



7-1-2011

Sally J. Rogers and Geraldine Dawson: Review of Early Start Denver Model for Young Children with Autism: Promoting Language, Learning and Engagement (Book Review)

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Recommended Citation

Paul, Rhea. "Sally J. Rogers And Geraldine Dawson: Review Of Early Start Denver Model For Young Children With Autism: Promoting Language, Learning And Engagement." *Journal Of Autism & Developmental Disorders* 41.7 (2011): 978-980.

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ArticleTitle	Sally J. Rogers and Geraldine Dawson: Review of Early Start Denver Model for Young Children with Autism: Promoting Language, Learning and Engagement	
Article Sub-Title	Guilford Press, NY, 297 pp	
Article CopyRight	Springer Science+Business Media, LLC (This will be the copyright line in the final PDF)	
Journal Name	Journal of Autism and Developmental Disorders	
Corresponding Author	Family Name	Paul
	Particle	
	Given Name	Rhea
	Suffix	
	Division	
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Schedule	Received
	Revised
	Accepted

Footnote Information

Journal: 10803
Article: 1041



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2 **Sally J. Rogers and Geraldine Dawson: Review of Early Start**
3 **Denver Model for Young Children with Autism: Promoting**
4 **Language, Learning and Engagement**

5 **Guilford Press, NY, 297 pp**

6 **Rhea Paul**

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9 Among the crowd of treatments, interventions, and
10 purported cures that proliferate around autism spectrum
11 disorders, the Denver Model has long stood as a beacon of
12 empirical rigor and developmental sensitivity. In their new
13 book, *Early Start Denver Model for Young Children with*
14 *Autism: Promoting Language, Learning and Engagement*,
15 Sally Rogers and Geri Dawson, two of the most experi-
16 enced and accomplished psychologists working in autism
17 today, have laid out the details of a modification of their
18 program designed for toddlers and very young children.
19 Perhaps the most impressive aspect of the appearance of
20 this book is its timing. It follows the publication of the
21 authors' paper in *Pediatrics* (Rogers et al. 2010), which
22 describes a randomized controlled trial comparing the
23 ESDM to standard community treatment. The study finds
24 significant advantage for ESDM in terms of adaptive out-
25 comes and reduction in autistic severity after 2 years of
26 treatment. Unlike so many other treatment programs for
27 ASD, for which authors attempt to disseminate intervention
28 approaches BEFORE collecting data on their efficacy,
29 Rogers and Dawson have taken the opposite course. By
30 conducting a carefully designed study before publishing
31 their program, they have established an empirical basis for
32 it that provides a high level of added value. Parents and
33 educators who use the program have not just its authors'
34 endorsement, but a scientific basis for its validity.

35 The book is written in an engaging and accessible way.
36 One of its best features is its excellent first chapter, which
37 explains in lay terms what is known about brain develop-
38 ment and ASD. In clear, succinct, and readable language,

the authors summarize a broad swath of research on brain
development, discuss the brain areas thought to be most
affected in ASD, and highlight the role that early inter-
vention can play in brain development and its behavioral
outcomes. This chapter alone is worth the price of the
volume.

The next chapter lays out the characteristics of ESDM,
which include intensive, one-to-one instruction with a
trained "generalist" intervention provider, usually in a
home setting. An overview of the curriculum and basic
teaching procedures is provided. Comparisons to other
programs in the literature are made and the evidence for its
efficacy is discussed. Chapter 3 sets out some basic
implementation principles, including delivery settings,
agents, and procedures, as well as the role played by
families. Some discussion of the transition from ESDM to
other community-based services is included.

Chapters 4, 5, and 6 present detail on the program's
learning objectives, daily teaching plans, and contexts for
instructional activities. These chapters include case exam-
ples, as well as data tracking forms for individual toddlers,
guidelines on selecting objectives, and methods for
assessing behavioral change and dealing with children who
do not show adequate progress. Chapters 7, 8, and 9 discuss
each of the major domains of learning objectives for the
program: imitation, play, communication, and language.
Within each chapter, information on typical development
and methods for embedding the targeted skills in natural-
istic teaching "frames" that focus on joint attention are
provided. A carefully sequenced set of steps involved in
moving from lower to higher levels of behavior within each
domain is discussed, again with case examples. Chapter 10
gives a brief discussion of how the ESDM might be
implemented in group settings. There are also very useful
Appendices containing forms and checklists.

