

Supplementary Material

A population-based study of the *stratum corneum* moisture

Table S1. Age summary measures according by sex

	n	%	Mean	Std. Dev.	C.V.	Median	Min.	Max.	Range
Feminine	847	63.256%	46.773	15.594	0.333	48	19	85	66
Masculine	492	36.744%	48.539	17.251	0.355	49	18	92	74
	1339	100%	47.422	16.238	0.342	48	18	92	74

Table S2. Ethnicity summary measures according by sex

	Feminine	Masculine	TOTAL
White	555	338	893 (66.7%)
Mixed	140	81	221 (16.5%)
Black	40	17	57 (4.3%)

Fig S1. Corneometer measurement boxplots according to body site and sex.

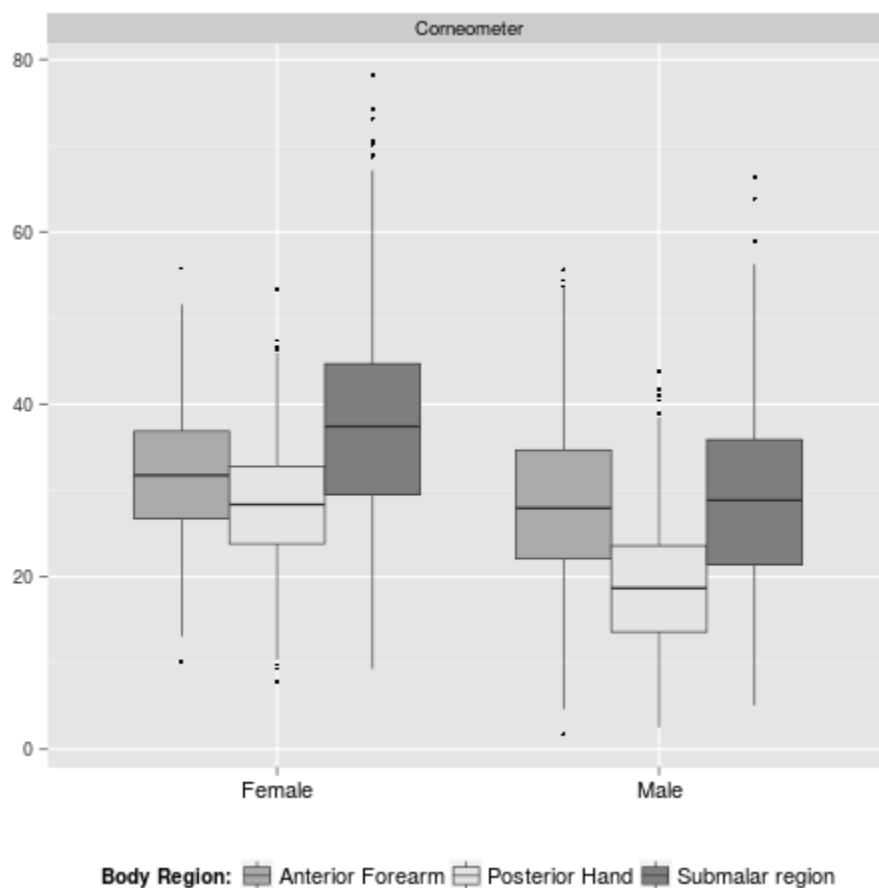


Fig S2. Scatterplot relation between *stratum corneum* moisture and confounding effects: room temperature (Celsius) and relative air humidity.

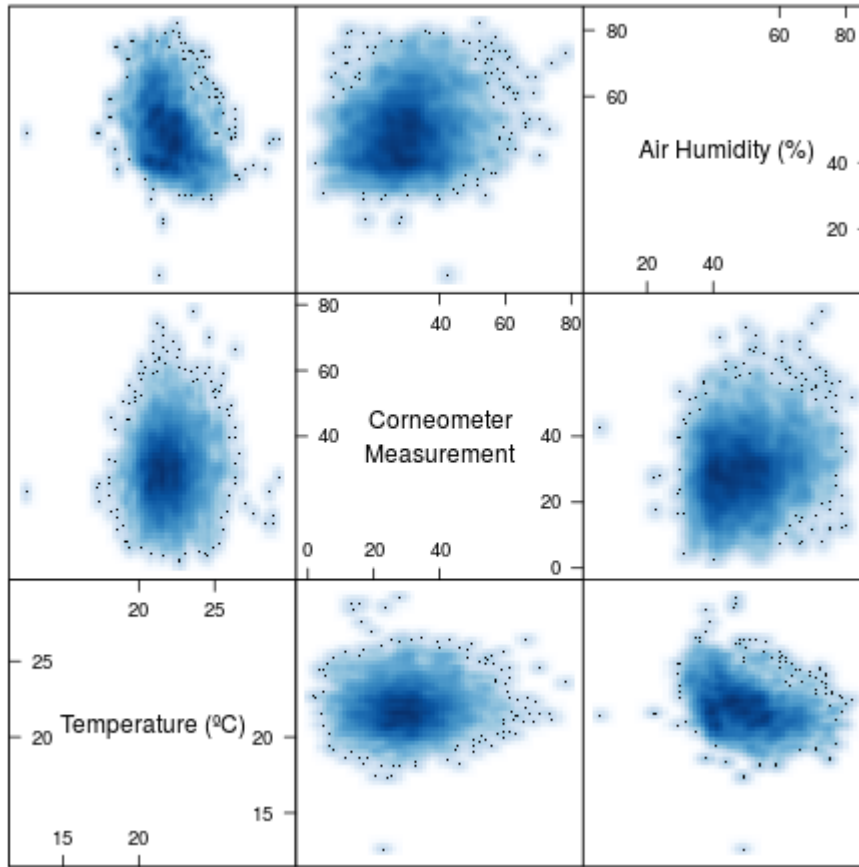


TABLE S3 – Study variables descriptive summaries and missing response rate

	MASC	FEM	Total				
1 - Smoking status				< 1 pack / week	70	48	118 (8.8%)
No	559	227	786 (58.7%)	1 - 2 packs / week	81	55	136 (10.2%)
Not actually	204	188	392 (29.3%)	2 - 3 packs / week	36	26	62 (4.6%)
Social smoker	9	8	17 (1.3%)	> 3 packs / week	100	136	236 (17.6%)
Yes	75	69	144 (10.8%)	N/A			0.07%
N/A			0.00%	2 - Sun Exposition			
1a - Smoking time				Never	532	186	718 (53.6%)
Never	558	227	785 (58.6%)	Sometimes	46	17	63 (4.7%)
Until 5 years	81	67	148 (11.1%)	Always	269	289	558 (41.7%)
6 - 10 years	43	34	77 (5.8%)	N/A			0.00%
11 - 15 years	26	28	54 (4%)	2a - Sunscreen use			
More than 15 years	138	136	274 (20.5%)	Daily	241	33	274 (20.5%)
N/A			0.07%	Sometimes	184	53	237 (17.7%)
1b - Smoking quantity				Occasionally	76	82	158 (11.8%)
Never	559	227	786 (58.7%)	Do not use	346	324	670 (50%)
				N/A			0.00%

