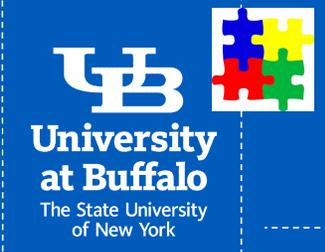


The utility of Applied Behavior Analysis (ABA) principles in a medication management visit: A focus on medication adherence in the autism spectrum and intellectual disability disorder In the pediatric population

No conflicts of interest to disclose



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***This project is still in process

Introduction

- While there is good evidence on the use of Applied Behavior Analysis (ABA) in improving behavioral functional outcome in the Autism Spectrum Disorder – Intellectual Disability Disorder (ASD-IDD) population, there are limited studies examining how ABA can be further facilitate medication adherence in this population.
- There are mixed findings regarding medication adherence compared to behavioral intervention adherence in the ASD population
- According to the study by Hock and colleagues on examining treatment adherence among parents of children with autism spectrum disorder perceived family burden of treatment and ASD severity were associated with lower medication adherence.

Objectives

This project focuses on investigating the utility of ABA informed approach in addressing medication adherence in the autism spectrum and intellectual disability disorder pediatric population. The aim are as follows:

- Educate providers on utilizing ABA principles to maximize addressing factors that could negatively affect medication adherence in an outpatient setting.
- Assess providers comfort level/ perceived usefulness of the ABA strategies.

Method

Sample:

- Medication prescriber's at The Children's Psychiatric clinic Buffalo, NY
 - Treating pediatric patients with the diagnosis of ASD, IDD and related conditions

Procedure:

A

Demographic Questions/Survey

Thank you for your time in participating in this demographic survey. Your response is valuable. The questioner is begin conducted as part of a project which is investigating clinicians' comfort level and perspective with using Applied Behavior Analysis strategies in address medication adherence in the pediatric Autism spectrum and Intellectual Disability Disorder population. Please be assured that the information you provide will remain confidential and anonymous.

- What is your gender?
 - Male
 - Female
- Are you a medical provider?
 - Yes
 - No
- Do you provide medication management for pediatric patients?
 - Yes
 - No
- I am a (an)
 - Resident
 - Fellow
 - Attending
 - None of the above choices
- I currently treat pediatric patients on the Autism spectrum and or have Intellectual disability disorder:
 - Yes
 - No

B

ABA-edu:

Medication adherence Applied Behavior Analysis (ABA) CHECKLIST
This checklist is to assist in addressing factors that can prevent medication adherence when treating patients with Autism Spectrum Disorder and or Intellectual Developmental in an outpatient setting. The checklist incorporates basis elements of ABA in conceptualizing barriers to adherence.

A. Antecedent Variables	Note
Education <ul style="list-style-type: none"> Informed consent 	
Medication context <ul style="list-style-type: none"> Appropriateness of medication form, size, taste and delivery route Side effect and drug-drug interaction checking 	
Social <ul style="list-style-type: none"> Medication affordability Access to pharmacy Refill request resources 	
Supervision/Monitoring <ul style="list-style-type: none"> Appointment adherence 	
A. B. Behavior Variables	Note
Skill deficits <ul style="list-style-type: none"> Pill discrimination Concept of time 	
B. Consequences Variables	Note
Medication effects and landmarks <ul style="list-style-type: none"> Signs of effect Signs of side effect Signs of permanent medication product 	

C

Post-edu/ training assessment is address the following:

- If providers found handout/ checklist useful after training
- How many patients/families were helped using the strategy
- If providers thought it would be useful for a patient yet to be seen post-training
- If the strategy helps save time during medication management visit
- If the strategy helps with improving structure/organization when obtaining history

Discussion

- Applied behavior analysis (ABA) examines and manipulates the interplay of antecedent, behavior and consequence with the goal of improving functional outcomes.
- Investigating effective tools providers can utilize in facilitating the processes of medication adherence is imperative.
- There is robust evidence on using the principles of applied behavior analysis to improve functional outcomes in the autism spectrum disorder and intellectual disability disorder pediatric population.
- The issue of medication adherence is a common factor that affects treatment outcome in pediatric psychiatry.

Reference

- Hock R, Ph.D., Kinsman A, Ph.D., Ortaglia A, Ph.D. Examining treatment adherence among parents of children with autism spectrum disorder. Disability and Health Journal. 2015;8:407-413.
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