

BACKGROUND

- Simulation-based assessments are a tool utilized in many pharmacy school curriculums
- The use of these assessments allows students to develop clinical skills necessary to excel in the profession of pharmacy in a realistic and constructive setting
- The use of video recording during OSCE assessments and the impact it has on student grades has not been established

OBJECTIVE

- To investigate if there is a significant difference in student grades when the OSCE public health assessment was graded live versus graded from a video

METHODS

- Approved by the Investigational Review Board
- Six pharmacy practice faculty members volunteered to re-grade the 2018 public health assessment portion of the OSCE from videos originally recorded using SimulationIQ
- Students were assessed on global communication skills and ability to answer all parts of the proposed questions
- The skills checklist consists of seventeen items, each worth one point. The global communication rubric consists of five sections— each worth a maximum of three points
- The total number of points on each rubric were calculated and validated to determine a final weighted score
- The weighted score was calculated by averaging the total skills checklist and total global communication rubric scores
- Students were then assigned a final grade of pass (greater than 69%), 1 standard deviation of no pass (58-69%), or no pass (less than 58%)
- A final grade of NO PASS required remediation
- Original and regrade scores were compared, and a two-tailed student t-test was performed for total skill checklist score, total global communication rubric, and total weighted score

METHODS

OSCE Skills Checklist

Getting Started

- Ability to introduce themselves and explain the purpose of the encounter

Gathering Information

- Students assessed on patient/health care provider education
- Education must be accurate and patient-specific
- All parts of question must be answered

Monitoring/Follow-up

- Students assessed on ability to provide appropriate closure statement to end encounter

Global Communication Rubric

Verbal expression (content and mechanics)

- Speaks with proper fluency and grammar at appropriate rate and volume
- Use of open-ended questions and ability to communicate effectively

Non-verbal Expression

- Maintains appropriate eye contact and professionalism
- Does not engage in distracting behavior

Interaction with healthcare professional

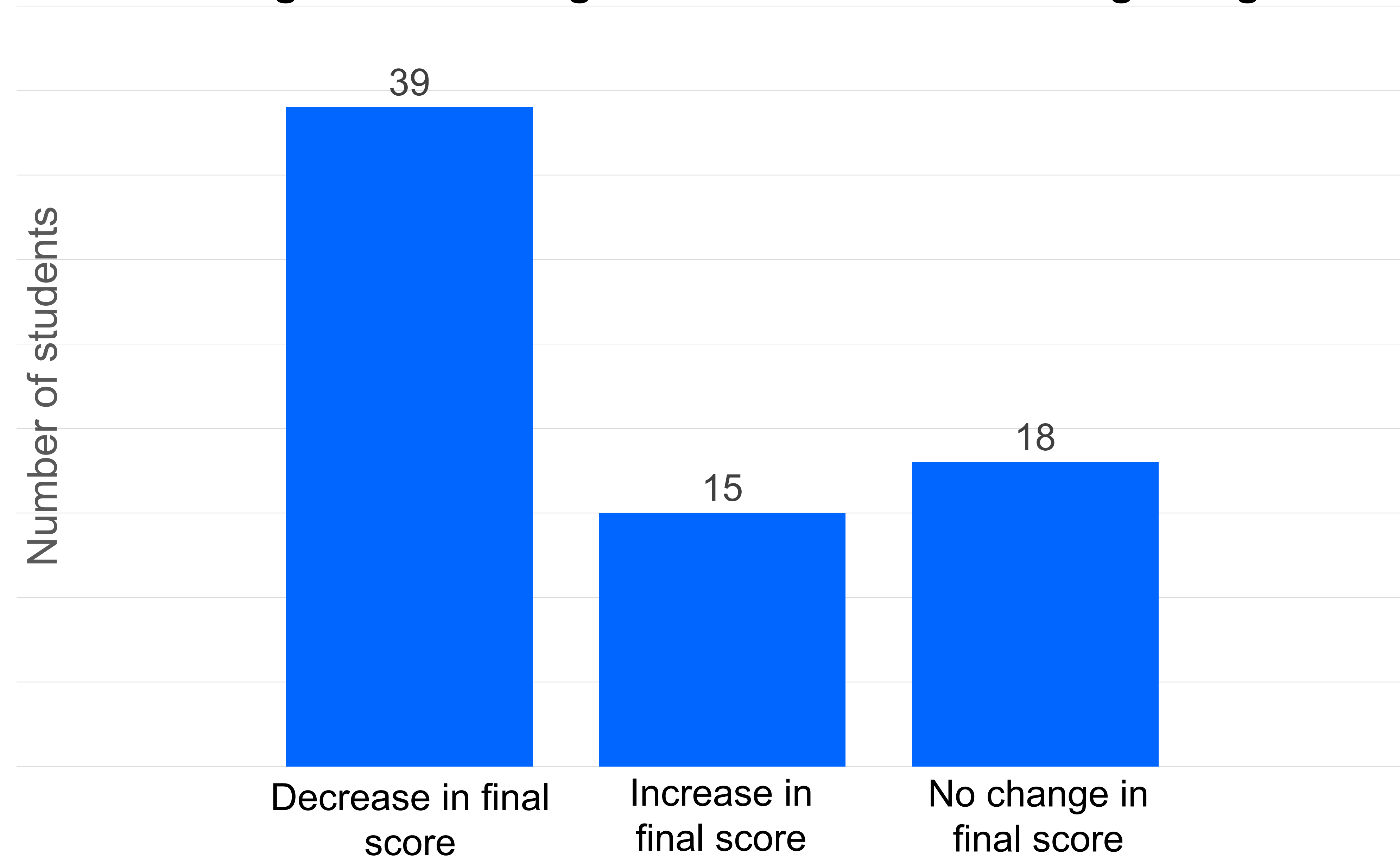
- Displays active listening, empathy, and responsive to uncovering new information

Organization and logic

- Information presented in logical order
- Maintains control of the encounter

RESULTS

Changes in final weighted scores after video re-grading



RESULTS

Average original total checklist score	Average re-grade total checklist score	Student t-test
14.375	14.236	0.667

Average original total global score	Average re-grade total global score	Student t-test
11.208	10.347	0.002

Average original overall score	Average re-grade overall score	Student t-test
25.58	24.58	0.049

Average original total weighted score	Average re-grade total weighted score
79.64% (PASS)	76.82% (PASS)

DISCUSSION

- Results greatly limited by small sample size (72)
- Re-grading was not preformed by the original grading faculty member for all videos, leading to possible inconsistencies in scoring
- Fifteen students had a significant enough change in score that their final score categorization also changed

CONCLUSION

- Video grading rather than live grading only made a significant difference in score for global communication
- The use of technology and video grading has potential benefits, but studies with a larger sample size are necessary to determine if there is any negative impact on student grades

DISCLOSURES

The authors have nothing to disclose