EORTC QLQ-FA12 Scoring Manual

The **Cancer Related Fatigue Module** is a supplementary questionnaire module to be employed in conjunction with the QLQ-C30. The QLQ-FA12 incorporates three multi-item scales to assess physical fatigue, emotional fatigue, and cognitive fatigue. In addition, two single items assess interference with daily life and social sequelae.

The scoring approach for the QLQ-FA12 is identical in principle to that for the symptom scales/single-items of the QLQ-C30. All scoring information specific to the QLQ-FA12 is presented in Table 1.

Interpretation:
All of the scales and single-item measures range in score from 0 to 100. For all the scales and single-items, a high score represents a high level of symptomatology or problems.

Table 1. Scoring the QLQ-FA12

	Scale	Number of items (n)	Item range*	QLQ-FA12 item numbers ($I_1, I_2, …, I_n$)
Symptom scales / items				
Physical fatigue	PFA	5	3	31 – 35
Emotional fatigue	EFA	3	3	36 – 38
Cognitive fatigue	CFA	2	3	39, 40
Interference with daily life	IDL	1	3	41
Social sequelae	SOC	1	3	42

* "Item range" is the difference between the possible maximum and the minimum response to individual items. All items are scored 1 to 4, giving range = 3.

Principle for scoring

1) **Raw score**

    For each multi-item scale, calculate the average of the corresponding items.

    $$Raw\ Score = RS = \left\{ \frac{(I_1 + I_2 + … + I_n)}{n} \right\}$$

    For each single-item measure, the score of the concerning item corresponds to the raw score.

    There are no reverse scoring items.

2) **Linear Transformation**

    To obtain the Score S, standardize the raw score to a 0 – 100 range using the following transformation:

    Symptom scales: $S = \left\{ \frac{(RS-1)}{range} \right\} \times 100$

For directions on Missing Data or for more detailed information on the Interpretation of Scores, we redirect to the EORTC QLQ-C30 Scoring Manual (2001).

Reference
Weis J,Tomaszewski K, Hammerlid E, Arraras J.I., Conroy T, Lanceley A, Schmidt H, Wirtz M, Singer S, Pinto M, Alm El-Din MA, Compter I, Holzner B, Hofmeister D, Chie WC, Czeladzki M, Harle A, Jones L, Ritter S, Flechtner H-H, Bottomley A; International Psychometric Validation of an EORTC Quality of Life Module Measuring Cancer Related Fatigue (EORTC QLQ-FA12). Journal of the national cancer institute. 2017 Feb 7. 109(5). doi: 10.1093/jnci/djw273

Further questions or remarks regarding the scoring algorithms for the QLQ-FA12 can be directed to the QOL Specialist at the Quality of Life Department of the EORTC.