

Changes in dermatological complaints among healthcare professionals during the COVID-19 outbreak in Turkey

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Supplementary Table 1 | Survey questions: Complaints related to various dermatological diseases before and after onset of COVID-19 outbreak.

No.	Question		No	Yes
			0 points	1–10 points
1	Was/Is there any dryness or fissures on the hands? (xerosis cutis on hands)	Before		
		After		
2	Was/Is there any redness, edema, weeping, crusting, burning, pain, or pruritus on the hand skin? (hand eczema)	Before		
		After		
3	Was/Is there any redness, dryness, fissures, weeping, crusting, burning, pain, or pruritus on the face skin? (facial xerosis, eczema)	Before		
		After		
4	Was/Is there any redness, dryness, fissures, weeping, crusting, burning, pain, or pruritus on the body skin? (body xerosis, eczema)	Before		
		After		
5	Was/Is there any acne or pimples on the face? (acne, folliculitis on the face)	Before		
		After		
6	Were/Are there any active hair-loss complaints, except in the form of round patches? (hair loss other than alopecia areata)	Before		
		After		
7	Was/Is there any excessive sweating on the palms? (palmar hyperhidrosis)	Before		
		After		
8	Was/Is there any drying or bleeding inside the nose (nasal mucosa)? (xeromycteria)	Before		
		After		
9	Were/Are there any red, swollen, edematous, itchy, and fading lesions within a 24-hour period on the body? (acute or chronic urticaria)	Before		
		After		
10	Were/Are there any painful, recurrent, superficial, or deep sores (aphthae, ulcers) in the mouth? (aphthous stomatitis)	Before		
		After		
11	Were/Are there any white-yellow scales or dandruff on the scalp? (seborrheic dermatitis)	Before		
		After		

Researchers asked whether the patient had these symptoms in the last week and in the first week just before the COVID-19 outbreak. The symptoms were designed to suggest a diagnosis of dermatological disease, and the disease was expressed in parentheses. 0 points = no complaints related to disease, 10 points = disease-related complaints that seriously impair quality of life.

Supplementary Table 2 | Relationship between various dermatological complaints and some parameters before COVID-19 outbreak and after 1 month.

