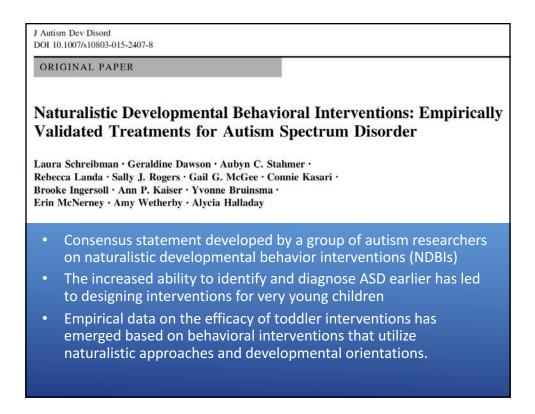


Financial & Nonfinancial Disclosures

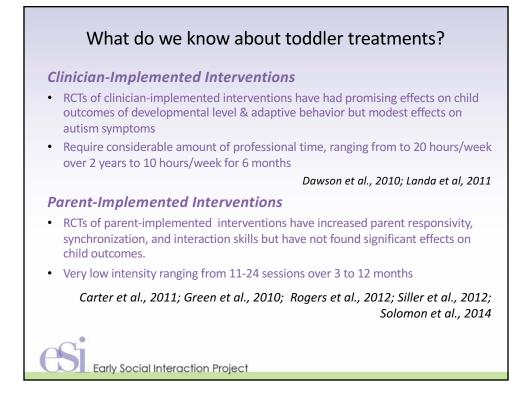
- Amy Wetherby is employed by FSU and has received grant funding to support research on early detection and early intervention from NIH, USDOE, & the CDC.
- Amy Wetherby is author of the Communication and Symbolic Behavior Scales (CSBS) and the SCERTS Model published by Brookes Publishing and receives royalties
- Amy Wetherby is an owner of Autism Navigator, LLC.
 No salary is earned and 100% of the profits are donated to a nonprofit to support the courses & tools.



Common Features of Evidence-Based NDBIs

Schreibman, Dawson, Stahmer, Landa, Rogers, McGee, Kasari, Ingersoll, Kaiser, Bruinsma, McNerney, Wetherby, & Halladay, 2014

- Three Part Contingency
- Manualized Practice
- Fidelity of Implementation
- Individualized Treatment Goals
- Ongoing Measurement of Progress
- Child-Initiated Teaching Episodes
- Environmental Arrangement
- Natural Reinforcement to Enhance Motivation
- Use of Prompting and Prompt Fading
- Balanced Turns within Play Routines
- Modeling
- Adult Imitation of Child's Behavior
- Broadening Attentional Focus of the Child



	Ν	Age (months)	Duration	Intensity	Proximal Effects	Distal Effects	
Carter et al., 2010	62 20 3.5 m		3.5 months	8 group / 3 ind sessions	Х		
Green et al., 2010	152	24-59	12 months	18 sessions	Х		
Kasari et al., 2010	42	30	2 months	3 X week	Х	NA	
Rogers et al., 2012	98	21	3 months	1 X week			
Solomon et al., 2014	128	30-71	12 months	1 X month	Х	ADOS % Δ <i>in</i> ASD/Auti m	

Intensity matters...

...so how do we achieve 25 hours per week in which the child is engaged *actively* and *productively* in meaningful activities?



(National Research Council, 2001)

Recommendations of the **American Academy of Pediatrics** (2007)

- Developmental surveillance at every well-child visit from 9 to 30 months
- Screen all children for ASD at 18 and 24 months

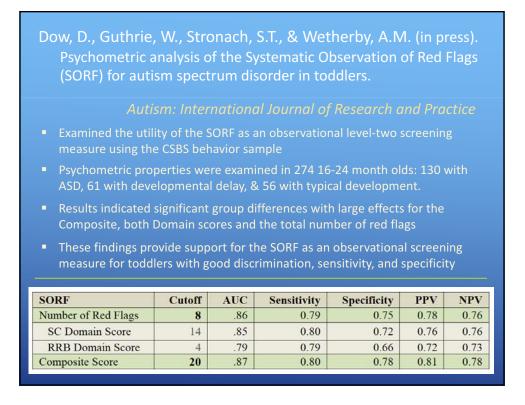
✓ Autism can be diagnosed by 18-24 months, yet the median age of diagnosis of is 4-5 years



Children of minority, low income, and rural families are diagnosed a year and a half later.







