Clinical Decision Making in Early Intervention: A Research Application Project

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The purpose of this project was to apply the principles of EBP to a case study and to utilize a decision-making map to ensure evidence, clinical judgement and client needs are thoroughly considered when making clinical decisions.

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Case Study

Mary Elizabeth is a 2-year, 6 month-old child that does not have consistent interaction with children her age. She was referred due to an inability to attend to others when they are speaking, a lack of engagement in reciprocal play, and decreased use of social language. Her father is requesting additional supports to be established for Mary Elizabeth.

Client Need

- Improvement of Expressive Vocabulary
- Increasing utterance types
- Promoting joint attention/engagement
- Teach reciprocal play and pretend play



Research - Framework

- Research has indicated that the implementation of Naturalistic Developmental Behavioral Interventions (NDBIs) can be used as an effective means for addressing delays in early intervention.
- The framework includes a variation of research-based approaches that can be implemented simultaneously during intervention sessions.
- The approaches found within the NDBI Framework are comprised of an algamation of principles from both developmental and behavioral research
- Commonalities shared among all NDBIs include: consideration to the wellestablished principles developed via the science of ABA, ongoing measurement of progress during treatment, and common instruction strategies such as modeling and environmental arrangement.



Research - Approaches

- Examples of Naturalistic Developmental Behavioral Interventions:
 - The Social Communication, Emotional Regulation, and Transactional Support (SCERTS) Model (Prizant, Wetherby, Rubin, Laurent, & Rydell, 2006; Rubin, Prizant, Laurent, & Wetherby, 2013)
 - Enhanced Milieu Teaching (EMT; Kasari, Kaiser, et al., 2014 Hancock & Kaiser, 2002; Kaiser & Robert, 2013)
 - Incidental Teaching/Walden Toddler Program(Hart & Risley, 1968, 1975; McGee et al., 1999)
 - JASPER
 - **Pivotal Response Treatment (PRT**; Koegel et al., 1999; Koegel, Shoshan, & McNerney, 1999)
 - DIR Floortime (Wieder & Greenspan 1997, 2005)



Clinical Judgement

- Parental training and involvement is considered paramount when constructing a plan for intervention so the parents or care takers will be able to successfully support the client's language development and encourage generalization.
- Enhanced Milieu & JASPER are two evidence-based approaches that are specifically designed to elicit periods of joint attention. Both approaches have specifically defined strategies.
- Enhanced Milieu teaching, Pivotal Response Treatment(PRT), and the Social Communication, Emotional Regulation, and Transactional Support (SCERTS) Model are three evidence-based approaches that prove to increase utterance types in communication in young children
 - SCERTS would be an ideal approach because it focuses on the ability to engage as a social partner, and this approach is designed for kids with Autism Spectrum Disorder.
- DIR/Floortime can be beneficial when teaching reciprocal and pretend play. Reciprocal play is not likely to generalize for a child with autism unless direct intervention is used.
 - Reciprocal imitation is beneficial in production and development because it allows for repeated exposure and it keeps the child engaged.



Recommendations for Treatment

- Recommendations for Mary Elizabeth include the following:
 - Referral to obtain an evaluation from a multidisciplinary team for Autism Spectrum Disorder.
- Treatment recommendations include implementing the following approaches from the NDBI framework during treatment in order to improve expressive vocabulary, increase utterance types, promote joint attention/engagement, and teach reciprocal play and pretend play.
 - PRT or SCERTS model expressive vocabulary
 - Enhanced Mileau or JASPER joint engagement
 - SCERTS or Mileau Teaching increase utterance types
 - DIR Floortime– reciprocal play and pretend play
- The NDBI framework provides an array of trainings for parents to develop appropriate understanding and implementation of appropriate strategies
- The results of this literature found overwhelming evidence to support NDBIs as a framework for intervention with the birth to five population ////



References and Acknowledgements

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