SF20 Scoring Information

“Factor”/”Concept”/”Domain”/”Measure” are used interchangeably. They usually refer to the 6 sub-scales of the SF20 questionnaire.

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| --- | --- | --- | --- | --- |
| **Question No.** | **Concept** | **Possible Response** | **Recode?** | **Question** |
| 1 | Health Perceptions | 1 to 5 | Recalibrate | 1. In general, would you say your health is: |
| 2a | Physical Functioning | 1 to 3 | Normal | a. The kinds or amounts of vigorous activities you can do, like lifting heavy objects, running or participating in strenuous sports |
| 2b | Physical Functioning | 1 to 3 | Normal | b. The kinds or amounts of moderate activities you can do, like moving a table, carrying groceries, or bowling |
| 2c | Physical Functioning | 1 to 3 | Normal | c. Walking uphill or climbing a few flights of stairs |
| 2d | Physical Functioning | 1 to 3 | Normal | d. Bending, lifting, or stooping |
| 2e | Physical Functioning | 1 to 3 | Normal | e. Walking one block |
| 2f | Physical Functioning | 1 to 3 | Normal | f. Eating, dressing, bathing, or using the toilet |
| 3 | Pain | 1 to 6 | Reverse | 3. How much bodily pain have you had during the past 4 weeks: |
| 4 | Role Functioning | 1 to 3 | Normal | 4. Does your health keep you from working at a job, doing work around the house, or going to school? |
| 5 | Role Functioning | 1 to 3 | Normal | 5. Have you been unable to do certain kinds or amounts of work, housework, or schoolwork because of your health? |
| 6a | Social Functioning | 1 to 6 | Normal | 6. How much of the time, during the past month, has your health limited your social activities (like visiting with friends or close relatives)? |
| 6b | Mental Health | 1 to 6 | Reverse | 7. How much of the time, during the past month, have you been a very nervous person? |
| 6c | Mental Health | 1 to 6 | Normal | 8. During the past month, how much of the time have you felt calm and peaceful? |
| 6d | Mental Health | 1 to 6 | Reverse | 9. How much of the time, during the past month, have you felt downhearted and blue? |
| 6e | Mental Health | 1 to 6 | Normal | 10. During the past month, how much of the time have you been a happy person? |
| 6f | Mental Health | 1 to 6 | Reverse | 11. How often, during the past month, have you felt so down in the dumps that nothing could cheer you up? |
| 7a | Health Perceptions | 1 to 5 | Recalibrate | a. I am somewhat ill |
| 7b | Health Perceptions | 1 to 5 | Recalibrate | b. I am as healthy as anybody I know |
| 7c | Health Perceptions | 1 to 5 | Recalibrate | c. My health is excellent |
| 7d | Health Perceptions | 1 to 5 | Recalibrate | d. I have been feeling bad lately |
| A8 | Extra Question | 1 to 5 | Reverse | **A8. In general, would you say your overall quality of life is…?** |

Taken from <https://www.rand.org/health-care/surveys_tools/mos/20-item-short-form.html>

**Recoding Items**

|  |  |
| --- | --- |
| **Dimension** | **Recoding** |
| Physical Functioning | Q2a+Q2b+Q2c+Q2d+Q2e+Q2f |
| Role Functioning | Q4 + Q5 |
| Social Functioning | Q6a |
| Mental Health | Q6bRV + Q6c + Q6dRV + Q6e + Q6fRV |
| Health perceptions | Q1RE + Q7aRV + Q7b+ Q7c + Q7dRV |
| Pain\* | Q3RV |

Note: (although the manual does not make use of these abbreviations)

RV = Reverse Code. where,

6🡪1, 5🡪2, 4🡪3, 3🡪4, 2🡪5, 1🡪6 for 6-point Likert scales

5🡪1, 4🡪2,3🡪3,2🡪4, 1🡪5 for 5-point Likert scales

3🡪1, 1🡪3 for 3-point Likert scales

RE = Re-code/ “Item Recalibration”. Where,

1 = 5, 2 = 4.36, 3 = 3.43, 4 = 1.99, 5 = 1.

\*Pain is usually reverse coded in other versions of the questionnaire, but in SF20 pain is NOT reverse i.e. high rating = more pain.

**Linear transformation to 0 – 100**

If 6 point Likert scale. Then, (Score – 1)\*20 = 0-100 score

If 5-point Likert scale. Then, (Score – 1)\*25 = 0-100 score

If 2-point Likert scale. Then, (Score – 1)\*50 = 0-100 score

Therefore the general formula:

Since all items in the domain/measure have the same no. Likert scale

|  |  |  |
| --- | --- | --- |
| **Dimension** | **Scoring from Item response to 0-100 score** | **SPSS** |
| Physical Functioning |  |  |
| Role Functioning |  |  |
| Social Functioning |  |  |
| Mental Health |  |  |
| Health perceptions |  |  |
| Pain\* |  |  |