Service Delivery of PTs and OTs in Early Intervention: How are We Doing?



Purpose

To explore whether early intervention (EI) services provided by therapists meet the 5 requirements of federal laws (IDEA, part C), apply the 3 recommendations during intervention from the Academy of Pediatric Physical Therapy (APPT), and incorporate physical, cognitive, and self-care activities.

Methods

Participants

- 8 PTs and 5 OTs, all female, average aged 42 years.
- 13 infants with neuromotor delays (mean age 11.2 \pm 2.9 months) and their families
- This study is a part of a multi-site randomized controlled trial (START-Play, Dept. of Education). Families came from WA and PA states in the US.

Procedures

- Videotaped the EI sessions provided by PTs and OTs at home.
- Used a self-developed checklist to count intervention activities during PT and OT sessions.
- Coded the video minute by minute for cognitive and motor opportunities (yes or no).
- Used a therapist questionnaire filled out by the PT/OT detailing their perception of the intervention sessions for the past three months.



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Conclusions Results The results suggest that all therapists followed **Cognitive Opportunity and Motor Skills** the law, applied several recommendations from The therapist's perception and the coder-counted percentage of providing cognitive opportunities & working APPT, and incorporated various activities. on motor skills during the session. However, all therapists utilized toys, but limited the time that the infants interacted with the toys, 100% 80% and did not use the toy to focus on cognitive video counts 60% therapist's perception tasks. 40% The toys tended to serve as a means to motivate 20% the infants to move or reach, rather than play and motor skills cognitive opportunity interact. **Requirements of the IDEA, Part C** Clinical Relevance • All therapists met three requirements of the federal law: Provide intervention in a natural environment - Address team collaboration This information contributes to our understanding of Perform evaluation and assessments therapist's strategies with infants and their families Coordination with family members related to the IFSP and in El programs. any transition plan: These meetings were not observed. Therapists should consider expanding their **Recommendations from APPT** intervention strategies to include cognitive skills and Most of the therapists applied "developing and parent-child interaction. implementing appropriate intervention programs" and References "strategies that address self-care, mobility, learning and 1. Lobo, M. A., Harbourne, R. T., Dusing, S. C., & McCoy, S. W. (2013). Grounding early play". intervention: physical therapy cannot just be about motor skills anymore. Physical therapy, 93(1), 94. Most of the therapists applied "assisting families in 2. Chiarello, L. & Catalina, T. (2016). Infants, toddlers, and their families: early accessing services that promote full inclusion of child and intervention services under IDEA. Physical Therapy for Children. 5th ed. St. Louis, MO: Elsevier, 703-719. family into the community". 3. Chiarello, L., & Effgen, S. K. (2006). Updated competencies for physical therapists "Activities related to promoting parent-child interaction" working in early intervention. Pediatric Physical Therapy, 18(2), 148-158. 4. Catalino, T., Chiarello, L. A., Long, T., & Weaver, P. (2015). Promoting professional were rarely observed. development for physical therapists in early intervention. Infants & Young Children, 28(2), 133-149. Interventional Activities Observed Early Intervention Special Interest Group, Academy of Pediatric Physical Therapy (2017, June 15). Early Intervention SIG Resources. Retrieved from Health and well-being 10 https://pediatricapta.org/special-interest-groups/sigs.cfm?SIG=EI. Self-awareness and motivation Structured play Self-care routines **DUQUESNE** UNIVERSITY Provision of assistive devices Activities to improve social abilities UNIVERSITY of Activities to improve cognitive abilities John G. Rangos, Sr. Activities to improve communication School of Health Sciences WASHINGTON Activities to improve motor abilities Balance activities in any position Acknowledgement This project was supported by Efficacy of the START-Play Program for Infants with Activities to address the sensory systems Neuromotor Disorders. Harbourne, R and Galloway JC (Overall Co-PIs), Boviard J, Muscle Stretching Dusing S, Lobo M, McCoy SW, Sheridan S. Department of Education Institute of spastic muscle relaxation **2** Education Sciences, R324A150103 12