Related factors	Disease before COVID-19				Disease after 1 month			
	Existing	None	Z	p	Existing	None	Z	p
Xerosis cutis on hands (dryness or fissures on hands)								
HADS-A score (n = 505)	-	-	-	-	8 (4)	5 (3)	-5.4	< 0.001
Age (years, n = 521)	32 (11)	32 (12)	-1.1	0.297*	32 (12)	32 (9)	-0.8	0.418*
Sex (n = 526)	Male	48 (29.6%)	114 (70.4%)	-	120 (74.5)	41 (25.5%)	-	< 0.001
	Female	190 (52.2%)	174 (47.8%)	-	354 (97.0%)	11 (3.0%)	-	< 0.001
Residence with person at high COVID-19 death risk (n = 524)	Yes	49 (42.2%)	67 (57.8%)	-	111 (94.9%)	6 (5.1%)	-	0.045
	No	187 (45.8%)	221 (54.2%)	-	354 (86.7%)	53 (13.3%)	-	
Need moisturizer (times/day, n = 525)	2 (2)	1 (2)	-5.2	< 0.001*	3 (3)	0 (2)	-6.8	< 0.001*
Handwashing (times/day, n = 523)	< 10	104 (39.0%)	163 (61.0%)	-	96 (82.8%)	20 (17.2%)	-	0.003
	≥ 10	133 (52.0%)	123 (48.0%)	-	375 (92.1%)	32 (7.9%)	-	
Handwashing time per event (seconds, n = 524)	0-9	72 (30.4%)	108 (37.6%)	-	5 (1.1%)	4 (7.7%)	-	
	10-19	131 (55.3%)	144 (50.2%)	-1.7	102 (21.7%)	9 (17.3%)	-0.6	0.519*
	20-29	30 (12.7%)	28 (9.8%)	-	283 (60.1%)	31 (59.6%)	-	
	> 30	4 (1.7%)	7 (2.4%)	-	81 (17.2%)	8 (15.4%)	-	
Using gloves (n = 524)	Yes	-	-	-	429 (91.3%)	41 (8.7%)	-	0.007
	No	-	-	-	43 (79.6%)	11 (20.4%)	-	
Glove-wearing time (hours, n = 406)†	< 2	-	-	-	141 (87.6%)	20 (12.4%)	-	0.019
	≥ 2	-	-	-	265 (94.0%)	17 (6.0%)	-	
Hand sanitizer use (n = 505)	Yes	-	-	-	438 (89.8%)	50 (10.2)	-	0.091#
	No	-	-	-	13 (76.5%)	4 (23.5%)	-	
Hand soap preference (n = 390)	Liquid	144 (42.4%)	196 (57.6%)	-	306 (90.3%)	33 (9.7%)	-	1.000#
	Bar	29 (58.0%)	21 (52.0%)	-	45 (90.0%)	5 (10.0%)	-	
Hand eczema (Redness, edema, weeping, crusting, burning, pain, or pruritus on hand skin)								
HADS-A score (n = 504)	-	-	-	-	9 (4)	7 (5)	-5.3	< 0.001
Age (years, n = 520)	32 (11)	32 (11)	-0.2	0.822*	32 (12)	33 (9)	-2.2	0.025*
Sex (n = 525)	Male	31 (19.1%)	131 (80.9%)	-	91 (55.9%)	71 (44.1%)	-	< 0.001
	Female	90 (24.8%)	273 (75.2%)	-	290 (79.9%)	73 (20.1%)	-	< 0.001
Residence with person at high COVID-19 death risk (n = 523)	Yes	26 (22.4%)	90 (77.6%)	-	98 (83.7%)	19 (16.3%)	-	0.002
	No	94 (23.1%)	313 (76.9%)	-	281 (69.2%)	125 (30.8%)	-	
Need moisturizer (times/day, n = 524)	2 (3)	1 (2)	-2.6	0.010*	3 (4)	2 (5)	-5.6	< 0.001*
Handwashing (times/day, n = 523)	1-4	11 (9.2%)	59 (14.6%)	-	2 (0.6%)	0 (0.0%)	-	
	5-9	32 (26.7%)	165 (40.9%)	-	10 (2.6%)	15 (10.5%)	-	
	10-14	43 (35.8%)	117 (29.0%)	-3.9	52 (13.7%)	37 (25.9%)	-5.1	< 0.001*
	15-19	19 (15.8%)	35 (8.7%)	-	84 (22.2%)	35 (24.5%)	-	
	> 20	15 (12.5%)	27 (6.7%)	-	230 (60.9%)	56 (39.1%)	-	
Handwashing time per event (seconds, n = 523)	0-9	38 (31.7%)	142 (35.2%)	-	3 (0.8%)	6 (4.2%)	-	
	10-19	65 (54.2%)	209 (51.9%)	-0.8	79 (20.8%)	32 (22.2%)	-2.5	0.011*
	20-29	13 (10.8%)	45 (11.2%)	-	221 (58.3%)	92 (63.9%)	-	
	> 30	4 (3.3%)	7 (1.7%)	-	76 (20.1%)	14 (9.8%)	-	
Using gloves (n = 523)	Yes	-	-	-	345 (73.4%)	125 (26.6%)	-	0.153
	No	-	-	-	34 (64.2%)	19 (35.8%)	-	
Glove-wearing time (hours, n = 491)‡	< 1	-	-	-	101 (64.7%)	55 (35.3%)	-	0.004
	≥ 1	-	-	-	258 (77.0%)	77 (23.0%)	-	
Hand sanitizer use (n = 503)	Yes	-	-	-	351 (72.2%)	135 (27.8%)	-	0.332#
	No	-	-	-	11 (64.7%)	6 (35.3%)	-	
Hand soap preference (n = 390)	Liquid	78 (22.9%)	262 (77.1%)	-	254 (74.7%)	86 (25.3%)	-	0.486
	Bar	10 (20.0%)	40 (80.0%)	-	35 (70.0%)	15 (30.0%)	-	
Body xerosis or eczema (redness, dryness, fissures, weeping, crusting, burning, pain, or pruritus on body skin)								
HADS-A score (n = 503)	-	-	-	-	9 (5)	8 (5)	-3.0	0.002
Age (years, n = 519)	33 (13)	32 (12)	-1.6	0.107	34 (12)	32 (10)	-1.0	0.331
Sex (n = 524)	Male	30 (18.5%)	132 (81.5%)	-	51 (31.7%)	110 (68.3%)	-	< 0.001
	Female	88 (24.3%)	274 (75.7%)	-	189 (52.2%)	173 (47.8%)	-	< 0.001
Residence with person at high COVID-19 death risk (n = 522)	Yes	22	94	-	57 (49.1%)	59 (50.9%)	-	0.397
	No	96	310	-	181 (44.7%)	225 (55.3%)	-	
Shower frequency per week (n = 522)	3 (2)	3 (2)	-2.7	0.006	6 (3)	5 (3)	-4.6	< 0.001

