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The Impact of Occupational Therapy Involvement in Response to Intervention (RtI) and Multi-Tiered System of Support (MTSS)

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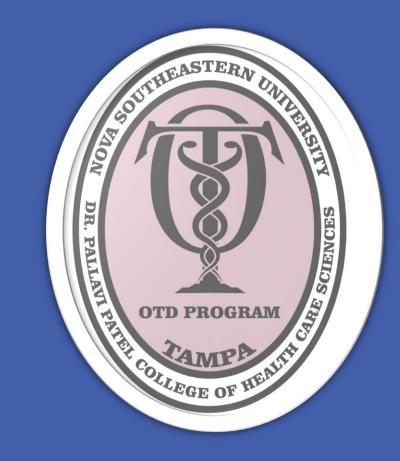
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The Impact of Occupational Therapy Involvement in Response to Intervention (RtI) and Multi-Tiered System of Support (MTSS)

Alexis Sambuco OTD-S

Hillsborough County Public Schools (HCPS) and Caminiti Exceptional Center Karen Aiken, MA, OTR/L



Tampa Bay Regional Campus NOVA SOUTHEASTERN UNIVERSITY

Introduction

The goal of this project was to increase awareness of the scope of school-based occupational therapy and provide beneficial strategies to embed into classrooms to improve occupational performance of various academic-related skills. The following question was explored: In the school setting, how does involvement of occupational therapy practitioners in the response to intervention (RtI) and multi-tiered system of supports (MTSS) process impact outcomes for students?



Site Description

- Hillsborough County Public Schools (HCPS) and Caminiti Exceptional Center.
 - Tampa, FL
 - HCPS mission statement: To provide an education that enables each student to excel as a successful and responsible citizen.
- Population of approximately 224,000 students across 304 schools.
 - Seventh largest school district in the United States.
 - Serves students from Pre-K through 12th grade.
- This project targeted the focus areas of program development and education.
- Mentor: Karen Aiken
 - District lead for occupational therapy and physical therapy.



