

Background

- Musculoskeletal (MSK) issues make up 20% of primary care and emergency department visits in the US¹
- In informal feedback to the pre-clerkship education committee, students from the class of 2022 commented that they felt their preparation for the musculoskeletal examination during the first two years was insufficient

Objectives

This study surveyed third-year medical students to identify their:

- 1. confidence with MSK examination skills
- 2. MSK exam education experience
- 3. suggestions to improve the curriculum

Methods

15-question survey including Likert-scale and open-ended questions administered to third-year students who have completed:

- two years of preclinical organ-system-based curriculum
- orthopedic clinical skills lab
- the rheumatology clinical skills lab
- "Transition to Clerkship" musculoskeletal clinical 4. skills lab
- Questions 1-5: assessed **confidence level** with clinical exam of various organ systems
- Questions 6-11: assessed **perceived utility** of existing MSK curricular activities
- Question 12: assessed helpfulness of having MSK clinical skills during MD3 anatomy
- Questions 13-15: open-ended questions assessing the most helpful parts of MSK curriculum and suggestions for improvement

References

Evaluating Medical Students' Confidence in Musculoskeletal Examination: Implications for Improving Musculoskeletal Medicine Education

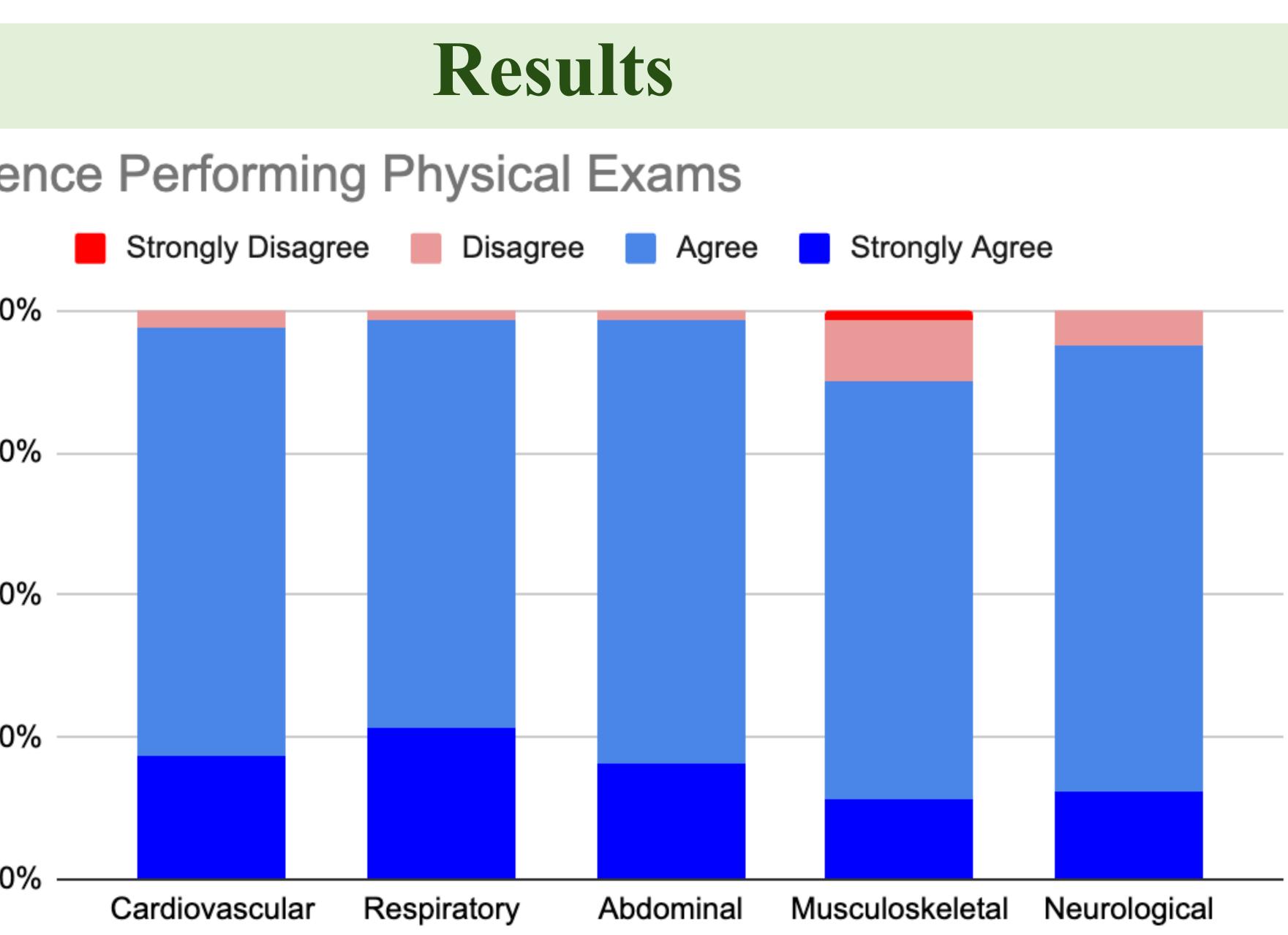
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would be helpful

Medical students in the US & Canada have a relative lack of confidence in conducting MSK exams, especially when compared to exam of other organ systems² Despite adequate instruction of the MSK exam, there were fewer opportunities for practicing the MSK exam in full compared to other organ systems, which could contribute to decreased confidence Proposed curriculum modifications are being implemented by the Office of Medical Education: Early introduction of MSK clinical exam skills during first year instead of second year Incorporating MSK clinical exam skills into the corresponding anatomy unit (MD3) Assigning a physiatrist to work with the anatomy department to teach MSK exams Increasing small-group problem-based learning sessions related to MSK conditions



Physical Exam Subsets

Students expressed the least confidence in performing the MSK exam compared to other organ systems (12.5% reported low confidence in MSK exam vs. 3%, 1.5%, 1.5%, and 6% of students for the cardiovascular, respiratory, abdominal, and neurological exams, respectively), despite 92.2% of students agreeing that the MSK curriculum provided adequate teaching

Students reported positive feedback ("strongly agree"/"agree") regarding the Shriner's Orthopedics experience (92.2%), Rheumatology clinical experience (90.7%), and Transition to Clerkship MSK clinical skills lab (95.3%) as valuable learning experiences

98.4% of students strongly agreed/agreed that adding clinical MSK skills to the MD3 anatomy unit

Discussion