HADS-A = Hospital Anxiety and Depression Scale-Anxiety (0 to 21 points), *Mann-Whitney U test used and expressed as data median (interquartile range) or number of participants (column percentage), whichever was appropriate, #Fisher's exact test used and data expressed as number of participants (raw percentage). For others, Pearson's chi-square test was used and the data are expressed as the number of participants (raw percentage). †Participants that never used relevant PPE excluded, ‡participants that never used relevant PPE also included in analysis.

Supplementary Table 2 | Continued.

Related factors	Disease before COVID-19				Disease after 1 month			
	Existing	None	Z	p	Existing	None	Z	p
Facial xerosis or eczema (redness, dryness, fissures, weeping, crusting, burning, pain, or pruritus on face skin)								
HADS-A score (n = 503)	-	-	-	-	9 (4)	7 (5)	-3.6	< 0.001
Age (years, n = 520)	35 (11)	32 (12)	-2.3	0.023*	33.5 (13)	32 (10)	-0.4	0.689*
Sex (n = 524)	Male	16 (9.9%)	145 (90.1%)	-	189 (52.2)	173 (47.8%)	-	< 0.001
	Female	81 (22.3%)	282 (77.7%)	-	41 (25.5%)	120 (74.5%)	-	< 0.001
Residence with person at high COVID-19 death risk (n = 522)	Yes	19 (16.5%)	96 (83.5%)	-	62 (53.9%)	53 (46.1%)	-	0.017
Diabetes mellitus (n = 524)	No	78 (19.2%)	329 (78.8%)	-	168 (44.1%)	238 (58.6%)	-	0.017
	Yes	8 (50.0%)	8 (50.0%)	-	11 (68.8%)	5 (31.2%)	-	0.041
Hypertension (n = 524)	No	89 (17.5%)	419 (82.5%)	-	210 (41.3%)	298 (58.7%)	-	0.041
	Yes	8 (38.1%)	13 (61.9%)	-	12 (57.1%)	9 (42.9%)	-	0.215
Face washing (times/day, n = 512)	No	89 (17.7%)	414 (82.3%)	-	218 (43.3%)	285 (56.7%)	-	0.215
	Yes	3 (3)	3 (3)	-0.5	5 (4)	4.5 (4)	-3.3	0.001*
Face wash product (n = 522)	Soap	73 (18.7%)	318 (81.3%)	-	187 (46.7%)	208 (53.3%)	-	0.031
	Tap water	24 (18.3%)	107 (81.7%)	-	47 (35.9%)	84 (64.1%)	-	0.031
Shower frequency per week (n = 521)	3 (2)	3 (2)	-2.0	0.046*	6 (3)	5 (3)	-3.5	< 0.001*
Use of face masks in hospital (n = 517)	Yes	-	-	-	220 (44.0%)	280 (56.0%)	-	0.803
	No	-	-	-	8 (47.1%)	9 (52.9%)	-	0.803
Mask wearing time (hours/week, n = 461)†	-	-	-	-	-	40 (21)	-1.0	0.317*
Wearing goggles/visor (hours/day, n = 486)‡	-	-	-	-	-	1 (6)	-1.7	0.086*
Acne or folliculitis on face (acne or pimples on face)								
HADS-A score (n = 505)	-	-	-	-	9 (4)	7.5 (5)	-3.7	< 0.001
Age (years, n = 520)	30 (9)	34 (10)	-6.0	< 0.001*	30 (9)	35 (10)	-6.5	< 0.001*
Sex (n = 525)	Male	27 (16.8%)	134 (83.2%)	-	36 (22.4%)	125 (77.6%)	-	< 0.001
	Female	112 (30.8%)	252 (69.2%)	-	171 (47.0%)	193 (53.0%)	-	< 0.001
