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## Impact of Lecture Videos on Academic Performance

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# Impact of Lecture Videos on Academic Performance

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## Outstanding Presentation Honorable Mention

### Abstract

This study evaluated if watching pre-recorded lecture videos impacted exam scores and overall course grade in an online clinical immunology course. The majority of the literature focuses on how peer-to-peer interaction and student-to-faculty interaction influences a class grade in online classes. There is minimal literature that assesses the impact of lecture videos on academic outcomes. This study included thirty-nine medical laboratory science students in the Fall 2021 semester. Students were assigned 126 videos spread throughout five units. The statistics showed each lecture video was watched by 46% to 83% of the students. Data demonstrated individual student video views ranged from 0 to 7 times per video. Of the students that accessed a video, the percent of the video viewed ranged from 1% to 100%. The Pearson Correlation showed a positive correlation between the percent of video views and exam grades in three of five unit exams (p-value ranged from 0.021 to 0.64). A Spearman Correlation showed a positive correlation between course grade and percent of all video views (p=0.007). Overall these results demonstrated the students who watched the videos performed better on exams and in the course. Study findings suggest that instructors need to evaluate the use and type of videos in their course that students indicate are the most valuable to their learning.

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