

RATIONALE/NEED

- USMLE Step 1 scores are one of the most important factors considered by residency programs.
- Currently, the Brody School of Medicine (BSOM) only has one Step 1 preparatory program, Aim Higher, which is a peer-led program that focuses on answering board-style practice questions.
- While BSOM students have historically scored at or above the national Step 1 average, disciplinespecific data revealed that the same students consistently performed below the national average in the area of Gross Anatomy and Embryology (GAE).
- This below-average performance may be attributed to the time lapse between when medical students complete GAE in the fall of their first year and when they take the USMLE Step 1 examination in the spring of their second year.

METHODS

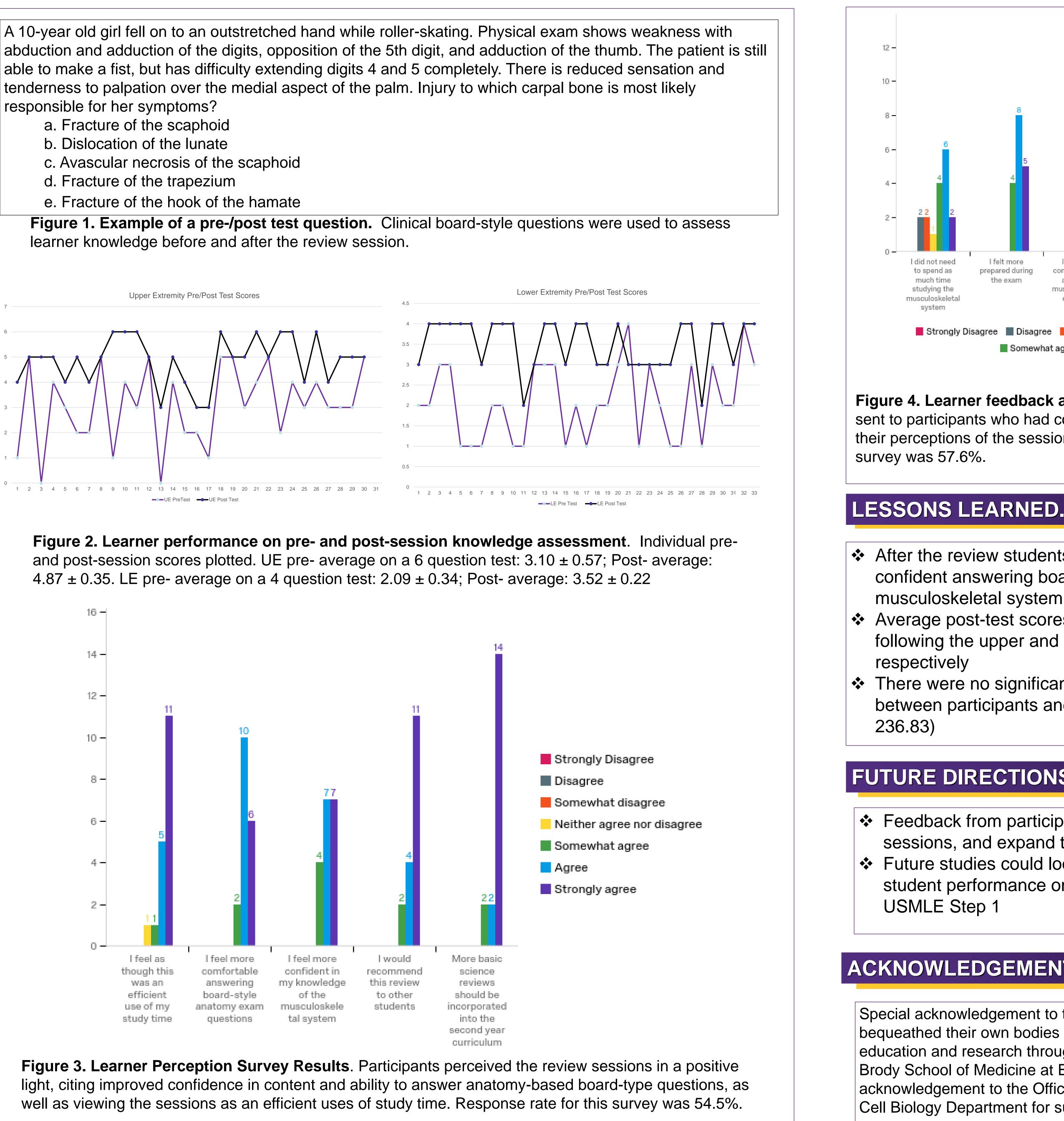
Two one-hour peer-led gross anatomy laboratory review sessions were offered to all second-year medical students. One session reviewed upper extremity anatomy, while the other covered lower extremity topics. Both sessions were offered on six occasions and limited to 8 students (n=33). The sessions were structured as follows:

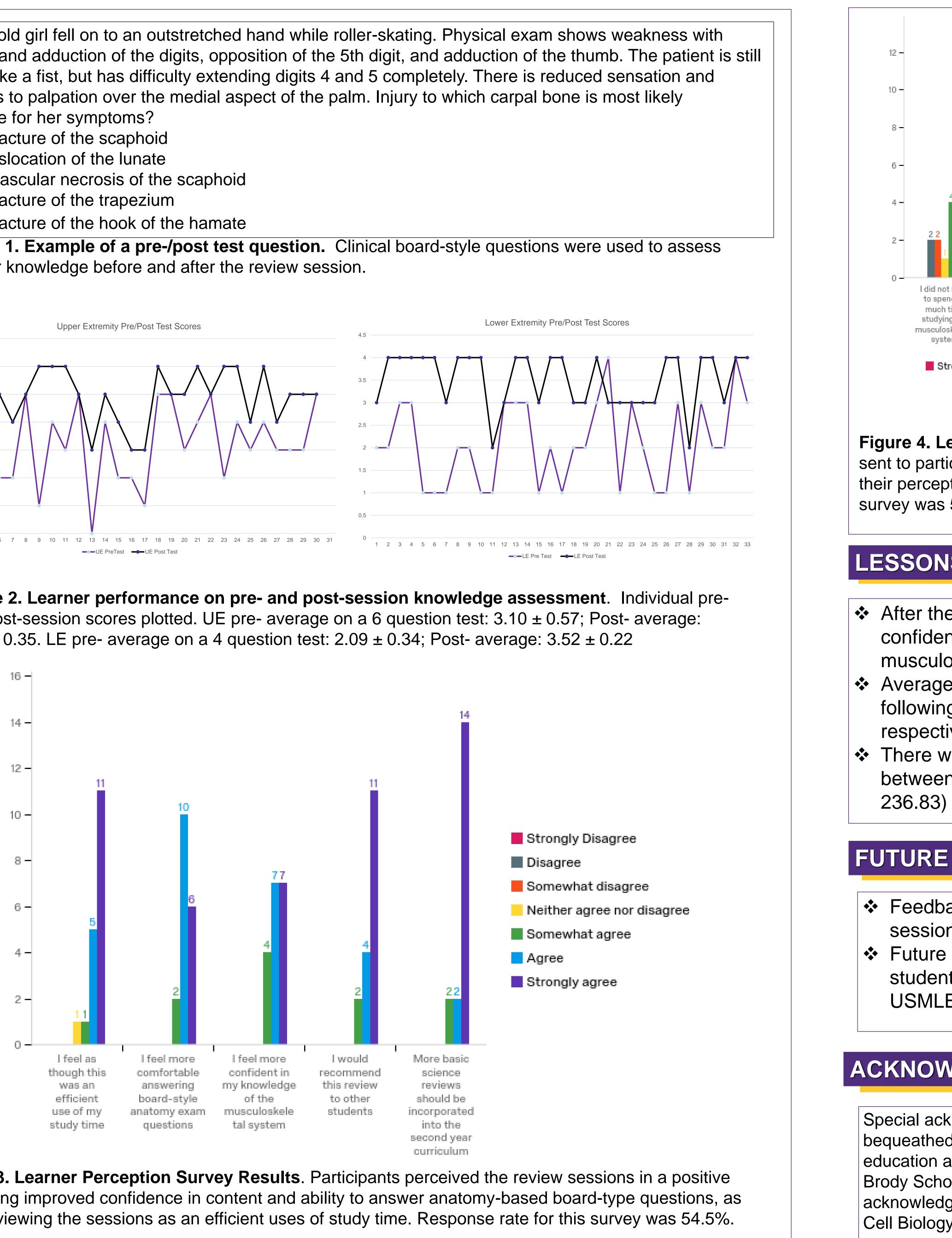
- Pre-session assessment (8 minutes)
- Interactive chalk-talk on the brachial plexus and/or nerve lesions (15 minutes)
- Laboratory Stations (30 minutes)
- Identifying nerve lesions and their clinical presentations using a prosected specimen
- Reviewing osteology, high-yield fractures, and their associated nerve lesions
- Comparing normal radiologic images (Plain film) and CT images) to images of common abnormal pathologies
- Using prosected joints to review ligaments, and special diagnostic tests

Post-session assessment (8 minutes) Pre- and post-session assessments consisted of 4-6 multiple-choice, board-style exam questions. Participants were asked to complete a qualitative survey to assess learner perceptions immediately after the review session. After completing Step 1, all students were asked to complete an additional survey of score performance and perceptions.

