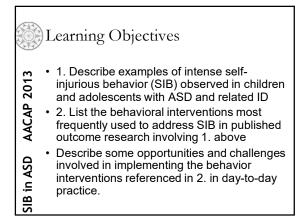
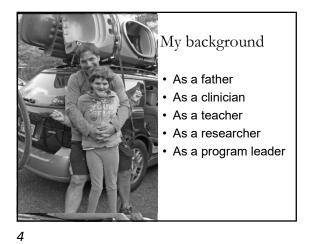


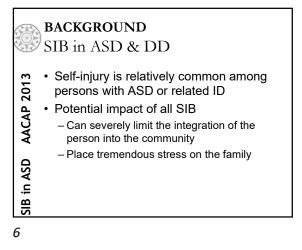
	Disclosures of Potential Conflicts					
AACAP 2013	Source	Advisor/ Consultant	Employee	Books, Intellectual Property	Honorarium or expenses for this presentation or meeting	
<b>∀</b>	AACAP				х	
¥	Elwyn	х				
◄	Drexel U.		Х			
0	Brookes			Х		
SI	Springer			Х		
SIB in ASD						

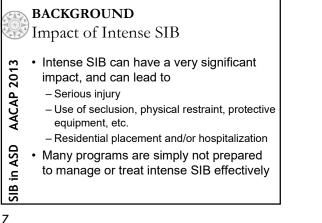




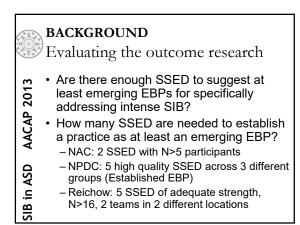




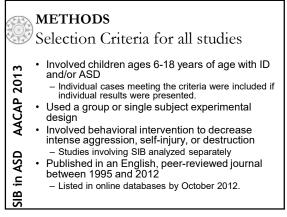


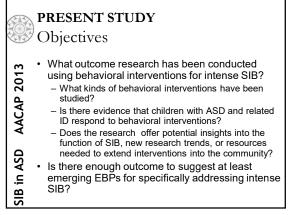


BACKGROUND Using outcome research to identify practices Informal reviews of outcome research are limited by the breadth of the review & experience of 2013 réviewer Formal, systematic ratings help to objectively identify specific, evidence-based practices (EBP) AACAP - National Autism Center (2009) - National Professional Development Center for Autism (2010)- Reichow et al (2011) in ASD - All value single subject experimental designs (SSED) Some formal EBP reviews for specific behavioral methods have already been done SIB i - Functional communication training (Kurtz et al, 2011) 8





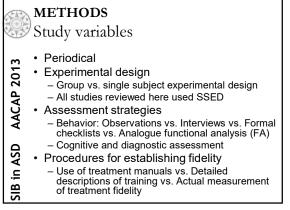


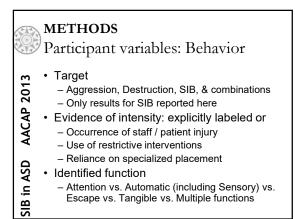




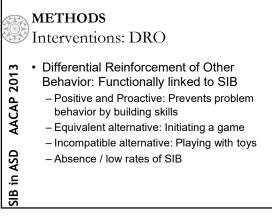
#### **METHODS**

- Targeted search: Process
- Targeted search of MEDLINE & 2013 PSYCHINFO between 1995-2012 yielded
- 2572 unique, relevant abstracts.
- AACAP Abstract Screening: 199 involving outcome research on pertinent targets and populations
- Article Screening: 101 of the 199 met all ASD inclusion criteria for Descriptive Analysis.
- ⊒. · Inter-rater reliability for coding at each SIB stage resulted in 80-95% agreement.









