



Pediatric EKG Training for Residents: Needs Assessment and Pilot Results



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Introduction

- EKG interpretation is primarily taught in medical school focusing on adult EKG's.
- Educational modules have been shown to be effective at teaching trainees.
- Khanna et al implemented a 1-hour educational module on pediatric EKG's to pediatricians and pediatric nurse practitioners and showed a 42% increased from pre- to post-test scores.

Methods

- 7-question survey sent to all pediatric residents to assess comfort level with pediatric EKG's and assess desired methods of learning.
- An educational module using Microsoft PowerPoint was made to teach how to read pediatric EKG's and review common abnormalities.
- The module was sent to residents on their pediatric Cardiology rotation with a pre- and post-test.
- Pilot results from 5/1/2020 – 8/30/2020.

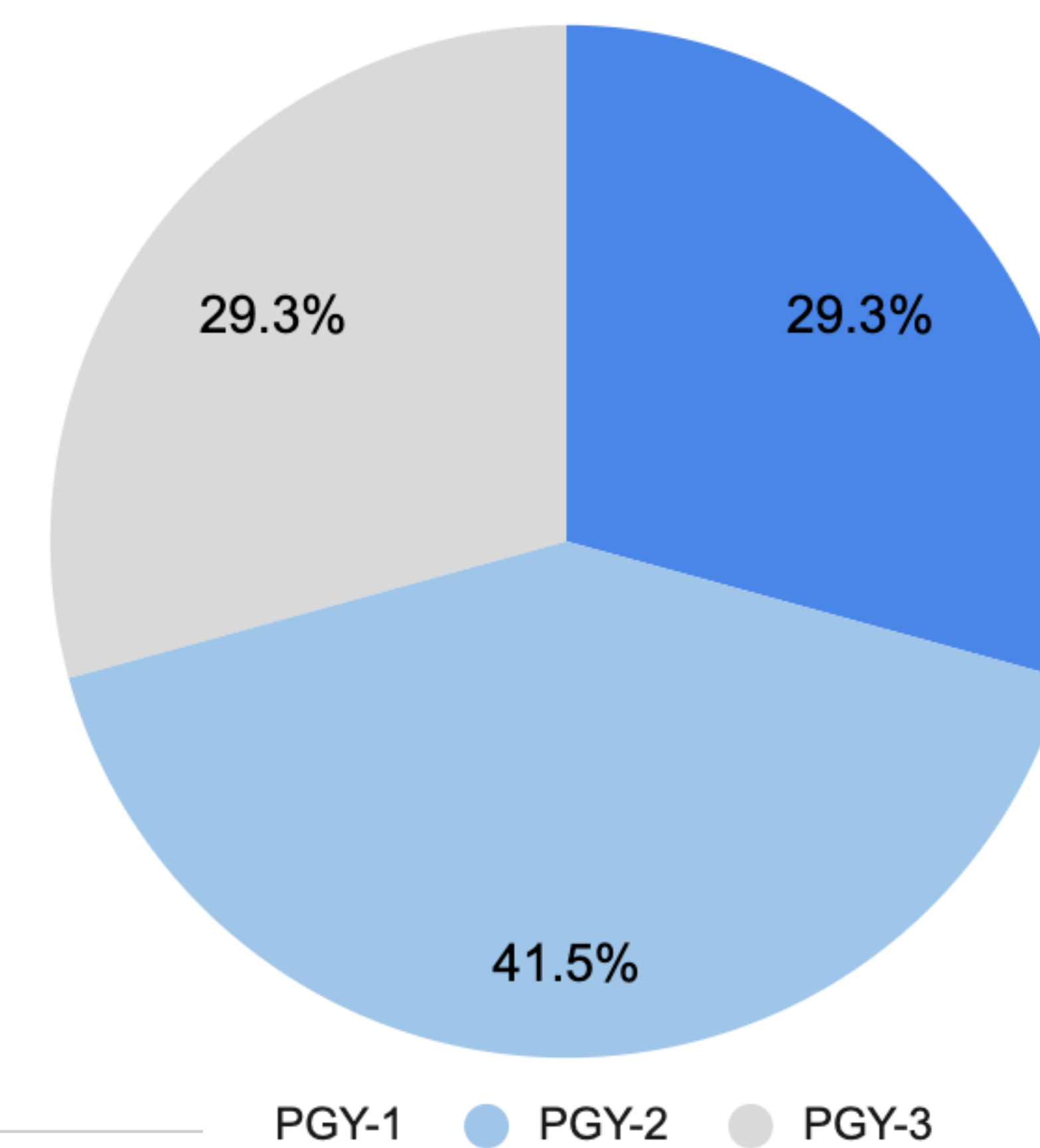
Pediatric residents are not confident in ECG interpretation but can improve with targeted teaching regarding this important skill

