Are PA students ready to work with patients with a common mental health condition? PA student competencies to work with children with autism spectrum disorder

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BY THE END OF THE SESSION, ATTENDEES SHOULD BE ABLE TO:

- Explain why PA students, should be trained to work with patients with Autism Spectrum Disorder.
- Determine which areas of training PA students would like to be more competent in with regards to ASD and other mental health disorders.
- Summarize areas where additional training may be needed for PA students working with patients with Autism Spectrum Disorder.





The CDC estimates that 1 in 59 children have Autism Spectrum Disorder (ASD)

ASD is 4 times more common among boys

ASD occurs in all races, ethnicities, and socioeconomic groups





WHEN SHOULD A CHILD BE SCREENED FOR ASD?



 According to the American Academy of Pediatrics all children should be screened for ASD at 18 months and 24 months

BARRIERS

- Lack of pre-professional and professional training
- Lack of comfort to have conversations with parents of children who may have mental health concerns

THE NEED FOR RESEARCH



Studies have demonstrated a lack of comfort and training for clinicians to address ASD, it prompted the need for this research project









ANALYSIS



The data was analyzed using descriptive statistics N

Parametric and nonparametric inferential statistical tests were also used for the gap analysis

RESULTS	
Fraining on Identification of ASD Red Flags b	oy PA Students
Are You Adequately Trained To	Yes (%)
Administer the M-CHAT) R/F	41.8
Provide care to patients with ASD	45.1
dentify red flags for ASD?	71.2
Inderstand ped. developmental milestones	87.3

RESULTS

Percent of Student PAs Who Feel Prepared to Talk to Caregivers by Condition and Perceptions of Vaccination-ASD Link

Conditions	Yes, with all (%)	Yes, with those for whom there is a concern (%)	No (%)	
Depression	50.8	35.4	13.8	
Anxiety Disorders	45.2	36.7	18.1	
ADHD	33.9	41.3	24.9	
Autism Spectrum Disorder	25.9	36	38.1	
Conduct Disorder/ODD	26.1	33.5	40.4	

Link between vaccines and ASD (94.7% say there is not; 0.5% say there is, and 4.8% say they do not know).

RESULTS

Gap Analysis - Knowledge of ASD Among PA Student Respondents

Knowledge, Skill, or Ability	N	Current Mean	Desired Mean	Gap (Difference)	Effect Size d			
Understanding						0.6 1		
- All pediatric developmental milestones	171	2.60	4.28	1.68	1.47			
- The early signs, or red flags, of ASD	170	2.44	4.23	1.79	1.53			
- The DSM-5 criteria for diagnosing ASD	169	2.22	4.05	1.82	1.46			
Administering the MCHAT R/F	171	1.46	3.88	2.42	1.82			
Understanding where to make a referral for …in the event you needed to refer a child to their services								
- Early intervention	168	2.00	4.14	2.14	1.75			
- Audiologic evaluation	171	1.98	4.14	2.16	1.74			
- Further evaluation.	180	2.08	4.15	2.08	1.70			







- ASD (61.9% yes)
- ADHD (75.1 % yes)
- Anxiety (71.9% yes)



THE LARGEST SKILL GAPS WERE AS FOLLOWS:



- Administering the M-CHAT-R/F (2.42 points)
- Understanding where to make referrals for followups
 - Early intervention (2.14 points)
 - Audiological evaluation (2.16 points)
 - Further evaluation (2.08 points)
- Understanding the DSM-5 criteria for ASD (1.82 points)

ASD SERVICES

- No two patients with ASD will be alike as deficits can vary case by case. Therefore, clinicians need to be familiar and comfortable with recognizing red flags and making referrals to organizations such as Early Intervention (EI).
- However, the results have demonstrated that clinicians are not well-versed with what El entails.



EARLY INTERVENTION

- Early Intervention (EI) is a national program for infants and toddlers under the age of 3 with developmental disabilities.
- Each program varies state to state, but includes therapeutic services such as:
 - Speech Pathology and Audiology
 - Occupational Therapy
 - Physical Therapy
 - Psychosocial Services
 - Nutrition Services
 - Psychological Services
 - Family Education and Counseling



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HOW TO REFER

- Every state has a municipal Early Intervention Official (EIO) who should be contacted in order to refer a patient for an evaluation
- Additionally, you can visit your state's Department of Health, Bureau of Early Intervention website







LEARN MORE

- Rizzolo D, McCall TM, Smith NS. Towards Earlier Identification: Clinicians' Perceptions of their Ability to Identify, Diagnose, and Refer Patients with Autism Spectrum Disorder. *J Allied Health*. 2019;48(4):287-292.
- Rizzolo D, Smith NE, McCall TC, Roberts A, Porta K. Physician assistant students' competency to identify and diagnose Autism Spectrum Disorder. *J Physician Assist Educ. 2020; 31(2)*.

28

