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, nneurological 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: 20260801T191039+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 90 mentions in open access literature.

Listed below are recent publications. The full list is available at ASWG .

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.

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

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).

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.

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

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

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.

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.

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

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.

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.

Wang Z, et al. (2024) Resting state fMRI-based brain information flow mapping. ArXiv.

Ramduny J, et al. (2024) Increasing the representation of minoritized youth for inclusive and reproducible brain-behavior associations. bioRxiv : the preprint server for biology.

Feraco T, et al. (2024) Happy children! A network of psychological and environmental factors associated with the development of positive affect in 9-13 children. PloS one, 19(9), e0307560.

Santacroce F, et al. (2024) Human intraparietal sulcal morphology relates to individual differences in language and memory performance. Communications biology, 7(1), 520.

Hartman SJ, et al. (2024) Relationship of physical activity and cognitive functioning among breast cancer survivors: a cross-sectional analysis. Frontiers in Cognition, 3.

Abbas M, et al. (2024) Interconnected declines in audition vision and cognition in healthy aging. Scientific reports, 14(1), 30805.

Ng J, et al. (2024) Higher general intelligence is associated with stable, efficient, and typical dynamic functional brain connectivity patterns. Imaging neuroscience (Cambridge,

Mass.), 2.