RESULTS

Figure 1. Macroscopic and microscopic lecture material included during pulmonary lecture.

Figure 2. Did students notice the integration?

Figure 3. Was the addition of topics helpful to student learning?

Figure 4. Perspectives about quantity of pathology material

Figure 5. Recommendations for future pathology integration

Figure 6. Suggestions for Future Addition of Topics?

LITERATURE REVIEW

Pathology comprises 44-52% of Step 1 tested content (USMLE.org). Spaced repetition is key to successful learning.

Integrated curriculum shown to be helpful

- Some medical schools have incorporated pathology within their primary medical education.
- "More and more are starting to see pathology as just another subject, not a separate one." (Survey of students)

DISCUSSION

- A majority of students found incorporation of pathology topics along with histology content useful in that (1) highlighted particular aspects of histologic structures, (2) provided clinical context and relevance to histology concepts, (3) broke the monotony of looking at normal histologic slides, and (4) provided a preview of pathology.

- An overwhelming majority of students surveyed thought that the amount of pathology incorporated was appropriate or that more pathology should be incorporated.

- The incorporation of pathology topics related to neoplastic diseases were commonly supported by students who were surveyed.

- Medical education trends and our research findings both indicate that the amount of pathology incorporated was appropriate or that more pathology should be incorporated.

- Future research could study if the addition of integrated histology and pathology flipped classrooms would be beneficial to student learning.

MATERIALS & METHODS

- USMLE Content Outlines were used to determine high-yield pathology topics for integration into histology lectures.

- 2-4 pathology topics per each organ system were selected and PowerPoint slides were developed and incorporated into histology lectures.

- Students from the Class of 2023 and 2024 were surveyed regarding their perceptions about the utility and perceived enhancement of learning from this integration.

REFERENCES


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