

## Supplementary Materials

**Table S1.** A summary of neurobehavioral tests and questionnaires used in the selected articles.

Function	Name of test	Target population (age of exposed)	References *(edition of the test)
Neurobehavioral test sets for at least 3 domains most frequently used in studies			
Verbal Comprehension, Perceptual Reasoning, Working Memory, and Processing Speed. Full scale IQ	Wechsler Intelligence Scale for Children, 4th edition (WISC-IV)	Non-occupational (school age children)	van Wendel de Joode B. et al, 2016; Rowe C. et al, 2016; Gunier R. et al, 2018; Gaspar F. et al, 2015; Bouchard M. et al, 2011; Furlong M. et al , 2017; Engel S. et al, 2011; Sagiv S. et al, 2012 (3 <sup>rd</sup> edition); Andersen H. et al, 2014 (Revised edition); Viel J. et al, 2015; Cartier C. et al, 2016; Rauh V. et al, 2015; Horton M. et al, 2012; Gonzalez-Alzaga B. et al, 2015;
Mental development index (MDI), Psychomotor development index (PDI)	Bayley Scales of Infant Development, 2nd edition	Non-occupational (infants)	Eskenazi B. et al, 2010; Engel S. et al, 2011; Watkins D. et al, 2016; Lovasi G. et al, 2011; Horton M. et al, 2012; Woskie S. et al, 2017 (3 <sup>rd</sup> edition); Donauer S. et al, 2016; Yamazaki K. et al, 2017; J. Forns et al, 2012; Llop S. et al 2013 (1 <sup>st</sup> edition); Torres-Sánchez L. et al, 2009; Bahena-Medina et al., 2011; Eskenazi B. et al., 2018; Jusko TA et al, 2012 (1 <sup>st</sup> edition)
Neurodevelopment	Brazeltton Neonatal Behavioral Assessment Scale (NBAS), Neonatal Behavioral Neurological Assessment (NBNA)	Non-occupational (neonates, infant)	Woskie S. et al, 2017; Zhang Y et al. 2015; Bahena-Medina et al., 2011
Behavioral problems, cognitive	A Developmental NEuroPSYchological Assessment (NEPSY-II)	Non-occupational (children)	Rowe C. et al, 2016; Suarez-Lopez J et al, 2013; Sagiv S. et al, 2012
Neurodevelopment	Ages and stages questionnaire (parent report)	Non-occupational (infant)	Cordier S et al, 2015;
Attention, response speed, memory, and coordination	Behavioral Assessment and Research System (BARS)	Occupational, non-occupational (children, adolescent; adult)	Ismail A. et al, 2017; Butler-Dawson J et al, 2016; Fiedler N. et al, 2015; Ismail AA et al, 2018;
Neurobehavioral function	WHO recommended neurobehavioral core test battery (NCTB)	Occupational (adult)	Cui M et al, 2015
Cognitive function test sets most frequently used in studies			
Cognitive impairment	Mini-Mental State Examination (MMSE)	Occupational, non-occupational (adult, elderly)	Corral S. et al, 2017; Munoz-Quezada M. et al, 2013; Baldi I et al, 2011; Bayrami M. et al, 2012; Berent S et al, 2014; Paul KC et al, 2018; Blanc-Lapierre A. et al, 2012;
Visuospatial construction and visual memory	Rey-Osterrieth Complex Figure Test (ROCF)	Occupational, non-occupational (children, adult)	Corral S. et al, 2017; Munoz-Quezada M. et al, 2016; van Wendel de Joode B. et al, 2016
Intelligence and cognitive ability	Wechsler Adult Intelligence Scale Revised (WAIS-R)	Occupational (adolescent, adult)	Munoz-Quezada M. et al, 2016; Ismail A. et al, 2017; Abdel Rasoul G. et al, 2008;
Visual perception, visual memory	Benton visual retention test (BVRT)	Occupational (adolescent, adult)	Munoz-Quezada M. et al, 2016; Rohlman D. et al, 2014; Baldi I et al, 2011; Blanc-Lapierre A. et al, 2012;
Cognitive function	Digit Symbol Substitution Test (DSST)	Occupational, non-occupational (adult, elderly)	Starks S. et al, 2012; Krieg EF 2013;
Memory and attention	Digit span test (DST)	Occupational, non-occupational (children, adolescent, adult)	Corral S. et al, 2017; Rohlman D. et al, 2014; Harari R. et al, 2010
Cognitive function	McCarthy Scales of Children's Abilities	Non-occupational (children)	Torres-Sánchez L. et al, 2009; Osorio-Valencia E. et al, 2015; Puertas R. et al, 2010
Motor function test sets most frequently used in studies			
Manual motor speed	Finger Tapping Test	Occupational, non-occupational (children, adult)	Andersen H. et al, 2015; Baldi I. et al, 2011; Blanc-Lapierre A. et al, 2012; Starks S. et al, 2012; Harari R. et al, 2010
Psychological function test sets			

