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Appendix S1. Quality of life and costs in atopic dermatitis patients interview questionnaire

[1] Quality of life

A. Dermatology Life Quality Index (DLQI)

1. Over the last weak how itahy care pointy on stinging has your strip	1 - Vom much
1. Over the last week, how itchy, sore, painful or stinging has your skin	1. \Box Very much
been?	2. \Box A lot
	$3. \square A little$
	4. \square Not at all
2. Over the last week, how embarrassed or self-conscious have you been	1. \Box Very much
because of your skin?	2. \Box A lot
	3. \square A little
	4. \square Not at all
3. Over the last week, how much has your skin interfered with you going	1. \Box Very much
shopping or looking after your home or garden?	2. \square A lot
	3. \square A little
	4. \square Not at all
	5. □ Not relevant
4. Over the last week, how much has your skin influenced the clothes you	1. □ Very much
wear?	2. \Box A lot
	3. □ A little
	4. \square Not at all
	5. □ Not relevant
5. Over the last week, how much has your skin affected any social or	1. \Box Very much
leisure activities?	2. \Box A lot
	3. □ A little
	4. \square Not at all
	5. □ Not relevant
6. Over the last week, how much has your skin made it difficult for you to	1. □ Very much
do any sport?	2. □ A lot
	3. □ A little
	4. \square Not at all
	5. □ Not relevant
	1

7-1. Over the last week, has your skin prevent you from working or	1. □ Yes
studying?	2. □ No
	3. □ Not relevant
7-2. If 'no', over the last week, how much has your skin been a problem at	1. □ A lot
working and studying?	2. □ A little
	3. \Box Not at all
8. Over the last week, how much has your skin created problems with your	1. □ Very much
partner or any close friends or relatives?	2. \Box A lot
	3. □ A little
	4. □ Not at all
	5. □ Not relevant
9. Over the last week, how much has your skin caused any sexual	1. □ Very much
difficulties?	2. \Box A lot
	3. □ A little
	4. \square Not at all
	5. □ Not relevant
10. Over the last week, how much of a problem has the treatment for your	1. □ Very much
skin been, for example by making your home messy, or by taking up time?	2. \Box A lot
	3. □ A little
	4. □ Not at all
	5. □ Not relevant

B. Pittsburgh Sleep Quality Index (PSQI)

Your answers should indicate the most accurate reply for the majority of days and nights in the past month. Please answer all questions.

1. During the past month, what time have you usually gone to bed at night? _____

2. During the past month, how long (in minutes) has it usually taken you to fall asleep each night?

3. During the past month, what time have you usually gotten up in the morning?

4. During the past month, how many hours of actual sleep did you get at night?

5. During the past month, how often have you had	Not during	Less than	Once or	Three or
trouble sleeping because you	the past	once a week	twice a	more times
	month		week	a week
a. Cannot get to sleep within 30 minutes				
b. Wake up in the middle of the night or early				
morning				
c. Have to get up to use the bathroom				
d. Cannot breathe comfortably				
e. Cough or snore loudly				
f. Feel too cold				
g. Feel too hot				
h. Have bad dreams				
i. Have pain				
j. Other reason(s), please describe:				
6. During the past month, how often have you				
taken medicine to help you sleep (prescribed or				
"over the counter")				
7. During the past month, how often have you had				
trouble staying awake while driving, eating meals,				
or engaging in social activity?				
	No problem	Only a very	Somewhat	A very big
	at all	slight	of a	problem
		problem	problem	
8. During the past month, how much of a problem				
has it been for you to keep up enough enthusiasm				
to get things done?				
	Very good	Fairly good	Fairly bad	Very bad
9. During the past month, how would you rate				
your sleep quality overall?				
	No bed	Partner/room-	Partner in	Partner in
	partner or	mate in other	same	same bed
	room mate	room	room but	

			not same	
			bed	
10. Do you have a bed partner or roommate?				
	Not during	Less than	Once or	Three or
	the past	once a week	twice a	more times
	month		week	a week
If you have a roommate or bed partner, ask				
him/her how often in the past month you have				
had:				
a. Loud snoring				
b. Long pauses between breaths while asleep				
c. Legs twitching or jerking while you sleep				
d. Episodes of disorientation or confusion during				
sleep				
e. Other restlessness while you sleep, please				
describe:				

C. Hospital Anxiety and Depression Scale (HADS)

Tick the box beside the reply that is closest to how you have been feeling in the past week. Don't take too long over you replies: your immediate is best.

