


Evaluation of Comprehensive Treatment Models for Children and Youth with ASD and Their Families



Samuel L. Odom, Ph.D.

Frank Porter Graham Child Development
Center

University of North Carolina at Chapel Hill

DRAFT

Comprehensive Treatment Models

- ❑ Published in a refereed journal article, book chapter, or book
- ❑ Clear theoretical or conceptual framework
- ❑ A procedural guide and/or curriculum manual (Treatment manualized)
- ❑ Address multiple developmental or behavioral domains associated with core features of autism
- ❑ Programs are intensive (Hours per week, Longevity, Engagement)
- ❑ Implemented in at least one site in the US

DRAFT

Comprehensive vs Focused Interventions

- Differ in scope (breadth of outcomes addressed) and intensity (length of treatment)
- When subcomponents of a comprehensive program are the target of investigation in lieu of the comprehensive program in its totality, articles are coded as a 'Focused Intervention'
- Example: TEACCH-Home based Intervention - Subcomponent of comprehensive program that is coded as a focused intervention

Search Process

- Books
- Computer search
- Track evidence from websites
- Interviews with model developers
- Solicitation from field
- Will have information from NSP database of articles

DRAFT

Evaluation Process and Criteria

- Thirty models identified
- Dossier assembled of evidence needed to conduct the evaluation
- Criteria for evaluation jointly established across investigators
- Individual investigators conducted reviews
- Inter-rater agreement for evaluation will be established through peer debriefing

DRAFT

Summative Evaluation of Evidence for Comprehensive Treatment Models

Rating	Operationalization	Outcome Data Presented	Average Quality Rating From Outcome Data*	Fidelity of Treatment Measurement	Replication at Remote Sites	Additional Studies on Related Focused Interventions***
5	Written document or documents that describe procedures for the treatment and content in enough detail to replicate the model.	Two or more referred journal articles describing outcome data	5-4.01	Robust psychometric data have been collected on treatment fidelity measures. This would include evaluating reliability (e.g., internal consistency, test-retest), inter-rater agreement and validity (e.g. construct/content, convergent) of the instrument.	Model replicated at two or more remote locations (i.e., not the original model development site) by two or more investigators who were not part of the original model development team**.	21+ studies conducted on focused interventions that are components of the comprehensive treatment model
4	Written manual or detailed curriculum in which procedures are well specified but content is poorly specified	One referred journal article describing outcome data	4.0-3.01	Preliminary psychometric data have been collected on treatment fidelity measure. This would include the basic elements of reliability (i.e., inter-rater)	Model replicated at one remote location by one or more investigators who were not part of the model development team	16-20 studies conducted on focused interventions that are components of the comprehensive treatment model
3	Written manual or detailed curriculum in which content is clearly specified but procedures are poorly specified.	A book chapter in a book edited by someone other than the model developer	3.0-2.01	Formal or standardized treatment fidelity measure exists (e.g., checklists outlining model components) in a form that would allow	Model replicated by original model developers at two or more remote locations	11-15 studies conducted on focused interventions that are components of the

DRAFT

		describing outcome data		the model implementer or other outside observer to evaluate implementation of essential model components, but no psychometric data have been collected on instrument		comprehensive treatment model
2	Some written documentation provided but neither procedures nor content sufficiently specified.	A book by model developer or chapter in a book edited by model developer describing outcome data	2.0-1.01	Formal measure only exists for some but not all essential model components	Model replicated by original model developers at one remote location	6-10 studies conducted on focused interventions that are components of the comprehensive treatment model
1	Only general description of the model is available.	No outcome data published or outcome data published only in report form by model developer	1.0-0	No formal or codified measure of treatment fidelity exists or only informal measures are used	No information about model replication at other remote locations provided	0-5 studies conducted on focused interventions that are components of the comprehensive treatment model

DRAFT

ABA/Individual Clinical or Home Based Model

- Lovaas Institute (formerly UCLA Young Autism Project)
- Autism Partnerships
- CARD
- Pivotal Response Training

DRAFT

ABA/Classroom-Based Models

- Alpine Learning Group
- Eden
- Douglass Developmental Disabilities Center
- Institute for Child Development, SUNY-Binghamton
- Lancaster-Lebanon IU 13
- May Institute

ABA/Classroom-Based Models (Cont.)