$E_{\text{arly}} \, S_{\text{ocial}} \, I_{\text{nteraction Project}}$

Community-viable intervention model for toddlers with ASD & their families



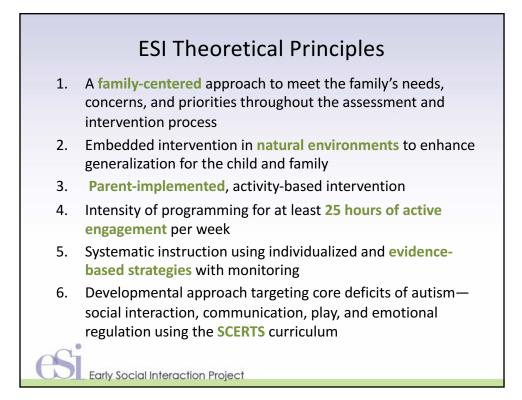
esi.fsu.edu

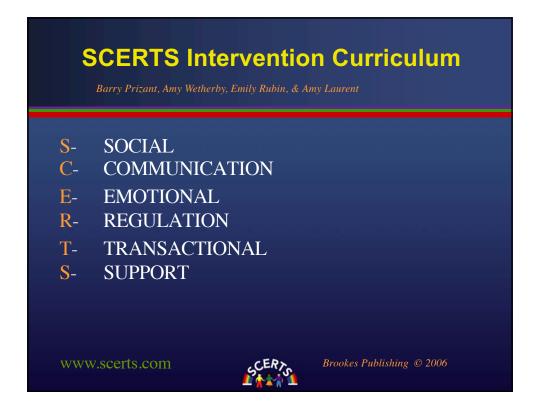
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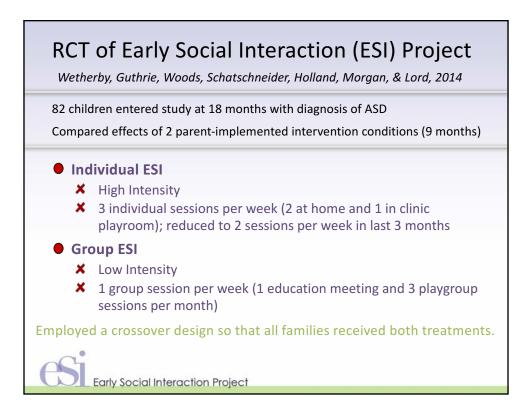
Teach parents how to use supports and strategies in everyday activities at home and in the community

