## Qualeffo-41 Scoring algorithm (January 2024)

- 1. All answers are standardized so that 1 represents the best and 5 (or 3, or 4) represents the worst quality of life (reverse scores on questions 33, 34, 35, 37, 39, 40).
- Answers of questions with 3 answer options (23-26):
  -disregard "not applicable" (question 24) and "no cinema ....." (question 26)
  -in case of "not applicable" or "no cinema" it is a missing
  -score 1 →1, 2→3, 3 → 5.
- 3. Answers of questions with 4 answer options (27-28): -score  $1 \rightarrow 1, 2 \rightarrow 2.3, 3 \rightarrow 3.6, 4 \rightarrow 5$ .
- 4. Domain scores are calculated by averaging the answers of one domain and transforming the scores to a 100-score, e.g. pain questions 1-5; the average score ranges from 1 to 5 and this is transformed to scores from 0 to 100. Missing values should be disregarded. Of course, when 30% or more of the questions are not answered, the calculation of domain scores and total score becomes questionable.

Examples: Pain Q1: 3, Q2: 3, Q3: 4, Q4: 1, Q5: 3. Domain score 14/5 = 2.8. transformed to 0-100 score: 45 (see below for formula) Q1: 3, Q2: 3, Q3: 4, Q4: 1, Q5: missing. Domain score 11/4 = 2.75. transformed to 0-100 score: 43.75 5.The total score is calculated by summing all answers of questions 1-41. The raw total score ranges from 41 to 205 (or less when some answers are missing) and this is transformed to scores from 0 to 100.

(sum of scores - lowest possible score) x 100 = total Qualeffo score Total score range

Examples of total score range:

- In case of <u>no missing answers</u> Total score range 205-41 = 164
- In case of <u>1 missing answer</u>: Total score range
   (205-5) - (41-1) = 160
- In case of <u>5 missing answers</u>: Total score range (205-25) - (41-5) = 144