

Supplementary Table S1. Detailed patient characteristics and their confirmed mutations.

ID	Age [years]	Sex	Genodermatosis type	Genotype	Scales on exposed parts of the body	Fraction of the body surface covered by lesions	The whole body is covered with scales	The dominant color of the scales	Skin itching	Redness	Exfoliation	Infiltration	Pain (VAS)	Increased sweating	Sleep disorders	Ectropion	Closing the eyelids	Feeling of ear plugging	Hearing loss	Performance status (Karnofsky scale)
1	34	M	ARCI	ALOX12B*	+	0,8	+	Beige	5	8	7	+	0	Absolutely no sweating	-	-	+	+	+	90
2	32	M	EEC	TP63*	-	0,02	-	White	2	2	2	+	0	N	-	-	-	-	-	90
3	41	M	EV like	ND	+	0,8	+	Brown	8	8	10	-	0	+	+	+	-	+	-	50
4	16	M	EI	KRT10*	+	0,98	+	White	1	6	2	+	2	-	-	-	+	+	-	100
5	59	F	EI	ND	-	1	-	Multicolored	8	7	10	-	2	Absolutely no sweating	+	-	+	+	-	100
6	47	M	IWC	KRT10*	+	0,9	+	White	9	10	9	+	8	-	+	+	-	+	+	25
7	24	F	LI	TGM1*	+	1	+	Multicolored	3	4	10	+	0	Absolutely no sweating	-	+	-	+	-	80
8	57	M	LI	ND	+	1	+	Multicolored	3	6	8	+	8	-	+	+	-	+	-	35
9	42	F	LI	ND	+	1	+	Multicolored	10	9	10	-	8	-	+	+	-	+	+	30
10	26	F	LI	TGM1*	+	1	+	Multicolored	7	4	7	-	4	+	-	+	-	-	+	85
11	59	F	LI	ND	+	1	+	Multicolored	5	1	5	-	1	-	-	+	-	+	-	40
12	35	F	LI	ND	-	0,8	-	Transparent	4	6	9	-	1	+	-	-	+	-	-	100
13	18	F	LI	TGM1*	-	0,04	-	Brown	8	10	10	+	0	-	-	+	+	-	-	90
14	43	F	LI	ND	+	1	+	Multicolored	9	6	10	+	8	+	+	-	+	+	-	95
15	34	F	LI	ND	+	0,9	-	Multicolored	4	5	8	-	1	+	-	-	-	-	-	95
16	31	M	KP	ND	-	0,04	-	Yellow	5	5	4	+	8	N	-	-	-	-	-	70
17	18	M	KP	KRT1*	-	0,06	-	Beige	4	3	3	+	5	+	-	-	-	-	-	90
18	26	M	KP	JUP*	-	0,1	-	Yellow	3	6	7	-	7	-	-	-	+	-	-	50
19	43	F	KP	KRT1*	-	0,06	-	Yellow	4	5	3	+	2	N	+	-	-	-	-	80
20	48	F	KP	KRT9*	-	0,04	-	Yellow	3	2	1	+	4	N	-	-	-	-	-	60
21	36	F	IV	ND	-	0,6	-	Beige	8	3	8	-	1	N	-	-	+	+	-	80
22	47	F	IV	ND	+	1	-	Beige	4	3	3	-	7	+	-	-	+	-	-	100

23	25	F	IV	ND	-	0,2	-	Multicolored	2	5	6	-	1	-	-	-	+	-	-	100
24	44	F	IV	ND	-	0,5	-	Brown	2	1	4	-	1	-	+	-	+	-	-	100
25	51	F	IV	FLG*	-	0,9	+	Beige	6	4	10	+	0	N	-	-	+	-	-	100
26	62	F	IV	ND	+	1	-	Multicolored	5	4	5	-	3	+	+	-	+	-	+	70
27	34	F	IV	ND	+	0,98	+	Brown	6	1	7	-	2	N	-	-	+	-	-	100
28	24	F	IV	ND	-	1	-	Brown	7	8	5	-	3	-	+	-	+	+	-	95
29	79	F	IV	ND	+	0,01	+	White	3	4	8	-	2	+	-	-	+	+	+	50
30	36	F	IV	ND	+	1	+	Beige	3	6	4	-	0	+	-	-	+	-	-	100

ND no data

ARCI Autosomal recessive congenital ichthyosis

EEC Ectrodactyly ectodermal dysplasia

EI Erythrodermic ichthyosis,

EV Epidermodysplasia verruciformis

I Ichthyosis

LI Lamellar Ichthyosis

IWC Ichthyosis with confetti

KP Non-epidermolytic palmoplantar keratoderma

IV Ichthyosis vulgaris

F Female

M Male

Supplementary Table S2. The relationship between demographic, social, educational, and clinical factors and quality of life assessed with the Dermatology Life Quality Index.