The Implementation of Peer-led Anatomy Review **Sessions for USMLE Step 1 Examination Preparation** Kaitlyn O'Connor MS4, Kelly Harrell PhD, MPT

RESULTS







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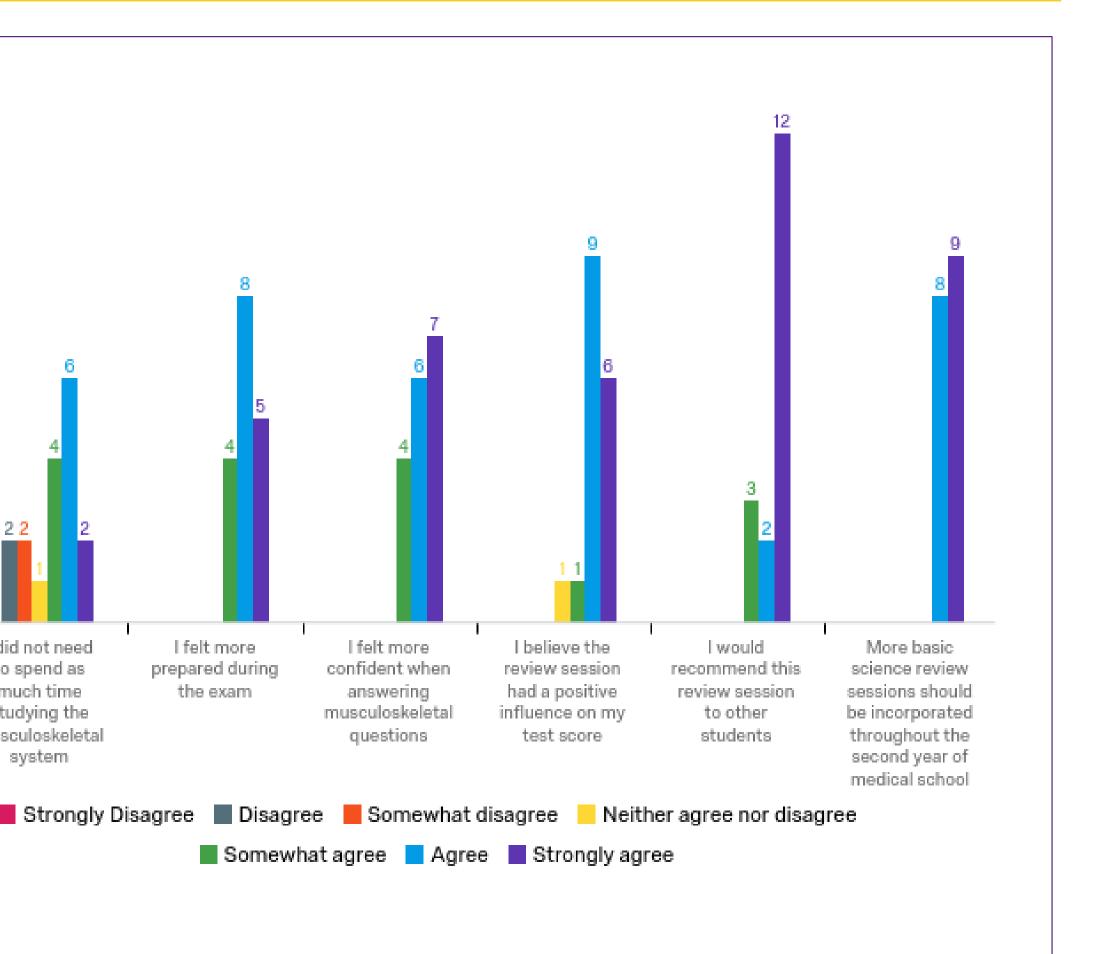


Figure 4. Learner feedback after taking USMLE Step 1. A survey was sent to participants who had completed Step 1 to assess changes in their perceptions of the session after the exam. Response rate for this

- After the review students felt more comfortable and confident answering board-style exam questions on the musculoskeletal system.
- Average post-test scores improved by 57.1% and 68.4% following the upper and lower extremity review sessions
- There were no significant changes in average Step 1 scores between participants and non-participants (235.86 vs

FUTURE DIRECTIONS

Feedback from participants can be used to improve sessions, and expand their content coverage Future studies could look at the impact of these reviews on student performance on musculoskeletal portions of the

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