<u>Overview of Developmental Screening Tools</u>

Types of developmental screening tools include: "Parent Questionnaire," "History/Interview," "Direct Elicitation," and "Observation." The following is a Screening Tools Overview available to physicians. Note: A complete list of tools, ordering information, and a discussion of the pitfalls of screening can be found at www.dbpeds.org.

1. Ages and Stages Questionnaire (ASQ)

Original sample	Original work in 1981 (2008 children) to include medical risk					
	sample and environmental risk sample. Revised 1991, 1994					
<u>Validation</u>	Gesell, Bayley, Stanford-Binet, McCarthy, BatelleOverall					
	agreement 83%					
<u>Sensitivity</u>	72%					
<u>Specificity</u>	86%					
Ages Tested	4-60 months					
<u>Format</u>	Each questionnaire has 30 questions completed by the parent.					
	Review 5 areas: Communication, gross motor, fine motor, problem					
	solving, personal/social.					
Scoring	Answers are "yes," "sometimes," "not yet." These are given a					
	score that is totaled and compared to cutoff points.					
For More Information	www.brookespublishing.com					
	Paul H. Brookes Publishing					
	P.O. Box 10624					
	Baltimore, MD 21285-0624					
	(May be photocopied; see further details under "Screening					
	Tools".)					

2. Bayley Infant Neurodevelopmental Screener (BINS)

Original sample	High-risk nursery follow-up clinical sample					
	Non-clinical sample of 600					
<u>Validation</u>	Bayley, Batelle, and Denver II					
<u>Sensitivity</u>	Excellent					
<u>Specificity</u>	Excellent					
Ages Tested	3, 6, 9, 12, 18, 24 months					
<u>Format</u>	Requires non-distracting environment with parent present and tester seated across from infant. Chair, table, and kit are needed. At greater-than-16-months, the infant is required to walk, run, and climb stairs.					
Scoring	Yields low, moderate, or high risk; high is to be referred for diagnostic testing; moderate may be referred, or at a minimum rescreened in 3 months					
For More Information	www.harcourtassessment.com, Tools & Resources, Quick Find- A to Z Product List					

3. Parents' Evaluation of Developmental Status (PEDS)

Original sample	Standardized on 971 children across the U,S.				
<u>Validation</u>	Validated on 771 children				

Sensitivity	74%-80%					
Specificity	74%-80%					
Ages Tested	0-8 years; (12 age ranges)					
<u>Format</u>	Parent questionnaire, 10 questions					
Scoring	Responses are "no," "yes," "a little." "Yes" and "a little" are considered positive responses. Decision pathways A-E to refer or do a second-stage screen with ASQ, BINS, Batelle, or Child Development Inventory based on score.					
For More Information	www.pedstest.com Ellsworth & Vandermeer Press, LLC P.O. Box 68164 Nashville, TN 37206 (Cannot be copied. Refills must be ordered.)					

4. Child Development Inventory (CDI)

Original sample &	More specific information can be obtained by ordering the CDI				
<u>Validation</u>	booklet from their website at www.childdevrev.com				
<u>Sensitivity</u>	Greater than 75% across studies in detecting children with difficulties				
Specificity	70% in detecting normally developing children				
Ages Tested	3-72 months				
<u>Format</u>	Direct elicitation or interview. Three separate instruments with 60				
	yes or no questions				
Scoring	A single cutoff tied to 1.5 standard deviations below the mean				
For More Information	www.childdevrev.com				

5. **Brigance**

Original sample & Validation	A national sample was used and was validated against a range of measures. For more specific information, please refer to Diagnostique, vol. 24, no.1-4, pages 41-52, 1998-1999.				
Sensitivity	70-80% across ages to giftedness and to developmental and academic problems				
Specificity	70-82% across ages to giftedness and to developmental and academic problems				
Ages Tested	0-90 months				
<u>Format</u>	One form for each 12-month age range (total of 9 forms). Direct elicitation and observation. 0-2 year age range can be administered by parent. Domains to include speech-language, motor, readiness, and general knowledge for the younger ages. Older ages include reading and math.				
For More Information	www.curriculumassociates.com				

6. Pediatric Symptom Checklist (PSC)

Original sample & Validation	"In a number of validity studies, PSC case classifications agreed with classifications of the Children's Behavior Checklist, Clinical Assessment Scale ratings of impairment, and the presence of psychiatric disorder in a variety of pediatric and subspecialty
	settings representing diverse socioeconomic backgrounds." For

	more specific information on this citation and the studies, please refer to the Web site psc.partners.org/psc				
Sensitivity	80-95% (all studies but one showed this level of sensitivity)				
Specificity	60-100% (scattered across studies)				
Ages Tested	4-16 years				
<u>Format</u>	35 short statements of problem behaviors to include both externalizing and internalizing. Responses never =0, sometimes=1 and often=2. Final scores to indicate need for referral and to identify attentional, internalizing and externalizing problems.				
For More Information	www.dbpeds.org/pdf/psc.pdf				

TOOLS YOU CAN USE

	ASQ	BINS	PEDS	CDI	BRIGANCE	PSC
Type/Ages	Parent Questionnaire 2 mos.–5 yrs.	Direct Elicitation 3 mos.–24 mos.	Parent Questionnaire 0–8 yrs.	Parent Questionnaire 3 mos.–6 mos.	Direct Elicitation 21 mos.–7.5 yrs.	Parent Questionnaire
Staff Required	Para-prof.	MA or Equiv.	Para-prof.	Para-prof.	Prof.	Para-prof.
Time (Score)	5 min.	10-15 min.	5 min.	10 min.	10-15 min.	7 min.
Cost (Per Kit)	\$190	\$195	\$39	\$41	\$249	Free Download
Refills	OK to copy	Needed	\$30-50			OK to Copy
Language	English & Spanish	English	English & Spanish	English & Spanish	English & Spanish	English
Reading Level	4 th -6 th Grade	NA	5 th Grade		NA	