3 - Hormone replacement therapy			
No	753	0	753 (56.5%)
No, but had already made	78	0	78 (5.8%)
Yes	14	0	14 (1%)
N/A	0.24%		
3a - Hormone replacement therapy history			
< 1 year	34	0	34 (2.5%)
1 - 3 years	33	0	33 (2.5%)
3 - 5 years	11	0	11 (0.8%)
5 - 10 years	6	0	6 (0.4%)
> 10 years	8	0	8 (0.6%)
N/A	89.14%		
4 - Skin self-perception			
Normal	127	150	277 (20.7%)
Dry	292	100	392 (29.3%)
Mixed	141	49	190 (14.2%)
Oily	281	186	467 (34.9%)
N/A			0.97%
5 - Skin softness			
Very soft	137	94	231 (17.3%)
Soft	440	276	716 (53.5%)
Slightly soft	139	68	207 (15.5%)
Not soft	130	50	180 (13.4%)
N/A			0.37%
6 - Skin softness			
Very hydrated	78	56	134 (10%)
Hydrated	302	199	501 (37.4%)
Slightly hydrated	209	104	313 (23.4%)
Not hydrated	253	125	378 (28.2%)
N/A			0.97%
7A - Skin firmness			
Very firm	162	221	383 (28.6%)
Firm	300	175	475 (35.5%)
Slightly firm	128	31	159 (11.9%)
Not firm	96	16	112 (8.4%)
N/A			15.68%
7B - Skin elasticity			
Very elastic	144	158	302 (22.6%)
Elastic	291	194	485 (36.2%)
Slightly elastic	179	71	250 (18.7%)
Not elastic	52	14	66 (4.9%)
N/A			17.63%
8A - Wrinkles / Expression Lines in eyes region			
No wrinkles	66	45	111 (8.3%)
Some wrinkles	232	133	365 (27.3%)

There are wrinkles	240	198	438 (32.7%)
Several wrinkles	148	70	218 (16.3%)
N/A			15.46%
8B - Wrinkles / Expression Lines in mouth region			
No wrinkles	143	131	274 (20.5%)
Some wrinkles	241	168	409 (30.5%)
There are wrinkles	190	126	316 (23.6%)
Several wrinkles	111	20	131 (9.8%)
N/A			15.61%
8C - Wrinkles / Expression Lines in forehead region			
No wrinkles	120	53	173 (12.9%)
Some wrinkles	244	155	399 (29.8%)
There are wrinkles	210	170	380 (28.4%)
Several wrinkles	113	69	182 (13.6%)
N/A			15.31%
9 - Skin oleosity			
Not oily	155	37	192 (14.3%)
Slightly oily	262	153	415 (31%)
Oily	271	203	474 (35.4%)
Very oily	151	90	241 (18%)
N/A			1.27%
10A - Skin pores			
No pores	150	57	207 (15.5%)
Some pores	179	130	309 (23.1%)
There are pores	228	171	399 (29.8%)
Several pores	84	61	145 (10.8%)
N/A			20.84%
10B - Skin texture			
Very smooth/uniform	140	76	216 (16.1%)
Smooth/uniform	303	260	563 (42%)
Slightly smooth/uniform	162	76	238 (17.8%)
Not smooth/uniform	81	35	116 (8.7%)
N/A			15.38%
11 - Skin luminosity			
Not luminous	173	71	244 (18.2%)
Slightly luminous	229	155	384 (28.7%)
Luminous	198	164	362 (27%)
Very luminous	80	50	130 (9.7%)
N/A			16.36%
12 - Skin aging signs			
No signs of aging	61	42	103 (7.7%)
Some signs of aging	211	166	377 (28.2%)
Presents signs of aging	258	170	428 (32%)
Several signs of aging	155	68	223 (16.7%)
N/A			15.53%

13 - Skin overall appearance			
Very good / excellent	10	16	26 (1.9%)
Good	168	180	348 (26%)
Regular	351	220	571 (42.6%)
bad	115	24	139 (10.4%)
Very bad	43	7	50 (3.7%)
N/A			15.31%
14A - Presence of comedones			
No comedones	212	188	400 (29.9%)
Some comedones	287	158	445 (33.2%)
There are comedones	110	70	180 (13.4%)
Several comedones	76	32	108 (8.1%)
N/A			15.38%
14B - Presence of acne			
Not present	388	252	640 (47.8%)
Slightly present	230	159	389 (29.1%)
Present	42	19	61 (4.6%)
Very present	25	17	42 (3.1%)
N/A			15.46%
1A - Self-percieved skin face type			
Mixed	120	42	162 (12.1%)
Oily	223	169	392 (29.3%)
Normal	111	140	251 (18.7%)
Dry	224	89	313 (23.4%)
Very dry	2	0	2 (0.1%)
Another	0	0	0 (0%)
Not applicable	7	5	12 (0.9%)
N/A			15.46%
1B - Self-percieved skin type			
Mixed	59	34	93 (6.9%)
Oily	43	49	92 (6.9%)
Normal	223	249	472 (35.3%)
Dry	324	101	425 (31.7%)
Very dry	22	4	26 (1.9%)
Other	1	1	2 (0.1%)
Not applicable	15	9	24 (1.8%)
N/A			15.31%
2 - Personal care products use			
Use of face moisturizer	314	55	369 (5.9%)
Use antiaging products	161	6	167 (2.7%)
Use of hands moisturizer	327	86	413 (6.6%)
Use of body moisturizer	406	43	449 (7.2%)
Use of feet moisturizer	313	37	350 (5.6%)
Use of bar soup	671	439	1110 (17.8%)
Use of liquid soup	152	55	207 (3.3%)

Use of deodorant	604	368	972 (15.6%)
Use of sunscreen	350	87	437 (7%)
Use body oil	159	9	168 (2.7%)
N/A			0.00%
3 - Makeup use			
Primer	3	0	3 (0.6%)
Cream base	15	0	15 (3.1%)
Liquid base	29	0	29 (6%)
Compact powder	27	0	27 (5.6%)
Loose powder	2	0	2 (0.4%)
Luminizer	1	0	1 (0.2%)
Blush	12	0	12 (2.5%)
Facial toner	3	0	3 (0.6%)
Lip liner	0	0	0 (0%)
Gloss	23	0	23 (4.7%)
Lipstick	280	1	281 (57.8%)
Lips moisturizer	1	0	1 (0.2%)
Eyliner	53	0	53 (10.9%)
Eyelashes mascara	25	0	25 (5.1%)
Eye-shadow	11	0	11 (2.3%)
N/A			0.00%
5 - Face care			
Wash face with bar soup	122	28	150 (37.9%)
Wash face with neutral soup	25	3	28 (7.1%)
Wash face with liquid soup	30	1	31 (7.8%)
Wash face only water	88	8	96 (24.2%)
Use cleaner lotion	73	4	77 (19.4%)
Use cleaner cream	14	0	14 (3.5%)
N/A			0.00%
6- Antiaging use frequency			
7x / week	114	4	118 (8.8%)
5-6x / week	5	1	6 (0.4%)
3-4x / week	29	1	30 (2.2%)
2x / week	13	0	13 (1%)
Not applicable	1	0	1 (0.1%)
N/A			87.45%
7- Daily antiaging use			
At morning	107	3	110 (45.3%)
At night	119	4	123 (50.6%)
Anytime	10	0	10 (4.1%)
N/A			81.85%
8- Antiaging type			
Same creams for day and night	30	1	31 (2.3%)
Different creams-day and night	48	0	48 (3.6%)
Uses only at morning	49	3	52 (3.9%)

Uses only at night	34	2	36 (2.7%)
N/A			87.53%
9 - Face sunscreen use			
7x / week	198	25	223 (16.7%)
5-6x / week	20	3	23 (1.7%)
3-4x / week	65	16	81 (6%)
2x / week	59	37	96 (7.2%)
Not applicable	5	3	8 (0.6%)
< 2x / week	2	0	2 (0.1%)
N/A			67.66%
10- Face sunscreen use			
< 1x /day	117	56	173 (12.9%)
1x /day	151	23	174 (13%)

2x / day	60	5	65 (4.9%)
> 2x / day	18	0	18 (1.3%)
N/A			67.89%
10- Sunscreen daily frequency			
Yes	50	2	52 (3.9%)
No	100	3	103 (7.7%)
N/A			88.42%
11 - Sunscreen daily frequency			
With sunscreen	83	1	84 (6.3%)
Without sunscreen	55	4	59 (4.4%)
Not applicable	20	1	21 (1.6%)
N/A			87.8%

TABLE S4 – Statistical models coefficients and significance for all study variables