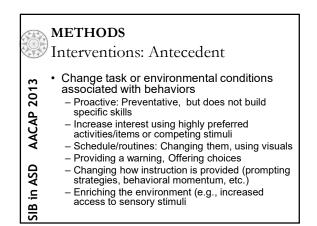


General participant variables 

- Gender 2013
  - Age group (children 6-12 years of age versus adolescents 13-18 years of age)
- AACAP Presence of ASD
  - Presence and level of ID
    - Borderline / Mild vs. Moderate vs. Severe

in ASD SIB i

14



16

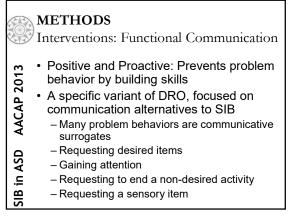
## **METHODS** Interventions: Other Reinforcement

- · Other reinforcement though not a specific **AACAP 2013** functional alternative
  - Proactive: Preventative, but does not build specific skills
  - Non-contingent reinforcement (access to desired items): Maintain a base level with minimal conditions

SIB 18

ASD

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#### **METHODS**

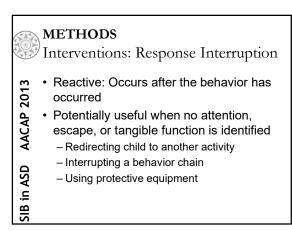
Interventions: Extinction

- · Reactive: Occurs after the behavior has 2013
- occurred
- AACAP · Withholding the response identified as maintaining the behavior
  - Ignoring attention-maintained behavior
  - Blocking escape of a task
  - Blocking access to desired tangible
  - Blocking access to sensory experience(?)

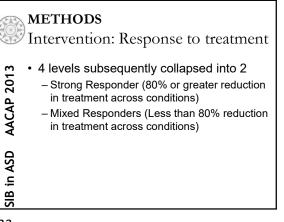
SIB 20

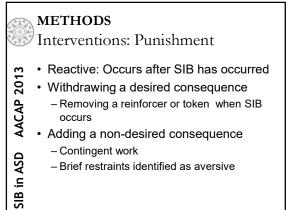
ASD

.⊇

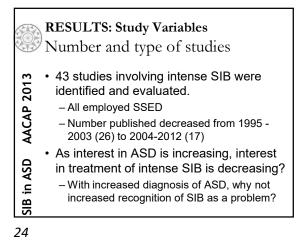






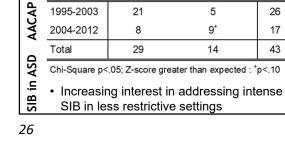






	<b>RESULTS: Study Variables</b> Setting
5D AACAP 2013	<ul> <li>Setting <ul> <li>More restrictive settings: In-Patient Programs</li> <li>49%; Residential programs - 19%</li> <li>Less restrictive settings (e.g., home or school) - 33%</li> </ul> </li> <li>Role of in-patient programs in driving research</li> </ul>
SIB in ASD	<ul> <li>But very few (less than 20?) in-patient treatment programs specializing in ASD in US</li> <li>Not all of these are university-affiliated</li> </ul>
25	





**RESULTS: Study Variables** 

Number of studies by setting & period

Restrictive

Non-Restrictive

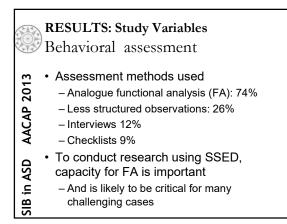
Total

26

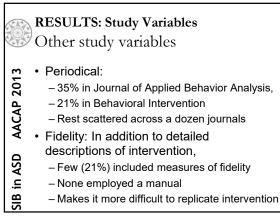
17

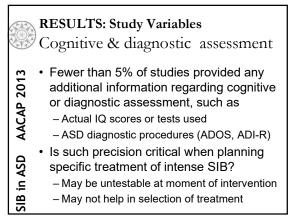
43

Changes over time in setting







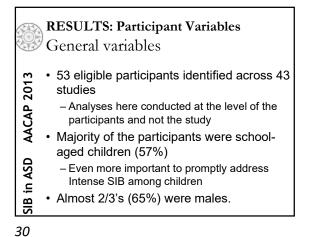




A.