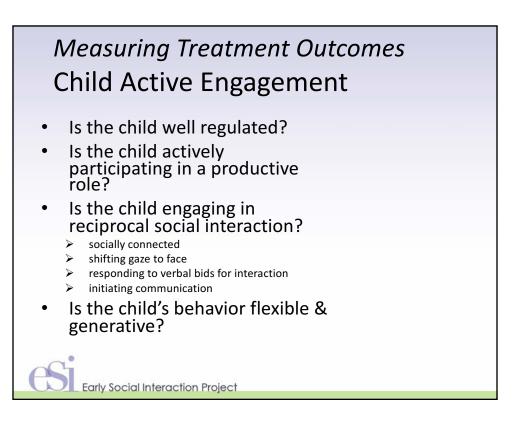


Early Social Interaction Project

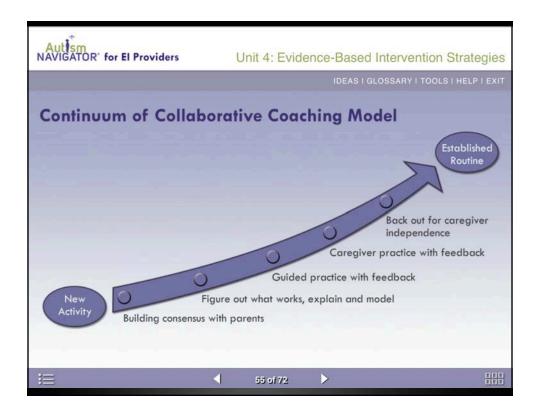




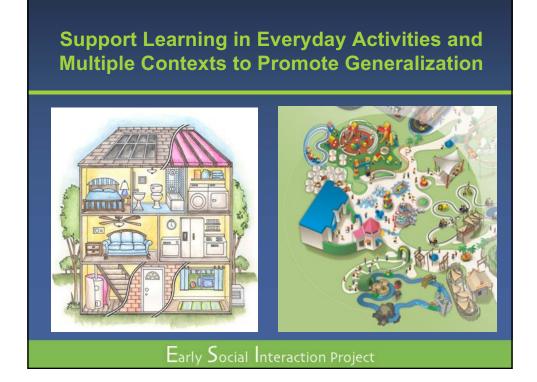


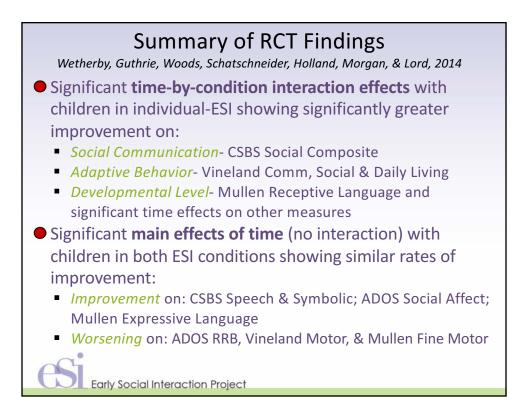




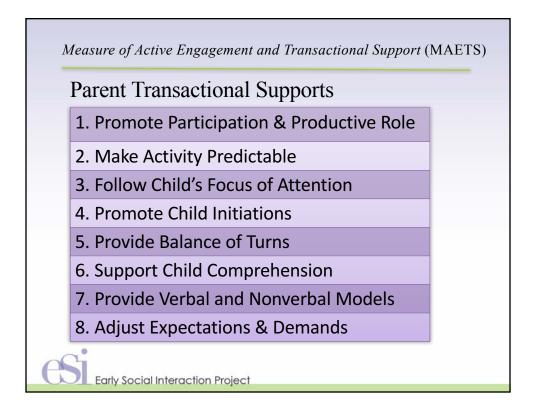


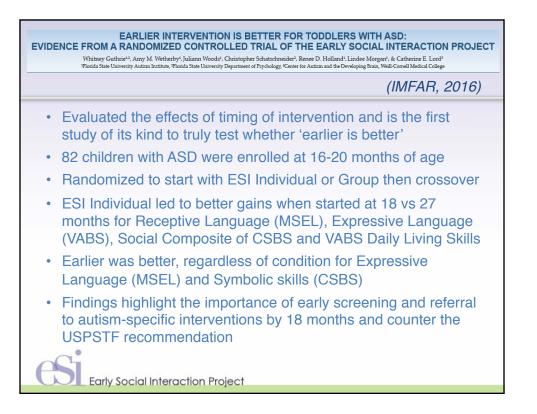
	itegories" to promote tural environment
Play with People Social Games like Peek-a-boo, Rough and Tumble, Songs & Rhymes	Play with Toys Blocks, Puzzles, Sand box, Playdough, Cars and Trucks, Ball Games, Baby Dolls
Meals and Snacks Preparation, Eating, Cleanup	Caregiving Dressing, Diaper Change, Bath, Washing Hands, Brushing Teeth
Book Sharing	Family Chores Mailbox, Laundry, Care for Pets, Plants
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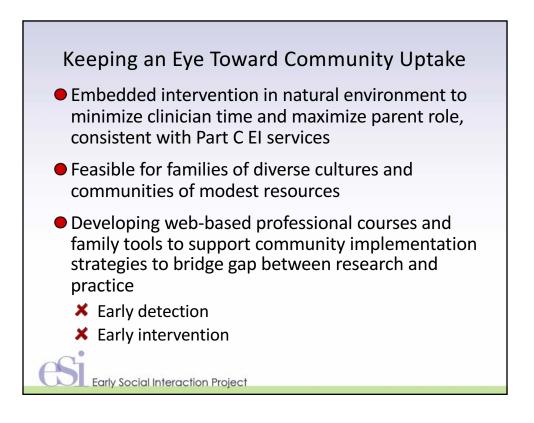