Residence with person at high COVID-19 death risk (n = 523)	Yes	32 (27.8%)	83 (72.2%)	-	46 (40.0%)	69 (60.0%)	-	0.879
Diabetes mellitus (n = 525)	No	106 (26.0%)	302 (74.0%)	-	160 (39.2%)	248 (60.8%)	-	0.879
	Yes	7 (43.8%)	9 (56.3%)	-	9 (56.3%)	7 (43.7%)	-	0.162
Hypertension (n = 525)	No	132 (25.9%)	137 (74.1%)	-	198 (38.9%)	311 (61.1%)	-	0.162
	Yes	4 (19.0%)	17 (81.0%)	-	7 (33.3%)	14 (66.7%)	-	0.560
Use of face masks in hospital (n = 519)	No	135 (26.8%)	369 (73.2%)	-	200 (39.7%)	304 (60.3%)	-	0.560
	Yes	-	-	-	202 (40.2%)	300 (59.8%)	-	0.018
Mask-wearing time (hours/week, n = 446) †	-	-	-	-	2 (11.8%)	15 (88.2%)	-	0.018
Wearing goggles/visor (hours/day, n = 488) ‡	-	-	-	-	40 (15)	40 (16)	-0.2	0.835*
Face washing (times/day, n = 514)	3 (3)	3 (3)	-0.4	0.711*	2 (7)	1 (6)	-0.9	0.388*
Face wash product (n = 523)	Soap	-	-	-	5 (4)	5 (4)	-0.8	0.453*
	Tap water	-	-	-	163 (41.6%)	229 (58.4%)	-	0.053
Shower frequency per week (n = 522)	3 (2)	3 (2)	-0.1	0.886*	42 (32.1%)	89 (67.9%)	-	0.053
Hair loss (any active hair loss complaints, except in form of round patches)								
Sex (n = 503)	Male	57 (36.1%)	102 (63.9%)	-	48 (30.4%)	110 (69.6%)	-	0.886
	Female	100 (29.0%)	245 (71.0%)	-	107 (31.0%)	238 (69.0%)	-	0.886
Age in men (years, n = 156)	32 (9)	32 (8)	-0.5	0.588*	31.5 (9)	33 (9)	-1.8	0.073*
HADS-A score (n = 336)	-	-	-	-	7 (7)	7 (5)	-0.6	0.528*
Residence with person at high COVID-19 death risk (n = 344)	Yes	23 (26.7%)	63 (73.3%)	-	27 (31.4%)	59 (68.6%)	-	0.946
	No	77 (29.3%)	181 (70.2%)	-	80 (31.0%)	178 (69.0%)	-	0.946
Shower frequency per week (n = 158)	3 (2)	3 (3)	-0.2	0.877*	3 (2)	3 (2)	-0.3	0.781*
Diabetes mellitus (n = 158)	Yes	0 (0.0%)	0 (0.0%)	-	0 (0.0%)	0 (0.0%)	-	-
	No	57 (36.1%)	101 (63.9%)	-	48 (30.4%)	110 (69.6%)	-	-
Hypertension (n = 158)	Yes	0 (0.0%)	3 (100.0%)	-	0 (0.0%)	3 (100.0%)	-	0.554#
	No	57 (36.8%)	98 (63.2%)	-	48 (30.4%)	110 (69.6%)	-	0.554#
Age in women (years, n = 336)	31 (12)	34 (12)	-1.8	0.079*	32 (13)	33 (12)	-0.4	0.675*
HADS-A score (n = 336)	-	-	-	-	9 (5)	8 (5)	-2.6	0.009*
Residence with person at high COVID-19 death risk (n = 344)	Yes	23 (26.7%)	63 (73.3%)	-	27 (31.4%)	59 (68.6%)	-	0.946
	No	77 (29.3%)	181 (70.2%)	-	80 (31.0%)	178 (69.0%)	-	0.946
Shower frequency per week (n = 344)	3 (2)	3 (2)	-0.8	0.124*	3 (2)	3 (2)	-1.2	0.226*
Diabetes mellitus (n = 345)	Yes	5 (35.7%)	9 (64.3%)	-	6 (42.9%)	8 (57.1%)	-	0.379#
	No	95 (28.7%)	236 (71.3%)	-	101 (31.5%)	230 (69.5%)	-	0.379#
Hypertension (n = 345)	Yes	3 (18.8%)	13 (81.3%)	-	5 (31.3%)	11 (68.8%)	-	1.000#
	No	97 (29.5%)	232 (70.5%)	-	102 (31.0%)	227 (69.0%)	-	1.000#

