Social Communication Skills of Children with Autism Spectrum Disorders in the Second Year of Life Amy Wetherby, Stacy Shumway, Nola Watt, and Lindee Morgan Department of Communication Disorders, Florida State University

Earlier Identification Means Earlier Intervention

- ASD can be diagnosed reliably by experienced professionals down to 2 years
 - Social and Communication Impairments were prominent at 2 years
 Restricted Repertoire of Activities and Interests were not prominent in some children until 3 years
 (Lord, 1995; Stone, Lee, Ashford, Brissie, Hepburn, Coonrod, & Weiss, 1999)
- (Lord, 1995; Stone, Lee, Ashford, Brissie, Hepburn, Coonrod, & Weiss, 1999) Retrospective studies of home videotapes show that social
- communication features distinguish infants later diagnosed with ASD
- Lack of pointing, showing, looking at others, orienting to name (Osterling & Dawson, 1994; Osterling, Dawson, & Munson, 2002)
 Prospective studies show that social communication measures distinguish children with ASD at 20 months (n=10)
 - Less social gaze to distress, fewer gaze shifts to activation of toys (Charman Baron-Cohen, Swettenham, Baird, Drew, & Cox, 1997)





	ASD	DD	TD
Sample Size	37	21	37
CSBS DP Age	21.4 months	20.6 months	21.0 months
Follow-up Age	35.4 months	35.9 months	36.0 months
Mullen V DQ	70.0 (31.5)	80.1 (22.9)	107.5 (13.6)
Mullen NV DQ	81.8 (24.8)	84.4 (20.1)	111.5 (13.3)



Group Differences fo	or Older C	ohort
Shared Attention and Affect	ASD v TD	ASD v DD
✤Gaze Shifts	***	***
Shared Positive Affect	***	-
✤Gaze Follow	***	-
Communicative Intentions		
 Behavior Regulation 	***	-
* Social Interaction	***	-
✤ Joint Attention	***	***
Gestures		
Conventional Gestures	***	-
* Distal Gestures	***	-

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	ASD	DD	TD	
Sample Size	13	13	13	
CSBS DP Age	15.1 months	14.6 months	15.1 months	
Follow-up Age	33.6 months	34.8 months	is 37.9 month	
Mullen V DQ	85.7 (33.8)	87.1 (15.3)	111.6 (17.3)	
Mullen NV DQ	96.4 (24.9)	90.32 (18.3)	113.6 (13.2)	



Social Composite Items Group Differences fo	s or Younge	er Cohort
Shared Attention and Affect	ASD v TD	ASD v DD
♦ Gaze Shifts	***	
Shared Positive Affect	-	-
♦ Gaze Follow	***	-
Communicative Intentions	***	_
 Social Interaction Joint Attention 	- ***	-
Gestures	***	
♦ Conventional Gestures	***	-
✤Distal Gestures		-
**** <i>p</i> <.001, ** <i>p</i> <.	.01, * <i>p</i> <.05	J

Measure	Older Cohort (n=28)	Younger Cohort (n=10)
Gaze Shifts	16	.00
Shared Pos Affect	04	.06
Gaze/Pt Follow	.33	.59
Behavior Reg	.45**	.49
Social Interaction	.34	.74 *
Joint Attention	.58**	.61
Gestures	.52**	.57
Sounds	.55 **	.52
Words	.58 **	-
Understanding	.73 ***	.60
Play	.44 *	.52

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Shared Attention & Affect	.53	.29	.29	2.29
Communicative Intentions	.79	.63	.34	6.11**
Communicative Means	.80	.64	.01	0.22
Symbolic Capacity	.85	.72	.08	2.00

	Conclusions
*	Deficits in social communication can be detected in children with ASD early in the second year.
	 Deficits in gestures, sounds, words, understanding, or play in the second year are risk indicators for ASD or DD/SLI. More precise risk indicators for ASD are deficits in gaze shifts and joint attention, and are more evident after 18 months.
	 Caution is needed to not rule out ASD prematurely in children under 18 months.
*	Deceleration of growth may be characteristic of the unfolding of diagnostic features of ASD over the second year.
*	Social communication skills in the second year are strong predictors of later language outcome in children with ASD.