

## DOSO Manual Scoring Strategy

For items rated with the 7-point response scale, numbers from 1 to 7 are assigned to the scale from A to G, respectively (A=1; B=2; C=3; D=4; E=5; F=6; and G=7). Thus, the patient's responses in the 7-point scale are converted into scores from 1 to 7.

For the 3 items for subscale Use, numbers from 1 to 5 are assigned to the 5 alternatives. Specifically, the number 1 is assigned to the alternative which represents the smallest amount of use while the number 5 assigned to the alternative which represents the largest amount of use (see Table 1).

<p>26. How many days a week do you <u>usually</u> wear hearing aids?</p> <p><input type="checkbox"/> None      1</p> <p><input type="checkbox"/> 1-2 days    2</p> <p><input type="checkbox"/> 3-4 days    3</p> <p><input type="checkbox"/> 5-6 days    4</p> <p><input type="checkbox"/> Every day    5</p>	<p>27. On the days you use hearing aids, how many hours do you usually wear them?</p> <p><input type="checkbox"/> 1-4 hrs.      1</p> <p><input type="checkbox"/> 5-6 hrs.      2</p> <p><input type="checkbox"/> 7-8 hrs.      3</p> <p><input type="checkbox"/> 9-10 hrs.    4</p> <p><input type="checkbox"/> 11 hrs. or more    5</p>	<p>28. In situations where you need to improve your hearing, how often do you wear hearing aids?</p> <p><input type="checkbox"/> Always (100%)    5</p> <p><input type="checkbox"/> Usually (75%)    4</p> <p><input type="checkbox"/> Sometimes (50%) 3</p> <p><input type="checkbox"/> Rarely (25%)    2</p> <p><input type="checkbox"/> Never (0%)      1</p>
---	---	--

Table 1. Scoring strategy for the 3 items for subscale Use.

For all item scores, a bigger number is associated with a better outcome.

After completing the response conversion, scores for each subscale are calculated by averaging the scores for the items within each subscale. If responses to some of the items are missing, the subscale score is calculated by averaging the scores for the items with valid responses. The calculation results are rounded to one decimal place.

A criterion is set here that 2/3 or more of items in a subscale must be completed for a valid score (Table 2). Otherwise, no calculation will be applied for that subscale and “Not valid” will be displayed in the final score table.

Subscale	Number of items	
	DOSOs(a) (b)	DOSO
Speech Cues	5	10
Listening Effort	4	7
Pleasantness	3	3
Quietness	4	4
Convenience	3	3
Use	2	2

Table 2. Minimum number of items needed for valid scoring

