

NIH Toolbox Words-In-Noise Test (WIN)

Availability:	Please visit this website for more information about this instrument: NIH Toolbox website
Classification:	Supplemental: Acute Hospitalized, Concussion/Mild TBI, Epidemiology, Moderate/Severe TBI: Rehabilitation Traumatic Brain Injury (TBI)
Short Description of Instrument:	<p>The Words-In-Noise (WIN) test is an instrument that quantifies a listener’s ability to understand speech in background multitalker babble (MTB) (Wilson, 2003). The (WIN) evaluates the ability of individuals to understand speech in background noise by the use of monosyllabic words (35 in total) in seven signal-to-noise ratios (SNR) [5 words presented in each 7 SNRs] of MTB (Wilson, Carnell, & Cleghorn, 2007).</p> <p>Ages: 6 – 85</p> <p>Administration Time: Approximately 6 minutes to administer</p>
Scoring:	<p>WIN is calculated in terms of the SNR at which 50% of the test items are correct (Wilson & McArdle, 2007). The 50% point is computed with the Spearman-Kärber equation (Finney, 1952; Wilson, Morgan, & Dirks, 1973). The 90th percentile for listeners with normal hearing is 6.0 dB (Wilson & McArdle, 2007).</p> <p>Scoring (# Correct, Threshold (in dB): Profound (1 – 7, 25.2 –20.4); Severe (8 –13, 19.6 – 15.6); Moderate (14 – 19, 14.8 – 10.8); Mild (20 – 24, 10.0 – 6.8); Normal (25 – 35, -2.0 – 6.0)</p>

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References:	<p>Key Reference: Wilson, R. H. (2003). Development of a speech-in-multitalker-babble paradigm to assess word-recognition performance. <i>J Am Acad Audiol</i>, 14(9), 453–470.</p> <p>Finney, D. J. (1952). <i>Statistical Method in Biological Assay</i>. London: C. Griffen.</p> <p>Wilson, R. H., Carnell, C. S., & Cleghorn, A. L. (2007). The Words-in-Noise (WIN) test with multitalker babble and speech-spectrum noise maskers. <i>J Am Acad Audiol</i>, 18(6), 522–529.</p> <p>Wilson, R. H., & McArdle, R. (2007). Intra- and inter-session test, retest reliability of the Words-in-Noise (WIN) test. <i>J Am Acad Audiol</i>, 18(10), 813–825.</p> <p>Wilson, R. H., Morgan, D. E., & Dirks, D. D. (1973). A proposed SRT procedure and its statistical precedent. <i>J Speech Hear Disord</i>, 38(2), 184–191.</p>
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