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Weight Modeling										
Intercept	34.963	0.000	34.885	0.000	32.761	0.000	32.732	0.000	39.075	0.000
Sex: Male	-7.549	0.000	-7.053	0.000	-8.863	0.000	-3.427	0.000	-8.770	0.000
Age (years)	-0.011	0.361	-0.006	0.581	-0.065	0.000	0.063	0.000	-0.005	0.806
Ethnicity: Brown	0.924	0.099	0.654	0.227	0.527	0.345	-0.975	0.129	2.877	0.001
Ethnicity: Black	1.897	0.088	1.653	0.136	0.115	0.916	-0.951	0.448	5.762	0.001
Weight	-0.030	0.048	-0.032	0.032	-0.022	0.146	-0.052	0.003	-0.031	0.202
Height Modeling										
Intercept	31.935	0.000	31.383	0.000	29.667	0.000	20.187	0.003	42.547	0.000
Sex: Male	-7.879	0.000	-7.420	0.000	-9.167	0.000	-4.552	0.000	-8.615	0.000
Age (years)	-0.012	0.415	-0.006	0.655	-0.064	0.000	0.072	0.000	-0.013	0.559
Ethnicity: Brown	0.844	0.132	0.588	0.279	0.476	0.394	-1.081	0.093	2.775	0.002
Ethnicity: Black	1.737	0.119	1.488	0.18	0.001	0.999	-1.224	0.329	5.590	0.001
Height	0.007	0.847	0.009	0.798	0.010	0.776	0.055	0.179	-0.032	0.576
BMI Modeling										
Intercept	34.975	0.000	34.899	0.000	32.665	0.000	33.553	0.000	38.680	0.000
Sex: Male	-7.904	0.000	-7.424	0.000	-9.114	0.000	-4.085	0.000	-9.127	0.000
Age (years)	-0.007	0.603	-0.001	0.92	-0.062	0.000	0.075	0.000	-0.002	0.917
Ethnicity: Brown	0.902	0.107	0.636	0.24	0.520	0.352	-0.953	0.137	2.823	0.002
Ethnicity: Black	1.901	0.088	1.664	0.133	0.116	0.916	-0.857	0.493	5.714	0.001
BMI	-0.083	0.052	-0.088	0.033	-0.057	0.179	-0.182	0.000	-0.066	0.336
Abdominal Circumference Modeling										
Intercept	36.257	0.000	36.007	0.000	33.751	0.000	34.752	0.000	40.485	0.000
Sex: Male	-7.803	0.000	-7.317	0.000	-9.045	0.000	-3.889	0.000	-9.019	0.000
Age (years)	-0.002	0.875	0.003	0.833	-0.058	0.000	0.077	0.000	0.005	0.797
Ethnicity: Brown	0.945	0.092	0.670	0.216	0.547	0.327	-0.963	0.134	2.908	0.001
Ethnicity: Black	1.804	0.104	1.557	0.159	0.050	0.963	-1.145	0.359	5.676	0.001
Abdominal Circumference	-0.041	0.028	-0.040	0.026	-0.031	0.099	-0.067	0.002	-0.043	0.145
Ethnicity: Black Modeling										
Intercept	33.029	0.000	32.858	0.000	31.371	0.000	29.402	0.000	37.004	0.000

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Sex: Male	-7.780	0.000	-7.299	0.000	-9.037	0.000	-3.838	0.000	-9.002	0.000
Age (years)	-0.012	0.322	-0.007	0.517	-0.066	0.000	0.061	0.000	-0.005	0.809
Ethnicity: Brown	0.919	0.101	0.667	0.219	0.510	0.36	-1.002	0.119	2.861	0.001
Ethnicity: Black	1.794	0.107	1.560	0.159	0.014	0.99	-1.186	0.344	5.681	0.001
Alcohol Abuse Modeling										
Intercept	33.089	0.000	32.921	0.000	31.349	0.000	29.481	0.000	37.146	0.000
Sex: Male	-7.637	0.000	-7.161	0.000	-9.028	0.000	-3.764	0.000	-8.675	0.000
Age (years)	-0.012	0.309	-0.008	0.489	-0.066	0.000	0.060	0.000	-0.005	0.801
Ethnicity: Brown	0.964	0.085	0.714	0.188	0.517	0.354	-0.996	0.122	2.964	0.001
Ethnicity: Black	1.862	0.094	1.614	0.145	0.014	0.989	-1.164	0.354	5.857	0.001
Alcohol Abuse: (1: Alcoholic 6: Abstinent)	-0.057	0.19	-0.053	0.197	0.008	0.86	-0.024	0.636	-0.149	0.035
Ethnicity Modeling										
Intercept	33.029	0.000	32.858	0.000	31.371	0.000	29.402	0.000	37.004	0.000
Sex: Male	-7.780	0.000	-7.299	0.000	-9.037	0.000	-3.838	0.000	-9.002	0.000
Age (years)	-0.012	0.322	-0.007	0.517	-0.066	0.000	0.061	0.000	-0.005	0.809
Ethnicity: Brown	0.919	0.101	0.667	0.219	0.510	0.36	-1.002	0.119	2.861	0.001
Ethnicity: Black	1.794	0.107	1.560	0.159	0.014	0.99	-1.186	0.344	5.681	0.001
Smoking Modeling										
Intercept	33.017	0.000	32.858	0.000	31.353	0.000	29.419	0.000	36.993	0.000
Sex: Male	-7.793	0.000	-7.298	0.000	-9.057	0.000	-3.819	0.000	-9.014	0.000
Age (years)	-0.012	0.317	-0.007	0.518	-0.067	0.000	0.062	0.000	-0.005	0.804
Ethnicity: Brown	0.900	0.11	0.668	0.221	0.482	0.389	-0.974	0.132	2.843	0.002
Ethnicity: Black	1.783	0.109	1.560	0.159	-0.003	0.998	-1.169	0.351	5.671	0.001
Smoke: yes	0.229	0.728	-0.012	0.985	0.349	0.596	-0.342	0.654	0.215	0.84
Smoke (time) Modeling										
Intercept	33.087	0.000	32.926	0.000	31.432	0.000	29.530	0.000	37.038	0.000
Sex: Male	-7.665	0.000	-7.178	0.000	-8.913	0.000	-3.647	0.000	-8.916	0.000
Age (years)	-0.006	0.65	-0.001	0.948	-0.060	0.000	0.072	0.000	0.000	0.993
Ethnicity: Brown	0.964	0.086	0.713	0.189	0.559	0.316	-0.934	0.146	2.895	0.001
Ethnicity: Black	1.819	0.102	1.574	0.155	0.046	0.966	-1.139	0.362	5.705	0.001
Smoke (time): (1: Never 5: > 15 years)	-0.190	0.17	-0.204	0.119	-0.204	0.142	-0.326	0.042	-0.139	0.536
Smoke (frequency) Modeling										
Intercept	33.221	0.000	33.059	0.000	31.543	0.000	29.660	0.000	37.211	0.000
Sex: Male	-7.559	0.000	-7.075	0.000	-8.837	0.000	-3.571	0.000	-8.755	0.000
Age (years)	-0.004	0.739	0.001	0.964	-0.059	0.000	0.071	0.000	0.004	0.849
Ethnicity: Brown	0.984	0.079	0.736	0.174	0.567	0.309	-0.932	0.147	2.931	0.001
Ethnicity: Black	1.791	0.106	1.544	0.163	0.016	0.988	-1.187	0.342	5.685	0.001
Smoke (frequency): (1: None 5: > 3 packs/week)	-0.317	0.026	-0.324	0.016	-0.286	0.046	-0.391	0.018	-0.351	0.129
Sun exposition Modeling										
Intercept	33.442	0.000	33.265	0.000	31.587	0.000	29.760	0.000	37.753	0.000
Sex: Male	-7.205	0.000	-6.771	0.000	-8.570	0.000	-3.348	0.000	-8.254	0.000
Age (years)	-0.011	0.359	-0.007	0.54	-0.064	0.000	0.062	0.000	-0.007	0.747
Ethnicity: Brown	1.057	0.056	0.776	0.147	0.630	0.254	-0.884	0.166	3.011	0.001
Ethnicity: Black	2.112	0.053	1.858	0.089	0.279	0.796	-0.919	0.457	6.074	0.000
Sun exposition: Sometimes	1.797	0.062	1.452	0.113	2.312	0.017	1.682	0.135	1.324	0.398
Sun exposition: Always	-2.006	0.000	-1.847	0.000	-1.603	0.000	-1.743	0.001	-2.634	0.000
Sunscreen use frequency Modeling										
Intercept	34.133	0.000	33.902	0.000	31.860	0.000	30.340	0.000	39.036	0.000
Sex: Male	-7.313	0.000	-6.841	0.000	-8.832	0.000	-3.452	0.000	-8.163	0.000
Age (years)	-0.004	0.734	0.001	0.956	-0.063	0.000	0.068	0.000	0.009	0.66