HADS-A = Hospital Anxiety and Depression Scale-Anxiety (0 to 21 points), *Mann-Whitney U test used and expressed as data median (interquartile range) or number of participants (column percentage), whichever appropriate, #Fisher's exact test used and data expressed as number of participants (raw percentage). In others, Pearson's chi-square test was used and the data are expressed as the number of participants (raw percentage). †Participants that never used relevant PPE excluded, ‡participants that never used relevant PPE also included in analysis.

T Supplementary Table 2 | Continued.

Related factors	Disease before COVID-19				Disease after 1 month				
		Existing	None	Z	p	Existing	None	Z	p
Palmar hyperhidrosis (excessive sweating on palms)									
HADS-A score (n = 505)		–	–	–	–	9 (4)	8 (6)	–1.0	0.315
Age (years, n = 520)		30 (9)	33 (11)	–1.4	< 0.001*	28 (12)	33 (10)	–4.1	< 0.001*
Sex (n = 525)	Male	21 (13.0%)	140 (87.0%)			50 (13.8%)	–		
	Female	31 (8.6%)	331 (91.4%)	–	0.114	27 (16.7%)	135 (83.3%)	–	0.387
Residence with person at high COVID-19 death risk (n = 521)	Yes	8 (7.0%)	107 (93.0%)			17 (14.7%)	99 (85.3%)		
	No	44 (10.8%)	362 (89.2%)	–	0.220	60 (14.7%)	347 (85.3%)	–	0.981
Handwashing (times/day, n = 523)	1–4	2 (4.0%)	68 (14.5%)			1 (1.3%)	1 (0.2)		
	5–9	20 (40.0%)	175 (37.2%)			1 (1.3%)	24 (5.4%)		
	10–14	22 (44.0%)	138 (29.4%)	–0.9	0.372*	9 (11.7%)	80 (18.0%)	–0.8	0.429*
	15–19	3 (6.0%)	50 (10.6%)			23 (29.9%)	96 (21.6%)		
	> 20	3 (6.0%)	39 (8.3%)			43 (55.8%)	245 (54.8%)		
Handwashing time per event (seconds, n = 523)	0–9	17 (32.7%)	163 (34.8%)			2 (2.6%)	7 (1.6%)		
	10–19	30 (57.7%)	242 (51.6%)	–0.1	0.947*	15 (19.7%)	96 (21.5%)	–0.3	0.803*
	20–29	3 (5.8%)	55 (11.7%)			45 (59.2%)	269 (60.2%)		
	> 30	2 (3.8%)	9 (1.9%)			14 (18.4%)	75 (16.8%)		
Hand sanitizer use (n = 494)	Yes	–	–			56 (11.8%)	421 (88.2%)		
	No	–	–	–	–	1 (5.9%)	16 (94.1%)	–	0.707#
Hand soap preference (n = 389)	Liquid	37 (10.9%)	302 (89.1%)			52 (15.3%)	287 (84.7%)		
	Bar	4 (8.0%)	46 (97.0%)	–	0.523	5 (10.0%)	45 (90.0%)	–	0.319
Using gloves (n = 524)	Yes	–	–			75 (16.0%)	395 (84.0%)		
	No	–	–	–	–	2 (3.7%)	52 (96.3%)	–	0.016
Glove-wearing time (n = 443) †		–	–			6 (1.8)	6 (1.7)	–0.5	0.599*
Need moisturizer (times/day, n = 525)		1 (2)	1 (2)	–1.2	0.223*	3 (4)	3 (4)	–0.5	0.587*
Xeromycteria (drying or bleeding inside nose, nasal mucosa)									
HADS-A score (n = 506)		–	–	–	–	9 (5)	8 (5)	–3.0	0.003
Age (years, n = 518)		32 (12)	32 (11)	–0.2	0.834*	33 (12)	32 (11)	–0.8	0.432*