Depression	Beck Depression Inventory-Second Edition (BDI-II)	Occupational (adult)	Conti CL et al, 2018; Harrison V., MacKenzie Ross S. 2016
Behavioral problems	Conner's Parent Rating Scale-Revised (CPRS-R)	Occupational, non-occupational (children, adolescents)	van Wendel de Joode et al, 2016; Rohlman D. et al, 2019;
Attention, impulse control	Connors' Continuous Performance Test II	Occupational, non-occupational (children, adult)	Andersen H. et al, 2015; Forns J et al, 2012; Sagiv S. et al, 2012; Starks S. et al, 2012; Harari R. et al, 2010; Rowe C. et al, 2016
Neurobehavioral problems	Self-report or parent report based on specific questions	Occupational, non-occupational (children, adult)	Malekiran A. et al, 2013; Rohitattana J. et al, 2014; Ismail AA et al, 2017;
Behavioral problems	Child Behavior Checklist (CBCL)	Non-occupational (children)	Rowe C. et al, 2016; Eskenazi B. et al, 2010;
Behavioral problems	Behavior Assessment System for Children (BASC), all versions	Non-occupational (children)	Gunier R. et al, 2018; Sagiv S. et al, 2018; Furlong M. et al , 2017;
Behavioral problems	Strengths and Difficulties Questionnaire (SDQ)	Non-occupational (children)	Viel J-F. et al, 2017; Ouhote Y, Bouchard MF. 2013
Behavioral problems (Autism spectrum and related disorders)	Social Responsiveness Scale, Version (SRS-2)	Non-occupational (children)	Sagiv S. et al, 2018; Furlong M. et al, 2014; Millenson ME et al, 2017
Attention deficit/hyperactivity disorders	The Diagnostic Interview Schedule for Children (DISC-IV)	Non-occupational (children)	Bouchard M. et al, 2011; Wagner-Schuman M. et al, 2015
ADHD, ASD, depression, dementia/cognitive impairment	Clinically diagnosed case-control studies and/or questions such as: "Has the doctor ever diagnosed you/child with...?"	Non-occupational, occupational (children, adult, elderly)	Yu C. et al, 2016; Philippat C. et al, 2018; Beseler C. et al, 2008; Beard J. et al, 2014; Lee D-H et al, 2016; Weisskopf MG et al, 2013; Xu X et al, 2011; Christian MA et al, 2018; Lyall K. et al, 2017; Schmidt R. et al, 2017; Quirós-Alcalá L. et al, 2012; Domingues VF et al, 2016
Test sets used only in 1 or 2 studies			
Cognitive function	<p>Stroop Test; d2 Test of Attention; Frontal Assessment Battery (FAB); Semantic Verbal Fluency, Barcelona Sub-test for Animals and Letter P; The Five Words Test (FWT), Part A of the Trail Making Test (TMT), The Isaacs Set Test (IST),</p> <p>Grooved Pegboard</p> <p>Wide Range Achievement Test-Third Edition (WRAT-3); Reaction time (RTI); Rapid Visual Information Processing (RVIP); Matching to Sample Visual Search Change Score in milliseconds (MTS); Delayed Matching to Sample (DMS); CogniSyst Story Recall Test (CSRT); Stockings of Cambridge (SOC) Moves; Motor Performance Series (MPS); Brief Symptom Inventory (BSI)</p> <p>Event-related potential (ERP)</p> <p>Spanish English Neuropsychological Assessment Scales (SENAS), Spanish and English Verbal Learning Test (SEVLT)</p>	<p>Occupational (adult)</p> <p>Non-occupational (elderly)</p>	<p>Corral S. et al, 2017; Baldi I. et al, 2010; Blanc-Lapierre A. et al, 2012;</p> <p>Starks S. et al, 2012</p> <p>Berent S. et al, 2014</p> <p>Dassanayake T. et al, 2009</p> <p>Paul KC et al, 2018</p>
Motor function	Auditory Verbal Learning Test (AVLT), Sequences	Occupational (adults)	<p>Starks S. et al, 2012</p> <p>Sunwook K. et al, 2016</p>

