

**Purpose Statement and Research** Questions

The purpose of this quantitative study will be to retrospectively analyze how the timing of when students watch asynchronous lectures impacts exam grades of first- and secondyear medical students at the Brody School of Medicine

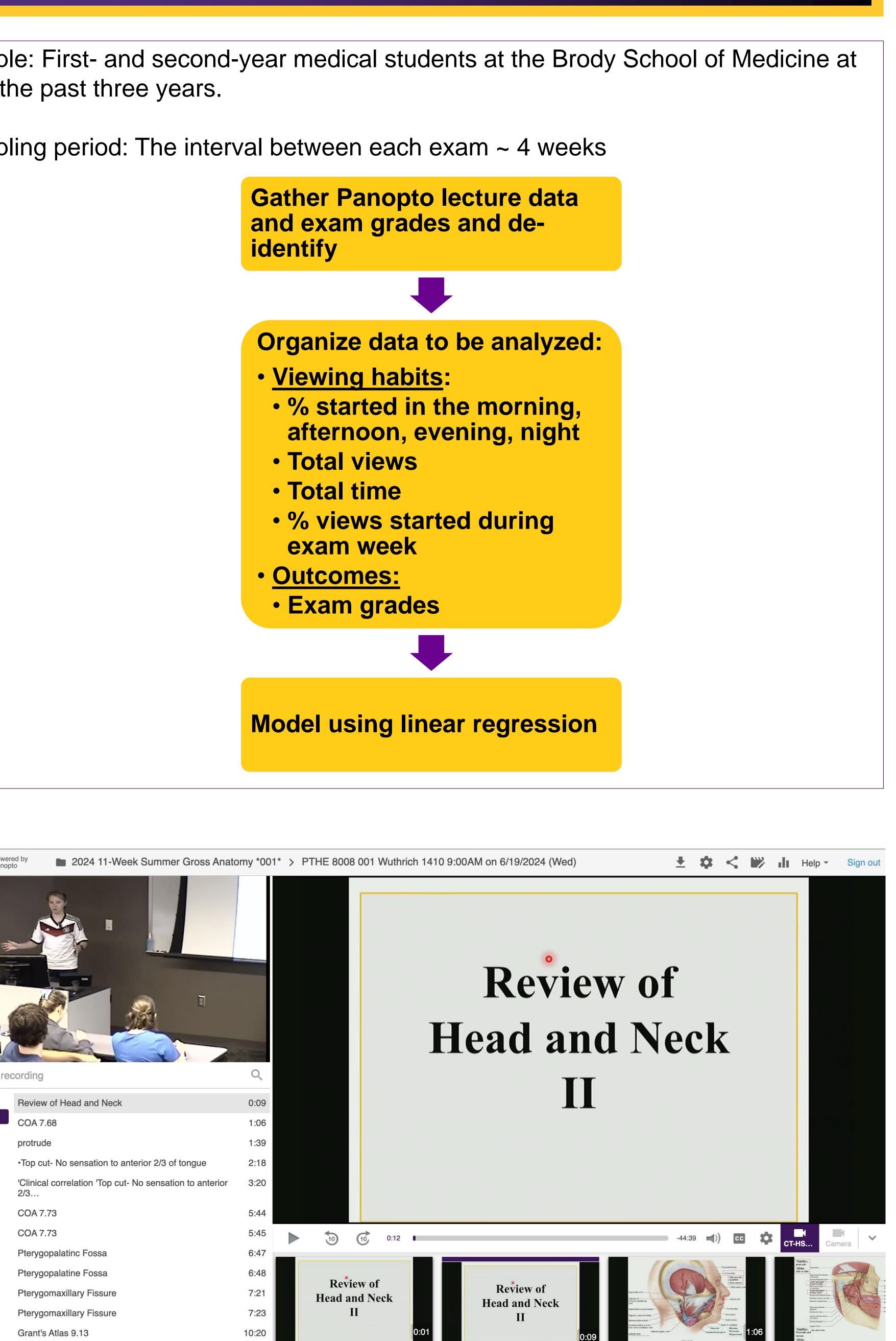
- 1. Is there a significant relationship between student pattern of engagement with asynchronous lectures and their exam grades?
- Do the factors of student viewing time, prolonged student viewing time (bingewatching or cramming), and repetition of viewing significantly predict exam grades?