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Ethnicity: Brown	1.075	0.055	0.817	0.131	0.582	0.297	-0.872	0.175	3.137	0.000
Ethnicity: Black	2.072	0.062	1.835	0.097	0.135	0.902	-0.960	0.443	6.175	0.000
Sunscreen use frequency: (1: Daily 4: Never)	-0.581	0.001	-0.562	0.001	-0.257	0.158	-0.486	0.021	-1.052	0.000
Hormone Replacement Therapy Modeling										
Intercept	33.519	0.000	33.173	0.000	31.928	0.000	28.815	0.000	38.025	0.000
Sex: Male	2.625	0.447	2.211	0.492	-0.957	0.774	0.621	0.86	6.410	0.254
Age (years)	-0.023	0.206	-0.015	0.368	-0.078	0.000	0.075	0.000	-0.027	0.357
Ethnicity: Brown	0.843	0.228	0.739	0.266	0.616	0.358	-0.641	0.362	2.273	0.045
Ethnicity: Black	2.239	0.081	2.032	0.102	-0.072	0.953	-1.848	0.147	7.556	0.000
Hormone Replacement Therapy: already made	0.016	0.987	0.229	0.801	-0.169	0.857	-0.540	0.587	0.759	0.631
Hormone Replacement Therapy: yes, actually	-0.955	0.664	-1.157	0.571	-0.732	0.73	0.281	0.901	-1.749	0.625
Skin type Modeling										
Intercept	32.705	0.000	32.661	0.000	30.321	0.000	29.422	0.000	37.434	0.000
Sex: Male	-7.867	0.000	-7.389	0.000	-9.050	0.000	-3.944	0.000	-9.214	0.000
Age (years)	-0.002	0.859	0.001	0.905	-0.050	0.000	0.071	0.000	-0.001	0.958
Ethnicity: Brown	0.769	0.172	0.495	0.364	0.419	0.453	-1.190	0.064	2.732	0.003
Ethnicity: Black	1.594	0.153	1.357	0.222	-0.266	0.807	-1.413	0.259	5.655	0.001
Skin type: Dry	-0.935	0.119	-0.952	0.094	-0.681	0.259	-1.395	0.045	-1.278	0.193
Skin type: Mixed	0.642	0.377	0.465	0.499	1.454	0.046	0.061	0.942	0.032	0.978
Skin type: Oily	0.412	0.49	0.282	0.619	1.014	0.09	0.265	0.701	-0.353	0.717
Skin softness Modeling										
Intercept	34.973	0.000	34.675	0.000	32.835	0.000	31.489	0.000	39.372	0.000
Sex: Male	-7.897	0.000	-7.407	0.000	-9.143	0.000	-3.944	0.000	-9.145	0.000
Age (years)	-0.012	0.316	-0.008	0.495	-0.067	0.000	0.062	0.000	-0.005	0.803
Ethnicity: Brown	0.943	0.091	0.675	0.211	0.536	0.335	-0.987	0.122	2.909	0.001
Ethnicity: Black	1.875	0.09	1.652	0.134	0.068	0.95	-1.129	0.363	5.769	0.001
Skin softness: (1: Very soft 4: Not soft)	-0.840	0.000	-0.779	0.000	-0.626	0.007	-0.902	0.001	-1.026	0.006
Skin hydration Modeling										
Intercept	35.132	0.000	34.893	0.000	33.303	0.000	31.828	0.000	39.016	0.000
Sex: Male	-7.896	0.000	-7.423	0.000	-9.135	0.000	-3.976	0.000	-9.150	0.000
Age (years)	-0.013	0.286	-0.009	0.44	-0.067	0.000	0.059	0.000	-0.006	0.769
Ethnicity: Brown	0.893	0.112	0.600	0.269	0.453	0.418	-1.118	0.082	2.939	0.001
Ethnicity: Black	1.668	0.134	1.427	0.198	-0.137	0.901	-1.300	0.298	5.604	0.001
Skin hydration (1: Very hydrated 4: Not hydrated)	-0.746	0.000	-0.713	0.000	-0.682	0.001	-0.832	0.001	-0.721	0.034
Skin firmness Modeling										
Intercept	30.677	0.000	30.591	0.000	29.689	0.000	28.069	0.000	33.512	0.000
Sex: Male	-7.150	0.000	-6.743	0.000	-8.674	0.000	-3.678	0.000	-7.936	0.000
Age (years)	0.000	0.995	0.003	0.799	-0.057	0.000	0.063	0.000	0.012	0.593
Ethnicity: Brown	1.348	0.022	1.075	0.062	0.555	0.353	-0.615	0.378	3.591	0.000
Ethnicity: Black	1.653	0.137	1.271	0.253	0.256	0.82	-1.420	0.268	5.242	0.003
Skin firmness (1: Very firm 4: Not firm)	0.378	0.139	0.401	0.102	0.290	0.264	0.344	0.262	0.588	0.16
Skin elasticity Modeling										
Intercept	31.792	0.000	31.730	0.000	30.955	0.000	29.700	0.000	34.605	0.000
Sex: Male	-7.546	0.000	-7.136	0.000	-9.115	0.000	-4.031	0.000	-8.409	0.000
Age (years)	0.014	0.301	0.018	0.174	-0.043	0.002	0.073	0.000	0.028	0.213
Ethnicity: Brown	1.404	0.019	1.137	0.053	0.484	0.423	-0.728	0.302	3.908	0.000
Ethnicity: Black	1.440	0.206	1.017	0.37	0.033	0.977	-1.564	0.227	4.813	0.008
Skin elasticity (1: Very elastic 4: Not elastic)	-0.391	0.133	-0.397	0.115	-0.515	0.051	-0.605	0.053	-0.233	0.586