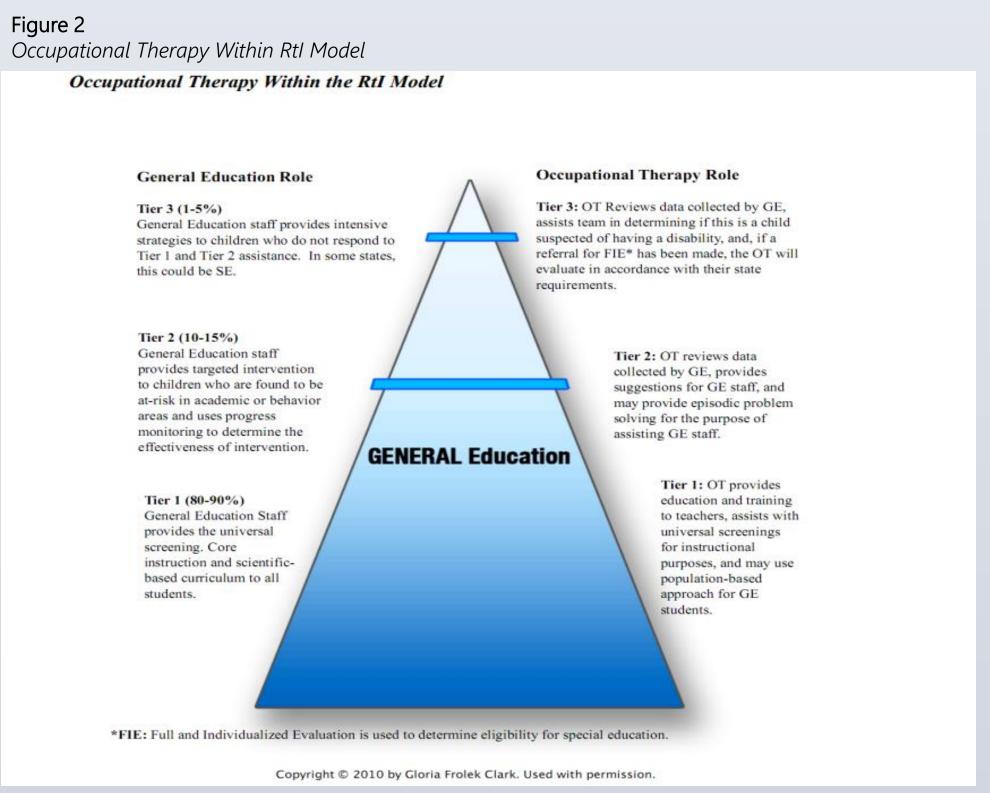
Summary of Needs Assessment

- Therapists desired a more efficient document to use when providing instructional strategies for teachers following an informal classroom observations.
- High influx of informal observation requests.
- Need for increased follow-through of provided instructional strategies for teachers.
- Provide additional educational resources for teachers.



Literature Review Summary

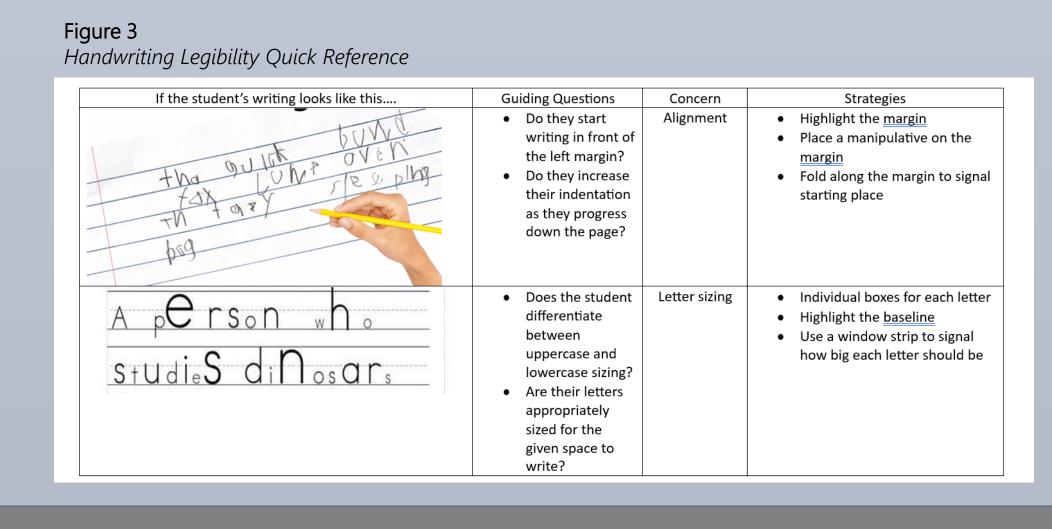
- Occupational therapists (OTs) can provide consultation to community planning agencies, multidisciplinary teams, and teachers as a method of providing indirect services (AOTA, 2020)
- Time, decreased understanding of the scope of practice for clinicians, and lack of a defined MTSS-RtI process were the main barriers identified by teachers.
 - Bolton & Plattner (2019), found that 46% of teachers within their survey demonstrated only a partial understanding of the scope of services of OTs.
 - Edick et al. (2022) found that approximately 66% of the teachers in their study reported wanting an increase in the amount of formal collaboration time with OTs.
- Therapists noted decreased involvement in RtI, lack of understanding of school-based therapy responsibilities, and increased time spent on documentation were all challenges associated with facilitating MTSS-RtI processes.
 - According to Corley et al. (2021), documentation accounted for approximately half of the clinician's time whereas 20% of their time was spent on participation in MTSS.
 - Participation in RtI was not viewed by therapists as a clearly defined role within the school setting (de Sam Lazaro & Riley, 2022).



