CHOOSE YOUR OWN PHYSICAL DEVELOPMENT OF INTERACTIVE CASES AND REVIEW **OF LITERATURE ON TEACHING TARGETED PHYSICAL** EXAMINATION: **EXAMINATION SKILLS**

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INTRODUCTION

- There is high comorbidity of physical illness in patients with severe mental illness^{4,8}, and physical exam (PE) findings are key diagnostic tools in certain psychiatric conditions.
- Conducting a targeted PE, including a neurologic exam, is a milestone per the ACGME in psychiatry.
- Despite this, literature reveals infrequent use of the PE in psychiatric practice among clinicians, little formal education on the PE in residency, and low confidence levels among trainees.

LITERATURE REVIEW

- General decline in PE proficiency and use across specialties¹⁰
- The PE is high-yield in psychiatric patients, more so than lab evaluations^{1,11}
- The PE is underutilized in psychiatric patients⁵
- Psychiatrists continue to view the physical exam as important, though report low confidence in their skills^{2,7}
- There are limited targeted educational interventions to address this gap in postgraduate training
- Expert opinion is that a cultural shift towards valuing the PE is needed in psychiatry⁶
- Case-based learning shown to be superior to other formats³
- Choose-your-own-adventure (CYOA) format found to be preferred among some other formats in medical education¹²

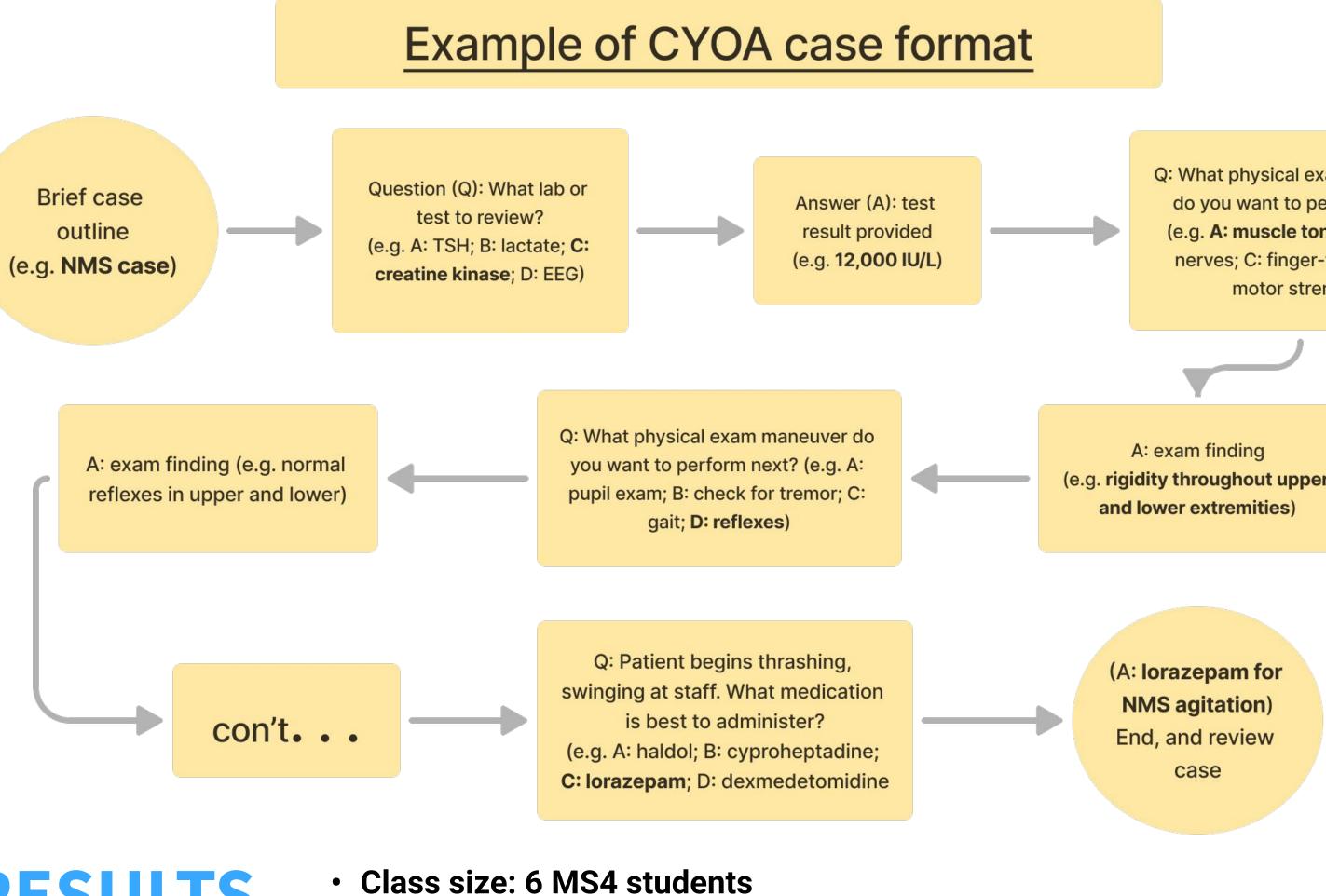
AIM AND RATIONALE

- This project's aim is to improve the education of MS4 students on the psychiatric PE to close the training gap.
- Highlighting the PE content early in training may help shift the culture, so that maintenance of this skill is a focus throughout one's career. Case-based and CYOA formats are effective and preferred.

