



Imaging Appropriateness Education

Quality Improvement Project

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Define

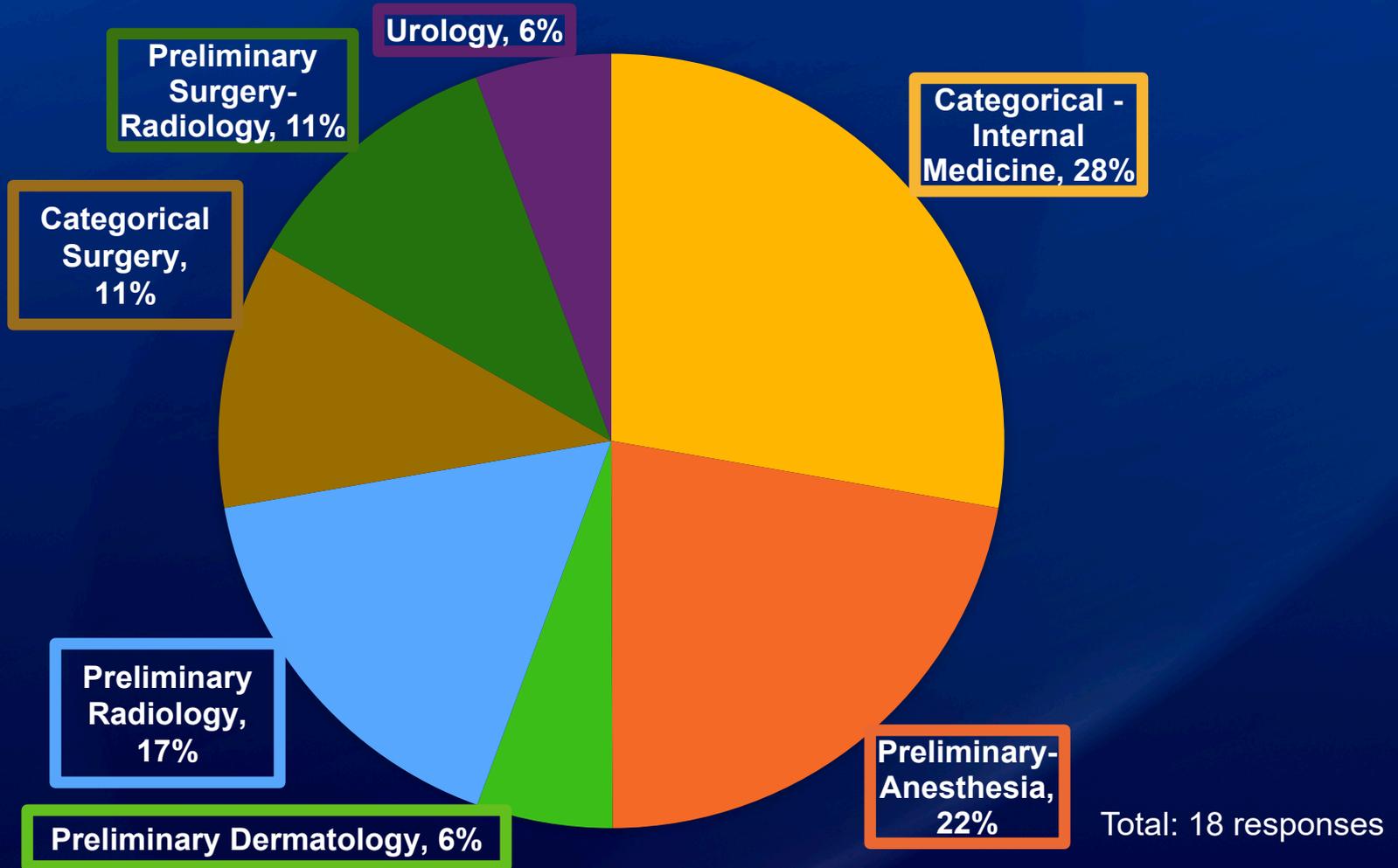
- Many orders placed on call are seemingly inappropriate
 - Leads to increased utilization of resources and time
 - Ultimately leads to radiologist frustration
- Question: Can we help improve the appropriateness of the ordered imaging study from the referring clinician?