1. I feel tense or 'wound up':	8. I feel as if I am slowed down:
□ Most of the time	□ Nearly all the time
□ A lot of the time	□ Very often
□ From time to time, occasionally	Sometimes
□ Not at all	□ Not at all
2. I still enjoy the things I used to enjoy:	9. I get a sort of frightened feeling like 'butterflies'
Definitely as much	in the stomach:
□ Not quite so much	□ Very often
□ Only a little	Quite often
□ Hardly at all	Occasionally
	□ Not at all
3. I get a sort of frightened feeling as if something	10. I have lost interest in my appearance:
awful if about to happen:	Definitely

□ Very definitely and quite badly	□ I don't take as much care as I should
□ Yes, but not too badly	□ I may not take quite as much care
□ A little, but it doesn't worry me	□ I take just as much care as ever
□ Hardly at all	
4. I can laugh and see the funny side of things	11. I feel restless as I have to be on the move:
□ As much as I always could	□ Very much needed
□ Not quite so much now	□ Quite a lot
□ Definitely not so much now	□ Not very much
□ Not at all	□ Not at all
5. Worrying thoughts go through my mind:	12. I look forward with enjoyment to things:
□ A great deal of the time	□ As much as I ever did
\Box A lot of the time	□ Rather less than I used to
□ From time to time, but not too often	□ Definitely less than I used to
Only occasionally	□ Hardly at all
6. I feel cheerful:	13. I get sudden feelings of panic:
□ Not at all	□ Very often indeed
□ Not often	Quite often
	□ Not very often
□ Most of the time	□ Not at all
7. I can sit at ease and feel relaxed:	14. I can enjoy a good book or radio or TV
Definitely	program:
□ Usually	□ Often
\square Not often	Sometimes
□ Not at all	□ Not often
	□ Very seldom

<u>D. EQ-5D-5L</u>

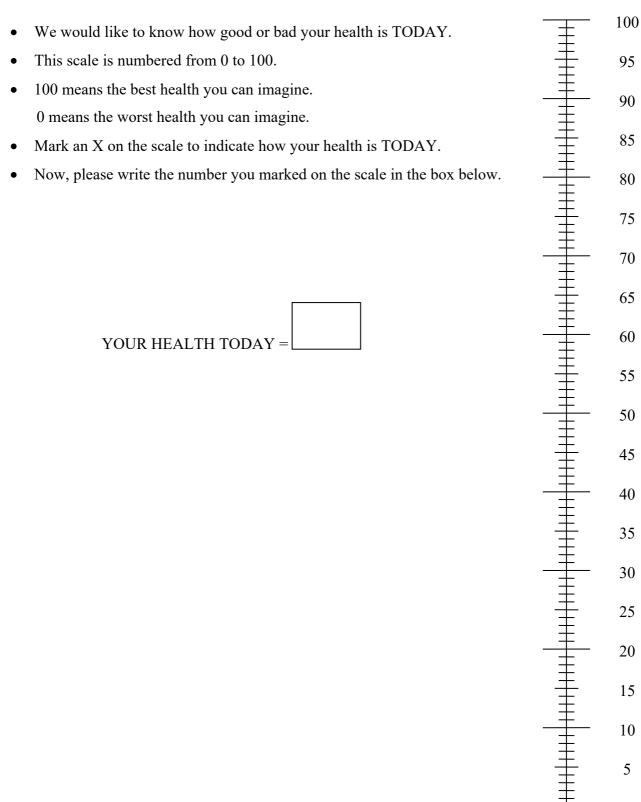
Under each heading, please tick the ONE box that best describes your health TODAY

Mobility	
1. I have no problem in walking about	1. 🗆
2. I have sight problems in walking about	2. 🗆
3. I have moderate problems in walking about	3. 🗆
4. I have severe problems in walking about	4. 🗆

5. I am unable to walk about	5. □
Self-care	
1. I have no problems washing or dressing myself	1. 🗆
2. I have slight problems washing or dressing myself	2. 🗆
3. I have moderate problems washing or dressing myself	3. □
4. I have severe problems washing or dressing myself	4. □
5. I am unable to wash or dress myself	5. □
Usual activities (e.g. work, study, housework, family	
or leisure activities)	1. 🗆
1. I have no problems doing my usual activities	2. 🗆
2. I have slight problems doing my usual activities	3. □
3. I have moderate problems doing my usual activities	4. □
4. I have severe problems doing my usual activities	5. 🗆
5. I am unable to do my usual activities	
Pain/Discomfort	
1. I have no pain or discomfort	1. 🗆
2. I have slight pain or discomfort	2. □
3. I have moderate pain or discomfort	3. □
4. I have severe pain or discomfort	4. □
5. I have extreme pain or discomfort	5. □
Anxiety/Depression	
1. I am not anxious or depressed	1. 🗆
2. I am slightly anxious or depressed	2. 🗆
3. I am moderately anxious or depressed	3. □
4. I am severely anxious or depressed	4. □
5. I am extremely anxious or depressed	5. □



you can imagine



The worst health 0 you can imagine

[2] Work Productivity and Activity Impairment Questionnaire:

Atopic Dermatitis v2.0 (WPAI:AD)

The following questions ask about the effect of your problems associated with atopic dermatitis on your ability to work and perform regular activities.