Sex (n = 525)	Male	28 (17.4%)	133 (82.6%)			35 (21.6%)	127 (78.4%)		
	Female	57 (15.7%)	305 (84.3%)	–	0.638	102 (28.1%)	261 (71.9%)	–	0.118
Residence with person at high COVID-19 death risk (n = 523)	Yes	15 (12.8%)	102 (87.2%)			24 (20.7%)	92 (79.3%)		
	No	70 (17.3%)	336 (82.7%)	–	0.263	112 (27.5%)	295 (72.5%)	–	0.139
Nasal washout with any liquid	Yes	–	–			35 (32.7%)	72 (67.3%)		
	No	–	–	–	–	85 (21.8%)	305 (78.2%)	–	0.019
Face washing (times/day, n = 518)		3 (3)	3 (3)	–0.5	0.623*	5 (4)	5 (4)	–1.6	0.101*
Face wash product (n = 523)	Soap	62 (15.9%)	329 (84.1%)			104 (26.5)	288 (73.5%)		
	Tap water	23 (17.6%)	109 (82.4%)	–	0.656	33 (25.2%)	98 (74.8%)	–	0.763
Acute or chronic urticaria (red, swollen, edematous, itchy, and fading lesions within a 24-hour period on body)									
HADS-A score (n = 477)		–	–	–	–	9 (5)	8 (6)	–2.9	0.003
Age (years, n = 519)		32 (14)	32 (11)	–0.5	0.602*	33 (14)	32 (11)	–0.2	0.810*
Sex (n = 524)	Male	14 (8.6%)	148 (91.4%)			81 (22.4%)	281 (77.6%)		
	Female	40 (11.0%)	322 (89.0%)	–	0.402	19 (11.7%)	179 (88.3%)	–	0.004
Residence with person at high COVID-19 death risk (n = 522)	Yes	18 (15.7%)	97 (84.3%)			30 (26.1%)	85 (73.9%)		
	No	36 (8.8%)	371 (91.2%)	–	0.034	70 (17.2%)	337 (82.8%)	–	0.032
Diabetes mellitus (n = 524)	Yes	6 (37.5%)	10 (62.5%)			8 (50.0%)	8 (50.0%)		
	No	48 (9.4%)	460 (90.6%)	–	0.003#	92 (18.1%)	416 (91.9%)	–	0.005
Hypertension (n = 524)	Yes	5 (23.8%)	16 (76.2%)			7 (33.3%)	14 (66.7%)		
	No	49 (9.7%)	454 (90.3%)	–	0.054#	93 (18.5%)	410 (81.5%)	–	0.095
Aphthous stomatitis (Painful, recurrent, superficial or deep sores (aphthae, ulcer) in mouth)									
HADS-A score (n = 504)		–	–	–	–	9 (6)	8 (6)	–1.6	0.116
Age (years, n = 519)		32 (8)	32 (11)	–0.6	0.563*	32 (11)	32 (11)	–0.7	0.458*
Sex (n = 524)	Male	19 (11.8%)	142 (88.2%)			25 (15.5%)	136 (84.5%)		
	Female	48 (13.2%)	315 (86.8%)	–	0.653	75 (20.7%)	288 (79.3%)	–	0.168
Residence with person at high COVID-19 death risk (n = 522)	Yes	19 (16.5%)	96 (83.5%)			30 (26.1%)	85 (73.9%)		
	No	48 (11.8%)	359 (88.2%)	–	0.181	70 (17.2%)	337 (82.8%)	–	0.032
Diabetes mellitus (n = 524)	Yes	6 (37.5%)	10 (62.5%)			7 (43.8%)	9 (56.3%)		
	No	61 (12.0%)	447 (88.0%)	–	0.010#	93 (18.3%)	415 (81.7%)	–	0.019#
Mouthwash with disinfectants (n = 494)	Yes	–	–			15 (14.4%)	89 (85.6%)		
	No	–	–	–	–	62 (15.9)	328 (84.1%)	–	0.713
Use of face masks in hospital (n = 518)	Yes	–	–			97 (19.4%)	404 (80.6%)		
	No	–	–	–	–	2 (11.8)	15 (88.2%)	–	0.753#