Results

Survey Results

- Median comfort level on a scale of 0 (uncomfortable) to 10 (fully comfortable) of all respondents was 4.
- Comfort level did not vary significantly based on training year.

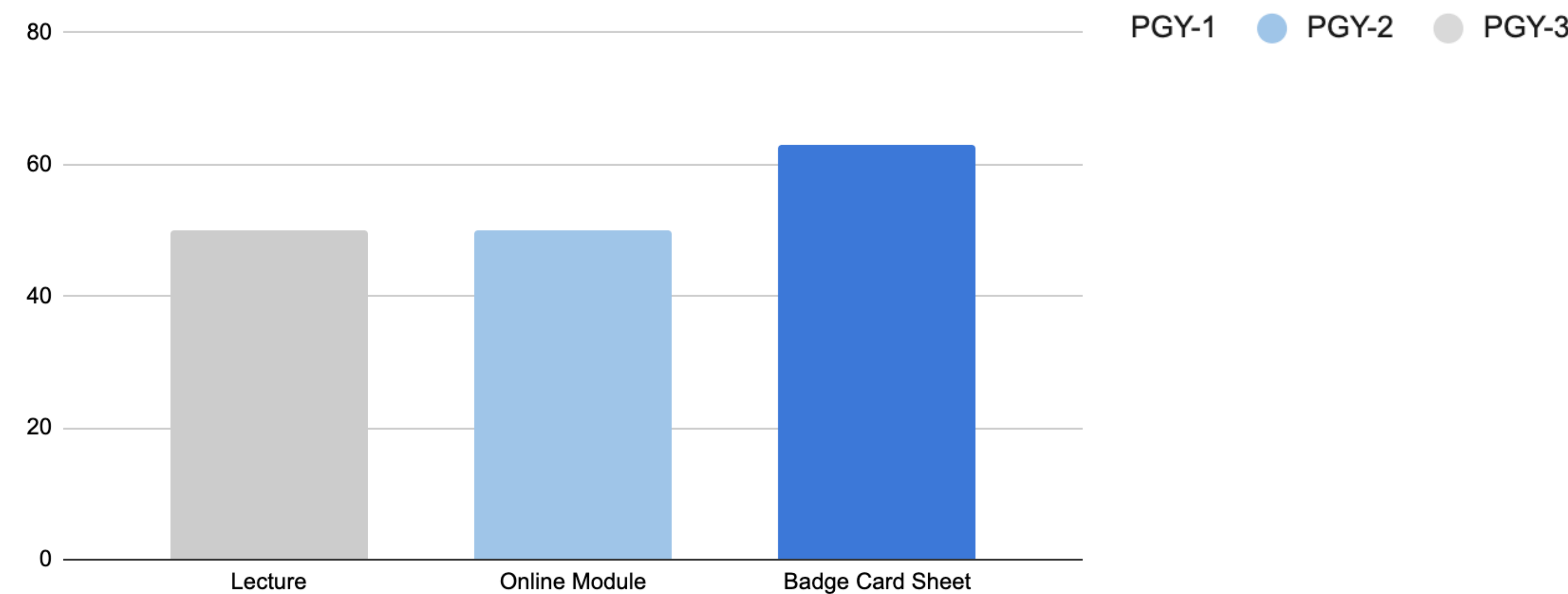
Training Year of Respondents



Pilot Results

- On pre-test, average score was 57% correct.
- On post-test, average score was 83% correct.
- There was a significant difference between the pre- and post-test, with a p value of 0.029.

Desired Teaching Modalities



82 Total Pediatric Residents

41 Residents Responded to Pre-Survey

13 Residents Started the Module

6 Residents Completed the Module

Conclusions

- Pediatric residents do not feel confident in their ability to read pediatric EKG's.
- A simple module designed to teach the basics of pediatric EKG's can improve testing results.