

Education for Students with Reading/Learning Disabilities: What Makes it 'Special'

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What is Special about Treatment for Students with LD?



- Neurological disorder models
- Modality-matched instruction
- Multi-Sensory teaching
- Academic Instruction

Neurological Disorder Models



- Underlying process disability
 - Learning problems linked to underlying processes interfering with effective learning
- Intra-individual differences (Kirk & Kirk, 1971)
 - Identify individual student psycholinguistic strengths and weaknesses and design educational treatment plan accordingly
 - Students with LD require unique instructional practices beyond those used in general education

Challenges of Neurological Disorder Models



- Reliable identification and treatment of underlying deficits unsuccessful thus far
- Treatments not specific to learning difficulties
- Treatments not powerful enough to make discernable differences in academic learning (Hammill & Larsen, 1974, 1978; Kavale, 1981)
- Lack of measurement precision to identify process disorders and match appropriate treatments

Challenges to Modality-Matched Approach



Little empirical support for modalitymatched instruction or learning styles for improving outcomes for students with LD (Arter & Jenkins, 1979; Kavale & Forness, 1987; Kavale, Hirshoren, & Forness, 1998; Larrivee, 1981)

Multi-Sensory Approach



- Positive outcomes for individual cases
 (Fernald & Keller, 1921; Strauss & Lehtinen, 1947)
- Lack of compelling evidence that multisensory is a necessary instructional element for students with LD





Effective instruction is:

- Closely related to area of instructional need (e.g., reading, spelling, math)
- Well-specified
- Explicit
- Carefully designed

What is Special about Academic Instruction?



Specialized academic instruction for students with LD is:

- More explicit, more intensive, more supportive (Torgesen, 1996)
- Individualized, validated (Fuchs, 1996)

Increasing Intensity of Instruction



- Teacher-student ratio
 - Lower ratios increase interactions, individualization, on-task behavior, monitoring and feedback (Elbaum, et al., 2000; Thurlow et al., 1993)
 - Optimal group size unknown, but instruction provided in small groups enhances student outcomes over whole class instruction





- Initially, neurological disorder models and psycholinguistic training
- Recently, more emphasis on interventions corresponding to academic needs of student
 - Considerable overall effects on instructional outcomes for students with LD
 - Still more to learn students who have not successfully responded to treatments

Levels of Intervention in Public Health Model



- Primary Intervention
 - Implemented to avoid or prevent occurrence of illness/injury by preventing exposure to risk factors
- Secondary Intervention
 - Implemented to minimize severity of illness/injury once risk or illness is identified
- Tertiary Intervention
 - Implemented to minimize disability by providing medical care and rehabilitation services

(Schneider, 2000)

Public Health Model Applied to Education



Multi-tiered Instruction

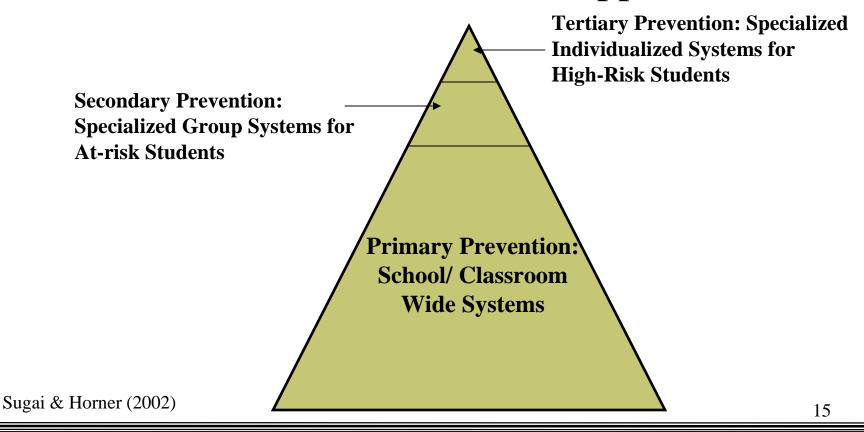
- Incorporates prevention and intervention
- Includes ongoing screening and progress monitoring to identify student needs for designing instruction and assess effectiveness of interventions
- Implement effective practices class-wide in general education (primary intervention)
- Provide successive levels of support to students as needed (secondary/tertiary intervention)

(Dickson & Bursuck, 1999; O'Connor, 2000)

Example: School-wide Positive Behavior Support



3-Levels of Behavior Support



Why are leveled or tiered models used for academic interventions?



- Allow for use of a range of programs
- Allow for integration of services (e.g., Title I, general education, special education)
- Allow for practices related to Response to Intervention

What is Response to Intervention?