1) Are you currently employed (working for pay)? _____NO ____YES

If NO, check "NO" and skip to question 6.

The next questions are about the **past seven days**, not including today.

2) During the past seven days, how many hours did you miss from work because of problems associated with atopic dermatitis? Include hours you missed on sick days, times you went in late, left early, etc., because of atopic dermatitis. Do not include time you missed to participate in this study. hours

3) During the past seven days, how many hours did you miss from work because of any other reason, such as vacation, holidays, time off to participate in this study?

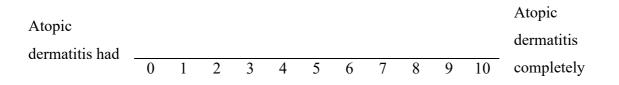
<u>hours</u>

4) During the past seven days, how many hours did you actually work?
_____hours (If "0", skip to question 6.)

5) During the past seven days, how much did atopic dermatitis affect your productivity <u>while you were</u> <u>working</u>?

Think about days you were limited in the amount or kind of work you could do, days you accomplished less than you would like, or days you could not do your work as carefully as usual. If atopic dermatitis affected your work only a little, choose a low number. Choose a high number if atopic dermatitis affected your work a great deal.

Consider only how much atopic dermatitis affected productivity while you were working



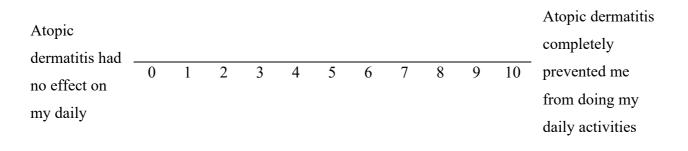
no effect on work prevented me from working

CIRCLE A NUMBER

6) During the past seven days, how much did atopic dermatitis affect your ability to do your regular daily activities, other than work at a job?

By regular activities, we mean the usual activities you do, such as work around the house, shopping, child care, exercising, studying, etc. Think about times you were limited in the amount or kind of activities you could do and times you accomplished less than you would like. If atopic dermatitis affected your work only a little, choose a low number. Choose a high number if atopic dermatitis affected your work a great deal.

Consider only how much atopic dermatitis affected your ability to do your regular daily activities, other than work at a job.



CIRCLE A NUMBER

[3] Non-medical costs and out-of-pocket medical expenses

1. During the past three months, have you seen a doctor at an outpatient clinic because of atopic dermatitis?

1. \Box yes (answer question 1.1) 2. \Box no (skip to question 2)

1.1 For your most recent outpatient visit because of atopic dermatitis, what type of transportation did you use to go to the hospital or clinic? How much was the fare and travel time?

1.□ by means with no extra fare such as walk, bicycle or hitchhiking, etc., with travel time of ______ hour(s) for each way

2.□ by High Speed Rail, train, Mass Rapid Transit, bus, or taxi, etc., with travel time of _____ hour(s) and transportation fare of NTD_____ for each way

 $3.\square$ by car, with travel time of _____ hour(s) for each way

4. \Box by motorcycle, with travel time of _____ hour(s) for each way

5. other means which is _____, with travel time of ____ hour(s) and transportation fare of

NTD_____ for each way

1.2 For your most recent outpatient visit because of atopic dermatitis, how many hours did it take from entering to leaving the hospital or clinic?

1. \Box less than 1 hour2. \Box 1 to 3 hours3. \Box 3 to 5 hours4. \Box 5 to 8 hours5. \Box 8 to 12 hours6. \Box more than 12 hours

1.3 For your most recent outpatient visit because of atopic dermatitis, how much out-of-pocket expense did you pay to the hospital or clinic? NTD_____

1.4 For your most recent outpatient visit because of atopic dermatitis, did any family members or friends accompany you to the hospital or clinic?

1. \Box no 2. \Box yes

2. During the past year, have you been hospitalized because of atopic dermatitis?

1. \Box yes (answer question 2.1) 2. \Box no (skip to question 3)

2.1 For your most recent hospitalization because of atopic dermatitis, how long was the hospital length of stay? ____day(s)

2.2 For your most recent hospitalization because of atopic dermatitis, how much out-of-pocket expense did you pay to the hospital or clinic? NTD_____

2.3 For your most recent hospitalization because of atopic dermatitis, did any family members or friends accompany you during hospitalization?

1. \Box no 2. \Box yes, he/she spent ____hour(s) per day on average.

