

Outcome Measure	Shipley-2
Sensitivity to Change	Yes
Population	Adult
Domain	Neuropsychological Impairment
Type of Measure	Objective test
ICF-Code/s	b1
Description	<p>The Shipley-2 is the second version of the Shipley Institute of Living Scale. It measures two aspects of cognition: crystallised knowledge and fluid reasoning.</p> <p>Crystallised knowledge is measured using a 40 item vocabulary scale. Respondents are required to look at each word and choose from four options the word that is closest in meaning. Fluid reasoning is measured using two options: (1) the Abstraction scale, which presents 25 sequence completion items, for example “white/black, short/long, down/ ? “, (2) the Block Patterns scale composed of 12 items where individuals are asked to select from 4 options, the block that will complete the design.</p> <p>The whole test takes 20 to 25 minutes to administer, however examiners can choose between using only the Abstraction scale or only the Block Patterns scale as a measure of fluid reasoning.</p> <p>The Impairment Index was designed to provide a means of determining impairment in cognitive ability. The assumption underlying this index is that individuals with cognitive impairment should show a discrepancy between crystallised knowledge and fluid reasoning. Equations are provided in the manual in order to calculate the difference between the vocabulary score and either the Abstraction scale or Block Patterns, taking into account years of education and age. The Shipley-2 Impairment Index Calculator lets you quickly calculate the AQ or BQ impairment index for the Shipley-2.</p>
Properties	<p><u>Internal Consistency:</u> For composite A (Vocab & Abstraction) estimates ranged from .88-.97 across age groups and for Composite B (Vocab & Block Patterns) estimates ranged from .91-.95. Internal consistency for the individual scales was predictably slighter lower but still acceptable, with .85-.92 for Vocabulary scale, .66-.91 for Abstraction, .88-.94 for Block Patterns.</p> <p><u>Test-Retest Reliability:</u> Across a 1-2 week delay, correlations were acceptable, ranging from .74 to .94.</p> <p><u>Construct Validity:</u> Interscale correlations showed that the two fluid scales correlated highly (.61) whereas each measure of fluid skills (as expected) correlated at a slightly lower level with the crytallised ability measure (Abstraction .49, Block Patterns, .38).</p>

	<p><u>Group discriminative Validity:</u> In a clinical sample of 340 adults from forensic, rehabilitation and private practice settings, all t-tests were significant at $p < .01$ and effect sizes were large ($es = 0.75 - 1.37$).</p> <p><u>Concurrent Validity:</u> In a sample of 263 adults, the Shipley 2 Composite scores and individual scales correlated highly with WAIS-III VIQ, PIQ and FSIQ (.62-.87). Moderate to high correlations were also found with the WIAT-II.</p>
Advantages	<ul style="list-style-type: none"> • Provides a quick estimate of cognitive ability. • Moderate to strong correlations with WAIS-III VIQ, PIQ and FSIQ. • Provides a measure of cognitive decline (Impairment Index) that may be a more useful tool for premorbid function than the NART or other reading tests. • Little verbal output required due to multiple choice format (Vocabulary and Block Patterns) and short written responses of no more than 6 letters or numbers (Abstraction).
Disadvantages	<ul style="list-style-type: none"> • If administering WAIS-IV or other Wechsler tests, all three scales tap similar abilities as the WAIS subtests Vocabulary, Similarities and Block Design. • No psychometric properties for the Impairment Index or correlations with WAIS-IV FSIQ estimates.
Additional Information	
Reviewers	Skye McDonald

References

Shipley, W.C., Gruber, C.P., Martin, T.A., & Klein, A.M. (2009). Shipley-2 Manual. Los Angeles, CA: Western Psychological Services.