

GUIDE 5: SCIENTIFIC VALIDITY BASED ON PUBLISHED STUDIES

X = Included in studies --- = Not Included in studies N/A – Not Applicable

*See Appendix 2 for a Summary of the References

	No of Studies	STARD Rating	Population (general)	Population (at risk)	Study	Age	Sensitivity	Specificity		
SCREENING FOR GENERAL DEVELOPMENTAL PROBLEMS										
Ages & Stages Questionnaire	3	12	X	X	Skellern et al. (2001)	12 mos	1.00	.73-.99		
						18 mos	.50-.75	.73-.99		
			X	X Low birth weight		24 mos	1.00	1.00		
					Squires et al. (1997)	4-48 mos	.75	.86		
					Rydz et al. (2006)	17-20 mos	.67	.39		
AGS Early Screening Profiles (ESP)	0	N/A	-----	-----	-----	-----	-----	-----		
Battelle Developmental Inventory Screening Test (BDI-2)	2	10	X	-----	Glascoe & Byrne (1993a)	7-83 mos	.75	.73		
			X		Glascoe & Byrne (1993b)	7-70 mos	.72	.72		
Bayley Infant Neurodevelopmental Screens (BINS)	1	11		X (premature)	Macias et al. (1998)	6-26 mos	.64-.82	.42-.87		
Brigance Screens II	2	7	X	-----	Glascoe (1997)	21-26 mos	1.00	1.00		
			X	-----		27-32 mos	.75	.92		
					Glascoe (2002)	33-44 mos	.74	.76		
						0-24 mos	.76-.77	.85-.86		
Capute Scales: Cognitive Adaptive Test/Clinical Linguistic Auditory Milestone Scale Expressive and Receptive Language Scale (CAT/CLAMS)	6	12	-----	X (premature)	Macias et al. (1998)	6-26 mos	.5- .36	.95-.98		
			X		Vincer et al. (2005)	4 mos	.88	.37		
			X			8 mos	.75	.82		
						12 mos	.64	.98		
						18 mos	.88	.97		
					-----	X (referred for delay)	Rossman et al. (1994)	18 mos	.21	.95-1.00
					-----	X (referred for delay)		30 mos	.63	.93
					-----	X very low birth weight		Hoon et al. (1993)	12-48 mos	.88
							Kube et al. (2000)	14-48 mos	.81-1.00	.85-.96
							Leffert et al. (1988)	5-33 mos	.71	.98
Child Development Inventory (CDI)	1	12	X		Rydz et al. (2006)	17-20 mos	.50	.86		

Child Development Review Parent Questionnaire (CDR-PQ)	0	N/A	-----	-----	-----	-----	-----	-----
Denver II	2	12	X X	----- -----	Glascoe et al. (1992) Glasoe & Byrne (1993b)	3-72 mos 7-70 mos	.83 .83	.43 .43
Denver Prescreening Developmental Questionnaire (PDQ-II)	1	14		X Very low birth weight	Heiser et al. (1995)	7-10 mos	1.00	.74
Developmental Profile 3 rd Ed (DP-3)	0	N/A	-----	-----	-----	-----	-----	-----
Infant Development Inventory (IDI)	0	N/A	-----	-----	-----	-----	-----	-----
Parents' Evaluations of Developmental Status (PEDS)	2	10	X	X Low birth weight	Glascoe (1992) Pritchard et al. (2005)	21-84 mos 24 mos	.79 .38-.39	.72 .84-.85
PEDS: Developmental Milestones (PEDS:DM)	0	N/A	-----	-----	-----	-----	-----	-----
Parents' Observations of Infants and Toddlers (POINT)	0	N/A	-----	-----	-----	-----	-----	-----
SCREENING FOR LANGUAGE PROBLEMS								
Capute Scales: Cognitive Adaptive Test/Clinical Linguistic Auditory Milestone Scale Expressive and Receptive Language Scale (CLAMS)	2	11	X	X (premature) -----	Belcher et al. (1997) Clark et al. (1995)	3-5 mos 9-14 mos 18-24 mos 14-24 mos 25-36 mos	.90 .75 .63 .50-.83 .68-.88	.26 .40 .86 .91-.92 .89-.98
Communication and Symbolic Behavior Scales Developmental Profile (CSBS)	1	16	X	-----	Wetherby et al. (2004)	13-27 mos	.94	.89
Early Language Milestone Scale	3	9	X X	----- -----	Coplan & Gleason (1988)	0-36 mos	.97	.93

(ELM Scale-2)			X	-----	Coplan et al. (1989) Walker et al. (1989)	1-5 yrs 0-12 mos 13-24 mos 25-36 mos	.95 .0-.0 .78-1.00 .94-1.00	.95 .86-1.00 .60-.80 .75-.85
Language Development Survey (LDS)	4	11	X X X X	----- ----- ----- -----	Rescorla (1989) Rescorla (1993) Klee et al. (1998) *Klee et al. (2000)	24-38 mos 18-30 mos 24-29 mos 24-29 mos	.53-.89 .67-1.00 .91 .91	.86-.97 .90-1.00 .87 .96
Screening Kit of Language Development (SKOLD)	1	6	X	-----	Bliss & Allen (1984)	30-36 mos	1.00	.97
SCREENING FOR AUTISM AND PERVASIVE DEVELOPMENTAL DISORDERS								
Modified Checklist for Autism in Toddlers (M-CHAT)	1	10	X	-----	Robins et al. (2001)	27 mos	.95-.99	.95-.99
Pervasive Developmental Disorders Screening Test (PDDST-1)	0	N/A	X	-----	-----	-----	-----	-----

*Same data set was used as in Klee at al. (1998) with different criteria