HADS-A = Hospital Anxiety and Depression Scale–Anxiety (0 to 21 points), *Mann–Whitney U test used and expressed as data median (interquartile range) or number of participants (column percentage), whichever was appropriate. #Fisher's exact test used and data expressed as number of participants (raw percentage). For others, Pearson's chi-square test was used and the data are expressed as the number of participants (raw percentage). †Participants that never used relevant PPE excluded, #participants that never used relevant PPE also included in analysis.

Supplementary Table 2 | Continued.

Related factors	Disease before COVID-19				Disease after 1 month				
		Existing	None	Z	p	Existing	None	Z	p
Seborrheic dermatitis (white-yellow scales or dandruff on scalp)									
HADS-A score (<i>n</i> = 504)		–	–	–	–	9 (4)	8 (6)	–2.3	0.023
Age (years, <i>n</i> = 519)		32 (8)	32 (12)	–2.1	0.036*	32 (10)	32 (12)	–1.8	0.075*
Sex (<i>n</i> = 525)	Male	36 (22.2%)	126 (77.8%)	–	0.316	46 (28.4%)	116 (71.6%)	–	0.394
	Female	67 (18.5%)	296 (81.5%)	–	0.316	90 (24.8%)	273 (75.2%)	–	0.394
Residence with person at high COVID-19 death risk (<i>n</i> = 523)	Yes	24 (20.7%)	92 (79.3%)	–	0.760	32 (27.6%)	84 (72.4%)	–	0.670
Diabetes mellitus (<i>n</i> = 525)	No	79 (19.4%)	328 (80.6%)	–	0.760	104 (25.6%)	302 (74.4%)	–	0.670
	Yes	5 (31.3%)	11 (68.8%)	–	0.216#	7 (43.8%)	9 (56.3%)	–	0.142
Hypertension (<i>n</i> = 525)	No	98 (19.3%)	411 (80.7%)	–	0.216#	129 (25.4%)	379 (74.6%)	–	0.142
	Yes	4 (19.0%)	17 (81.0%)	–	1.000#	4 (19.0%)	17 (81.0%)	–	0.461
Shower frequency per week (<i>n</i> = 523)	No	99 (19.6%)	405 (80.4%)	–	1.000#	132 (26.2%)	371 (73.8%)	–	0.461
		5 (2)	5 (2)	–0.1	0.931*	5 (3)	5 (3)	–0.9	0.380*

HADS-A = Hospital Anxiety and Depression Scale–Anxiety (0 to 21 points), *Mann–Whitney U test used and expressed as data median (interquartile range) or number of participants (column percentage), whichever was appropriate. #Fisher's exact test used and data expressed as number of participants (raw percentage). For others, Pearson's chi-square test was used and the data are expressed as the number of participants (raw percentage). †Participants that never used relevant PPE excluded, #participants that never used relevant PPE also included in analysis.