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74 Apart from its solid base in evidence, accessible writing
 75 style, and comprehensive overview of early intervention
 76 goals and methods, this book has several additional
 77 strengths. It is clearly targeted to practitioners, parents, and
 78 program administrators with the goal of expanding the
 79 impact of this well-designed program. Those who work in
 80 early intervention, and parents of young children with
 81 ASD, could derive great benefit from the study of its
 82 content in helping to organize thinking about the skills that
 83 should be addressed in early intervention, the sequence of
 84 objectives to be targeted, the methods that can be used to
 85 address each goal, and the process of monitoring progress
 86 and adjusting goals and activities to individual needs.
 87 Anyone who works with young children with ASD,
 88 regardless of level of experience, would find much to learn
 89 and apply to daily practice in this book.

90 The question that arises, however, is the degree to
 91 which the program presented in this volume is “scalable.”
 92 That is, could a community agency, without the support
 93 of the highly trained supervisory staff and consultation
 94 resources available in an academic setting, independently
 95 implement this program on a large scale, with adequate
 96 fidelity? One key to the success of ESDM would appear
 97 to be the depth of knowledge and experience available to
 98 its intervention staff, through ongoing supervision and
 99 collaboration with active scholars, to think through the
 100 individualization of the program to meet the needs of a
 101 wide range of toddlers with symptoms of ASD. This is, in
 102 the end, an empirical question; one that merits testing by
 103 concerted attempts to implement ESDM in large-scale
 104 community settings.

105 Apart from this big question, one could find a few ele-
 106 ments with which to quibble in this excellent volume.
 107 There is sometimes a paucity of credit given to the part
 108 played by other naturalistic behavioral interventionists who
 109 contributed to the development of many of the approaches
 110 used here. In their Background section, the authors credit
 111 Schreibman and Kogel with the creation of Pivotal
 112 Response Training, but do not mention any of the other
 113 contributors to the growth of naturalistic behavioral pro-
 114 grams at about the same time, such as Mand-Modeling
 115 (Rogers-Warren and Warren 1980), Incidental Teaching
 116 (Hart and Risley 1975), Prelinguistic Milieu Teaching
 117 (Warren and Yoder 1998), and Social Modeling (Leonard
 118 1975) to name just a few. In addition, many of the teaching
 119 practices claimed to be developed by the Denver model,
 120 such as use of positive affect, multiple communicative
 121 opportunities, and the use of a “one-up” rule (or “upping
 122 the ante” as Bruner [1975] called it), have roots in older
 123 developmental interventionist traditions. Facilitated Play
 124 (Seitz and Marcus 1976), Transactional Intervention
 125 (McLean and Snyder-McLean 1978), and Environmental
 126 Arrangement (Constable 1983) serve as just a few

127 examples. This is not meant to diminish the innovation
 128 involved in carefully integrating these approaches into a
 129 unified program, but only to remark that the Denver model
 130 did not spring full-blown from the heads of its creators, but
 131 represented their thoughtful participation in an emerging
 132 *zeitgeist* about intervention for young children with
 133 disabilities.

134 A speech-language pathologist might also quibble with
 135 their relegation of the role of speech-language pathology to
 136 dealing solely with problems of speech, rather than being
 137 integrated into the development of intervention to increase
 138 preverbal communication and first words. We might also
 139 question the authors’ decision to recommend PROMPT, an
 140 intervention that makes use of tactile cues for motor
 141 behaviors which has very limited empirical support outside
 142 the field of ASD, as the only treatment to be used for
 143 children who do not spontaneously progress to spoken
 144 language with ESDM, since the authors’ own research on
 145 this program (Rogers et al. 2006) shows no significant
 146 advantage for it. Nevertheless, the authors’ strong focus on
 147 the development of spoken language—through reciprocal
 148 vocal imitation and play, interpreting vocal productions “as
 149 if” they were meaningful, and encouraging the develop-
 150 ment of first words not only for object labels and simple
 151 requests but in such a way that they can be combined to
 152 form multiword utterances—is an orientation any language
 153 development specialist would endorse.

154 In sum, this book adds greatly to the growing literature
 155 on evidence-based naturalistic behavioral treatments for
 156 children with ASD. Its attention to the needs of children
 157 under three, now frequently diagnosed with the syndrome,
 158 as well as its comprehensive scope and reader-friendly
 159 style should guarantee it a well-deserved place on the
 160 bookshelves of all who are engaged in the difficult task of
 161 optimizing the developmental trajectory of young children
 162 with this syndrome.

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