- RTI as an approach to LD identification was proposed in a National Research Council report (Heller, Holtzman, & Messick, 1982)
 - Recently supported by national organization on LD groups including IRA, NASP, DLD
 - NASDSE defined RTI as "the practice of (1) providing high quality instruction/intervention matched to students needs and (2) using learning rate over time and level of performance to (3) make important educational decisions (2005, p.5)
 - NASDE recommends a multi-tier system across educational system

National Joint Committee on LD Report on RTI



Use of 3-tiered model

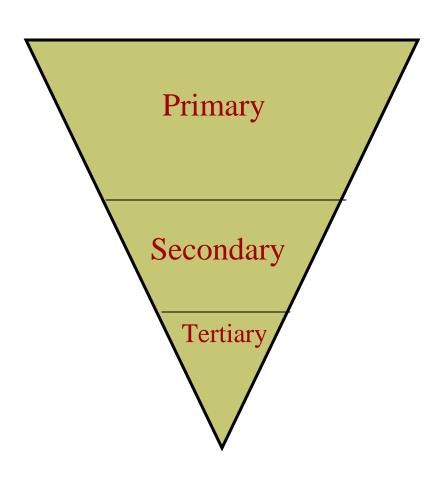
Tier 1: High quality instructional and behavioral supports

Tier 2: Specialized intervention for students behind peers

Tier 3: Comprehensive evaluation and specialized services with intensive intervention

NJCLD (2005)

A Model for Primary, Secondary, and Tertiary Intervention (cont'd)



Primary: Core Class Instruction



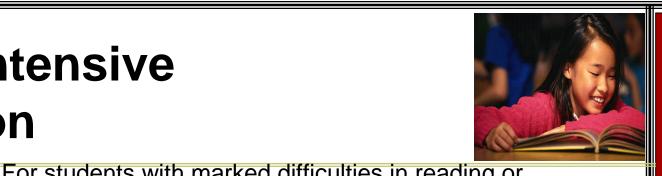
Focus	For all students
Program	Scientific-based reading instruction and curriculum emphasizing the five critical elements of beginning reading
Grouping	Flexible grouping
Time	90 minutes or more per day
Assessment	Screening assessment at beginning, middle, and end of the academic year
Interventionist	General education teacher
Setting	General education classroom

Secondary: Intervention



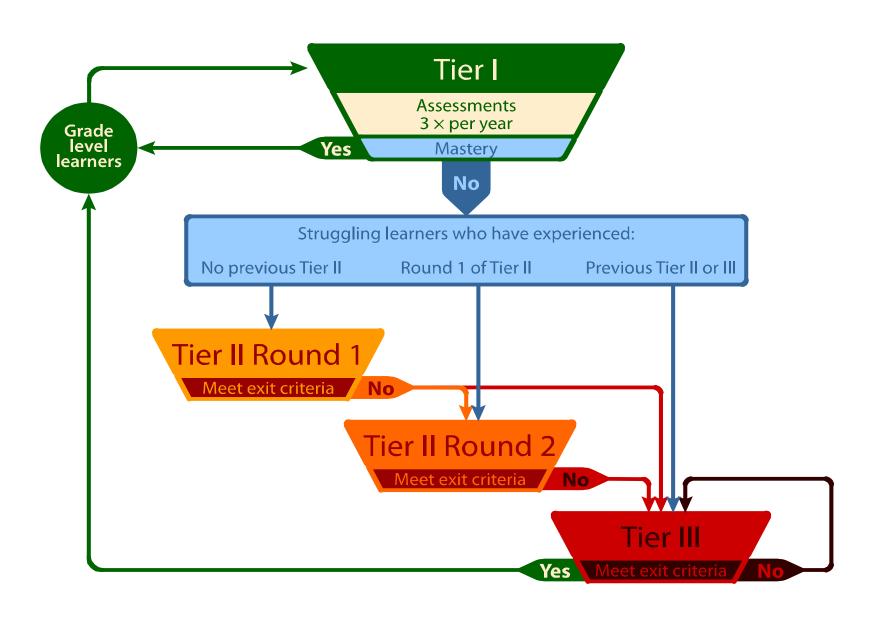
Setting	Appropriate setting designated by the school
Interventionist	Personnel determined by the school (e.g.,classroom teacher, a specialized reading teacher, an external interventionist)
Assessment	Progress monitoring twice a month on target skill(s) To ensure adequate progress and learning
Time	15-30 minutes per day in addition to 90 minutes of core reading instruction
Grouping	Homogeneous small group or one-on-one instruction
Program	Specialized, research-based interventions
Focus	For students identified as at-risk for reading difficulties, and who have not responded to Primary Intervention efforts

Tertiary: Intensive Intervention



Focus	reading disabilities and who have not responded adequately to Primary and Secondary efforts
Program	Sustained, intensive, scientifically based instruction
Grouping	Homogeneous small group or one-on-one instruction
Time	45-minutes or longer sessions per day tailored to students' individual needs
Assessment	Progress monitoring twice a month on target skill to ensure adequate progress and learning
Interventionist	Personnel determined by the school (e.g., a classroom teacher a specialized reading teacher, an external interventionist)
Setting	Appropriate setting designated by the school 22

Movement Through the Tiers



Advantages of Multi-tiered Approaches



- Serves students who require little intervention as well as students who require long term intervention
- Informs instructional needs for special education decisions
- Matches level of support to student need
- Allows for exit from special education when appropriate based on ongoing measurement of progress and response to intervention

What Is Special about Special Education for Students with LD?



- Delivery of instruction
 - Though students should have access to the same content as non-disabled peers, general education instruction alone will rarely meet needs
 - Instruction that is explicit and systematic and closely related to area of instructional need is most effective
 - Amount and Type of instruction needed to "close the gap"?



"Whereas many typically achieving students can make up for lost time, learn well independently, and make up for mistakes made by educators, special education students cannot. The influence of research and evidence on decision making has even greater value for those students with disabilities who most require precision in their instructional and behavioral plans." (Vaughn & Dammann, 2001, p.27)