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Wrinkles (eyes region) Modeling										
Intercept	31.971	0.000	31.890	0.000	30.782	0.000	29.075	0.000	35.396	0.000
Sex: Male	-7.360	0.000	-6.969	0.000	-8.838	0.000	-3.872	0.000	-8.257	0.000
Age (years)	0.008	0.566	0.011	0.391	-0.050	0.000	0.068	0.000	0.024	0.277
Ethnicity: Brown	1.133	0.055	0.856	0.137	0.439	0.463	-0.809	0.246	3.251	0.001
Ethnicity: Black	1.469	0.189	1.097	0.327	0.123	0.913	-1.536	0.233	4.945	0.006
Wrinkles (eyes region) (1: No wrinkles 4: Several)	-0.286	0.249	-0.266	0.264	-0.283	0.262	-0.184	0.538	-0.385	0.344
Wrinkles (mouth region) Modeling										
Intercept	31.179	0.000	31.068	0.000	30.136	0.000	28.489	0.000	34.202	0.000
Sex: Male	-7.306	0.000	-6.895	0.000	-8.799	0.000	-3.810	0.000	-8.180	0.000
Age (years)	0.003	0.835	0.005	0.69	-0.053	0.000	0.061	0.000	0.018	0.426
Ethnicity: Brown	1.176	0.047	0.897	0.121	0.459	0.445	-0.714	0.307	3.287	0.001
Ethnicity: Black	1.559	0.163	1.170	0.295	0.206	0.854	-1.487	0.247	5.095	0.004
Wrinkles (mouth region) (1: No wrinkles 4: Several)	0.101	0.678	0.155	0.508	0.008	0.975	0.198	0.498	0.159	0.69
Wrinkles (forehead) Modeling										
Intercept	31.615	0.000	31.541	0.000	30.060	0.000	29.052	0.000	35.129	0.000
Sex: Male	-7.323	0.000	-6.935	0.000	-8.826	0.000	-3.852	0.000	-8.188	0.000
Age (years)	0.006	0.639	0.010	0.453	-0.054	0.000	0.068	0.000	0.024	0.284
Ethnicity: Brown	1.180	0.045	0.902	0.116	0.510	0.392	-0.803	0.248	3.304	0.001
Ethnicity: Black	1.531	0.171	1.155	0.301	0.238	0.833	-1.532	0.233	5.001	0.005
Wrinkles (forehead) (1: No wrinkles 4: Several)	-0.147	0.533	-0.128	0.573	0.048	0.842	-0.183	0.519	-0.318	0.411
Skin oleosity Modeling										
Intercept	33.338	0.000	33.154	0.000	30.333	0.000	29.638	0.000	38.862	0.000
Sex: Male	-7.749	0.000	-7.261	0.000	-9.148	0.000	-3.733	0.000	-8.897	0.000
Age (years)	-0.016	0.216	-0.011	0.376	-0.063	0.000	0.058	0.000	-0.017	0.407
Ethnicity: Brown	0.862	0.128	0.614	0.263	0.409	0.468	-1.059	0.102	2.866	0.002
Ethnicity: Black	1.850	0.099	1.620	0.147	-0.163	0.883	-1.142	0.366	5.984	0.001
Skin oleosity (1: Not oily 4: Very oily)	-0.069	0.757	-0.076	0.718	0.370	0.098	-0.052	0.84	-0.540	0.134
Skin pores Modeling										
Intercept	31.302	0.000	31.299	0.000	29.486	0.000	29.115	0.000	35.203	0.000
Sex: Male	-7.429	0.000	-7.021	0.000	-9.075	0.000	-3.813	0.000	-8.216	0.000
Age (years)	0.009	0.521	0.013	0.343	-0.045	0.002	0.065	0.000	0.023	0.329
Ethnicity: Brown	1.407	0.024	1.132	0.064	0.431	0.492	-0.773	0.291	3.928	0.000
Ethnicity: Black	1.696	0.138	1.348	0.238	0.153	0.894	-1.393	0.286	5.422	0.003
Skin pores (1: No pores 4: Several)	-0.048	0.842	-0.075	0.751	0.213	0.382	-0.130	0.654	-0.377	0.346
Skin texture Modeling										
Intercept	33.132	0.000	32.898	0.000	31.377	0.000	30.452	0.000	36.664	0.000
Sex: Male	-7.475	0.000	-7.065	0.000	-8.905	0.000	-3.938	0.000	-8.408	0.000
Age (years)	0.006	0.623	0.010	0.412	-0.052	0.000	0.070	0.000	0.021	0.345
Ethnicity: Brown	1.281	0.028	1.001	0.078	0.553	0.35	-0.612	0.376	3.445	0.000
Ethnicity: Black	1.687	0.126	1.293	0.242	0.287	0.797	-1.366	0.286	5.252	0.003
Skin texture (1: Very uniform 4: Irregular)	-0.831	0.001	-0.753	0.002	-0.569	0.026	-0.875	0.004	-0.959	0.020
Skin luminosity Modeling										
Intercept	29.826	0.000	29.830	0.000	27.983	0.000	27.348	0.000	33.441	0.000
Sex: Male	-7.362	0.000	-6.949	0.000	-8.868	0.000	-3.759	0.000	-8.320	0.000
Age (years)	0.010	0.443	0.015	0.237	-0.044	0.002	0.075	0.000	0.020	0.382
Ethnicity: Brown	1.310	0.026	1.033	0.074	0.519	0.383	-0.661	0.345	3.615	0.000
Ethnicity: Black	1.529	0.169	1.140	0.305	0.104	0.925	-1.591	0.217	5.189	0.004

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Skin luminosity (1: Not luminous 4: Very luminous)	0.524	0.024	0.478	0.033	0.748	0.002	0.399	0.155	0.437	0.255
Skin aging signs Modeling										
Intercept	32.373	0.000	32.342	0.000	31.365	0.000	29.666	0.000	35.446	0.000
Sex: Male	-7.400	0.000	-7.022	0.000	-8.906	0.000	-3.901	0.000	-8.298	0.000
Age (years)	0.014	0.307	0.019	0.149	-0.041	0.003	0.077	0.000	0.026	0.257
Ethnicity: Brown	1.053	0.074	0.772	0.18	0.356	0.551	-0.936	0.178	3.240	0.001
Ethnicity: Black	1.401	0.211	1.022	0.36	0.044	0.969	-1.675	0.194	4.984	0.005
Skin aging signs (1: No signs 4: Several signs)	-0.531	0.038	-0.558	0.024	-0.632	0.015	-0.521	0.089	-0.435	0.302
Overrral skin appearence Modeling										
Intercept	32.627	0.000	32.592	0.000	31.583	0.000	30.725	0.000	35.444	0.000
Sex: Male	-7.546	0.000	-7.145	0.000	-9.058	0.000	-4.112	0.000	-8.384	0.000
Age (years)	0.008	0.526	0.012	0.333	-0.049	0.000	0.072	0.000	0.023	0.294
Ethnicity: Brown	1.244	0.033	0.975	0.088	0.546	0.356	-0.666	0.336	3.380	0.000
Ethnicity: Black	1.729	0.121	1.350	0.226	0.394	0.726	-1.244	0.333	5.212	0.004
Overrral skin appearence (1: Very good 5: Very bad)	-0.495	0.078	-0.501	0.064	-0.543	0.057	-0.785	0.020	-0.358	0.436
Comedones presence Modeling										
Intercept	30.369	0.000	30.396	0.000	29.138	0.000	29.313	0.000	32.325	0.000
Sex: Male	-7.287	0.000	-6.899	0.000	-8.789	0.000	-3.858	0.000	-8.118	0.000
Age (years)	0.012	0.386	0.016	0.241	-0.045	0.002	0.063	0.000	0.036	0.12
Ethnicity: Brown	1.251	0.033	0.981	0.086	0.545	0.358	-0.718	0.303	3.444	0.000
Ethnicity: Black	1.494	0.18	1.109	0.319	0.134	0.905	-1.437	0.265	4.942	0.006
Comedones presence (1: Not present 4: Several comedones)	0.290	0.242	0.258	0.28	0.302	0.232	-0.244	0.417	0.685	0.092
Acne presence Modeling										
Intercept	30.631	0.000	30.576	0.000	29.709	0.000	28.262	0.000	33.294	0.000
Sex: Male	-7.317	0.000	-6.925	0.000	-8.813	0.000	-3.786	0.000	-8.221	0.000
Age (years)	0.012	0.443	0.016	0.273	-0.048	0.002	0.071	0.000	0.032	0.202
Ethnicity: Brown	1.197	0.04	0.932	0.102	0.489	0.408	-0.699	0.314	3.338	0.000
Ethnicity: Black	1.462	0.19	1.078	0.334	0.133	0.906	-1.535	0.234	4.929	0.006
Acne presence (1: Not present 4: Very present)	0.254	0.443	0.247	0.437	0.148	0.661	0.122	0.76	0.453	0.404
Self-percieved skin face type Modeling										
Intercept	31.790	0.000	31.641	0.000	30.563	0.000	28.692	0.000	35.277	0.000
Sex: Male	-7.453	0.000	-7.065	0.000	-8.838	0.000	-3.976	0.000	-8.441	0.000
Age (years)	0.013	0.345	0.017	0.214	-0.041	0.004	0.077	0.000	0.022	0.336
Ethnicity: Brown	1.035	0.079	0.753	0.192	0.435	0.467	-0.887	0.2	3.178	0.001
Ethnicity: Black	1.431	0.202	1.067	0.34	0.039	0.972	-1.671	0.193	5.141	0.004
Self-percieved skin face type: Oily	-0.307	0.652	-0.225	0.734	-0.402	0.563	0.389	0.632	-0.663	0.556
Self-percieved skin face type: Normal	-0.479	0.527	-0.249	0.734	-1.012	0.191	0.204	0.822	-0.231	0.853
Self-percieved skin face type: Dry	-1.907	0.007	-1.772	0.009	-2.005	0.005	-2.079	0.013	-1.663	0.154
Self-percieved skin face type: Very dry	-5.568	0.372	-3.200	0.586	-3.727	0.562	8.725	0.251	-16.053	0.126
Self-percieved skin type Modeling										
Intercept	33.436	0.000	33.382	0.000	32.468	0.000	31.925	0.000	35.212	0.000
Sex: Male	-7.411	0.000	-7.010	0.000	-8.778	0.000	-3.798	0.000	-8.489	0.000
Age (years)	0.002	0.868	0.007	0.578	-0.053	0.000	0.065	0.000	0.015	0.506
Ethnicity: Brown	1.185	0.045	0.932	0.108	0.506	0.398	-0.747	0.282	3.414	0.000
Ethnicity: Black	1.509	0.184	1.156	0.306	0.039	0.973	-1.690	0.193	5.287	0.004
Self-percieved skin type: Oily	-1.669	0.121	-1.884	0.071	-1.765	0.108	-3.741	0.004	-0.288	0.872

