Table SI. Definitions of item performance features used in classical test theory

Item	Item performance feature	Definition
1	Item difficulty	Proportion of missing scores among the 721 respondents. Item difficulty was considered high if 10% or more of scores were missing.
2	Response distribution	The proportion of patients who responded to each item with the same response was determined. An item was described as having a poor distribution if > 70% of patients had chosen the same response.
3	Item-test correlation	The Spearman's correlation coefficients (r) of each item with its subscale were calculated. If the r of an item differed >0.1 with the r of the other items in the subscalea, it was considered suboptimal.
4	Item-rest correlation	The Spearman's correlation coefficients (r) of each item with the sum of the other items in that subscalea were calculated. Suboptimal item-rest correlation was defined as r<0.20
5	Item discriminant validity	We compared the item-rest correlation coefficients with the correlation coefficients of an item with the other subscales <sup>a</sup> . If the former equalled or was smaller than the latter, an item was defined as having poor discriminant validity.
6	Item complexity	We investigated the factor loadings in a factor analysis for each item. Suboptimal complexity was said to exist if the highest loading of an item was <0.40 or if the difference between the loadings on different factors was <0.10.
7	Internal consistency	For each subscale, the Cronbach's $\alpha$ was calculated. If $\alpha$ <0.70, the internal consistency was considered suboptimal for each subscale's item.
8	Stepwise regression	For each subscale, a forward stepwise regression analysis was performed. If an item entered the model after 90% or more of the variance of that subscale was explained it was considered suboptimal.

 $<sup>{}^{\</sup>mathrm{a}}\mathrm{Subscales}$  derived from the principal component analysis were used.

## Table SII. Provisional item list

Number	Item	
1	Does it bother you to be careful about your behaviour in the sun?	•
2	Does it bother you to use more sunscreen (cream, spray, etc.)?	•
3	Does it bother you to check your skin for skin cancer?	•
4	Does it bother you to adjust your vacation to avoid the sun?	
5	Do you feel that you have to avoid direct sunlight?	
6	Does it bother you to wear certain clothing or a hat to protect you from the sun?	
7	Do you feel that you should warn others about the sun?	
8	Do you feel that you have to encourage others to get their skin checked?	•
9	Does it bother you to have to protect your skin from the sun?	•
10	Did you have the feeling of having no control over your skin cancer?	
11	Were you worried about the period between diagnosis and treatment?	•
12	Were you afraid of the treatment?	•
13	Were you worried about (possible) side-effects of the treatment?	
14	Were you worried about the anaesthetic injections?	
15	Were you worried about scarring?	
16	Were you frightened by the word cancer?	•
17	Were you afraid of getting skin cancer on multiple body sites?	•
18	Were you worried that the skin cancer would come back at the treated area?	
19	Were you worried about skin cancer spreading to other parts of the body?	•
20	Were you worried about family members getting skin cancer?	
21	Were you uncertain about the future?	•
22	Were you worried that you would be less attractive?	•
23	Was your skin itching at the skin cancer area?	
24	Was your skin sensitive at the skin cancer area?	
25	Were you worried about other skin disorders?	•
26	Were you insecure about not being able to recognise the signals of skin cancer?	
27	Were you worried about other people's skin?	•
28	Were you worried about the severity of skin cancer?	
29	Were you ashamed of the scar(s)?	
30	Did the questions by others about your scar(s) bother you?	
31	Were you worried about whether your scar(s) could be covered?	
32	Did it bother you to adjust your clothing in order to cover your scars and spots?	•
33	Did you feel less attractive?	•

<sup>•</sup>These items were translated from Dutch through forward/backward translating and are included in the final questionnaire.

## Table SIII. Basal and Squamous cell carcinoma Quality of Life (BaSQoL) questionnaire

The following questions are about the influence of skin cancer on your daily life

	Since the skin cancer diagnosis,	Not at all	A little	Quite a bit	Verv much
1.	does it bother you to be careful about your behaviour in the sun?				
2.	does it bother you to use more sunscreen (cream, spray, etc.)?				
3.	does it bother you to check your skin for skin cancer?				
4.	does it bother you to have to protect your skin from the sun?				
5.	do you feel that you have to encourage others to get their skin checked?				
	When you think back to the time of diagnosis and treatment,	Not at all	A little	Quite a bit	Very much
6.	were you worried about the period between diagnosis and treatment?				
7.	were you afraid of the treatment?				
8.	were you frightened by the word cancer?				
	During the past week,	Not at all	A little	Quite a bit	Very much
9.	During the past week, were you afraid to get skin cancer on multiple body sites?	Not at all	A little	Quite a bit	Very much
9. 10.	• •			Quite a bit	Very much
	were you afraid to get skin cancer on multiple body sites?			Quite a bit	Very much
10.	were you afraid to get skin cancer on multiple body sites? were you worried about skin cancer spreading to other parts of the body?			Quite a bit	Very much
10. 11.	were you afraid to get skin cancer on multiple body sites? were you worried about skin cancer spreading to other parts of the body? were you uncertain about the future?			Quite a bit	Very much
10. 11. 12.	were you afraid to get skin cancer on multiple body sites? were you worried about skin cancer spreading to other parts of the body? were you uncertain about the future? were you worried about other skin disorders?	_ _ _		Quite a bit	Very much
10. 11. 12. 13.	were you afraid to get skin cancer on multiple body sites? were you worried about skin cancer spreading to other parts of the body? were you uncertain about the future? were you worried about other skin disorders? were you worried that you would be less attractive?	_ _ _ _		Quite a bit	Very much
10. 11. 12. 13. 14.	were you afraid to get skin cancer on multiple body sites? were you worried about skin cancer spreading to other parts of the body? were you uncertain about the future? were you worried about other skin disorders? were you worried that you would be less attractive? did it bother you to adjust your clothing in order to cover your scars and spots?				Very much

Table SIV. Correlations between subscales

	Worries	Appearance	Behaviour	Diagnosis & Treatment	Other people
Worries		0.11	0.15	0.33	0.20
Appearance	0.14		0.08	0.13	0.04
Behaviour	0.15	0.09		0.16	0.09
Diagnosis & Treatment	0.33	0.16	0.15		0.17
Other People	0.20	0.06	0.09	0.17	

Bold numbers: complete cases; not bold: maximum likelihood with missing values (MLMV).