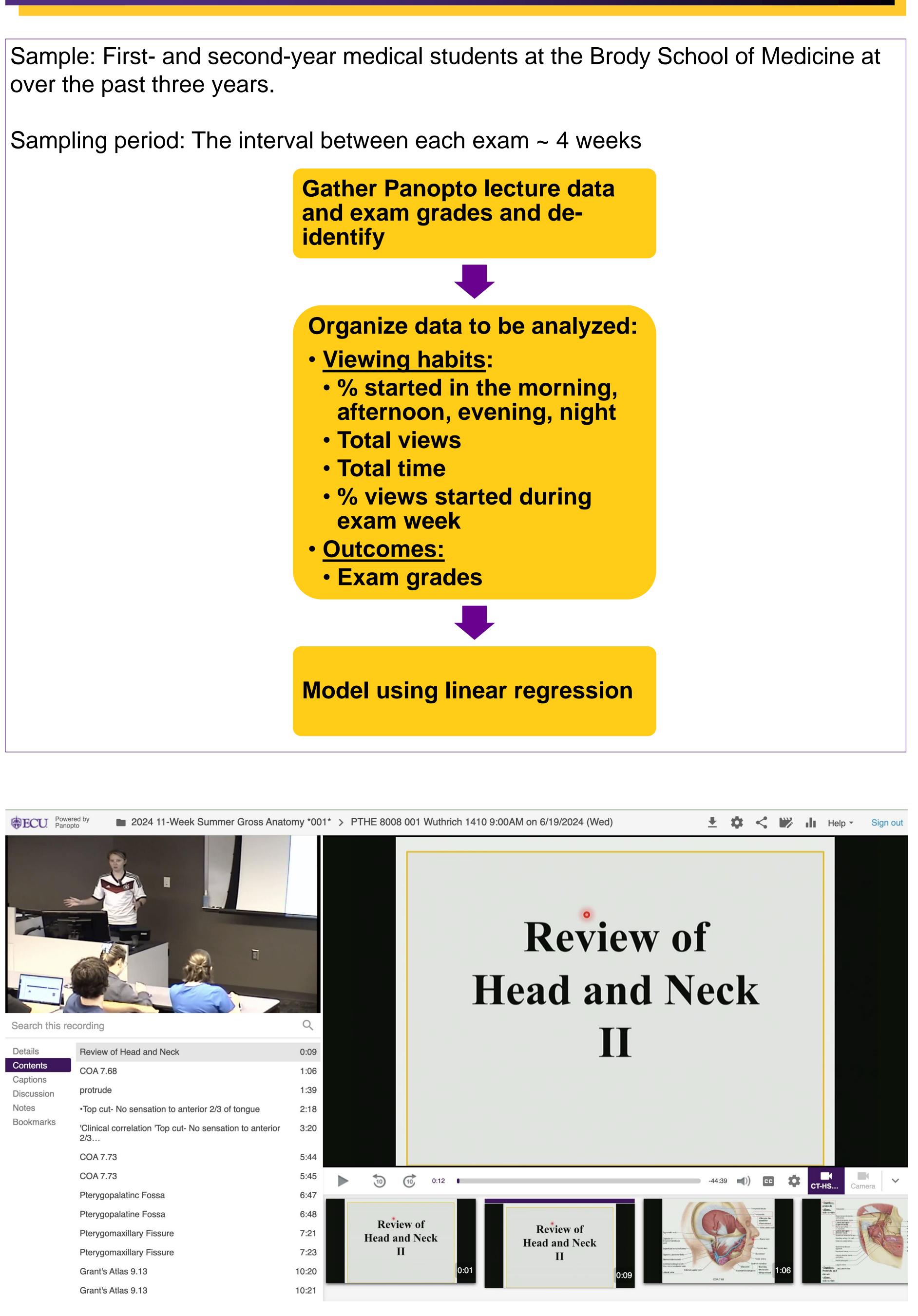
#### Background

- At the Brody School of Medicine, lectures are available to be viewed in-person or asynchronously via recordings
- 37.0% of medical students "almost never" attend lecture nationwide
- Trend increased due to COVID (Huerta et al., 2023; Wu et al., 2021)
- Pros:
- Allows for student autonomy
- Cons:
  - Decreases attendance and socialization among medical students (Bridge et al., 2009; Franklin et al., 2011)
- Many studies on which methods students use to study, but few on the timing of when medical students use these resources and how they perform

# Students' Asynchronous Lecture Viewing Habits and **Their Relationship to Student Performance** Isabel Elssner, David Gilbert, MD, Dr. Dmitry Tumin, PhD

### METHODS





# **POTENTIAL IMPACT**

Measure the effects of student asynchronous lecture viewing habits on their exam grades.

If there is a statistically significant relationship:

- beneficial.

## REFERENCES

Bridge, P. D., Jackson, M., & Robinson, L. (2009). The effectiveness of streaming video on medical student learning: A case study. *Medical Education Online*, 14, 11. Scopus. https://doi.org/10.3402/meo.v14i.4506

Franklin, D. S., Gibson, J. W., Samuel, J. C., Teeter, W. A., & Clarkson, C. W. (2011). Use of Lecture Recordings in Medical Education. Medical Science *Educator*, *21*(1), 21–28. https://doi.org/10.1007/BF03341590

Huerta, C. T., Saberi, R. A., Thorson, C. M., Hui, V. W., Rodgers, S. E., & Sands, L. R. (2023). Effects of Recorded versus Live Teleconference Didactic Lectures on Medical Student Performance in the Surgery Clerkship. Journal of Surgical Education, *80*(2), 228–234. https://doi.org/10.1016/j.jsurg.2022.09.017

Wu, J. H., Gruppuso, P. A., & Adashi, E. Y. (2021). The Self-directed Medical Student Curriculum. JAMA, 326(20), 2005–2006. https://doi.org/10.1001/jama.2021.16312



Can advise future medical students on how to best utilize the asynchronous lectures as a resource.

2. Create another metric to check-in on struggling students and intervene if their viewing habits are not