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Self-percieved skin type: Normal	-1.829	0.026	-1.871	0.019	-2.381	0.005	-3.023	0.002	0.018	0.989
Self-percieved skin type: Dry	-2.232	0.007	-2.321	0.004	-2.541	0.003	-3.545	0.000	-0.674	0.624
Self-percieved skin type: Very dry	-5.538	0.000	-5.353	0.000	-4.802	0.003	-6.912	0.000	-4.467	0.086
Self-percieved skin type: Other	-4.537	0.312	-4.518	0.293	-11.405	0.014	-5.334	0.326	0.819	0.914
Use of face moisturizer Modeling										
Intercept	32.163	0.000	32.053	0.000	30.624	0.000	29.103	0.000	35.933	0.000
Sex: Male	-6.785	0.000	-6.395	0.000	-8.509	0.000	-3.472	0.000	-7.311	0.000
Age (years)	0.005	0.689	0.010	0.443	-0.053	0.000	0.068	0.000	0.020	0.344
Ethnicity: Brown	1.321	0.024	1.055	0.064	0.576	0.331	-0.616	0.375	3.542	0.000
Ethnicity: Black	1.564	0.159	1.192	0.282	0.220	0.844	-1.488	0.247	5.088	0.004
Use of face moisturizer: No	-1.636	0.001	-1.588	0.001	-0.927	0.062	-1.028	0.081	-2.735	0.001
Use antiaging products Modeling										
Intercept	32.170	0.000	32.016	0.000	30.252	0.000	29.096	0.000	36.384	0.000
Sex: Male	-7.030	0.000	-6.651	0.000	-8.769	0.000	-3.636	0.000	-7.574	0.000
Age (years)	0.005	0.72	0.009	0.478	-0.053	0.000	0.068	0.000	0.019	0.378
Ethnicity: Brown	1.258	0.032	0.988	0.084	0.529	0.373	-0.666	0.337	3.444	0.000
Ethnicity: Black	1.584	0.155	1.201	0.281	0.227	0.84	-1.479	0.251	5.132	0.004
Use antiaging products: No	-1.156	0.068	-1.047	0.086	-0.162	0.802	-0.707	0.354	-2.495	0.016
Use of hands moisturizer Modeling										
Intercept	31.442	0.000	31.365	0.000	30.475	0.000	28.721	0.000	34.393	0.000
Sex: Male	-7.203	0.000	-6.799	0.000	-8.527	0.000	-3.667	0.000	-8.288	0.000
Age (years)	0.007	0.617	0.011	0.392	-0.050	0.000	0.070	0.000	0.020	0.364
Ethnicity: Brown	1.229	0.036	0.966	0.091	0.549	0.354	-0.664	0.338	3.349	0.000
Ethnicity: Black	1.549	0.165	1.170	0.294	0.178	0.873	-1.492	0.246	5.108	0.004
Use of hands moisturizer: No	-0.416	0.376	-0.416	0.357	-0.979	0.04	-0.465	0.411	0.258	0.737
Use of body moisturizer Modeling										
Intercept	31.347	0.000	31.261	0.000	30.194	0.000	28.537	0.000	34.586	0.000
Sex: Male	-6.938	0.000	-6.604	0.000	-8.331	0.000	-3.926	0.000	-7.545	0.000
Age (years)	0.011	0.418	0.014	0.277	-0.046	0.001	0.067	0.000	0.031	0.175
Ethnicity: Brown	1.204	0.04	0.943	0.099	0.507	0.392	-0.677	0.33	3.328	0.000
Ethnicity: Black	1.474	0.186	1.115	0.317	0.104	0.926	-1.444	0.263	4.922	0.006
Use of body moisturizer: No	-0.795	0.13	-0.649	0.198	-0.986	0.065	0.259	0.683	-1.385	0.107
Use of feet moisturizer Modeling										
Intercept	31.732	0.000	31.676	0.000	30.570	0.000	28.965	0.000	34.916	0.000
Sex: Male	-7.035	0.000	-6.616	0.000	-8.517	0.000	-3.537	0.000	-7.926	0.000
Age (years)	0.005	0.727	0.009	0.481	-0.054	0.000	0.068	0.000	0.020	0.359
Ethnicity: Brown	1.237	0.035	0.977	0.087	0.542	0.361	-0.665	0.338	3.381	0.000
Ethnicity: Black	1.493	0.181	1.119	0.316	0.150	0.893	-1.554	0.228	5.024	0.005
Use of feet moisturizer: No	-0.760	0.137	-0.802	0.103	-0.763	0.142	-0.707	0.251	-0.754	0.368
Use of bar soup Modeling										
Intercept	31.322	0.000	31.253	0.000	30.163	0.000	28.573	0.000	34.515	0.000
Sex: Male	-7.327	0.000	-6.926	0.000	-8.813	0.000	-3.800	0.000	-8.219	0.000
Age (years)	0.004	0.747	0.008	0.513	-0.054	0.000	0.068	0.000	0.019	0.371
Ethnicity: Brown	1.159	0.049	0.884	0.124	0.451	0.449	-0.716	0.304	3.286	0.001
Ethnicity: Black	1.592	0.154	1.223	0.272	0.252	0.822	-1.460	0.257	5.122	0.004
Use of bar soup: No	1.438	0.308	1.744	0.198	1.641	0.253	0.908	0.594	1.797	0.437
Use of liquid soup Modeling										
Intercept	32.086	0.000	32.015	0.000	30.922	0.000	29.158	0.000	35.515	0.000
Sex: Male	-7.242	0.000	-6.839	0.000	-8.727	0.000	-3.751	0.000	-8.101	0.000
Age (years)	0.006	0.639	0.010	0.409	-0.052	0.000	0.069	0.000	0.022	0.321
Ethnicity: Brown	1.218	0.037	0.955	0.094	0.528	0.373	-0.694	0.318	3.356	0.000