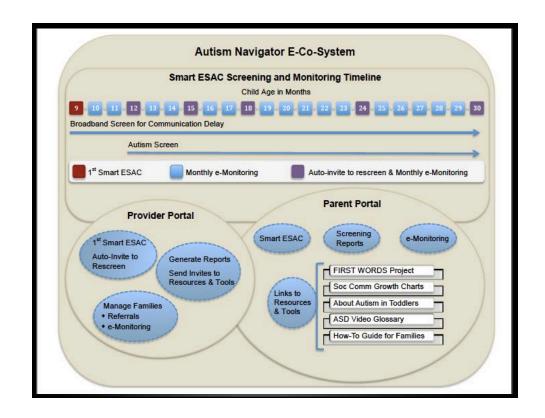






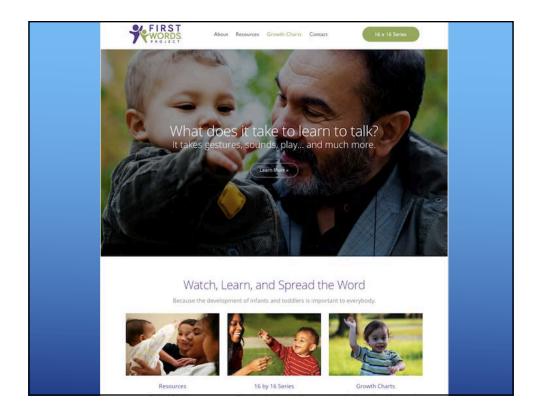


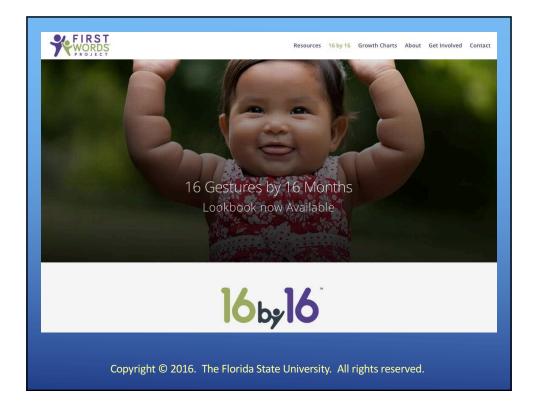
















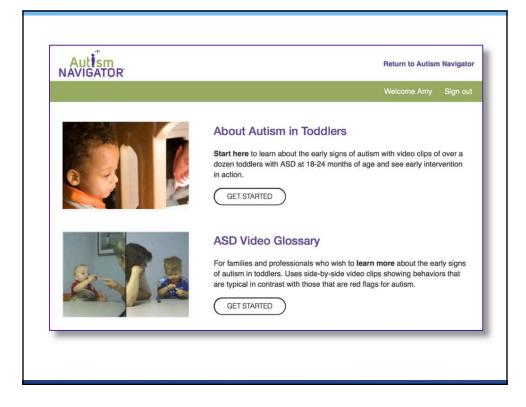






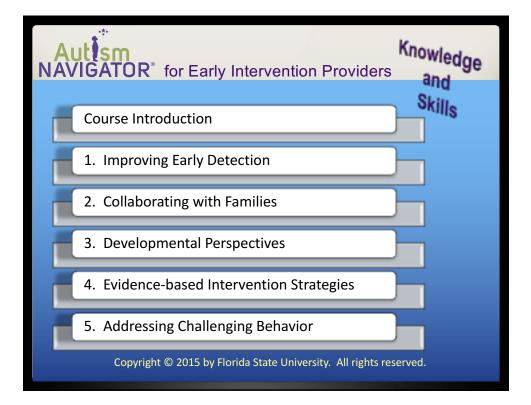


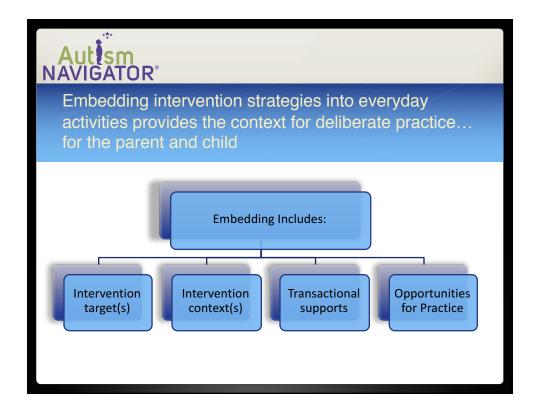


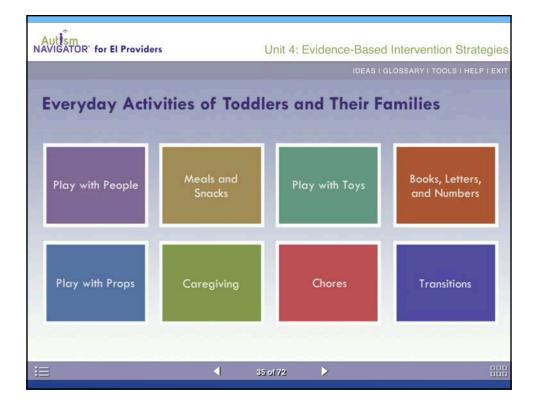


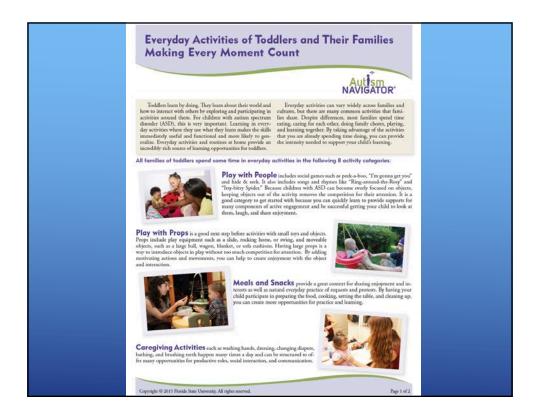














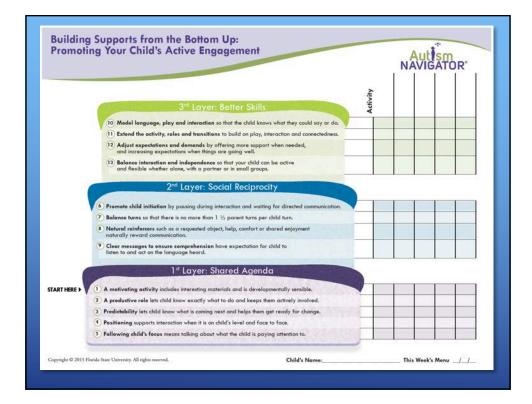




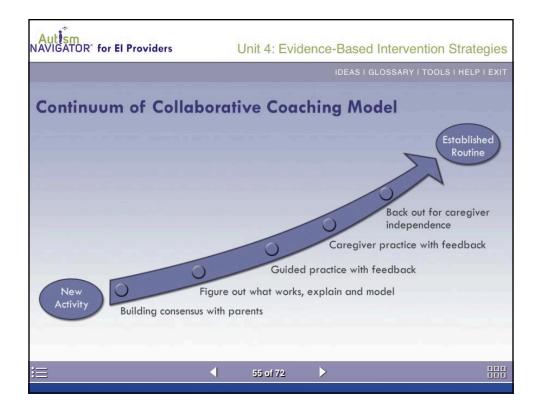


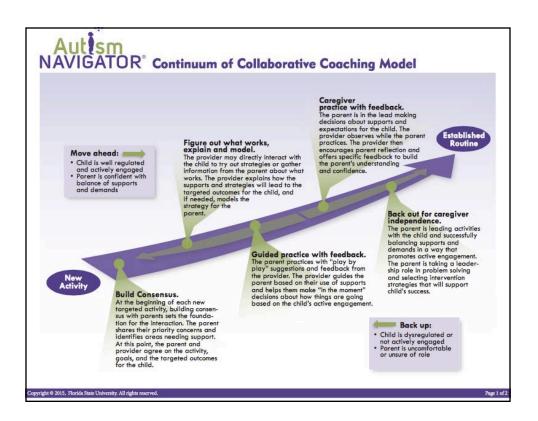


ACTIVE ENGAGEMENT
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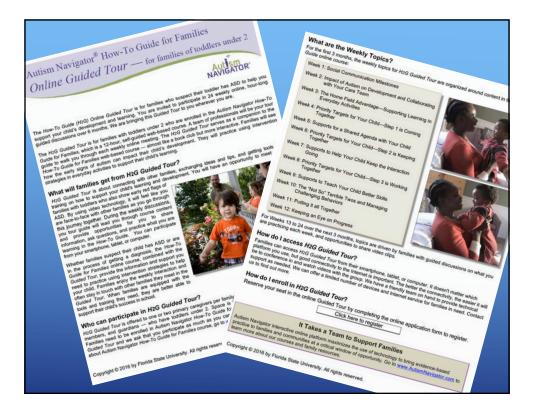


			Child's Name:					ne: Date: Provider:	
	Active Engagement (AE)	Activity						Transactional Supports (TS)	
	Is the child practicing Step 1: Coming Together?		AEITS	AEITS	AEITS	AEITS	ALITS	Is the parent using 1st Layer Supports for a Shared Agenda?	
	1. Well regulated?							1. Motivating activity?	
	2. Productive?							2. Productive roles?	
	3. Socially connected?			00	00	00		3. Predictability?	
