

Scoring the EORTC QLQ-C30 version 3.0

Table 1: Scoring the QLQ-C30 version 3.0

	Scale	Number of items	Item range*	Version 3.0 Item numbers	Function scales
Global health status / QoL					
Global health status/QoL (revised) [†]	QL2	2	6	29, 30	
Functional scales					
Physical functioning (revised) [†]	PF2	5	3	1 to 5	F
Role functioning (revised) [†]	RF2	2	3	6, 7	F
Emotional functioning	EF	4	3	21 to 24	F
Cognitive functioning	CF	2	3	20, 25	F
Social functioning	SF	2	3	26, 27	F
Symptom scales / items					
Fatigue	FA	3	3	10, 12, 18	
Nausea and vomiting	NV	2	3	14, 15	
Pain	PA	2	3	9, 19	
Dyspnoea	DY	1	3	8	
Insomnia	SL	1	3	11	
Appetite loss	AP	1	3	13	
Constipation	CO	1	3	16	
Diarrhoea	DI	1	3	17	
Financial difficulties	FI	1	3	28	

* *Item range* is the difference between the possible maximum and the minimum response to individual items; most items take values from 1 to 4, giving *range* = 3.

† (revised) scales are those that have been changed since version 1.0, and their short names are indicated in this manual by a suffix “2” – for example, PF2.

For all scales, the *RawScore*, *RS*, is the mean of the component items:

$$RawScore = RS = (I_1 + I_2 + \dots + I_n) / n$$

Then for **Functional scales**:

$$Score = \left\{ 1 - \frac{(RS - 1)}{range} \right\} \times 100$$

and for **Symptom scales / items** and **Global health status / QoL**:

$$Score = \{(RS - 1) / range\} \times 100$$

Examples:

Emotional functioning

$$RawScore = (Q_{21} + Q_{22} + Q_{23} + Q_{24}) / 4$$

$$EF Score = \{1 - (RawScore - 1) / 3\} \times 100$$

Fatigue

$$RawScore = (Q_{10} + Q_{12} + Q_{18}) / 3$$

$$FA Score = \{(RawScore - 1) / 3\} \times 100$$

3. EORTC Colorectal Cancer Module QLQ-CR29

Colorectal cancer module: QLQ-CR29

Scope

The colorectal cancer module is meant for use among colorectal cancer patients varying in disease stage and treatment modality (i.e. radiotherapy or chemoradiation, ultra-low anterior resection, minimal access surgery and new chemotherapy regimens). It should always be complemented by the QLQ-C30.

Scoring

	Scale name	Number of items	Item range	QLQ-CR29 item numbers
Functional Scales				
Body Image	BI	3	3	15 - 17
Anxiety	ANX	1	3	13
Weight	WEI	1	3	14
Sexual interest (men)	SEXM	1	3	26
Sexual interest (women)	SEXW	1	3	28
Symptom scales				
Urinary frequency	UF	2	3	1,2
Blood and mucus in stool	BMS	2	3	8,9
Stool frequency*	SF	2	3	22,23
Urinary incontinence	UI	1	3	3
Dysuria	DY	1	3	4
Abdominal pain	AP	1	3	5
Buttock pain	BP	1	3	6
Bloating	BF	1	3	7
Dry mouth	DM	1	3	10
Hair loss	HL	1	3	11
Taste	TA	1	3	12
Flatulence*	FL	1	3	19
Faecal incontinence*	FI	1	3	20
Sore skin*	SS	1	3	21
Embarrassment*	EMB	1	3	24
Stoma care problems	STO	1	3	25
Impotence	IMP	1	3	27
Dyspareunia	DYS	1	3	29

Remarks

- When scoring scales or single items that include questions 19 to 24, note the answer to question 18: ‘Do you have a soma bag (colostomy/ileostomy)? Yes/No
 - Ensure that answers are taken from the relevant box of questions
- Note that items 26 and 27 are for men only, and items 28 and 29 are for women only. Thus, these questions will be answered only by a subset of patients.
- In order for the two sexual interest scales to be interpreted as functional scales (ie. a higher score is better), they should be scored according to the symptom scale algorithm.

Reference

Whistance RN, Conroy T, Chie W, et al. Clinical and Psychometric Validation of the EORTC QLQ-CR29 Questionnaire Module to Assess Health-Related Quality of Life in Patients with Colorectal Cancer. *Eur J Cancer* 45:3017-3026, 2009.

Reference values

Reference values: NA.

Normative data: NA.