

Purpose:	The NIH Toolbox, part of the NIH Neuroscience Blueprint initiative, seeks to develop brief yet comprehensive assessment tools measuring motor, cognitive, sensory, and emotional function. Upon completion, the Toolbox will be available for use in longitudinal epidemiologic studies and prevention or intervention trials for people ages 3-85.		
Additional Objectives:	 Enable cross-study comparisons and integration of data from multiple studies by providing a standard set of brief, well-validated measures Dynamic/adaptable over time Utilize state-of-the-art psychometric and technological approaches including computerized adaptive testing (CAT) and computer assisted evaluation Cover the full range of normal function (not disease states) Be used as the basis for detecting at-risk populations Be minimally burdensome to subjects and investigators 		
Domains: *instrument list follows	 Cognition: Executive Function, Episodic Memory, Working Memory, Processing Speed, Language, Attention Emotion: Negative Affect, Psychological Well-Being, Stress & Self- Efficacy, Social Relationships Motor: Locomotion, Strength, Non-Vestibular Balance, Endurance, Dexterity Sensation: Vision, Audition, Vestibular Balance, Somatosensation, Taste, Olfaction, Pain 		
Testing Samples:	 300-600 per each of 47 instruments for validating instruments Normed on 5,200 subjects English and Spanish, ages 3-85 Stratified random sampling from recruitment lists maintained at ten geographically diverse market research firms Single year age bands 3-17, 7 adult bands through 85 Census balanced by age, race, ethnicity and education Separate English and Spanish samples 		
Languages:	English and Spanish		
Current Status:	Current work includes final analyses of norming data, completion of technology, and development of manuals and training materials.		
More Information:	To learn more about the Toolbox, please visit our website www.nihtoolbox.org		
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	Subdomain	Instrument	Status
Cognition	Episodic Memory-Visual	Picture Sequence Memory	Toolbox measure
	Executive Function-Cognitive Flexibility	Dimensional Change Card Sort	Toolbox measure
	Executive Function-Inhibitory Control and Attention	Flanker Inhibitory Control and Attention	Toolbox measure
	Language-Vocabulary Comprehension	Picture Vocabulary	Toolbox measure
	Processing Speed	Pattern Comparison Processing Speed	Toolbox measure
	Working Memory	List Sorting	Toolbox measure
	Language-Reading Decoding	Oral Reading Recognition	Toolbox measure
	Verbal Memory	Auditory Verbal Learning (Rey)	Supplemental measure
	Processing Speed	Oral Symbol Digit	Supplemental measure
	Negative Affect	Age specific measures of Sadness, Fear, Anger	Toolbox measure
Emotion	Psychological Well-Being	Age specific measures of Positive Affect, Life Satisfaction, Meaning and Purpose	Toolbox measure
	Social Relationships	Age specific measures of Social Support, Companionship, Social Distress, Positive Social Development	Toolbox measure
	Stress and Self-Efficacy	Age specific measures of Perceived Stress, Self-Efficacy	Toolbox measure
	Negative Affect	Age specific measure of Apathy	Supplemental measure
	Positive Affect	Age specific measure of domain-specific life satisfaction	Supplemental measure
	Social Relationships	Age specific measures of Social Network Integration	Supplemental measure
	Stress and Self-Efficacy	Age specific measures of coping strategies	Supplemental measure
	Dexterity	9-hole Pegboard Dexterity	Toolbox measure
	Endurance	2-minute Walk Endurance	Toolbox measure
Motor	Locomotion	4-meter Walk Gait Speed	Toolbox measure
	Strength-Upper Extremity	Grip Strength	Toolbox measure
	Vestibular Balance-Vestibulo Spinal Function	Standing Balance	Toolbox measure
	Strength-Lower Extremity	Knee Extension Strength	Experimental measure
Sensory	Audition-Hearing Threshold	Hearing Thresholds	Toolbox measure
	Olfaction-Identification	Odor Identification Test	Toolbox measure
	Pain	Self-Reported Pain	Toolbox measure
	Taste-Ability to Perceive Taste in Different Regions of		
	Oral Cavity Vestibular Balance-Vestibular	Regional Taste	Toolbox measure
	Ocular Reflex	Dynamic Visual Acuity	Toolbox measure
	Vision-Acuity	Visual Acuity	Toolbox measure
	Audition-Hearing Loss	Hearing Handicap Inventory for Adults - Short Form	Supplemental measure
	Audition-Speech Processing	Words-in-Noise	Supplemental measure
	Vision-Visual Function HRQOL	Vision-Related Quality of Life Survey	Supplemental measure
	Proprioception	Brief Kinesthesia	Experimental measure
	Somatosensation-Texture Discrimination	Brief Tactile Discrimination	Experimental measure
	Taste-Sweet Preference	Sucrose Preference	Experimental measure