



## EORTC QLQ-CX24 Scoring Manual

The **Cervical Cancer Module** is a supplementary questionnaire module to be employed in conjunction with the QLQ-C30. The QLQ-CX24 incorporates 3 multi-item scales to assess symptom experience, body image, and sexual/vaginal functioning. In addition, 6 single items assess lymphoedema, peripheral neuropathy, menopausal symptoms, sexual worry, sexual activity and sexual enjoyment.

The scoring approach for the QLQ-CX24 is identical in principle to that for the symptom scales/single-items of the QLQ-C30. All scoring information specific to the QLQ-CX24 is presented in Table 1.

### *Interpretation:*

All of the scales and single-item measures range in score from 0 to 100. A high score for the symptom scales/single-items represents a high level of symptomatology or problems, whereas a high score for the functional single-items represents a high level of functioning.

**Table 1. Scoring the QLQ- CX24**

	Scale	Number of items ( <i>n</i> )	Item range*	QLQ- CX24 item numbers ( <i>I</i> <sub>1</sub> , <i>I</i> <sub>2</sub> , ..., <i>I</i> <sub><i>n</i></sub> )
<b>Symptom scales/items</b>				
Symptom Experience	SE	11	3	31-37, 39, 41-43
Body Image	BI	3	3	45-47
Sexual/Vaginal Functioning	SV	4	3	50-53
Lymphoedema	LY	1	3	38
Peripheral Neuropathy	PN	1	3	40
Menopausal Symptoms	MS	1	3	44
Sexual Worry	SXW	1	3	48
<b>Functional items <sup>a</sup></b>				
Sexual Activity	SXA	1	3	49
Sexual Enjoyment	SXE	1	3	54

\* "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.

<sup>a</sup> To calculate the functional items, the same algorithm should be used as for the symptom scales.

## **Principle for scoring**

### **1) Raw score**

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

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

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 following the transformation:

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

for both the symptom and the functional scales / single items.

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**

Greimel E, Kuljanic Vlastic K, Waldenstrom AC et al. on behalf of the EORTC Quality of Life Group. The European Organization for Research and Treatment of Cancer (EORTC) Quality-of-Life questionnaire cervical cancer module - EORTC QLQ-CX24. *Cancer* 107 (8): 1812-1822, 2006.

Further questions or remarks regarding the scoring algorithms for the QLQ- CX24 can be directed to the QOL Specialist at the Quality of Life Department of the EORTC.