

Manual Scoring the YQOL-DHH Steps

| DOMAINS | NUMBER OF ITEMS | ITEM No. | ITEM REVERSAL | DIRECTION OF DIMENSIONS |
|--------------------------|-----------------|----------|---------------|-------------------------|
| SELF-ACCEPTANCE/ADVOCACY | 14 | 1-14 | No | HIGHER = HIGHER QoL |
| PERCEIVED STIGMA | 8 | 15-22 | YES | HIGHER = LOWER QoL |
| PARTICIPATION | 10 | 23-32 | YES | HIGHER = HIGHER QoL |

- 1) First, transpose all 32 items to t-scores on a 100-point scale as follows:

$$tscore = \frac{actualscore - lowestpossible}{highestpossible - lowestpossible} * 100$$

$$tscore = ((Itemscore-0)/10)*100.$$

This transformation converts the lowest and highest possible scores to 0 and 100, respectively. Scores between these values represent the percentage of the total possible score achieved.

- 2) Items #15-22 (perceived stigma domain) and Items #23-32 (Participation domain) are reverse-scored prior to calculating a total score. The scoring is arranged so that a higher score = lower quality of life for Perceived Stigma and higher score=higher quality of life for Participation.
- 3) The mean of the transformed items is then calculated to form the total score.
- 4) At least 80% of the items in a domain must have responses in order to compute a total score. Otherwise, the total score is set to a missing value. Self-Advocacy/Acceptance 12 of 14 items complete, Perceived Stigma 7 of 8 items complete, Participation 8 of 10 items complete.
- 5) Example of domain scoring provided on pages 2-3.

| <i>Example for scoring Self-Acceptance/Advocacy Domain</i> | |
|--|------------------|
| YQOL-DHH Items Self-Acceptance/Advocacy Domain | Raw Score |
| Q1. As a person who is deaf or hard-of-hearing, I feel my parents give me the same amount of independence as others my age | 4 |
| Q2. I feel included in the things my family does together | 5 |
| Q3. I feel okay telling my teacher about my needs | 7 |
| Q4. I feel I have enough technology, such as pagers, videophones, texting, and/or internet to communicate as a person who is deaf or hard-of-hearing | 4 |
| Q5. I feel okay explaining to others that I am DHH | 5 |
| Q6. As a person who is deaf or hard-of-hearing, I feel okay asking for help when I need it | 8 |
| Q7. I know how to stand up or speak up for myself as a person who is deaf or hard-of-hearing | Missing data |
| Q8. As a person who is deaf or hard-of-hearing, I feel okay asking for what I want in public places | 7 |
| Q9. As a person who is deaf or hard-of-hearing, it is easy for me to start talking to people I do not know | 7 |
| Q10. As a person who is deaf or hard-of-hearing, I am satisfied with the ways I have to communicate | 6 |
| Q11. I feel other youth are willing to help me when I need it as a person who is deaf or hard-of-hearing | 8 |
| Q12. My teacher(s) helps me to communicate easier in the classroom as a person who is deaf or hard-of-hearing | 8 |
| Q13. As a person who is deaf or hard-of-hearing, I feel there are enough things to do with people other than my family | 6 |
| Q14. As a person who is deaf or hard-of-hearing, I feel accepted by students at my school | 7 |
| Sum of Raw scores | 82 |
| Tscore=(82-0/10)*100 | 820 |
| Total Self-acceptance/advocacy score=Mean score (sum non-missing data /number items answered)=820/13 | 63 |

| <i>Example for scoring Perceived Stigma domain</i> | | |
|--|------------------|-----------------------|
| YQOL-DHH Items Perceived Stigma Domain | Raw Score | Reverse scored |
| Q15. I get upset when people do not understand what I am saying because I am deaf or hard-of-hearing | 3 | 7 |
| Q16. I feel like my parents protect me too much because I am deaf or hard-of-hearing | 5 | 5 |
| Q17. I feel people who are hearing treat me badly because I am deaf or hard-of-hearing | 3 | 7 |
| Q18. I feel people think I am dumb because I am deaf or hard-of-hearing | 4 | 4 |
| Q19. I feel people bully me because I am deaf or hard-of-hearing | 3 | 7 |
| Q20. I feel people make fun of me because I am deaf or hard-of-hearing | 3 | 7 |
| Q21. I feel embarrassed when people stare at me because I am deaf or hard-of-hearing | 2 | 8 |
| Q22. I feel embarrassed to ask people to repeat themselves because I am deaf or hard-of-hearing | 5 | 5 |
| Sum of Perceived Stigma (reverse scored) | - | 50 |
| Tscore=(50-0/10)*100 | - | 500 |
| Total Perceived Stigma score=Mean score (sum non-missing data /number items answered)=500/8 | - | 62.5 |

| <i>Example for scoring Participation domain</i> | | |
|--|------------------------------|-----------------------|
| YQOL-DHH Items Participation Domain | Example Raw Score | Reverse scored |
| Q23. Because I am deaf or hard-of-hearing, I feel left out of family conversations | 1 | 9 |
| Q24. Because I am deaf or hard-of-hearing, I feel I miss things when talking with people who are deaf or hard-of-hearing | Missing data | - |
| Q25. Because I am deaf or hard-of-hearing, I feel I miss out on activities and things I want to do | 7 | 3 |
| Q26. I feel I miss what is important for me to know because I am deaf or hard-of-hearing | 6 | 4 |
| Q27. Because I am deaf or hard-of-hearing, I have to work harder than other youth to do the things I want to do | 8 | 2 |
| Q28. Because I am deaf or hard-of-hearing, I feel it is hard to participate in large groups | 8 | 2 |
| Q29. Because I am deaf or hard-of-hearing, I feel what I want to do in the future is limited | 4 | 6 |
| Q30. I feel it is hard for me to understand what people are saying because I am deaf or hard-of-hearing | 5 | 5 |
| Q31. Because I am deaf or hard-of-hearing, I feel I miss things when talking with people who are hearing | 7 | 3 |
| Q32. I feel life is harder for me because I am deaf or hard-of-hearing | 5 | 5 |
| Sum of Participation (reverse scored) | - | 39 |
| Tscore=(39-0/10)*100 | - | 390 |
| Total Participation score=Mean score (sum non-missing data /number items answered)=390/9 | - | 43 |