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Ethnicity: Black	1.660	0.136	1.291	0.247	0.312	0.78	-1.428	0.268	5.207	0.004
Use of liquid soup: No	-1.048	0.075	-1.053	0.063	-1.059	0.077	-0.788	0.266	-1.356	0.159
Use of deodorant Modeling										
Intercept	30.953	0.000	30.845	0.000	29.916	0.000	28.233	0.000	33.967	0.000
Sex: Male	-7.203	0.000	-6.788	0.000	-8.738	0.000	-3.687	0.000	-8.038	0.000
Age (years)	0.017	0.214	0.022	0.094	-0.046	0.001	0.080	0.000	0.039	0.086
Ethnicity: Brown	1.172	0.044	0.916	0.108	0.499	0.4	-0.729	0.292	3.284	0.001
Ethnicity: Black	1.416	0.203	1.039	0.349	0.133	0.905	-1.631	0.205	4.850	0.007
Use of deodorant	-1.885	0.003	-1.990	0.001	-1.144	0.077	-1.839	0.016	-2.885	0.005
Use of sunscreen Modeling										
Intercept	31.660	0.000	31.575	0.000	30.262	0.000	28.870	0.000	35.177	0.000
Sex: Male	-6.881	0.000	-6.480	0.000	-8.643	0.000	-3.442	0.000	-7.394	0.000
Age (years)	0.011	0.413	0.015	0.23	-0.051	0.000	0.073	0.000	0.031	0.159
Ethnicity: Brown	1.316	0.024	1.051	0.065	0.563	0.343	-0.608	0.381	3.535	0.000
Ethnicity: Black	1.866	0.094	1.503	0.177	0.335	0.766	-1.257	0.331	5.622	0.002
Use of sunscreen: No	-1.373	0.004	-1.366	0.003	-0.506	0.301	-1.125	0.051	-2.546	0.001
Use body oil Modeling										
Intercept	32.373	0.000	32.265	0.000	30.810	0.000	29.700	0.000	36.100	0.000
Sex: Male	-6.987	0.000	-6.591	0.000	-8.595	0.000	-3.458	0.000	-7.715	0.000
Age (years)	0.010	0.458	0.014	0.269	-0.050	0.000	0.073	0.000	0.027	0.214
Ethnicity: Brown	1.262	0.031	0.997	0.08	0.552	0.351	-0.649	0.349	3.410	0.000
Ethnicity: Black	1.488	0.18	1.124	0.311	0.169	0.88	-1.592	0.215	4.955	0.005
Use body oil: No	-1.686	0.010	-1.643	0.009	-1.064	0.112	-1.761	0.026	-2.496	0.020
Wash face with bar soup Modeling										
Intercept	31.651	0.000	31.505	0.000	29.929	0.000	27.746	0.000	36.008	0.000
Sex: Male	-7.285	0.000	-6.891	0.000	-8.839	0.000	-3.907	0.000	-8.032	0.000
Age (years)	0.005	0.711	0.009	0.47	-0.053	0.000	0.070	0.000	0.019	0.388
Ethnicity: Brown	1.225	0.037	0.960	0.093	0.513	0.387	-0.708	0.307	3.397	0.000
Ethnicity: Black	1.531	0.171	1.163	0.298	0.242	0.83	-1.401	0.277	4.938	0.006
Wash face with bar soup: No	-0.403	0.529	-0.318	0.606	0.229	0.726	0.925	0.232	-1.737	0.098
Wash face with neutral soup Modeling										
Intercept	35.942	0.000	35.499	0.000	33.849	0.000	31.634	0.000	40.595	0.000
Sex: Male	-7.154	0.000	-6.770	0.000	-8.672	0.000	-3.696	0.000	-7.979	0.000
Age (years)	0.009	0.482	0.013	0.296	-0.050	0.000	0.071	0.000	0.026	0.236
Ethnicity: Brown	1.332	0.022	1.070	0.06	0.608	0.304	-0.617	0.374	3.508	0.000
Ethnicity: Black	1.514	0.172	1.138	0.304	0.182	0.87	-1.517	0.238	5.033	0.005
Wash face with neutral soup: No	-5.051	0.000	-4.650	0.000	-4.038	0.003	-3.348	0.04	-6.646	0.003
Wash face with liquid soup Modeling										
Intercept	32.062	0.000	32.330	0.000	28.999	0.000	30.350	0.000	37.164	0.000
Sex: Male	-7.289	0.000	-6.871	0.000	-8.864	0.000	-3.729	0.000	-8.082	0.000
Age (years)	0.005	0.687	0.009	0.454	-0.053	0.000	0.069	0.000	0.021	0.344
Ethnicity: Brown	1.233	0.036	0.971	0.09	0.501	0.399	-0.654	0.346	3.409	0.000
Ethnicity: Black	1.583	0.156	1.207	0.279	0.207	0.853	-1.456	0.258	5.141	0.004
Wash face with liquid soup: No	-0.810	0.537	-1.166	0.356	1.196	0.37	-1.895	0.23	-2.829	0.188
Wash face only water Modeling										
Intercept	31.584	0.000	31.421	0.000	30.452	0.000	28.840	0.000	34.927	0.000
Sex: Male	-7.282	0.000	-6.894	0.000	-8.763	0.000	-3.773	0.000	-8.143	0.000
Age (years)	0.005	0.691	0.009	0.458	-0.053	0.000	0.069	0.000	0.020	0.348
Ethnicity: Brown	1.237	0.035	0.965	0.092	0.543	0.361	-0.672	0.334	3.388	0.000
Ethnicity: Black	1.588	0.155	1.204	0.281	0.242	0.829	-1.472	0.253	5.125	0.004
Wash face only water: No	-0.338	0.663	-0.225	0.763	-0.378	0.632	-0.331	0.724	-0.515	0.686