	<p>Otoscopy, audiometry, random gap detection test, dichotic digit test</p> <p>Postural control test</p> <p>Transient Evoked Otoacoustic Emissions (TEOAE) and Distortion Product Otoacoustic Emissions (DPOAE)</p> <p>Visual evoked potentials</p> <p>Peabody Developmental Motor Scales (PDMS-2)</p> <p>Eye-Hand Coordination subtest of the Frostig Developmental Test of Visual Perception, 2nd edition (DTVP-2)</p> <p>Wide Range Assessment of Visual Motor Ability (WRAVMA) pegboard test</p> <p>Snellen chart, Lanthony Desaturated D-15 (LDD-15)</p> <p>Teller acuity card (TAC), Auditory brainstem response (ABR)</p> <p>Odor identification; odor threshold;</p> <p>Fagan test of infant intelligence (FTII),</p> <p>Brunet-Lezine scale of psychomotor development of early childhood (revised Brunet-Lezine)</p>	Non occupational (children)	Alcarás PAS et al, 2013; Cartier C. et al, 2014 Silver M. et al, 2017 van Wendel de Joode B. et al, 2016; Sturza J. et al, 2016 Quandt SA et al, 2017 Dallaire R. et al, 2012
Cognitive function or neurodevelopment	<p>Serial digit learning, Simple reaction time, Stanford-Binet IV Memory for Sentences; The Woodcock-Johnson III Tests of Cognitive Abilities (WJ-III)</p> <p>Verbal Comprehension; Raven's Colored Progressive Matrices; Archimedes spiral</p> <p>Chinese Binet test, arithmetic test, picture completion test, maze test, and cancellation test</p> <p>Gesell Developmental Schedules (GDS)</p> <p>NICU Network Neurobehavioral Scale (NNNS)</p> <p>Mullen Scales of Early Learning; MacArthur-Bates Communicative Development Indices</p> <p>the Developmental Coordination Disorder Questionnaire</p> <p>2007 (DCDQ'07). Parent report</p> <p>Cultural fair intelligence tests (Cattell 2 test)</p> <p>Graham-Rosenblith Scale</p> <p>Wide Range Assessment of Memory and Learning (WRAML)</p> <p>Wechsler Preschool and Primary Scales of Intelligence-III (WPPSI-III)</p>	Non-occupational (children)	Andersen H. et al, 2015; Krieg EF 2013; Rauh V. et al, 2015 Wang N. et al, 2016 Wang Y. et al, 2017; Guodong D. et al, 2012 Yolton et al, 2013 Pan I-J et al, 2009 Høyer et al., 2015 Hallit S. et al, 2019 Bahena-Medina et al., 2011 Orenstein S. et al, 2014; Furlong M. et al , 2017; Engel S. et al, 2011 Ostrea EM et al, 2012

	Griffiths Mental Developmental Scale		
ASD	ADOS (Autism Diagnostic Observation Schedule), Social Communication Questionnaire (SCQ), Mullen Scales of Early Learning (MSEL)	Non-occupational (children, mothers)	Philippat C. et al, 2018
Depression	[Brief Symptom Inventory (BSI), Postpartum Bonding Questionnaire (PBQ), Mother-to-Infant Bonding Scale (MIBS) and Edinburgh Postnatal Depression Scale (EPDS)]		Yalçın S. et al, 2014
	Hospital Anxiety and Depression Scale		
	Beck Anxiety (BAI)		
	Short-Form Geriatric Depression Scale (SGDS)		Harrison V., MacKenzie Ross S. 2016
	Hillside Behavior Rating Scale		
	Behavior Rating Inventory of Executive Functioning (BRIEF)		Koh S-B. et al, 2017; Kim J et al, 2013
Behavioral problems	Facial Expression Recognition Test		Rowe C. et al, 2016
			Furlong M. et al, 2017
			Sagiv S. et al, 2018