

Qualeffo-41

Scoring algorithm (January 2020)

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).
2. 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 → 1, 2 → 2.3, 3 → 3.6, 4 → 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.

$$\frac{(\text{actual score} - \text{lowest possible score}) \times 100}{\text{range}} = \text{total Qualeffo score}$$

Examples:

In case of missing answers: $\frac{(\text{actual score} - 41) \times 100}{164}$

In case of 5 missing answers: $\frac{(\text{actual score} - 36) \times 100}{144}$

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