Table DS1 List of criteria used in Stage I of the development process, adapted from Streiner et al. 1

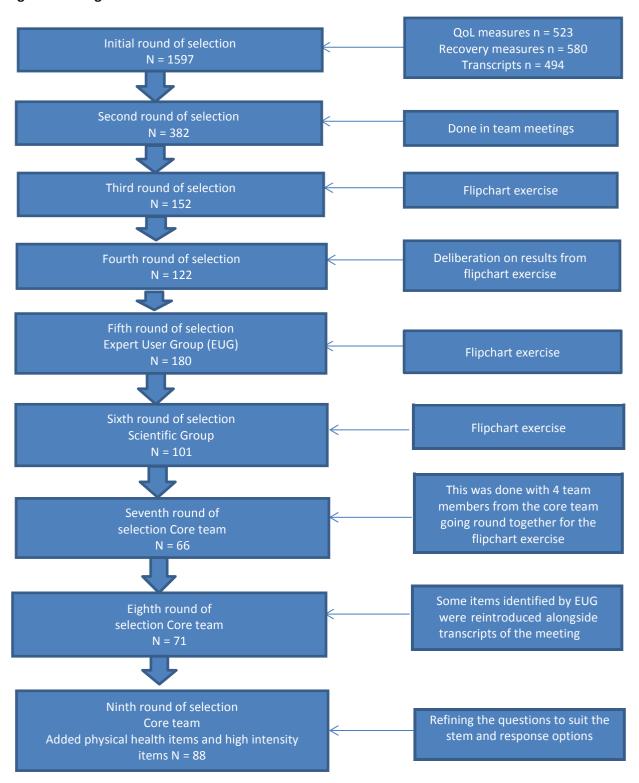
	1	
1.	Reading Level	Rule of thumb: reading skills should not exceed those of a 12 year old
2.	Ambiguity	Poorly worded items
		Even straightforward items may pose a problem if
		not applicable, e.g. I like my spouse
		is problematic if someone does not a spouse
3.	Double –barrelled question	This is where two or more questions are asked at
		the same time and the answers for each may be
		different. This may also be where two different
		concepts are compounded e.g. anxiety and
		depression
4.	Jargon	The vocabulary should not be technical and should
		be part of everyday vocabulary.
5.	Value-laden words	Judgmental statements may prejudice the
		respondent and should therefore be avoided
		(e.g. having more social contact may not be seen to
		be better by everyone)
6.	Positive and negative wording	Negatively worded items should be avoided e.g. it
		is better to have the item 'I feel ill most of the
		time' compared with 'I rarely feel well'
7.	Length of items	Should be as short as possible but not too short
		that it loses comprehensibility

In addition to the above criteria, the ReQoL research team used the following:

8.	Too specific to a lifestyle or a	e.g. referring to employment when many			
	diagnosis	respondents may not work			
		e.g. hearing voices is too specific			
9.	Makes comparisons over time	e.g. the phrase 'compared to usual' in an item			
10.	Does not lend itself to change	e.g. character traits of people or circumstances that			
	over time	NHS services cannot change			

¹Streiner, David L., and Geoffrey R. Norman. *Health measurement scales: a practical guide to their development and use*. Oxford Medical Publications, 1989.

Figure DS1 Stage I Generation of candidate items: Item reduction flow chart



The initial selection of items was done by two researchers from the core team. The second, third and fourth rounds of selection were performed by the core team in a series of meetings. During the 'flipchart exercise', items were written on post-it notes on flipcharts grouped by themes and sub-themes. Members went round the room either alone or in small groups and put a sticker next to their preferred items. Votes for each item were counted and were used to inform item selection.

