

Resource Summary Report

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NIH Toolbox - Assessment of Neurological and Behavioral Function

RRID:SCR_002423

Type: Tool

Proper Citation

NIH Toolbox - Assessment of Neurological and Behavioral Function (RRID:SCR_002423)

Resource Information

URL: <http://www.nihtoolbox.org/>

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Description: An integrated set of tools for measuring cognitive, emotional, motor and sensory function. These tools are being validated for use in diverse cultures, ethnic and geographic groups, ages (3-85 years) and study types. The toolbox is expected to provide a more complete picture of neurological and behavioral health in large-scale longitudinal studies, epidemiological studies, and clinical trials; and to facilitate cross-study comparisons. Moreover, the toolbox will: * be minimally burdensome to subjects and investigators, * utilize state-of-the art psychometric approaches and technology, including computer-assisted evaluation, and * be dynamic and adaptable to changes in measurement and technology. * be available in English and Spanish Many clinical studies collect data on aspects of neurological and behavioral function. However, the neurological and behavioral tests currently available to researchers lack uniformity and often require specialized training to administer. These limitations make it difficult to compile data across the full range of normal neurological function, and to compare data across studies. The toolbox is royalty-free and is expected to be available online by summer 2012.

Abbreviations: NIH Toolbox

Synonyms: NIH Toolbox - Assessment of Neurological Behavioral Function, NIH Toolbox for Assessment of Neurological and Behavioral Function, NIH Toolbox for the Assessment of Neurological and Behavioral Function

Resource Type: material resource, assessment test provider

Keywords: cognitive, motor, emotional, sensory, epidemiology, prevention, computerized adaptive testing, disease, cognition, executive function, episodic memory, working memory, speed, language, attention, emotion, negative affect, positive affect, stress,

coping, social, relationship, motor, locomotion, strength, non-vestibular, dexterity, endurance, sensation, vision, audition, vestibular, somatosensation, neurological assessment, behavioral assessment, taste, olfaction, learning, memory, lexical retrieval, visuospatial ability, speed of processing, mood, adaptability, interpersonal relations, self-regulation, motor function, non-vestibular balance, hearing, vestibular balance, smell, touch, adult human, late adult human, child, psychometric test, measurement tool

Funding: WO HHS-N-260-2006-00007-C

Availability: Free, Available for download, Freely available

Resource Name: NIH Toolbox - Assessment of Neurological and Behavioral Function

Resource ID: SCR_002423

Alternate IDs: nif-0000-00393

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260808T190440+0000

Ratings and Alerts

No rating or validation information has been found for NIH Toolbox - Assessment of Neurological and Behavioral Function.

No alerts have been found for NIH Toolbox - Assessment of Neurological and Behavioral Function.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 105 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Luciana M, et al. (2026) The longitudinal structure of cognition in the ABCD study and associations with neural function and psychopathology: A Bayesian probabilistic principal components analysis. *Developmental cognitive neuroscience*, 80, 101744.

Wolfe T, et al. (2026) Population-Level Age Effects on the White Matter Structure Subservicing Cognitive Flexibility in the Human Brain. *eNeuro*, 13(2).

Wilcox RR, et al. (2026) The network architecture of general intelligence in the human connectome. *Nature communications*, 17(1).

Hoad KL, et al. (2026) The role of prehabilitation in improving brain health and cognition after chemotherapy in patients with colorectal cancer: Study protocol of the Chemo Brain Prehab Project. PloS one, 21(3), e0341996.

Dulyan L, et al. (2026) Manifold lateralisation and variability in the language connectome at 7T. Research square.

Byrne H, et al. (2026) Brain network features predating early alcohol initiation in adolescence. Translational psychiatry, 16(1).

Wang Z, et al. (2025) Resting state fMRI-based temporal coherence mapping. Imaging neuroscience (Cambridge, Mass.), 3.

Li H, et al. (2025) Altered neurobehavioral white matter integrity in preterm children: A confounding-controlled analysis using the adolescent brain and cognitive development (ABCD) study. NeuroImage, 323, 121600.

Wolfe T, et al. (2025) "Population-level age effects on the white matter structure subserving cognitive flexibility in the human brain". bioRxiv : the preprint server for biology.

Di Giorgio E, et al. (2025) Neurobehavioral Outcomes Relate to Activation Ratio in Female Carriers of Fragile X Syndrome Full Mutation: Two Pediatric Case Studies. International journal of molecular sciences, 26(2).

Plank JR, et al. (2025) Quantitative T1 mapping indicates elevated white matter myelin in children with RASopathies. medRxiv : the preprint server for health sciences.

Jung K, et al. (2025) Effective workflow from multimodal MRI data to model-based prediction. Scientific reports, 15(1), 20126.

Ece B, et al. (2025) A pilot study of remote cognitive assessment in children using the NIH toolbox participant/examiner app. Scientific reports, 15(1), 36204.

Weissberger GH, et al. (2025) The Cognitive Correlates of Financial Literacy in Older Adults. Clinical gerontologist, 48(3), 459.

Bomyea J, et al. (2025) A randomized controlled trial of computerized cognitive training to improve working memory in individuals with elevated repetitive negative thinking: Behavioral and neural outcomes. Journal of mood and anxiety disorders, 9, 100095.

Cobden AL, et al. (2025) A novel ecological momentary assessment app for the investigation of daily cognitive functioning in breast cancer survivors: a feasibility study. Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer, 33(5), 434.

Liang X, et al. (2025) Functional divergence between the two cerebral hemispheres contributes to human fluid intelligence. Communications biology, 8(1), 764.

Donohue B, et al. (2024) Accelerating Heritability, Genetic Correlation, and Genome-Wide Association Imaging Genetic Analyses in Complex Pedigrees. Human brain mapping, 45(17), e70044.

Jensen DEA, et al. (2024) Nuclei-specific hypothalamus networks predict a dimensional marker of stress in humans. *Nature communications*, 15(1), 2426.

Newson JJ, et al. (2024) Leveraging big data for causal understanding in mental health: a research framework. *Frontiers in psychiatry*, 15, 1337740.