Developmental Screening Observational Instruments

Developmental and social-emotional screening of young children (0-5 years of age) in Minnesota (www.health.state.mn.us).

Note: These developmental screening tools do not adequately address social-emotional (SE) development; separate SE screening is recommended.

Screening Instrument	Battelle Developmental Inventory, 3rd ed. (BDI-3) Screening Test: 2020	Brigance Early Childhood Screens III: 2013	Developmental Indicators for Assessment of Learning, 4th ed. (DIAL-4): 2011	Minneapolis Preschool Screening Instrument, Revised (MPSI-R): 2016
Age Span Targeted by Tool	Birth to 7 years 11 months	0 to 35 months 3 to 5 months Kindergarten and 1st grade	2 years 6 months to 5 years 11 months	3 to 6 years
Purpose	Determines which areas of development, that may need a comprehensive assessment to identify developmental problems	To identify quickly and accurately those who may have developmental problems such as language impairments, learning disabilities	Screener designed to identify children who are in need of intervention or diagnostic assessment	Brief screener to identify students with early developmental problems who may be in need of early childhood special education services
Developmental Areas or Methods	Cognitive Communication Adaptive Motor Social-emotional	Receptive Language Expressive Language Fine-Motor Gross-Motor Self-help Social-Emotional	Language Motor Concepts Self-Help Social-emotional	Cognitive Language Fine motor Gross motor
Reliability	Internal consistency: 0.89-0.94 Inter-rater: 0.75-0.99	Internal consistency: 0.94-0.98 Test-retest: 0.92-0.99 Inter-rater: 0.93-0.96	Internal consistency: 0.83 - 0.95 Test-retest: 0.80	Internal Consistency: MPSI-R-ENG: 0.90 MPSI-R-ELL: 0.91 Test-retest and inter/intra-rater reliability unknown
Sensitivity	80% – 94%	81% – 93%	67% – 87%	71% – 83%
Specificity	76% – 84%	86% – 94%	73% – 91%	89% – 93%

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Other Validity Criteria	Extensive validity studies, see technical manual for more information	Concurrent validity: 0.51 – 0.99 Convergent validity: 0.26 -0.68	Construct validity: sufficient across measures; see manual for more information.	Concurrent validity: MPSI-R-ENG: 0.76 with ESI-R (3 years) With BDI: 3 years: 0.51 4 years: 0.68 MPSI-R-ELL: 0.67 with ESI-R
Practicality (time to administer/ score, ease of administration)	10-30 minutes to administer 15-30 minutes to score	10-15 minutes to administer 2 minutes to score	30-45 minutes to administer 10-15 minutes to score	12-15 minutes to administer 2-5 minutes to score
Cultural, Ethnic, Linguistic Sensitivity	Available in English and Spanish update due in 2021 2020 Normed cut-off scores based on projected 2020 census data.	Available in English and Spanish Normed: no	Available in English and Spanish Normed: yes	Available in English, Spanish, Somali, and Hmong. Normed: yes
Minimum Expertise for Screeners and Scorers	3-hour training, knowledge, and skills related to child development: early childhood education, employment testing, education, career counseling and healthcare setting.	Those involved with administering the Screens should have experience and background in child development. Consult manual prior to screening and scoring.	Trained professional or paraprofessional who demonstrates competence in administering and scoring one DIAL-4 performance area and the ability to relate to young children of any linguistic or cultural background.	Can be done by educational assistant/ paraprofessional ELL forms need a trained interpreter to work with administrator. Training required from MPS: 3 hours to train a trainer and 1.5 hours to train administrators.
Training Method	Refer to manual 3 one-hour online training modules on instrument plus practices recommended	Refer to manual Video or live courses available	Refer to manual Included DIAL-4 and modules online or live training	Refer to manual Live training and DVD
Online or Electronic Component	Online scoring and reporting available, optional subscription does not require internet	Online scoring available	Online scoring and reporting are available	None
Cost (Costs change over time; contact publisher for current cost)	BDI-3 Screener Test with Examiners Manual and Screener Manipulatives 1 year subscription $374.50	Complete Assessment (0-35 months or 3-5 years) kits $529.00 Refer to publisher's website for products and pricing	$649 per complete kit, $35 - $88 for material refills, training DVD is available for $110.25, $1.00 for 1 online usage	$65.00 for kit
Publisher's Website or Contact for Instrument	Riverside Insights (www.riversideinsights.com)	Curriculum Associates (www.curriculumassociates.com)	Pearson (www.pearsonassessments.com)	Minneapolis Public Schools: contact Iftu.Hunte@mpls.k12.mn.us

For more information

The Minnesota Interagency Developmental Screening Task Force is a partnership that determines criteria for review of developmental and social emotional screening instruments for recommendation/approval for use in Minnesota's public screening programs. The Task Force has representation from the Minnesota Departments of Human Services (DHS), Education (MDE), and Health (MDH), to allow for statewide coordination of screening efforts. Refer to Developmental and Social-Emotional Screening of Young Children (0-5 Years of Age) in Minnesota (www.health.state.mn.us).

For questions, more information, or to obtain this information in a different format, call the Minnesota Department of Health Maternal Child Health Section at 651-201-3650 or email health.childteencheckups@state.mn.us.

Minnesota Department of Health
Minnesota Interagency Developmental Screening Task Force
www.health.state.mn.us

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To obtain this information in a different format, call: 651-201-3650.