Table DS2 Missing data of the 40-item set by item under each theme

Theme	Item	Total samp	ole n = 4266
A attivity.	I found it difficult to get started with everyday tasks	139	3%
Activity	I did things I found rewarding	166	4%
	I neglected myself	188	4%
	I avoided things I needed to do	173	4%
	I enjoyed what I did	164	4%
	People around me caused me distress	145	3%
Belonging and	I felt lonely	161	4%
Relationships	I felt able to trust others	171	4%
	I felt people did not want to be around me	166	4%
	I thought people cared about me	169	4%
	I could do the things I wanted to do	161	4%
Choice,	I felt overwhelmed by my problems	166	4%
Control and	I had the opportunity to do the things I wanted	151	4%
Autonomy	I felt unable to cope	175	4%
	I felt in control of my life	180	4%
	I felt hopeful about my future	181	4%
Норе	I felt hopeless	162	4%
	Everything in my life felt bad	162	4%
	I thought my life was not worth living	152	4%
	I felt like a failure	157	4%
0.15	I felt confident in myself	163	4%
Self-	I felt at ease with who I am	162	4%
perception	I valued myself as a person	140	3%
	I disliked myself	182	4%
	I felt calm	137	3%
Wellbeing	I felt miserable	143	3%
	I felt safe	150	4%
	I was disturbed by unwanted thoughts and feelings	155	4%
	I felt irritated	165	4%
	I felt angry	154	4%
	I felt relaxed	177	4%
	I felt terrified	179	4%
	I felt everything was an effort	166	4%
	I felt panic	159	4%
	I felt happy	174	4%
	I found it hard to concentrate	159	4%
	I worried too much	161	4%
	I felt anxious	181	4%
	I had problems with my sleep	149	3%
Physical health		299	7%§
	than the rest due to the presentation of the question		1 /03

§This was higher than the rest due to the presentation of the question in the survey booklet.

Table DS3 Endorsement frequency (Study 2: n = 4266)

Itam description	Levels							
Item description	1	2	3	4	5			
I found it difficult to get started with everyday tasks	589	853	1051	889	745			
I found it difficult to get started with everyday tasks	14%	21%	25%	22%	18%			
I falk abla to touch abla our	466	822	991	893	923			
I felt able to trust others	11%	20%	24%	22%	23%			
I falt weakle to some	481	655	850	825	1,280			
I felt unable to cope	12%	16%	21%	20%	31%			
	410	988	1,168	703	836			
I could do the things I wanted to do	10%	24%	28%	17%	20%			
16.10.1	583	1,020	1,110	751	628			
I felt happy	14%	25%	27%	18%	15%			
	381	446	573	610	2,104			
I thought my life was not worth living	9%	11%	14%	15%	51%			
	452	834	1,234	752	830			
I enjoyed what I did	11%	20%	30%	18%	20%			
	713	948	1,029	668	727			
I felt hopeful about my future	17%	23%	25%	16%	18%			
	623	699	807	777	1,199			
I felt lonely	15%	17%	20%	19%	29%			
	826	974	982	617	704			
I felt confident in myself								
	<i>20%</i> 576	<i>24%</i> 962	24% 1198	15% 781	17% 583			
I did things I found rewarding	14%	23%	29%	19%	14%			
	566	810	984	834	899			
I avoided things I needed to do								
	14% 483	<i>20%</i> 895	24% 1,080	<i>20%</i> 983	<i>22%</i> 660			
I felt irritated			·					
	12% 686	<i>22%</i> 649	<i>26%</i> 717	<i>24%</i> 709	16%			
I felt like a failure	17%	16%	17%	17%	1,348 33%			
	803	957	903	642	781			
I felt in control of my life	20%	23%	22%	16%	19%			
	241	377	630	655	2,171			
I felt terrified	6%	9%	15%	16%	53%			
	868	914	824	801	678			
I felt anxious	21%	22%	20%	20%	17%			
I had problems with my sleep	1,080	766	715	716	840			
,	26%	19%	17%	17%	20%			
I falk and an	381	964	1,256	792	736			
I felt calm	9%	23%	30%	19%	18%			
I found it hard to concentrate	778	877	965	842	645			
round it hard to concentrate	19%	21%	24%	21%	16%			

Table DS4: Characteristics of the online samples for reliability

		Patients (n	= 800)	General population (n = 2000)		
		Mean	SD %	Mean N	SD %	
Age groups in						
years	18 to 24	25	3.1	223	11.2	
	25 to 34	108	13.6	343	17.5	
	35 to 44	147	18.4	334	16.7	
	45 to 54	234	29.2	371	18.6	
	55 to 64	273	34.1	296	14.8	
	65 and over	13	1.6	433	21.7	
Life satisfaction	Score 0 to 10					
score	(10 highest)	4.6	2.4	6.7	2.2	
Gender	Male	311	38.9	927	46.4	
	Female	489	61.1	1073	53.6	
Marital Status	Single	259	32.4	560	28.0	
	Married / Partner	398	49.8	1203	60.2	
	Separated /					
	Divorced	118	14.7	160	8.0	
	Widowed	23	2.9	72	3.6	
	Prefer not to say	2	0.2	5	0.2	
Ethnicity	White	777	97.1	1833	91.7	
	Non white	23	2.9			
Degree	Yes	313	39.1	996	49.8	
	No	487	60.9	1004	50.2	
Main activity	In employment or					
	self-employment	332	41.5	1063	53.2	
	Retired	86	10.7	507	23.3	
	Housework	95	11.9	162	8.1	
	Student	19	2.4	101	5.1	
	Unemployed	268	33.5	167	8.3	
General	Excellent	25	3.1	246	12.3	
physical health	Good	210	26.2	965	48.2	
	Fair	303	37.9	566	28.3	
	Poor	206	25.8	189	9.5	
	Very poor	56	7.0	34	1.7	
General	Excellent	28	3.5	628	31.4	
mental health	Good	145	18.1	852	42.6	
	Fair	357	44.6	407	20.3	
	Poor	212	26.5	96	4.8	
	Very poor	58	7.2	17	0.9	