2.4 For your most recent hospitalization because of atopic dermatitis, did you pay for any of the following personnel to take care of you in the hospital?

Caring staff	Days and Costs
2.4.1 Caregiver	$1.\Box$ yes, for days, costing NTD per day.
	2.□ no
2.4.2 Clinical nurse specialist	$1.\Box$ yes, for days, costing NTD per day.
	2.□ no
2.4.3 Foreign domestic worker	$1.\Box$ yes, for days, costing NTD per day.
	2.□ no
2.4.4 Other:	$1.\Box$ yes, for days, costing NTD per day.
	2.□ no

3. During the past year, have you spent money on any of the following self-paid medical services or treatment because of atopic dermatitis?

Treatment or related supplements	Costs
3.1 seeing a Chinese medical doctor/taking	$1.\Box$ yes, costing NTD for the past year
Chinese medicine	2.□ no
3.2 folk remedies or medicine such as foot	$1.\Box$ yes, costing NTD for the past year
massage, manipulation, herbal medicine,	2.□ no
etc.	
3.3 health food, dietary supplements,	$1.\Box$ yes, costing NTD for the past year
vitamins, etc.	2.□ no
3.4 Other: topical medicine, equipment,	$1.\Box$ yes, costing NTD for the past year
devices or medical services, etc. Please	2.□ no
describe:	

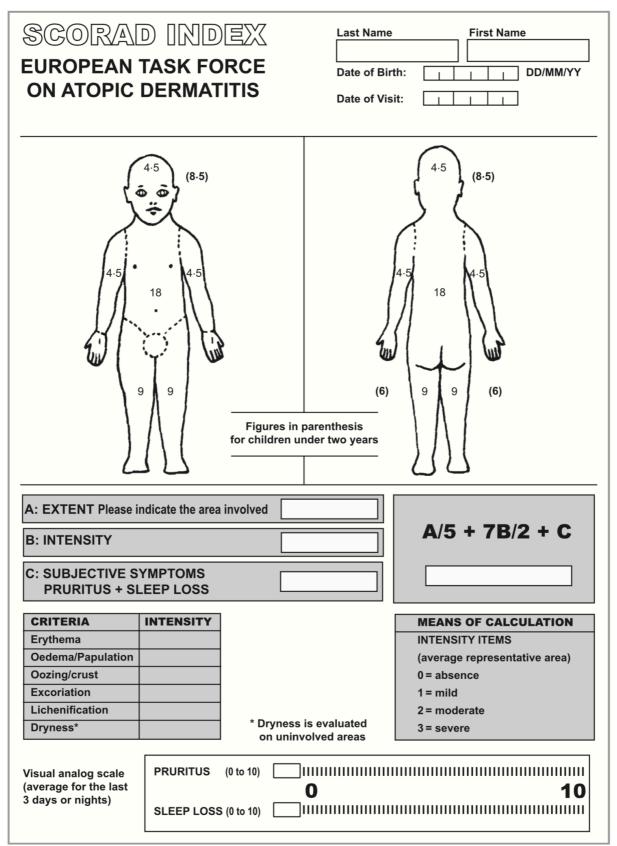
[4] Patient information

1. Sex : $1.\Box$ male $2.\Box$ female		
2. Year of birth:		
3. Height:cm; Body weigh	t:kg	
4. Educational background:		
$1.\square$ elementary school or less	$2.\square$ middle school	3. \Box senior high school
4.□ college/university	5. Master/PhD	
5. Current marital status:		
$1.\square$ never married		
2. \Box married, and currently live	ving together	
$3.\square$ married, but currently se	ldom living together	
$4.\square$ married, but officially se	parated	
5. \Box divorced		
6. widowed		
7. □ other:		
6.How much is the average mor	thly income of your ho	ousehold (in NTD)?
(The household refers to the sa	lary, rent, investment i	ncome, living expenses from children or spouses, etc.)
1.□ less than 14999	2.□ 15000 to 29999	3.□ 30000 to 49999
4.□ 50000 to 69999	5. 70000 to 99999	6.□ 100000 to 149999
7. 150000 to 199999	8.□ above 200000	
7. Have you been suffering from	n chronic, persistent or	relapsing eczema for over 6 months?
1. \Box yes 2. \Box no		
8. Do you have atopic diseases	such as allergic rhinitis	or asthma?
1. \Box yes 2. \Box no		
9. Does any of your family men	bers have atopic diseas	ses such as allergic rhinitis, asthma or atopic
dermatitis?		
1.□ yes 2.□ no		

10. It has been _____ years since the onset of your atopic dermatitis.

[5] Disease severity

SCORing Atopic Dermatitis (SCORAD)



Derived from the report of the European Task Force on Atopic Dermatitis