2013

Period



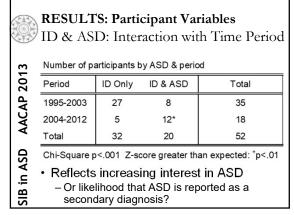
### **RESULTS: Participant Variables** ID & ASD

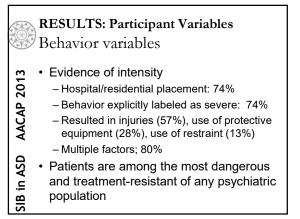
m	<ul> <li>Most participants (94%) had ID</li> </ul>
2013	<ul> <li>Majority (84%) had severe to profound ID</li> </ul>
	<ul> <li>One-third (36%) with ID also had ASD</li> </ul>
AACAP	Severe ID as a risk factor for intense SIB
	<ul> <li>Suggests need to target SIB more vigorously in those with severe ID</li> </ul>
ASD	- Association with increased prevalence of

 Association with increased prevalence of other neurological factors in those with severe ID?

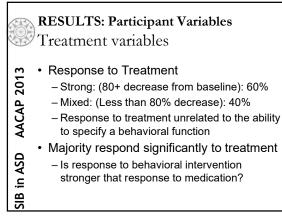
31

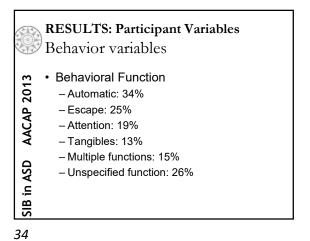
SIB in

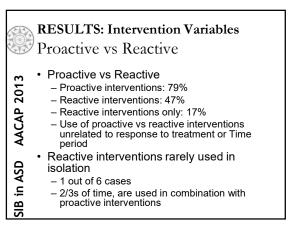


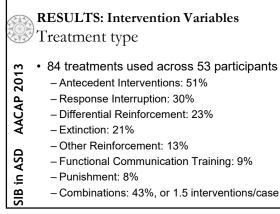






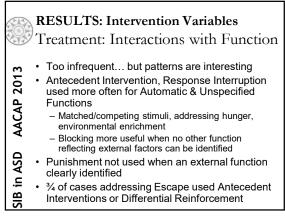


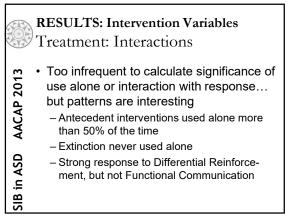






		<b>RESULTS: Intervention Variables</b> Treatment Combinations				
13		Alone	Combination			
AACAP 2013	Antecedent Intervention	15	12			
R	Differential Reinforcement	4	8			
AA	Funct. Communication Training	1	4			
	Other Reinforcement	2	5			
in ASD	Extinction	0	11			
⊒.	Punishment	2	2			
SIB	Response Interruption	4	12			





38

#### **RESULTS:** Intervention Variables Response to Treatment 2013 Strong Mixed Antecedent Intervention 16 11 AACAP Differential Reinforcement 12 0 Functional Communication Training 0 5 Other Reinforcement 5 2 ASD Extinction 7 4 Punishment 3 1 ⊒.

11

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# **RESULTS: Intervention Variables** Behavioral Function

Response Interruption

2013		Atten- tion	Auto- matic	Es- cape	Tang- ible	Unspec- ified
AACAP 2	Antecedent Inter.	2	9	8	4	7
	Differential Reinf.	3	3	7	3	0
	Func. Comm. Tr.	3	0	2	1	0
in ASD	Other Reinforcemt	2	4	0	1	0
	Extinction	3	2	3	2	3
	Punishment	0	3	0	0	1
	Response Inter.	2	4	2	2	7

