

## 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  | Brazelton 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  |   |  |  |

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|  | <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) | <p>Alcarás PAS et al, 2013;</p> <p>Cartier C. et al, 2014</p> <p>Silver M. et al, 2017</p> <p>van Wendel de Joode B. et al, 2016;</p> <p>Sturza J. et al, 2016</p> <p>Quandt SA et al, 2017</p> <p>Dallaire R. et al, 2012</p>   |
| 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 (NNS)</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) | <p>Andersen H. et al, 2015; Krieg EF 2013;</p> <p>Rauh V. et al, 2015</p> <p>Wang N. et al, 2016</p> <p>Wang Y. et al, 2017; Guodong D. et al, 2012</p> <p>Yolton et al, 2013</p> <p>Pan I-J et al, 2009</p> <p>Høyer et al., 2015</p> <p>Hallit S. et al, 2019</p> <p>Bahena-Medina et al., 2011</p> <p>Orenstein S. et al, 2014;</p> <p>Furlong M. et al , 2017; Engel S. et al, 2011</p> <p>Ostrea EM et al, 2012</p> |

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|---------------------|--|--------------------------------------|---|
|                     | 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)   |                                      | Harrison V., MacKenzie Ross S. 2016     |
|                     | Short-Form Geriatric Depression Scale (SGDS)   |                                      |   |
|                     | Hillside Behavior Rating Scale   |                                      | Koh S-B. et al, 2017; Kim J et al, 2013 |
| Behavioral problems | Behavior Rating Inventory of Executive Functioning (BRIEF)   |                                      | Rowe C. et al, 2016                     |
|                     | Facial Expression Recognition Test   |                                      | Furlong M. et al, 2017                  |
|                     |  |                                      | Sagiv S. et al, 2018                    |