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A Virtual Educational Intervention Addressing Weight Bias in Medical Students

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A Virtual Educational Intervention Addressing Weight Bias in Medical Students

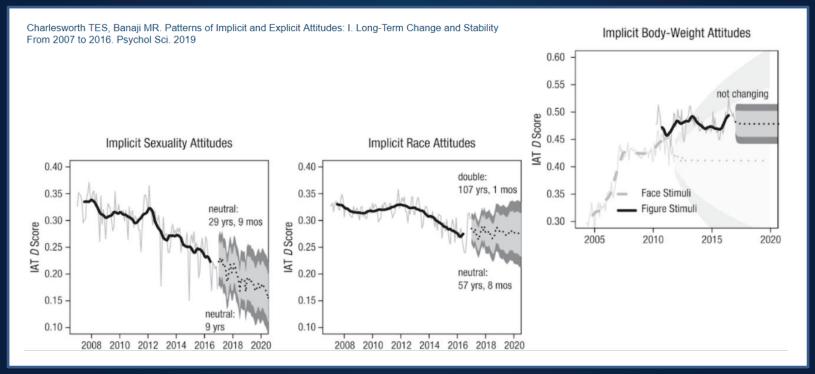
Gina Goldberg, Joseph Majdan, MD*

(**) indicates another student who is declaring the same project as primary for SI



Introduction

 Individuals with higher body weight experience severe and pervasive discrimination in nearly every walk of life¹



 Stigmatizing treatment from healthcare providers leads to poor health outcomes²



Introduction

- Approaches in existing literature³
 - Increasing understanding of the <u>uncontrollability of obesity</u>
 - Induction of Empathy for individuals with obesity
 - Increasing awareness of implicit biases toward people with obesity
 - Decreasing the social acceptability of weight bias
- No existing studies include
 - Personal testimony of Physician Mentor
 - Virtual, self-guided format



Research Question & Hypothesis

Research Question

– Does a virtual educational session about obesity influence the explicit attitudes and implicit biases of medical students towards people with higher body weight?

Hypothesis

 Explicit attitudes towards people with higher body weight will improve after a virtual educational session about overweight and obesity. Implicit attitudes may not change.



Approach

- Population
 - SKMC students
- Intervention
 - Virtual session
- Implicit Association Test

 Next, you will use the 'E' and 'I' computer keys to categorize items into groups as fast as you can. These are the four groups and the items that belong to each:

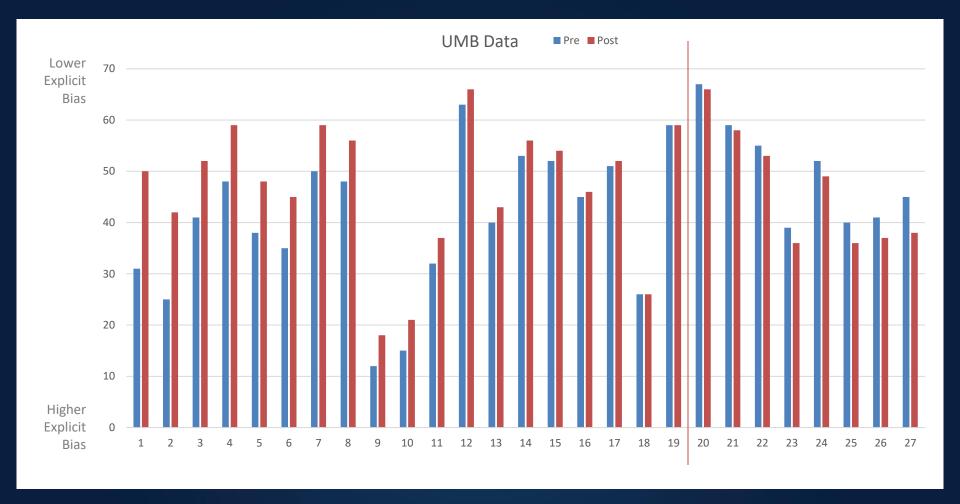
 Category Items

 Good Lovely, Attractive, Pleasure, Excellent, Smilling, Delightful, Appealing, Cheerful

 Bad Rotten, Tragic, Hate, Abuse, Dirty, Detest, Horrific, Grief

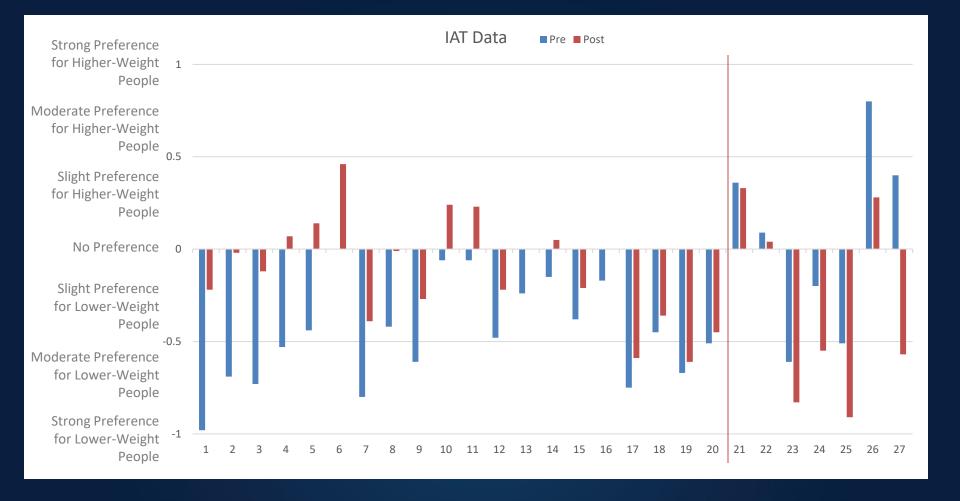
 Fat People

 Thin People
- Biological basis (uncontrollability of obesity)
- Personal experience (<u>induction of empathy</u>)
- Data Source and Collection
 - Implicit Associations Test (implicit bias)
 - Universal Measure of Bias Questionnaire (explicit bias)
 - Demographic questions



Universal Measure of Bias (UMB) Findings

- Shift away from higher explicit bias toward lower explicit bias
 - 6.2% average decrease in explicit bias



Implicit Associations Test (IAT) Findings

- Overall shift away from automatic preference for lower weight people toward automatic preference for higher weight people
 - 7.7% average change in preference overall (n=27)
 - 11.8% average change in preference in those who started with an automatic preference for lower weight people (n=22)



Conclusions

- Preliminary data suggest that both explicit and implicit bias tend to decrease after our virtual intervention
- Accessible, brief way to address weight bias in SKMC students
- Limitations
 - No control group (pre-post intervention study)
 - Tests, intervention dependent on full attention



Future Directions

- Data analysis
 - Relationships between explicit and implicit data
 - Demographics self-reported weight status, gender identity, age, race/ethnicity, class year
- Follow-up in 3-6 months
- Easily scalable
 - Role of relationship with Dr. Majdan
 - Medical students at other schools
 - Other medical professionals
- Incorporation into JeffMD curriculum



Acknowledgements

- Alyssa Kyle
- Clara Farrehi
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References

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- 3. Lee, M., et al. (2014). "Malleability of weight-biased attitudes and beliefs: a meta-analysis of weight bias reduction interventions." Body Image 11(3): 251-259.