

Other Developmental Screening Tools

August 19, 2008

Choices for Practices and Providers

Name of Tool	Description of the Tool	Age Range	Adminis- tration Time	Accuracy* & Psychometric Properties	Available Languages
Social-Emotional and Behavioral Screening Tools					
ASQ-SE - Ages & Stages Questionnaires: Social-Emotional - Parental-report about a child's social and emotional behavior	8 color-coded age-specific questionnaires that screen for personal and social skills, including self regulation, compliance, communication, adaptive functioning, autonomy, affect, and interaction with people. Questionnaires contain 22-36 items (answered <i>most of the time, sometimes, rarely or never</i>).	6 to 60 months	10-20 minutes + 1-3 minutes to score	Reliability is 0.94. Validity is 0.75-0.89. Investigated with more than 3,000 children (and their families) across age intervals.	English and Spanish
<i>Note: Additional screening tools for social & emotional issues should be added to reflect the recommendations of the Mental Health Toolkit, being developed by the American Acad. Health Task Force, expected by early 2009.</i>					
Autism Screening Tools					
M-CHAT⁺A21dified Checklist for Autism in Toddlers - Parent-completed questionnaire	Questionnaire designed to identify children at risk of autism from the general population.	16-48 months	5-10 minutes	Sensitivity: 0.85-0.87 (moderate); Specificity: 0.93-0.99 (high). Standardization sample included 1,293 children screened, 58 evaluated, and 39 diagnosed with an autistic spectrum disorder; validated using ADI-R, ADOS-G, CARS, DSM-IV.	English, Spanish, Turkish, Chinese, and Japanese
PDDST-II - Pervasive Developmental Disorders Screening Test-II, Stage 1-Primary Care Screener - Parent-completed questionnaire	Questionnaire designed to identify children at risk of autism and pervasive developmental disorders from the general population.	12-48 months	10-15 minutes to complete; 5 minutes to score	No sensitivity/specificity data reported for screening of an unselected sample; sensitivity: 0.85-0.92 (moderate to high); specificity: 0.71-0.91 (moderate to high). Validated using extensive multimethod diagnostic evaluations on 681 children at risk of autistic spectrum disorders and 256 children with mild-to-moderate other developmental disorders.	English
STAT - Screening Tool for Autism in Two-Year-Olds - Directly administered tool	Designed as second-level screen to detect children with autism from other developmental disorders. Assesses behaviors in 4 social-communicative domains: play, requesting, directing attention, and motor imitation.	24-35 months	20 minutes	Sensitivity: 0.83-0.92 (moderate to high); specificity: 0.85-0.86 (moderate). Two samples were used: for development phase, 3 children with autism, 33 without autism; for validation sample, 12 children with autism, 21 without autism; validated using CARS, ADOS-G, nad DSM-IV criteria; second-level screen; requires training workshop before administration.	English

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SCQ - Social Communication Questionnaire (formerly Autism Screening Questionnaire-ASQ) - <i>Parent-completed questionnaire</i>	Designed to identify children at risk of autistic spectrum disorders from the general population. Based on items in the ADI-R.	≥4years	5-10 minutes	Sensitivity: 0.85 (moderate); specificity: 0.75 (moderate). Validated using the ADI-R and DSM-IV on 200 subjects (160 with pervasive developmental disorder, 40 without pervasive developmental disorder); for use in children with mental age of at least 2 years and chronologica; age ≥4 years; available in 2 forms: lifetime and current.	English and Spanish
Language and Cognitive Screening Tools					
CSBS-DP - Communication and Symbolic Behavior Scales-Developmental Profile: Infant Toddler Checklist - <i>Parent-completed screening tool</i>	Standardized tool for screening of communication and symbolic abilities. The Infant Toddler Checklist is a 1 page long.	6-24 months	5-10 minutes	Sensitivity: 0.76-0.88 in low-and at-risk children at 2 years of age (moderate); specificity: 0.82-0.87 in low and at-risk children at 2 years of age (moderate). Standardized on 2,188 North American children aged 6-24 months; correlations: 0.39-0.75 with Mullen Scales at 2 years of age.	English
ELM Scale-2 - Early Language Milestone Scale	Assesses speech and language development.	0-36 months	1-10 minutes	Sensitivity: 0.83-1.00 in low-and high-risk populations (moderate to high); specificity: 0.68-1.00 in low-and high-risk populations (low to high). Small cross-sectional standardization sample of 191 children; 235 children for speech intelligibility item.	English
Motor Screening Tools					
EMPP - Early Motor Pattern Profile <i>Physician-administered standard examination</i>	Physician-administered standard examination of movement, tone, and reflex development. Simple 3-point scoring system.	6-12 months	5-10 minutes	Sensitivity: 0.87-0.92 (moderate to high); specificity: 0.98 (high). Single published report of 1,247 high-risk infants.	English
MQ - Motor Quotient	Uses simple ratio quotient with gross motor milestones for detecting delayed motor development.	8-18 months	1-3 minutes	Sensitivity: 0.87 (moderate); specificity: 0.89 (moderate). Single published report of 144 referred children.	English

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Specialized Screening Tools - Covering Multiple But Not All Developmental Domains					
BDI-ST - Battelle Developmental Inventory Screening Tool, 2nd ed. - <i>Directly administered tool</i>	Designed to screen personal-social, adaptive, motor, communication, and cognitive development. Results in pass/fail score and age equivalent. Can be modified for children with special needs.	Birth to 95 months	10-15 minutes (< 3 years old) or 20-30 minutes (≥3 years old)	Sensitivity: 0.72-0.93 (moderate to high); specificity: 0.79-0.88 (moderate). Normed on 2,500 children, demographic information matched 2000 US Census data; additional bias reviews performed to adjust for gender and ethnicity concerns.	English and Spanish
BINS - Bayley Infant Neuro- developmental Screen - <i>Directly administered tool</i>	Series of 6 item sets screening basic neurologic functions; receptive functions (visual, auditory, and tactile input); expressive functions (oral, fine, and gross motor skills); and cognitive processes. Results in risk category (low, moderate, high risk).	3-24 months	10 minutes	Sensitivity: 0.75-0.86 (moderate); specificity: 0.75-0.86 (moderate). Normed on ~1700 children, stratified on age, to match the 2000 US Census.	English and Spanish
Brigance Screens - <i>Directly administered tool. Can also use parental- report for 0-23 months.</i>	Series of 9 forms screening articulation, expressive and receptive language, gross motor, fine motor, general knowledge, and personal-social skills and pre-academic skills (when appropriate).	0-90 months	10-15 minutes	Sensitivity: 0.70-0.80 (moderate); specificity: 0.70-0.80 (moderate). Normed on 1,156 children from 29 clinical sites in 21 states.	English and Spanish
*There are two types of accuracy. Sensitivity refers to the percentage of children <i>with a disability</i> or problem who are correctly identified by the screening tool. Specificity refers to the percentage of children problem who are correctly identified by the screening tool.					

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