### WAYNE STATE **School of Medicine**

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### INTRODUCTION

Autism Spectrum Disorder (ASD) encompasses a wide range of neurological and developmental conditions that are commonly characterized by difficulties with social communication, developmental delays, and repetitive behaviors. <sup>(1)</sup> ASD is commonly diagnosed in childhood, however the severity and presentation of autism can vary greatly between individuals and diagnosis may not occur until adulthood. <sup>(2)</sup> Over the past few decades, the prevalence of autism in the United States has been continuously rising, with 1 in 44 children now having some degree of autism. <sup>(3)</sup> Whether it is in medical school or later on in their own clinical practice, medical students are almost certain to come across a patient with autism at some point in their career.

According to self-reported data, people with ASD have poorer overall health outcomes and inferior quality of healthcare than people without ASD. <sup>(2)</sup> This may be attributable in part to the difficulties that healthcare practitioners face in terms of effective communication, which impacts medical diagnosis and treatment. <sup>(4)</sup> Healthcare workers that have positive, open-minded, and supportive attitudes are better able to communicate and collaborate to provide patients with autism with better care. <sup>(2)</sup>

To effectively and equitably serve future patients, we must adapt medical students' training to reflect changes in the patient population. This study aims to evaluate medical students' implicit attitudes of people with autism. In order to enhance Wayne State University School of Medicine's curriculum for treating patients with autism, students will also be surveyed to identify what educational interventions should be implemented. This preliminary assessment of preclinical students' perceptions of individuals with autism will serve as the foundation for future curriculum changes.

# Medical Student Attitudes towards Autism

### Laial Baltaji, Erin Miller, Jason Booza

## METHODS

Participants: medical students in pr
WSUSOM (years one and two)
Method of data collection: online a
Measures
Demographics: age, gender
WSUSOM, exposure to auti
Societal Attitudes Towards A
16 statements
Randomized
Additions to WSUSOM Curr
Clinical skills session,
workshop, online canv
<b>Responses to SATA Scale measur</b>
Strongly disagree (1) to Strongly
No median answer of
Maximum score of 60
Answers of strongly disagre
the statement
Answers of strongly agree of
statement
Slatement
EXAMPLE SATA SCALE ST
<ul> <li>Individuals with autism are inc their own</li> </ul>
<ul> <li>Children with autiem should be</li> </ul>

 Children with autism should be fully integrated into mainstream classes\*

- A person with autism is a financial burden to his or her family
- \* = Reverse scored statement

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pre-clerkship phase from

survey via qualtrics

r, current year at tistic persons Autism (SATA) Scale (5)

riculum P4 session, separate vas module, other red using likert scale ongly agree (4) neither available possible e or disagree disfavor

or agree favor the

### **FATEMENTS(6)**

capable of living on



Control and Prevention 22. Accessed November 3, 2022. sionals' knowledge, self-efficacy and attitudes towards ntal Disorders. 2021;9(3):386-399. doi:10.1007/s40489-

ntrol and Prevention. Accessed November 3, 2022. althcare and worse health based on self-report

nent of the Societal Attitudes Towards Autism (SATA) 21-128. doi:10.1111/j.1471-3802.2011.01224.x Linking knowledge and attitudes: Determining neurotypical knowledge about and attitudes towards autism. PLOS ONE. 2019;14(7). doi:10.1371/journal.pone.0220197

## **EXPECTED RESULTS**

✤ SATA scale is scored out of 60 (6) 15 or less indicates a strong negative attitude ✤ 16–30 indicates a negative attitude ✤ 31–45 indicates a positive attitude ✤ 46–60 indicates a strong positive attitude Students with prior exposure to people with ASD are more likely to score higher Overall assessment of MS1 and MS2 attitudes Students further along in medical school may have higher scores. Potential significance between demographics and attitudes ✤ Gender ✤ Age

Using the SATA survey to assess medical students in the pre-clerkship phase provides a baseline of attitudes prior to a great deal of patient exposure during the clerkship phase.

This opens the door for future research into the attitudes of MS3 and MS4 students during the clerkship phase. This allows for trend comparisons and determining whether increased clinical exposure has a positive impact on attitudes toward people with ASD.

The attitudes of the majority of medical student will be useful in determining next steps. If the majority of medical student attitudes are positive, a second study will be conducted to assess medical students' general knowledge and diagnosis of autism. If the majority of student attitudes are negative, a workshop based on student preferences may be developed.

Ranking of preferred educational interventions

## CONCLUSION