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Use cleaner lotion Modeling										
Intercept	32.926	0.000	32.793	0.000	30.869	0.000	29.718	0.000	37.311	0.000
Sex: Male	-7.130	0.000	-6.731	0.000	-8.723	0.000	-3.678	0.000	-7.875	0.000
Age (years)	0.005	0.697	0.009	0.462	-0.053	0.000	0.069	0.000	0.020	0.351
Ethnicity: Brown	1.232	0.035	0.964	0.091	0.529	0.372	-0.680	0.328	3.386	0.000
Ethnicity: Black	1.624	0.145	1.234	0.267	0.250	0.823	-1.444	0.263	5.202	0.004
Use cleaner lotion: No	-1.829	0.033	-1.756	0.033	-0.829	0.344	-1.300	0.211	-3.168	0.025
Use cleaner cream Modeling										
Intercept	33.620	0.000	33.242	0.000	31.743	0.000	29.196	0.000	38.327	0.000
Sex: Male	-7.288	0.000	-6.890	0.000	-8.785	0.000	-3.804	0.000	-8.144	0.000
Age (years)	0.006	0.662	0.010	0.44	-0.053	0.000	0.069	0.000	0.021	0.326
Ethnicity: Brown	1.212	0.039	0.948	0.098	0.518	0.383	-0.692	0.319	3.356	0.000
Ethnicity: Black	1.623	0.146	1.244	0.265	0.259	0.817	-1.475	0.253	5.190	0.004
Use cleaner cream: no	-2.381	0.296	-2.060	0.342	-1.653	0.476	-0.655	0.813	-3.945	0.293
Antiaging frequency Modeling										
Intercept	35.004	0.000	34.450	0.000	33.692	0.000	31.146	0.000	38.780	0.000
Sex: Male	-10.833	0.000	-11.079	0.000	-11.833	0.000	-8.352	0.006	-11.599	0.024
Age (years)	-0.006	0.886	-0.001	0.983	-0.072	0.091	0.058	0.201	0.012	0.87
Ethnicity: Brown	-0.943	0.533	-0.818	0.575	-2.298	0.115	-2.825	0.067	2.043	0.421
Ethnicity: Black	-1.186	0.619	-1.149	0.634	-1.667	0.485	-3.808	0.14	1.519	0.699
Antiaging frequency: (1: Daily 4: > 2 times/week)	-1.002	0.071	-0.858	0.116	-1.233	0.023	-0.638	0.273	-0.788	0.393
Antiaging at morning Modeling										
Intercept	32.289	0.000	32.026	0.000	30.249	0.000	29.216	0.000	36.383	0.000
Sex: Male	-7.115	0.000	-6.752	0.000	-8.785	0.000	-3.676	0.000	-7.808	0.000
Age (years)	0.005	0.713	0.009	0.475	-0.053	0.000	0.068	0.000	0.020	0.367
Ethnicity: Brown	1.267	0.031	0.991	0.083	0.529	0.374	-0.660	0.342	3.451	0.000
Ethnicity: Black	1.700	0.128	1.296	0.246	0.240	0.831	-1.406	0.276	5.345	0.003
Antiaging at morning: No	-1.201	0.104	-0.963	0.174	-0.145	0.847	-0.793	0.373	-2.288	0.058
Antiaging at night Modeling										
Intercept	31.964	0.000	31.926	0.000	30.281	0.000	29.142	0.000	36.030	0.000
Sex: Male	-7.158	0.000	-6.745	0.000	-8.773	0.000	-3.671	0.000	-7.827	0.000
Age (years)	0.006	0.676	0.010	0.442	-0.053	0.000	0.069	0.000	0.021	0.335
Ethnicity: Brown	1.235	0.035	0.968	0.091	0.527	0.375	-0.675	0.331	3.399	0.000
Ethnicity: Black	1.558	0.162	1.176	0.291	0.222	0.843	-1.499	0.244	5.071	0.004
Antiaging at night: No	-0.849	0.226	-0.890	0.188	-0.192	0.788	-0.737	0.383	-1.952	0.089
Antiaging several times/day Modeling										
Intercept	34.675	0.000	34.900	0.000	31.410	0.000	34.535	0.000	37.850	0.000
Sex: Male	-7.269	0.000	-6.863	0.000	-8.789	0.000	-3.712	0.000	-8.152	0.000
Age (years)	0.004	0.773	0.008	0.535	-0.053	0.000	0.066	0.000	0.019	0.382
Ethnicity: Brown	1.240	0.034	0.981	0.086	0.530	0.372	-0.655	0.345	3.382	0.000
Ethnicity: Black	1.612	0.148	1.238	0.266	0.241	0.83	-1.414	0.272	5.142	0.004
Antiaging several times/day: No	-3.368	0.121	-3.662	0.078	-1.275	0.565	-5.956	0.023	-3.354	0.348
Antiaging type Modeling										
Intercept	37.686	0.000	36.696	0.000	35.364	0.000	33.298	0.000	42.546	0.000
Sex: Male	-10.264	0.001	-10.748	0.000	-11.828	0.000	-7.979	0.009	-10.698	0.038
Age (years)	-0.018	0.663	-0.013	0.752	-0.088	0.036	0.047	0.287	0.001	0.989
Ethnicity: Brown	-0.979	0.502	-0.693	0.621	-2.093	0.141	-2.719	0.071	1.956	0.431
Ethnicity: Black	-0.307	0.893	-0.267	0.912	-0.942	0.698	-2.727	0.297	2.325	0.552
Antiaging type: Different creams for day and night	-5.834	0.000	-4.889	0.001	-5.047	0.001	-4.012	0.011	-6.779	0.009

	Basal Model		General Model		Post. Hand Model		Forearm Model		Submalar Model	
	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.	Coef	p-val.
Antiaging type: Uses only at morning	-4.406	0.005	-3.530	0.018	-3.230	0.033	-3.397	0.034	-5.359	0.045
Antiaging type: Uses only at night	-3.434	0.043	-3.144	0.053	-2.606	0.114	-2.842	0.103	-4.829	0.095
Face sunscreen Modeling										
Intercept	31.343	0.000	31.075	0.000	29.908	0.000	28.967	0.000	33.958	0.000
Sex: Male	-6.956	0.000	-6.344	0.000	-7.479	0.000	-3.129	0.002	-8.837	0.000
Age (years)	0.026	0.278	0.034	0.14	-0.049	0.041	0.073	0.006	0.085	0.04
Ethnicity: Brown	1.968	0.041	1.622	0.08	1.806	0.054	-0.820	0.431	3.840	0.019
Ethnicity: Black	4.217	0.033	3.845	0.048	2.528	0.183	-0.072	0.973	9.277	0.007
Face sunscreen: 5-6 times/week	-1.921	0.184	-1.662	0.226	-0.199	0.888	0.659	0.675	-5.098	0.036
Face sunscreen: 3-4 times/week	-0.841	0.382	-0.990	0.279	-0.688	0.465	-0.788	0.45	-1.347	0.406
Face sunscreen: > 2 times/week	-1.316	0.162	-1.176	0.189	-0.497	0.588	-0.307	0.763	-2.599	0.102
Face sunscreen: Never uses	-2.254	0.634	-2.054	0.645	-2.370	0.609	0.131	0.98	-4.392	0.58
Sunscreen daily frequency Modeling										
Intercept	29.029	0.000	28.924	0.000	29.237	0.000	28.656	0.000	28.528	0.000
Sex: Male	-6.686	0.000	-6.141	0.000	-7.718	0.000	-3.107	0.002	-7.940	0.000
Age (years)	0.028	0.239	0.036	0.12	-0.053	0.024	0.071	0.007	0.096	0.019
Ethnicity: Brown	1.821	0.058	1.403	0.129	1.790	0.056	-1.016	0.33	3.563	0.029
Ethnicity: Black	4.778	0.018	4.464	0.023	2.890	0.129	0.681	0.751	9.774	0.005
Sunscreen daily frequency (1: Never +2 times/day)	0.874	0.053	0.818	0.058	0.341	0.442	0.137	0.78	1.957	0.010
Apply sunscreen + antiaging Modeling										
Intercept	35.702	0.000	35.037	0.000	34.088	0.000	31.107	0.000	40.212	0.000
Sex: Male	-8.130	0.013	-8.561	0.005	-11.942	0.000	-4.330	0.165	-7.637	0.177
Age (years)	0.000	0.993	0.008	0.849	-0.076	0.081	0.075	0.092	0.026	0.739
Ethnicity: Brown	-0.422	0.775	-0.412	0.771	-1.395	0.333	-2.331	0.116	2.413	0.345
Ethnicity: Black	-0.283	0.899	-0.287	0.9	-0.725	0.762	-3.160	0.21	2.172	0.568
Apply sunscreen + antiaging	-3.848	0.001	-3.558	0.002	-3.558	0.002	-2.964	0.011	-4.693	0.022
Do not apply sunscreen + antiaging Modeling										
Intercept	32.704	0.000	32.608	0.000	31.974	0.000	29.901	0.000	35.432	0.000
Sex: Male	-12.837	0.000	-13.513	0.000	-14.698	0.000	-10.618	0.001	-12.905	0.03
Age (years)	-0.004	0.935	-0.002	0.96	-0.099	0.031	0.055	0.27	0.046	0.597
Ethnicity: Brown	0.139	0.934	0.149	0.926	-1.128	0.465	-1.971	0.251	3.104	0.284
Ethnicity: Black	-1.369	0.604	-2.440	0.359	-3.258	0.204	-5.163	0.078	1.302	0.775
Do not apply sunscreen + antiaging	1.551	0.217	1.772	0.142	2.316	0.047	1.204	0.352	1.912	0.38

Fig S3 – Statistical models residuals diagnostic plots for (1) – General Model, (2) Regional Model, (3) Post. Hand, (4) Forearm, (5) Submalar, respectively.