Table DS5 Distribution of scores – ReQoL and other measures

	n	mean	standard	completion
5 6 1 46			deviation	rate %
ReQoL -10				
Baseline	4037	21.99	10.26	95
Follow-up	953	24.18	10.08	
ReQoL -20 (scale 0 to 80)				95
Baseline	4037	43.27	19.93	
Follow-up	953	48.56	19.57	
ReQoL -20 (scale 0 to 40)				95
Baseline	4037	21.63	9.97	
Follow-up	953	24.28	9.78	
SWEMWBS total				
Baseline	1103	23.14	6.80	95
Follow-up		24.35	6.43	
SWEMWBS rasch				
Baseline	1103	21.71	5.85	95
Follow-up		22.64	5.66	
EQ-5D				
Baseline	1592	0.75	0.25	98
Follow-up		0.78	0.22	
CORE-10				98
Baseline	216	17.79	10.94	
Follow-up	46	16.34	10.57	
PHQ-9				
Baseline	690	13.12	7.74	89
Follow-up		12.39	6.96	
GAD-7				
Baseline	554	6.24	5.18	96
Follow-up		12.08	7.44	

Note: ReQoL -10 in its embedded form of 40 items

Figure DS2a: Distribution of ReQoL-10 scores at baseline

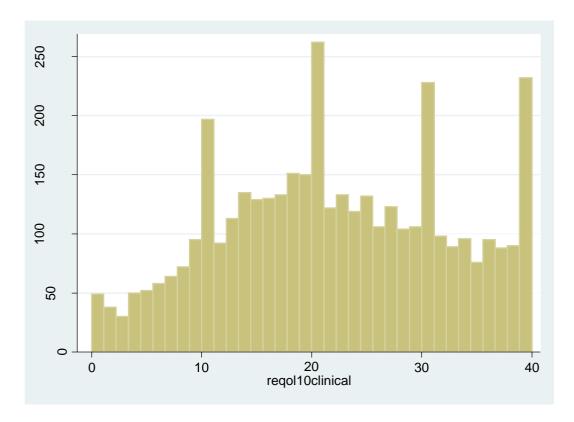


Figure DS2b: Distribution of ReQoL-20 scores at baseline on a scale 0 to 80

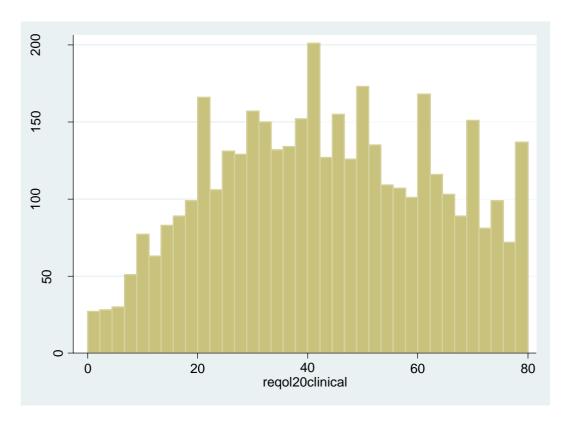


Figure DS3a: Lowess scatter plots between ReQoL-10 and ReQoL-20 (scale 0 to 40) at baseline

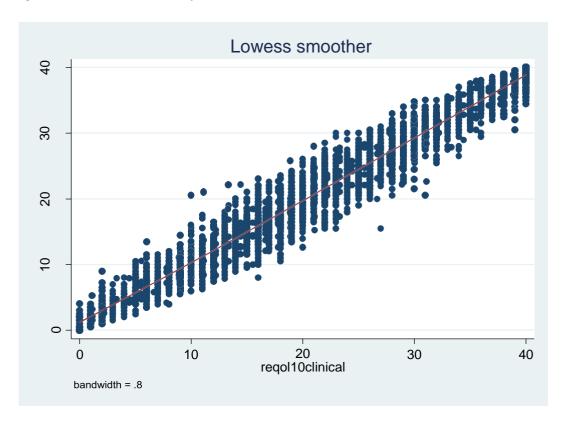


Figure DS3b: Lowess scatter plots between ReQoL-10 and SWEMWBS total score at baseline