Measure

- Questionnaire emailed to all PGY1 residents ($n=43$)
 - Responses from 18 residents (42%)
- 6 questions of various clinical scenarios
 - Multiple choice format to select the most appropriate imaging study
 - Avoided questions/scenarios that were “too easy”
 - “Open book”: Any resource could be used

Analyze

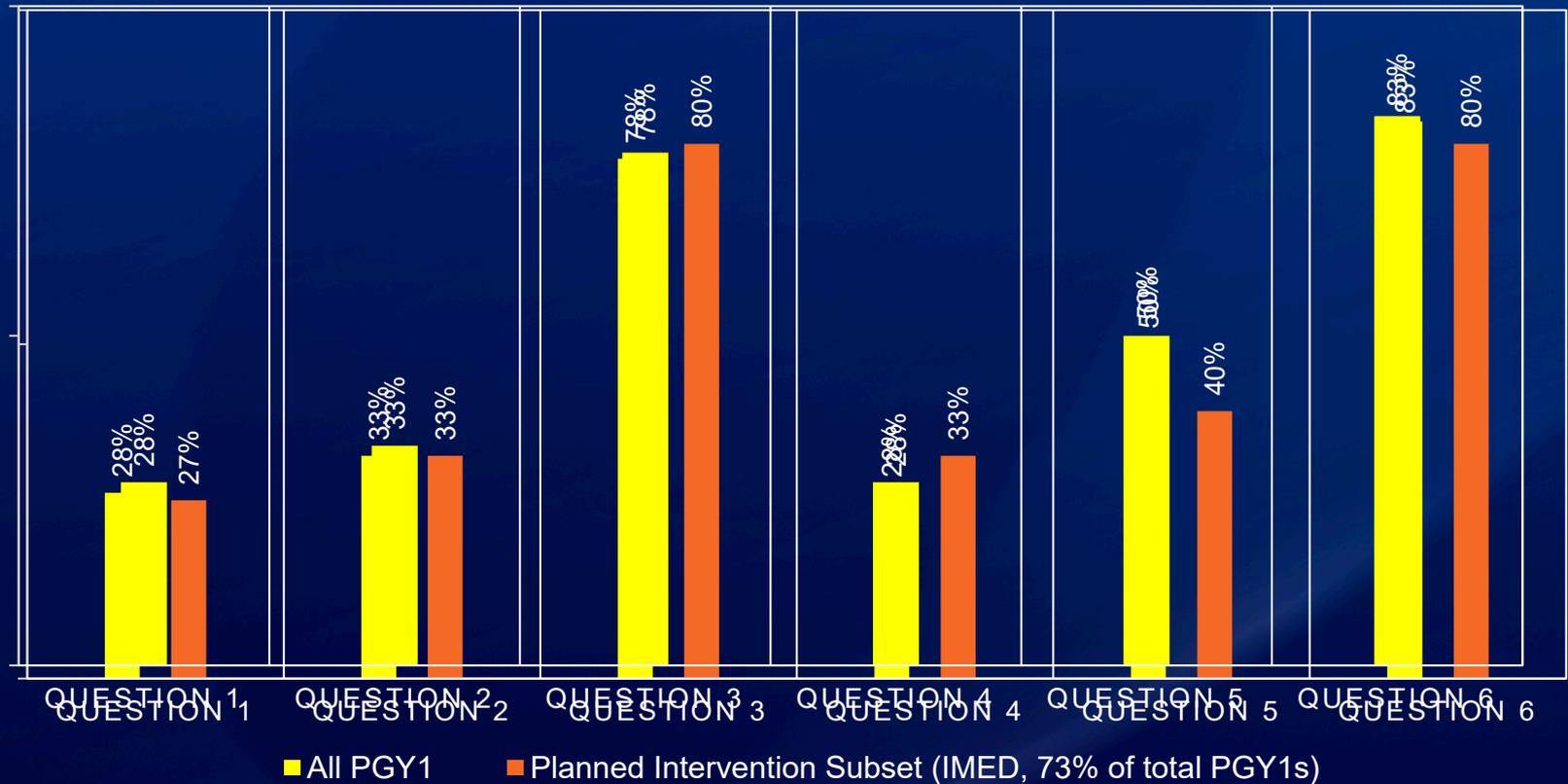
Total Respondents



No responses from: Family medicine, Preliminary-Radiation oncology, & Preliminary-Neurology

