

APP-BASED LONGITUDINAL INFECTIOUS DISEASE CURRICULUM FOR PEDIATRICS RESIDENCY

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BACKGROUND

Infectious Diseases comprise 7% of the American Board of Pediatrics (ABP) board exam and cover hundreds of organisms. Multiple challenges in covering this broad material exist, including accommodation of different adult learning types, and maintaining focus through block lectures during didactic sessions.

AIM

The aim of this Quality Improvement (QI) was to have 75% participation each week in the supplemental and voluntary curriculum and improve infectious disease sub-scores on the ITE.

METHODS

Longitudinal, supplemental infectious disease curriculum developed and maintained by chief residents in the Pediatrics and Medicine-Pediatrics Residency Programs.

Google Classroom App

- Delivered directly to resident mobile devices.
- Relevant audiovisual media, study guides, and Red Book chapters are provided.
- Quizzes focusing on specific organisms released weekly.
- Allows residents to review topics at their own pace.

INFECTIOUS DISEASE TOPIC

Due Aug 6, 2019
Strep Pharyngitis
 10 points

We're starting ID Thursdays this year with one of the most common pediatric infections. Please complete the quiz, you may use the attached Red Book chapter as reference.

Attachments

- ID Thursday: Strep Pharyngitis
- HORRIBLE STREP THROAT | Dr. Paul 4m 40s
- Red Book GAS.pdf
Students can view file

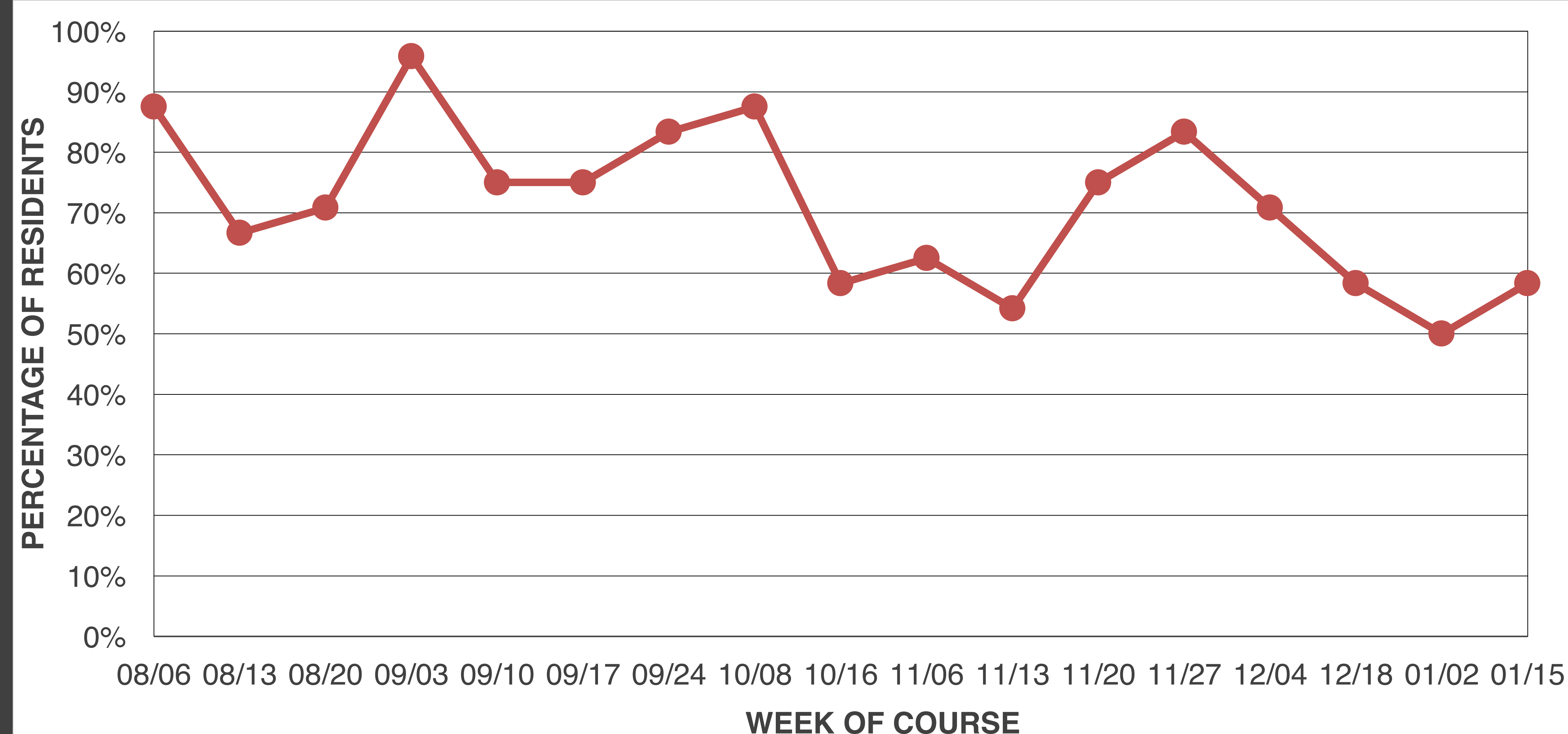
Topic included the weekly quiz, relevant YouTube video, and a chapter from Red Book

BOARD-STYLE QUIZ

Which of the following is the most appropriate treatment of streptococcal pharyngitis in most children? 10 points

- Amoxicillin 25 mg/kg twice daily for 10 days
- Amoxicillin 45 mg/kg twice daily for 10 days
- Azithromycin 10 mg/kg on day 1 followed by 5 mg/kg on days 2-5
- Ciprofloxacin 15 mg/kg once daily for 10 days
- Metronidazole 10-15 mg/kg once daily for 10 days
- Trimethoprim-Sulfamethoxazole 6-12 mg/kg once daily for 10 days

RESIDENT PARTICIPATION BY WEEK



RESULTS

- 58% of residents have completed 75% of the assignments with an average score of 70%.
- Participation goal of 75% was met during the first 2 months.
- By mid-October participation rates had decreased below

CHALLENGES

- Participation fell in October, as the busiest season in Pediatrics approached
- An incentive was announced in mid-November to encourage residents to continue participating, which temporarily improved participation rates.
- Participation again dropped in January during peak care season.
- Second incentive planned for March is currently delayed due to COVID-19.

CONCLUSION AND FUTURE STEPS

- Using the classroom mobile app has allowed self-pacing and interactive content to bolster resident education of infectious diseases.
- Participation data indicates that residents will voluntarily participate in such a program, but also showed the seasonal limitations of voluntary participation.
- Educational efficacy of curriculum will be assessed by comparing infectious disease ITE sub-scores at the June 2020 ITE.