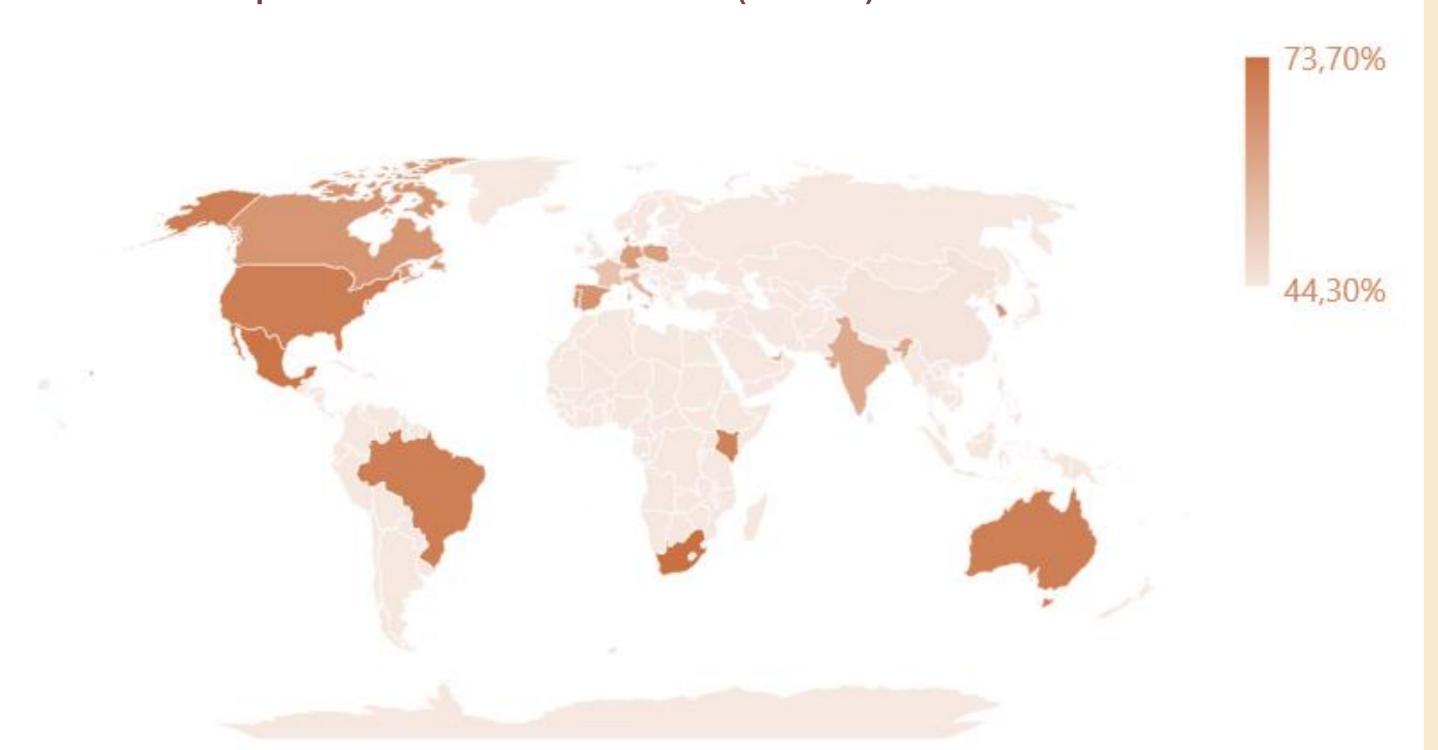
No statistically significant difference was observed between age groups (p>0.05), suggesting an even distribution of scars across age groups. One in four respondents [24.8%, n=12214] reported one or more facial scars [Europe 23.7%, North America: 21.4% (<0.0001) Asia 18.4% (<0.0001)].

Of these, corrective make-up is used by 31.1% of Europeans, which is not significantly different from North America (31.2%), but significantly different from Asia, where more than half of respondents reported using corrective make-up (60.7%) p<0.0001.

In terms of location, it is important to note that the location of scars in the genital area, which is rarely studied, is by no means negligible:

5.8% (n=1463) in men, 14.3% (n=3598) in women (p<0.0001).In women, there was a significant difference between European (14.9%) and North American (19.3%) women and between European and Asian women (8.8%).

Among men, there was also a significant difference between European men (6.2%) and North American men (7.1%) and between European and Asian men (4.7%).



	Facial scars		Use of corrective make-up		
	N with scars	%	N with scars	%	
Africa	436	35,8%	188	43,1%	
Asia	1935	34,4%	1174	60,7 %	
Australia	590	41,9%	166	28,1%	
Europe	4858	39,3%	1513	31,1%	
Latin America	1808	39,0%	965	53,4%	
Middle East	377	37,0%	169	44,8%	
North America	2210	43,0%	689	31,2%	

	N with scars	%	N with scars	%	N with scars	%
Africa	1743	69,6%	1587	64,2%	1812	71,8%
Asia	1792	17,1 %	2265	53,5 %	1599	53,3%
Australia	1639	25,2%	2084	70,0%	914	73,4%
Europe	4838	23,6%	4438	61,1%	3076	60,0%
Latin America	573	28,7%	556	68,0 %	279	74,8 %
Middle East	343	19,1%	639	68,9%	236	61,6%
North America	277	15,8%	509	58,6%	233	63,1%

Location	N	%
Face	12214	38,90%
Hands	7472	23,80%
Upper limbs	9433	30,00%
Lower limbs	19606	62,40%
Intimate areas Men	1463	9,60%
Intimate areas Women	3598	22,30%
Men's body	7348	48,20%
Body Women	8197	50,70%

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DISCUSSION

This research underscores the significance of scars across diverse populations and underscores distinctions among genders and cultures.

The widespread occurrence of facial and genital scars prompts inquiries into their psychosocial implications and the necessity for tailored care methods.

Variances in corrective makeup usage between Asia and Europe reveal cultural disparities in scar perception and management.

These results advocate for heightened awareness and individualized care strategies that acknowledge the varied experiences of individuals with scars.