Patient characteristics	Values	Quality of life		<i>p</i>
		Severely or very severely reduced [n=13]	Normal, slightly or moderately reduced [n=17]	
Sex	Men	9 (42.9%)	12 (57.1%)	0.7478
	Women	4 (44.4%)	5 (55.6%)	
Age [years]	Median [IQR] (Min-Max)	42 [32.7-47]	34 [25.7-48.7]	0.4893
Place of residence	City	8 (44.4%)	10 (55.6%)	0.8215
	Village	5 (41.7%)	7 (58.3%)	
Education	Primary, Vocational, Secondary	8 (53.3%)	7 (46.7%)	0.4612
	Higher	5 (33.3%)	10 (66.7%)	
Scales on exposed parts of the body	No	5 (35.7%)	9 (64.3%)	0.6756
	Yes	8 (50%)	8 (50%)	
% of the body surface covered by lesions	Median [IQR] (Min-Max)	100% [62.5%-100%]	80% [5.5%-98.5%]	0.1439
The whole body is covered in scales	No	7 (43.7%)	9 (56.2%)	0.7489
	Yes	6 (42.9%)	8 (57.1%)	
Color of scales	Beige, yellow or brown	9 (40.9%)	13 (59.1%)	0.9778

	White	4 (50%)	4 (50%)	
Skin itching	Median [IQR] (Min-Max)	5 [3.7-8.2]	4 [2.7-6]	0.1085
Redness	Median [IQR] (Min-Max)	6 [5.7-8.2]	4 [2-5]	0.0019*
Exfoliation	Median [IQR] (Min-Max)	8 [4.7-10]	7 [3.7-8]	0.2626
Infiltration	No	8 (47.1%)	9 (52.9%)	0.9210
	Yes	5 (38.5%)	8 (61.5%)	
Pain (VAS)	Median [IQR] (Min-Max)	3 [0.7-8]	1 [0.7-2.5]	0.1159
Increased sweating	No	7 (35%)	13 (65%)	0.3619
	Yes	6 (60%)	4 (40%)	
Ectropion	No	8 (36.4%)	14 (63.6%)	0.3893
	Yes	5 (62.5%)	3 (37.5%)	
Sleep disorders	No	5 (25%)	15 (75%)	0.0133*
	Yes	8 (80%)	2 (20%)	
Inability to fully close the eyelids	No	8 (47.1%)	9 (52.9%)	0.9210
	Yes	5 (38.5%)	8 (61.5%)	
Feeling of ear plugging	No	7 (41.2%)	10 (58.8%)	0.9210
	Yes	6 (46.2%)	7 (53.8%)	
Hearing loss	No	10 (41.7%)	14 (58.3%)	0.9266
	Yes	3 (50%)	3 (50%)	
Performance status (Karnofsky scale)	Median [IQR] (Min-Max)	80 [46.2-96.2]	90 [77.5-100]	0.2421

* - statistically significant result

Supplementary Table S3. The relationship between personality inventory assessed using the NEO-FFI questionnaire and quality of life assessed using the Dermatology Life Quality Index.

Personality Inventory	Level	Quality of life		<i>p</i>
		Severely or very severely reduced [n=13]	Normal, slightly or moderately reduced [n=17]	
Openness to experience	Low	0 (0%)	2 (100%)	0.2445
	Moderate	5 (62.5%)	3 (37.5%)	
	High	8 (40%)	12 (60%)	
Neuroticism	Low	0 (0%)	1 (100%)	0.2214
	Moderate	3 (27.3%)	8 (72.7%)	
	High	10 (55.6%)	8 (44.4%)	
Agreeableness	Low	1 (100%)	0 (0%)	0.0400*
	Moderate	6 (75%)	2 (25%)	
	High	6 (28.6%)	15 (71.4%)	
Extroversion	Moderate	4 (44.4%)	5 (55.6%)	0.7478
	High	9 (42.9%)	12 (57.1%)	
Scrupulousness	Low	6 (66.7%)	3 (33.3%)	0.1983
	Moderate	7 (33.3%)	14 (66.7%)	
	High			

* - statistically significant result

Supplementary Table S4. The relationship between demographic, social, educational, and clinical factors with the occurrence of depression (according to Beck's scale).