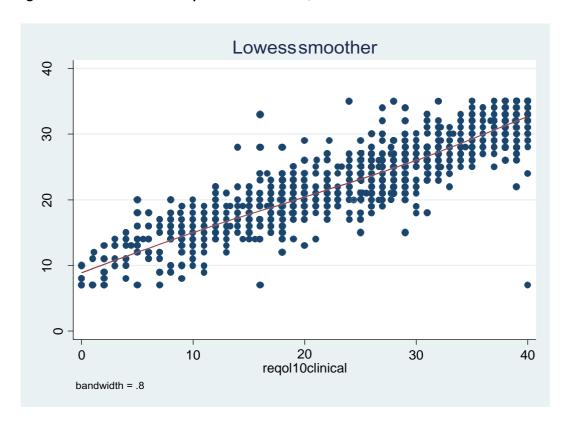


Figure DS3c: Lowess scatter plots between ReQoL-10 and SWEMWBS Rasch score at baseline

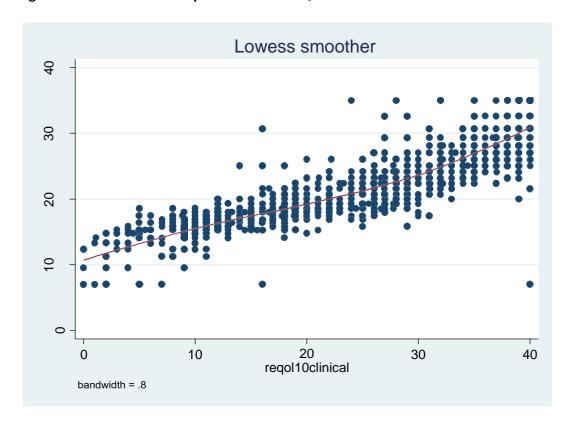


Figure DS3d: Lowess scatter plots between ReQoL-10 and CORE-10 at baseline

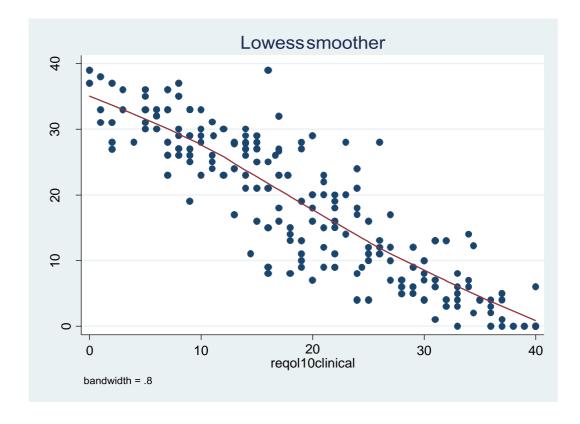


Table DS6a: Known group validity: comparing ReQoL-10 and EQ-5D

	ReQoL-10					EQ-5D			
	n	mean(sd)	p value	SES	n	mean(sd)	p value	SES	
General	1671	28.48 (6.96)	<0.001	0.64	996	0.88 (0.21)	<0.001	0.59	
population v									
patient	1513	24.02 (10.04)			1513	0.75 (0.25)			
population	<u> </u>								
Comparing gener					ı	<u> </u>	1		
Common	530	22.10 (9.61)	<0.001	0.92	530	0.73 (0.25)	<0.001	0.68	
mental health									
disorders									
Psychotic	190	24.61 (9.40)	<0.001	0.56	190	0.78 (0.23)	<0.001	0.44	
disorders	07	22.42.(0.47)	.0.004	0.77	0.7	0.74 (0.26)	.0.004	0.64	
Bipolar	97	23.13 (9.47)	<0.001	0.77	97	0.74 (0.26)	<0.001	0.64	
Personality	59	15.71 (8.47)	<0.001	1.83	59	0.63 (0.27)	<0.001	1.15	
disorder		20.02 (0.05)	0.004	4.40		0.71 (0.05)	0.004	0.70	
Other MH	89	20.82 (9.96)	<0.001	1.10	89	0.71 (0.26)	<0.001	0.78	
disorders	002	27.62.(0.00)	10.001	1.02	002	0.07.(0.42)	10.001	2.24	
Using self-	893	27.62 (8.90)	<0.001	1.03	893	0.87 (0.13)	<0.001	2.31	
reported global	F72	10 47 (0 12)			572	0.57 (0.37)			
assessment of	572	18.47 (9.12)			5/2	0.57 (0.27)			
health (Good versus Poor)									
Using self-	1151	27.44.(0.12)	<0.001	1.90	1151	0.82 (0.19)	<0.001	1.63	
_	1151	27.44 (8.12)	<0.001	1.90	1151	0.82 (0.19)	<0.001	1.03	
reported global assessment of	321	12.00 (6.39)			321	0.51 (0.28)			
mental health	321	12.00 (0.39)			321	0.31 (0.20)			
(Good versus									
'									
Poor)									