			•	•	•	•	•	4. Positioning?	
			•		•		•	5. Following child's focus? If no, target this layer. If yes, move on.	
	If no, work on this step. If yes, move on.								
	Is the child practicing Step 2: Keeping Together?							Is the parent using 2nd Layer Supports for Social Reciprocity?	
	4. Looking at faces?		h	Inn	Inn	Inn	inn.	6. Promoting initiation?	
4	5. Responding to bids for interaction? 6. Initiating directed communication?							7. Creating a balance of turns? 8. Using natural reinforcers?	
				- HE					
			0					9. Giving clear messages to ensure comprehension?	
н	f no, work on Step 2. If yes, move on.		- Cont		and a second			If no, target this layer. If yes, move on.	
	Is the child practicing Step 3: Working Together?							Is the parent using 3rd Layer Supports for Better Skills?	
	7. Flexible?		30	Inn		in n	Inn	10. Modeling language, play, and interaction?	
	8. Using generative language?							11. Extending the activity, child's roles, and transitions?	
				•	0	0	•	12. Adjusting expectations and supports?	
H			•	• •	• 1			13. Creating a balance of interaction and independence?	
	f yes to both, move on to a new activity.		22.7				3.52 37	If no, target this layer. If yes, move on to a new activity.	
	Activity AE Priority for the	hild				Acti	vity	TS Priority for the parent	









Autism Lessons from Implementation Science for Early Intervention Providers

Successful implementation requires purposeful matching of "STAGES OF IMPLEMENTATION":

- 1. Exploration: identify need and determine innovation
- 2. Installation: acquire resources/ prepare implementation
- *3. Initial Implementation*: put new practices in place at selected sites with feedback loops and improvement cycles
- 4. Full Implementation: assure practices are used with high fidelity and achieving expected outcomes at all initial sites and begin scale up and sustainability activities
- 5. Expansion and Scale-Up: increase number of sites

ECTA Center: Smith, Hurth, Pletcher, Shaw, Whaley, Peters, & Dunlap, 2014