Patient characteristics	Values	Depression		<i>p</i>
		No [n=17]	Yes [n=13]	
Sex	Men	11 (52.4%)	10 (47.6%)	0.7478
	Women	6 (66.7%)	3 (33.3%)	
Age [years]	Median [IQR] (Min-Max)	34 [24.7-48]	42 [33.2-47.2]	0.3352
Place of residence	City	10 (55.6%)	8 (44.4%)	0.8215
	Village	7 (58.3%)	5 (41.7%)	
Education	Primary, Vocational, Secondary	8 (53.3%)	7 (46.7%)	1.0000
	Higher	9 (60%)	6 (40%)	
Scales on exposed parts of the body	No	8 (57.1%)	6 (42.9%)	0.7489
	Yes	9 (56.2%)	7 (43.7%)	
% of the body surface covered in lesions	Median [IQR] (Min-Max)	90% [17.5%-100%]	80% [4%-100%]	0.4391
The whole body is covered in scales	No	10 (62.5%)	6 (37.5%)	0.7489
	Yes	7 (50%)	7 (50%)	
Color of scales	Beige, yellow or brown	13 (59.1%)	9 (40.9%)	0.9778
	White	4 (50%)	4 (50%)	

Skin itching	Median [IQR] (Min-Max)	4 [3-5]	7 [3.7-8.2]	0.0238*
Redness	Median [IQR] (Min-Max)	5 [3-6]	6 [3.5-8.2]	0.3421
Exfoliation	Median [IQR] (Min-Max)	5 [3-8]	9 [6.2-10]	0.0518
Infiltrations	No	9 (52.9%)	8 (47.1%)	0.9210
	Yes	8 (61.5%)	5 (38.5%)	
Pain (VAS)	Median [IQR] (Min-Max)	1 [0-3.5]	2 [1-8]	0.1950
Increased sweating	No	12 (60%)	8 (40%)	0.8964
	Yes	5 (50%)	5 (50%)	
Ectropion	No	14 (63.6%)	8 (36.4%)	0.3893
	Yes	3 (37.5%)	5 (62.5%)	
Sleep disorders	No	13 (65%)	7 (35%)	0.3619
	Yes	4 (40%)	6 (60%)	
Inability to fully close the eyelids	No	10 (58.8%)	7 (41.2%)	0.9210
	Yes	7 (53.8%)	6 (46.2%)	
Feeling of ear plugging	No	10 (58.8%)	7 (41.2%)	0.9210
	Yes	7 (53.8%)	6 (46.2%)	
Hearing loss	No	15 (62.5%)	9 (37.5%)	0.4071
	Yes	2 (33.3%)	4 (66.7%)	
Performance status (Karnofsky scale)	Median [IQR] (Min-Max)	90 [77.5-100]	85 [50-100]	0.5374

* - statistically significant result

Supplementary Table S5. The relationship between personality inventory assessed using the NEO-FFI questionnaire and the occurrence of depression assessed using Beck`s scale in the study group.

Personality Inventory	Level	Depression		<i>p</i>
		No [n=17]	Yes [n=13]	
Openness to experience	Low	1 (50%)	1 (50%)	0.8731
	Moderate	4 (50%)	4 (50%)	
	High	12 (60%)	8 (40%)	
Neuroticism	Low	1 (100%)	0 (0%)	0.0067*
	Moderate	10 (90.9%)	1 (9.1%)	
	High	6 (33.3%)	12 (66.7%)	
Agreeableness	Low	0 (0%)	1 (100%)	0.0400*
	Moderate	2 (25%)	6 (75%)	
	High	15 (71.4%)	6 (28.6%)	
Extroversion	Moderate	3 (33.3%)	6 (66.7%)	0.1983
	High	14 (66.7%)	7 (33.3%)	
Scrupulousness	Low	3 (33.3%)	6 (66.7%)	0.1983
	Moderate	14 (66.7%)	7 (33.3%)	
	High			

* - statistically significant result