Note. From "AOTA practice advisory on occupational therapy in response to intervention" by the American Occupational Therapy Association, 2011 (https://www.aota.org/practice/practice-settings/-/media/e7371c748756467ba101d6966bb98eb2.ashx). Copyright 2010 by Gloria Frolek Clark.

Capstone Project Description

- The purpose of my capstone project was to design teacher and school staff resources, training, and education addressing typical development, age-related expectations, and strategies to imbed activities that support motor development into the general curriculum.
- Observation of occupational therapists within the school setting.
 - Shadowed several clinicians during treatment sessions to understand the primary methods of service delivery within the district.
 - Attended IEP meetings.
 - Observed informal classroom observations.
- Revision of current MTSS-Rtl documents.
 - Updated the instructional strategies form to reflect needs of therapists and made it more easily accessible in its digital format.
 - Created a data collection tool for teachers to use when trialing instructional strategies.
- Creation of extended and condensed versions of teacher trainings focused on handwriting skills.
 - Described essential developmental milestones and foundational skills
 - Provided strategies and hands-on activities relating to skills such as legibility, letter formation, and spacing.
- Designed quick references for therapists to provide to teachers.
 - Strategies for pencil grasp, handwriting legibility, and scissor skills, and differentiation between sensory and behavioral concerns.



Learning Objectives Achieved

- Review current district training and demonstrate a strong understanding of the Rtl process.
- Demonstrate a well-developed understanding of the collaboration between occupational therapists, the student, educators, and parents during the therapeutic process.
- Observe therapists within kindergarten and prekindergarten classrooms to gain insight regarding service delivery methods.
- Create resources that target fine motor, visual motor, and visual perceptual skills to support school tasks (i.e., prewriting skills, handwriting, manipulation of school tools, etc.) and elaborate on the role of occupational therapy within the school setting by 07/28/23.

Figure 4 Updated Instructional Strategies Form for Occupational Therapists

Area of Concern: Pre-Writing/Handwriting Skills and Tool Use: | Strategies recommended | Not an area of concern

Behavior
| Provide cues and reminders to do their best work.
| Provide a writing checklist as a visual cue to review their work for proper spacing, appropriate letter sizing, etc.
| Allow for additional time to perform quality work.
| Allow for short written assignments to focus on quality over quantity.
| Positioning for Writing | Angle paper to the left or right when writing in accordance with hand dominance.
| Use a slant board/3-ring binder for better hand positioning and/or visual attention.
| Ensure stabilization of forearm and ulnar (little finger) side of hand onto table surface when writing, provide tactile and/or intermittent physical prompts as needed.
| Ensure feet are flat on the floor, lower desk and desk or provide footrest.
| Ensure paper stabilization with non-dominant hand while writing.
| Pencil Grasp
| Use shorter writing tools (ex: broken crayons, golf pencils, Pip Squeak markers, etc.).
| Incorporate resistive pinch activities into curriculum (ex: clothespins, snap cubes, Play-Doh, Legos/Duplo's, etc.).
| Use of a pencil grip
| Scissor Skills
| Use loop, spring, or adapted scissors.
| Ensure "thumbs-up" position of both hands during cutting activities.
| Ensure elbow is tucked in close to the body when cutting.
| Instructional | Allow use of provided adaptive paper.

Implications for OT Practice

Provide visual model of letters/numbers on desk

- There is a lack of research regarding successful occupation-based MTSS-RtI initiatives, clinician viewpoints pertaining to barriers to inclusion in this process, and teacher knowledge about the role of therapists within the school setting.
- Participation in MTSS-RtI is an integral role of occupational therapists within the school setting.
- It is important for both clinicians and teachers to acknowledge the full scope of occupational therapy practice within this setting to promote optimal outcomes for students.
- Shifting from a caseload to a workload model can assist in the facilitation of therapist involvement within the MTSS-Rtl process.

REFERENCES & ACKNOWLEDGMENTS

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References available upon request.