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Submission Type Symposium/Panel Presentations - 45 Min

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Session Title An interprofessional practice model: Dental, Physical Therapy, Behavioral and Educational professions collaborating to enhance dental care for children with autism

Poster

Session Description This session will describe and provide data to support an interprofessional practice model for dental care for children with autism. In alignment with the guiding principles of the various professions, an interprofessional practice model was developed that demonstrated the value of collaboration with other health care providers, consumers, and other disciplines to solve a specific health-related challenge that impacts our society – dental care of children with autism. Based on the tenets of sensory processing and positive behavior support an interprofessional team inclusive of dental medicine, physical therapy, education, and behavioral sciences collaborated to create a team approach to patient centered pediatric dental care to address behavioral challenges and safety risks in children with autism. Strategies discussed are applicable across professions, conditions and lifespan in interprofessional team development, interprofessional intervention creation, and interprofessional research engagement in assessment of model effectiveness, intervention effectiveness, and patient satisfaction.

Please list all professions involved in this abstract Dental Medicine, Physical Therapy, Health Sciences Education

Three Behavioral
Goals and Objectives

Upon completion of this course the attendee will be able to 1. Identify and discuss strategies to facilitate development of interprofessional teams. 2. Discuss strategies to develop and assess an interprofessional model of practice. 3. Discuss efficient strategies to interprofessionally gather and assess intervention effectiveness and patient satisfaction.

Background or
Rationale

Dental visits can be a challenging experience for any individual at any age. For children with autism a routine visit at the dental office is even more challenging, due to associated sensory processing disorders and particularly oral hypersensitivity. 1,2. While progressive desensitization and advanced behavior guidance using sedation/general anesthesia have proven effective, these methods pose risks for child development and safety and can be inaccessible due financial limitations 3,4,5. Additionally, challenging behaviors during dental care can impose safety risks to the dental provider. This interprofessional practice model evolved from a group of individuals from various disciplines committed to promoting integrated perspectives that are interprofessional and patient-centered with a common goal to enhance the lives of individuals with Autism Spectrum Disorder (ASD). Based on the tenets of sensory processing and positive behavior support an interprofessional team inclusive of physical therapy, dental medicine, education, and behavioral sciences collaborated to create a team approach to patient centered pediatric dental care to address behavioral challenges and safety risks. Collaboration among the interdisciplinary teams resulted in development of an interprofessional model of practice and intervention that delivered an effective patient-centered dental care for children with autism. The interprofessional team worked in unison to create a patient friendly experience that included measurable assessment of model effectiveness, patient, patient family, and provider satisfaction, safety, and financial implications.

Methods or
Methodology

The process of developing an interprofessional model of practice from conception to application will be provided. Beginning with identification of alignment in area of interest and outcome - improve the oral health and quality of life for children with Autism Spectrum Disorders (ASD). Team members then identified shared outcomes and strategies by which to best provide and assess the interprofessional model and developed interdisciplinary intervention. Once mission, goals, and intervention were established the research strategy required development from an interprofessional approach. A novel treatment design and education program utilizing a combination of biotechnology (an electric toothbrush) and multimedia (ASD-specific video and interactive applications) were employed to tackle oral sensory issues in children with ASD and challenge an existing paradigm or clinical practice in the dental treatment of the number of appointments currently utilized for desensitization and/or behavior guidance techniques. Assessment included physiological responses (changes in heart rate, blood pressure and respirations), behavioral reporting, toothbrush usage (time on task), dental visit reporting (procedures completed & patient response), parent satisfaction and patient feedback. Research was approved by University IRB and participating dental clinics.

Results or Findings	Data indicate an interprofessional model resulted in positive outcomes and evidence suggesting best practice based on: 1.) positive social validity - patient, patient family and health care provider satisfaction 2.) improved patient behavior/decreased dental anxiety 3.) financial implications - decreased number of visits needed 4.) improved dental care and 5.) increased parent/guardian knowledge
Conclusion or Implications	This educational/panel presentation will provide an example of one successful approach to development of an interprofessional team and practice model inclusive of assessment strategies. Data will be provided that support positive changes in patient outcomes, professional treatment implications, satisfaction, and financial implications.
Teaching Methods	
Three Contemporary Peer Reviewed References	<p>Stahmer AC, Brookman-Frazer L, Lee E, Searcy K, Reed S. Parent and Multidisciplinary Provider Perspectives on Earliest Intervention for Children at Risk for Autism Spectrum Disorders. <i>Infants and young children</i>. Oct 2011;24(4):344-363. Pfeiffer BA, Koenig K, Kinnealey M, Sheppard M, Henderson L. Effectiveness of sensory integration interventions in children with autism spectrum disorders: a pilot study. <i>The American journal of occupational therapy</i> : official publication of the American Occupational Therapy Association. Jan-Feb 2011;65(1):76-85. Chandrashekar, Shashidhar Bommangoudar, Jyothi S Management of Autistic Patients in Dental Office: A Clinical Update. <i>International Journal of Clinical Pediatric Dentistry</i> May-June 2018; 11 (3): 219-227.</p>
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Brief Bios	https://www.napractice.org/LinkClick.aspx?fileticket=q0t6bKN2UzE%3d&portalid=0
CVs	https://www.napractice.org/LinkClick.aspx?fileticket=jfMaM72Z8HA%3d&portalid=0