METHODS

- 1. Literature review (left) 2. Creation of a medical student session titled "Advanced Physical Exam," within a two-week internship preparatory course in psychiatry (April, 2024):
 - Target population: MS4 students matched into psychiatry

 - Course format:
 - Interactive, case-based, "choose-your-own-adventure" (CYOA) format
- 3. Two presenters demonstrating key parts of exam to participants 4. Use of video to supplement demonstrations (University of Rochester)
- 5. Post-course survey for anonymous feedback and evaluation of course





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• Content: psychiatric PE

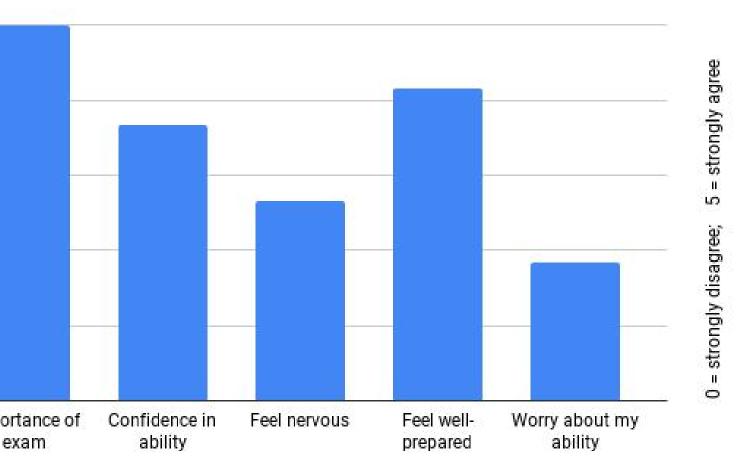
• With a focus on the clinical scenarios of serotonin syndrome, NMS, catatonia, delirium, substance toxidrome/withdrawal

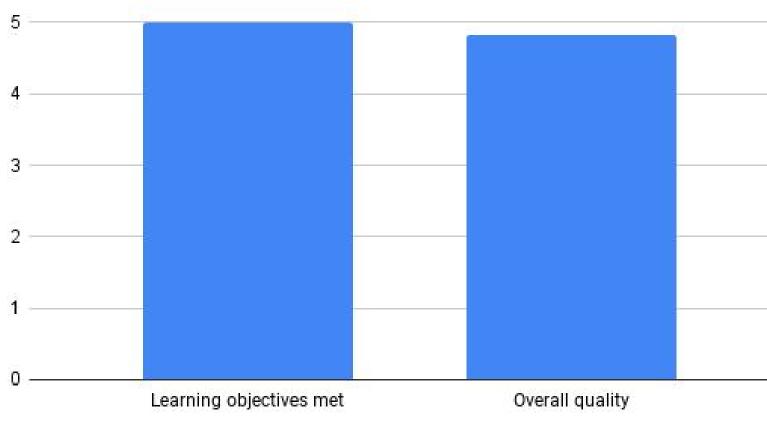
• 1 hour in length

• *n* = 6 post-course survey participants

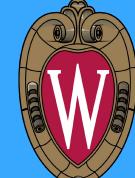
Towards Physical Exam Among Psychiatry-Bound M4s

Assessment of Course





Question





RESULTS CON'T...

Q: What physical exam maneuver do you want to perform next? (e.g. A: muscle tone; B: cranial nerves; C: finger-to-nose; D: motor strength)

Areas of strength

"Great examples of catatonia"

"Loved the interactive cases!"

"Interactive"

"Acting out of physical exam was exceptional"

"Great clinical examples"

"Engaging"

"Demonstrations of the physical exam were great!"

"Morning report style case

Areas of improvement

"Whiteboard would have been helpful"

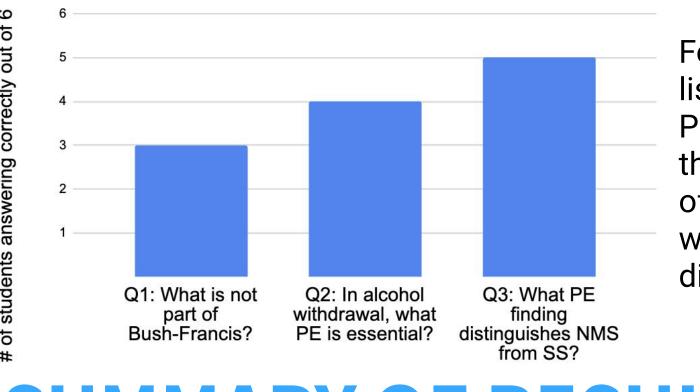
"Shorten the details in the cases" to get through more content

"Refining the slides"

"More organized" Bush-Francis exam/scale review

"More complete demonstration" of Bush-Francis exam"

presentations were great Number of students with correct knowledge check questions (n=6)



SUMMARY OF RESULTS

- The psychiatric PE is viewed as highly important content
- Students largely rated the session highly, and the format was seen as a strength
- Bush-Francis exam / catatonia content was viewed as most high-yield
- Not all students were able to correctly answer the knowledge checks, suggesting room for improvement in meeting learning objectives
- Areas of improvement include refinement of slides/organization of content
- Limitation: low n

DISCUSSION

An interactive course using a case-based, CYOA format is a feasible, enjoyable model to teach targeted PE skills to 4th-year medical students matched to psychiatry. This exposure may instill the importance of the PE and confidence in the skills early in their careers. Optimization of this course would involve refinement of slides, and future direction could involve use of simulation. Future studies on effective educational interventions to address this gap are needed.

REFERENCES

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