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Background

- Medical education is an integral component of academic medicine.
- Many Infectious Diseases (ID) fellows express interest in contributing to the education of future learners, yet there is often little guidance on how to develop these skills during training.

Objectives

- Provide a dedicated forum for ID fellows to learn and practice teaching techniques.
- Design a curriculum of core teaching topics for medical students during their ID elective clinical rotation, in a separate environment from student grading.
- Provide substantive real-time feedback on fellows' teaching abilities from both faculty and students.
- Continuously evolve the teaching program based on fellows' needs and feedback.

Methods

- Fellows were recruited after their first year. Faculty provided initial guidance on teaching techniques and how to create a curriculum for medical students.
- Fellow-Designed Curriculum:
 - Weekly hour-long teaching sessions, all led by senior ID fellows
 - Teaching session goals: provide education on high-yield ID topics at an appropriate level for medical students
 - All sessions were formatted to each fellow's discretion, including formal lecture, PowerPoint, roundtable discussion, 'chalk talks,' case-based, and remote virtual conferences.
 - Faculty feedback: real-time direct observation of teaching sessions
 - Learner feedback: anonymous student survey at the end of the clinical rotation, including Likert scale and free-text questions
- An anonymous survey was administered annually to involved fellows to obtain participant feedback, including Likert scale and free-text questions. Outcomes of interest included an evaluation of baseline teaching skills, experience designing a curriculum, quality of student/faculty feedback, and confidence teaching over time.

A Longitudinal Medical Education Program for Infectious Diseases Fellows

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Figure 1. Medical Student Feedback

- "Really enjoyed. I appreciate that they [the lectures] are freeform and tailored to what you are interested in and/or curious about."
- "All [lectures] were relevant and very helpful covered an array of relevant bacterial, viral, and fungal infections."
- "These [lectures] were great, I just wish there were more of them."
- "I loved the case presentations and practical advice, such as what tests are helpful and unhelpful and why."
- "I was really happy with the topics discussed and teaching methodology."

Figure 2. Medical Student Survey Results





* Responders could select more than one choice

Results

- Since its inception in 2017, 7 fellows have participated in the program.
- Teaching sessions were well-received by students (Figures 1 & 2).
- design of an educational course (Figure 3).
- After participation in the program, 57% of fellows rated their experience as better than expected, and 57% also additional training programs in medical education and requested additional teaching opportunities.
- 71% of fellows reported that the amount of faculty feedback was less than expected.
- 100% of fellows and 95% of medical students agreed that fellow-led sessions should remain part of the rotation.

Conclusions

- teaching physicians.
- It has been well received by ID fellows and students and has incited more career interest in medical education.
- The program is ongoing and continues to adapt to the fellows' and learners' needs as determined by routine

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86% of enrollees reported only occasional lecturing experience prior to fellowship and requested additional training in

reported a strong interest in a career involving medical education. Multiple enrolled fellows have gone on to pursue

We developed a structured, longitudinal medical education program dedicated to improving fellows' skills as academic

quantitative and qualitative assessments. Future goals include increasing faculty feedback of teaching sessions.