

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 SCORE = HIGHER QoL
PERCEIVED STIGMA	8	15-22	YES	HIGHER SCORE = LOWER QoL
PARTICIPATION	10	23-32	YES	HIGHER SCORE = HIGHER QoL

NOTE: All items are transposed to put the items on a 100 point scale. This allows the scores to be expressed as a percentage of the total score for ease of interpretation.

1. Transpose all items to t-scores on a 100-point scale as follows:

$$t_{score} = \frac{\text{actual raw score} - \text{lowest possible raw score}}{\text{possible raw score range}} * 100$$

$$T_{score}^* = ((\text{Item raw score} - 0) / 10) * 100.$$

*The t-scores are calculated at the item level

This transformation converts the lowest and highest possible scores to 0 and 100, respectively.

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. To calculate the Domain Score the mean of the transformed items is then calculated. At least 80% of the items in a domain must have responses in order to compute a domain score. Otherwise, the domain score is set to a missing value. Minimum number of complete items is required for each domain:
 - i. Self-Advocacy/Acceptance: 12 of 14 items must be complete
 - ii. Perceived Stigma: 7 of 8 items must be complete
 - iii. Participation: 8 of 10 items must be complete.

4. 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 Self-Acceptance/Advocacy	82
Tscore = ((82-0)/10)*100	820
TOTAL SELF-ACCEPTANCE/ADVOCACY DOMAIN SCORE= Tscore /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 DOMAIN SCORE=Tscore/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