

TALSA Scoring Manual: Word/Nonword Repetition – Single Item v1.0

Test Description:

Word and Nonword Repetition is a test of the ability to repeat stimuli with lexical representations (i.e., words) and without lexical representation (i.e., phonotactically legal nonwords). The use of one and five second intervals between the stimulus and response assesses verbal short-term and working memory.

Test Variations:

1. Words – 1 second interval consisting of **8** items.
2. Words – 5 second interval consisting of **8** items.
3. Non- Words – 1 second interval consisting of **8** items.
4. Non- Words – 5 second interval consisting of **8** items.

Scoring each Question

Scoring is done on a 3-point scale as follows:

- 1** – Wrong answer
- 2** - Partially met criteria. Partial credit is allowed when the patient/client gives the correct answer but responds early (i.e., before the beep) or late (i.e., after the response screen has disappeared.) The clinician can indicate the reason in the comment section.
- 3** – Correct answer. Pluralization of words are counted as correct. Pluralization of nonwords are counted as incorrect.

Scoring the Subtest

1. Calculate the total raw score: Add up the point values for each item. For any 8-item form, the lowest possible raw score is 8; the highest possible raw score is 24. For the 12 item forms, the lowest possible raw score is 12; the highest possible raw score is 36.
2. Determine the T-score: Use the appropriate cross-walk table to determine the T-score. The T-score rescales the raw score into a standardized score with a mean of 50 and a standard deviation (SD) of 10. The standardized T-score is reported as the final score for each participant. The 95% confidence interval can be determined as $T\text{-score} \pm (1.96 * SE)$.

Note: All questions on the form must be answered in order to produce the most valid summed score. However, if a respondent answers at least 50% of the items (e.g. 4 items for any of the 8 item tests) the following algorithm can be used to derive a score. For these pro-rated raw scores, use caution when interpreting the final pro-rated T-score.

$$\text{Pro-rated raw summed score} = \frac{(\text{Sum of the item responses answered}) * (\text{number of items on the form})}{(\text{number of items actually answered})}$$

If the result is a fraction, round up to the nearest whole number.

Example: The patient answered only 6 items on an 8 item subtest and received a raw score of 13.

$$\frac{13 \times 8}{6} = 17.3 \rightarrow \text{so round to 17}$$

The T-score calculation is based on 171 subjects who completed 1 or more TALSA sub-tests between 2008 - 2019. These subjects consisted of both neurotypical controls (n=36) and subjects with aphasia (n=135). The inclusion of both neurotypical controls and adults with various levels of aphasia support measuring change across the spectrum of capabilities.

Response pattern scoring: TALSA instruments can also be scored using item-level calibrations referred to as “response pattern scoring” which provides a more accurate score as it is based on the actual pattern of the respondent’s answers (so based on exactly which items were correct or not). The TALSA investigators would be glad to support this if you contact us.

SCORE SHEET

[Wrong = 1 point, Partially Correct = 2 points, Correct = 3 points]

3.1 Word/Nonword Repetition Test - Word 1 sec.			
#	ITEMS	Points	Comments
	garden		
	ornament		
	puddle		
	rodeo		
	stick		
	telephone		
	lotion		
	chair		
RAW TOTAL (sum points)			
T-Score (from crosswalk table below)			Standard Error (from table below)
2.2 Word/Nonword Repetition Test - Word 5 sec.			
	ITEMS	Points	Comments
	cabinet		
	essay		
	campus		
	carrot		
	arm		
	file		
	hurricane		
	flag		
RAW TOTAL (sum points)			
T-Score (from crosswalk table below)			Standard Error (from table below)
2.3 Word/Nonword Repetition Test Nonwords 1 sec.			
	ITEMS	Points	Comments
	dustigy		
	sekeea		
	frab		
	glig		
	ipek		
	poodem		
	elu		
	tilis		
RAW TOTAL (sum points)			
T-Score (from crosswalk table below)			Standard Error (from table below)
2.4 Word/Nonword Repetition Test Nonwords 5 sec.			
	Items	Points	Comments
	hafil		
	muvaleep		
	eksofand		
	glone		
	fup		
	zakia		
	elek		
	difleem		
RAW TOTAL (sum points)			
T-Score (from crosswalk table below)			Standard Error (from table below)

Scoring Cross-walk Tables for converting Raw scores to T-scores

3.1 Word/Nonword Repetition Word -1 Second			
8-item Form: Sum Score to T-Score Conversion Table			
Raw Score	T-Score	Standard Error (SE)	Severity
8	26	1.6	Severe
9	28	1.6	
10	29	.95	
11	31	.95	
12	33	.95	
13	35	.95	
14	37	.90	
15	37	.90	
16	37	.90	
17	38	.90	
18	43	.90	Moderate
19	44	.95	
20	45	.95	
21	45	.95	
22	47	1.6	Mild
23	50	1.6	
24	59	1.6	WNL

3.2 Word/Nonword Repetition Word -5 Second			
8-item Form: Sum Score to T-Score Conversion Table			
Raw Score	T-Score	Standard Error (SE)	Severity
8	17	1.6	Severe
9	19	1.6	
10	22	.95	
11	25	.95	
12	27	.95	
13	29	.95	
14	33	.90	
15	35	.90	
16	37	.90	
17	40	.90	
18	42	.90	Moderate
19	44	.95	
20	47	.95	Mild
21	49	.95	
22	52	1.6	
23	54	1.6	
24	57	1.6	WNL

3.3 Word/Nonword Repetition Nonword -1 Second			
8-item Form: Sum Score to T-Score Conversion Table			
Raw Score	T-Score	Standard Error (SE)	Severity
8	30	1.8	Severe
9	32	1.8	
10	34	.96	
11	38	.96	
12	40	.96	
13	41	.93	Moderate
14	42	.91	
15	42	.91	
16	43	.91	
17	45	.91	
18	48	.96	Mild
19	50	.96	
20	51	.95	
21	53	.96	
22	55	1.8	WNL
23	58	1.8	
24	62	1.8	

3.4 Word/Nonword Repetition Nonword - 5 Second			
8-item Form: Sum Score to T-Score Conversion Table			
Raw Score	T-Score	Standard Error (SE)	Severity
8	30	1.8	Severe
9	33	1.8	
10	37	.96	
11	38	.96	
12	39	.96	
13	41	.93	Moderate
14	43	.91	
15	44	.91	
16	46	.91	
17	47	.91	
18	48	.96	Mild
19	49	.96	
20	53	.95	
21	55	.96	WNL
22	57	1.8	
23	60	1.8	
24	63	1.8	