Table DS6b: Known group validity: comparing ReQoL-10 and SWEMWBS transformed (rasch) score

	ReQoL-10					SWEMWBS transformed			
	n	mean(sd)	SES	p value	n	mean(sd)	SES	p value	
General	1671	28.48 (6.96)	0.56	<0.001	7196	23.61 (3.9)	0.48	<0.001	
population v									
patient									
population	1007	24.61 (10.62)			1007	21.73 (5.86)			
Comparing gener			1		ı	Γ		Τ	
Common	371	23.38 (10.09)	0.78	<0.001	371	20.73 (4.71)	0.74	<0.001	
mental health									
disorders									
Psychotic	52	23.20 (9.52)	0.76	<0.001	52	21.15 (5.59)	0.63	<0.001	
disorders									
Bipolar	98	22.12 (10.31)	0.91	<0.001	98	20.70 (5.83)	0.75	<0.001	
Personality	46	13.93 (8.41)	2.09	<0.001	46	16.45 (4.70)	1.84	<0.001	
disorder									
Other disorders	n low								
Using self-	583	28.55 (9.34)	1.07	<0.001	583	23.71 (5.67)	0.90	<0.001	
reported global									
assessment of	379	18.54 (9.44)			379	18.62 (4.46)			
health (Good									
versus Poor)									
Using self-	751	28.19 (8.60)	1.83	<0.001	751	23.38 (5.32)	1.34	<0.001	
reported global									
assessment of	205	12.42 (6.91)			205	16.25 (3.48)			
mental health									
(Good versus									
Poor)									

Table DS6c: Known group validity: comparing ReQoL-10 and SWEMWBS total (summative) score

	ReQoL-10				SWEMWBS total			
	n	mean(sd)	SES	p value	n	mean(sd)	SES	p value
General	1671	28.48 (6.96)	0.56	<0.001	7196	25.30 (4.72)	0.43	<0.001
population v								
patient								
population	1007	24.61 (10.62)			1007	23.25 (6.81)		
Comparing gener				se areas	T	T	1	T
Common	371	23.38 (10.09)	0.78	<0.001	371	22.19 (5.89)	0.66	<0.001
mental health								
disorders								
Psychotic	52	23.20 (9.52)	0.76	<0.001	52	22.31 (6.51)	0.63	<0.001
disorders								
Bipolar	98	22.12 (10.31)	0.91	<0.001	98	21.74 (6.83)	0.75	<0.001
Personality	46	13.93 (8.41)	2.09	<0.001	46	16.4 (5.82)	1.89	<0.001
disorder								
Other disorders	n low							
Using self-	583	28.55 (9.34)	1.07	<0.001	583	25.56 (6.14)	1.00	<0.001
reported global								
assessment of	379	18.54 (9.44)			379	19.44 (5.87)		
health (Good								
versus Poor)								
Using self-	751	28.19 (8.60)	1.83	<0.001	751	25.29 (5.74)	1.62	<0.001
reported global								
assessment of	205	12.42 (6.91)			205	16.00 (4.60)		
mental health								
(Good versus								
Poor)								

All the correlation coefficients are significant at 1%

Table DS7: Floor and ceiling effects at baseline and follow-up

	% at worst	score	% best score		
	T1	T2	T1	T2	
ReQoL-10	0.72	0.63	3.77	4.6	
ReQoL-20	0.30	0.32	1.49	1.9	
SWEMWBS Total score	1.52	1.06	4.67	4.6	
SWEMWBS Rasch score	1.52	1.06	4.67	4.6	
EQ-5D	0.00	0.00	14.04	15.7	