- Princeton Child Development Institute
- Pyramid Model
- River Street
- STAR (OR)
- Summit Academy
- Therapeutic Pathways
- Valley Program

DRAFT

ABA/Inclusive Models

- Children's Toddler Project
- LEAP
- Project DATA
- Walden Model

DRAFT

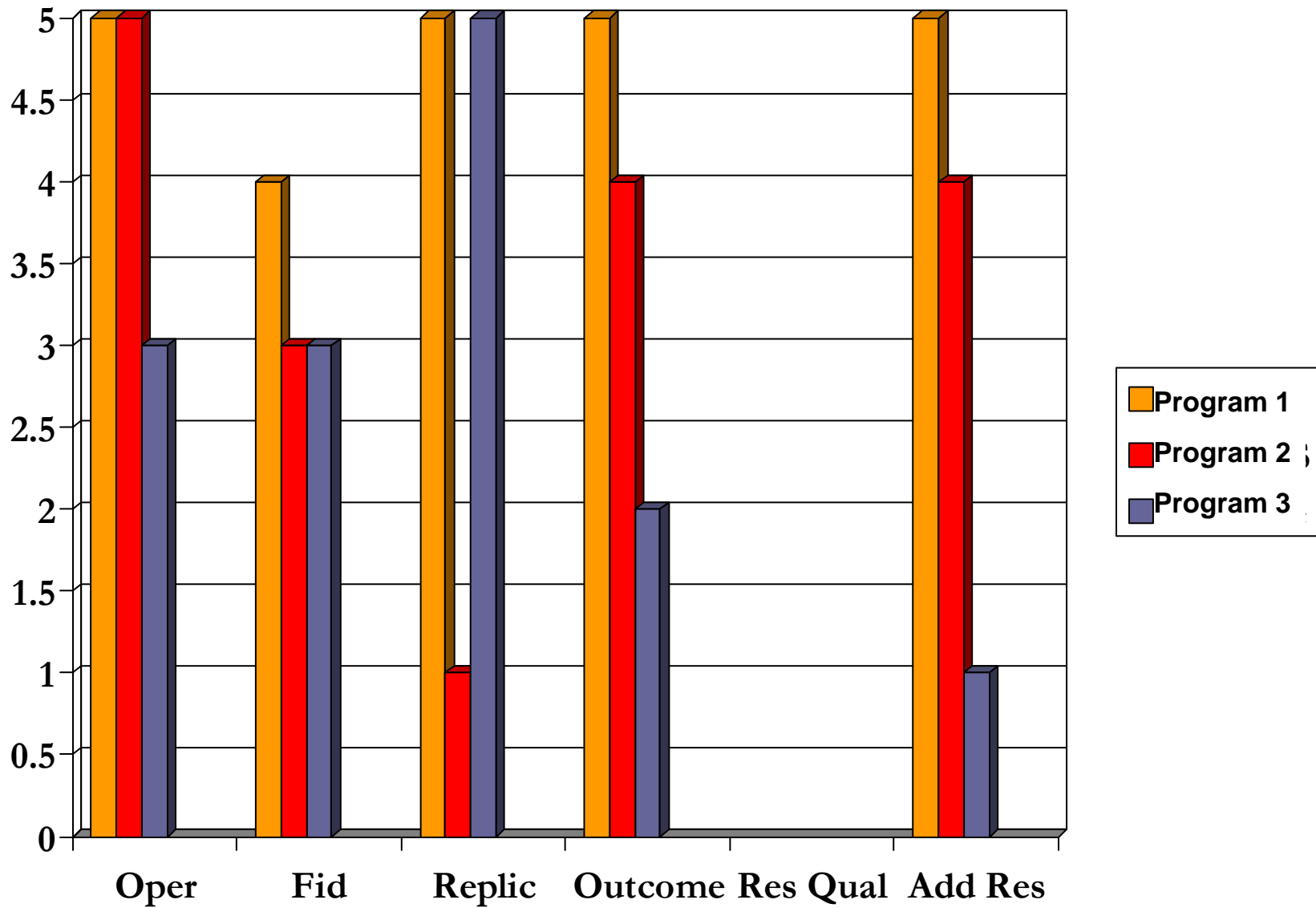
Developmental and Relationship-Based Models

- Denver Model
- Developmental, Individualized, Relationship (DIR)
- Hannon Method
- SCERTS
- Social Relationship Intervention
- Son Rise

DRAFT

Other

- Higachi-Daily Living Therapy Model
- Miller Method
- TEACCH Model



DRAFT

Summary

- Range of Comprehensive Treatment Models Exist
- At varying stages of development
 - Manualization
 - Fidelity Information
 - Replications
- Few will have randomized efficacy studies
 - Problem with conducting randomized studies for classroom based intervention
 - Quasi-experimental design and follow-up studies provide some evidence of efficacy
 - Ratings of quality of research designs will be next step