Analyze

PRE-INTERVENTION, CORRECT RESPONSES, INTERVENTION, INTERNAL MEDICINE CORRECT RESPONSES SUBSET



Improve

- Lectured all Internal Medicine residents on:
 - Radiology workflow logistics (day & call)
 - Imaging appropriateness using:
 - ACR[®] Appropriateness Criteria
 - “Distilled” Appropriateness Criteria
 - Personally developed online guide focusing on common inpatient indications
 - Epic EHR and CareSelect[™]

Improve

- “Distilled” Appropriateness Criteria

Neurologic: bit.ly/37rJFOP

Gastrointestinal: bit.ly/3jiaasz

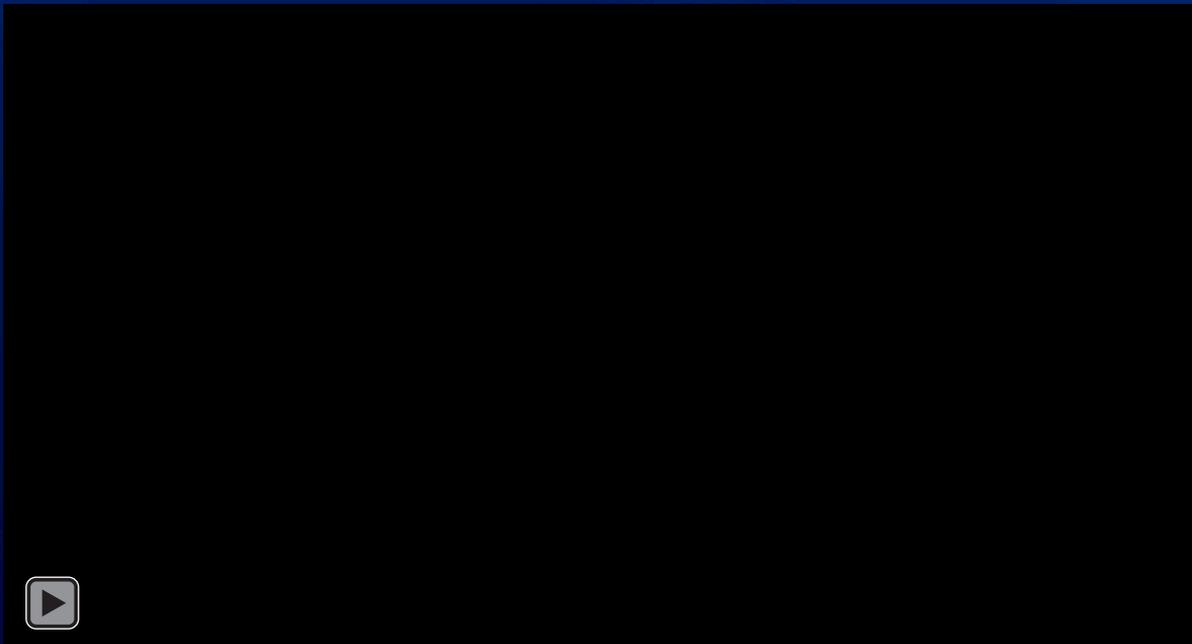
Urologic/Womens: bit.ly/34inSHH

Musculoskeletal: bit.ly/2HkFuth

Vascular: bit.ly/3kfFEko

Cardiac: bit.ly/2HicwdX

Thoracic: bit.ly/37pSJDT

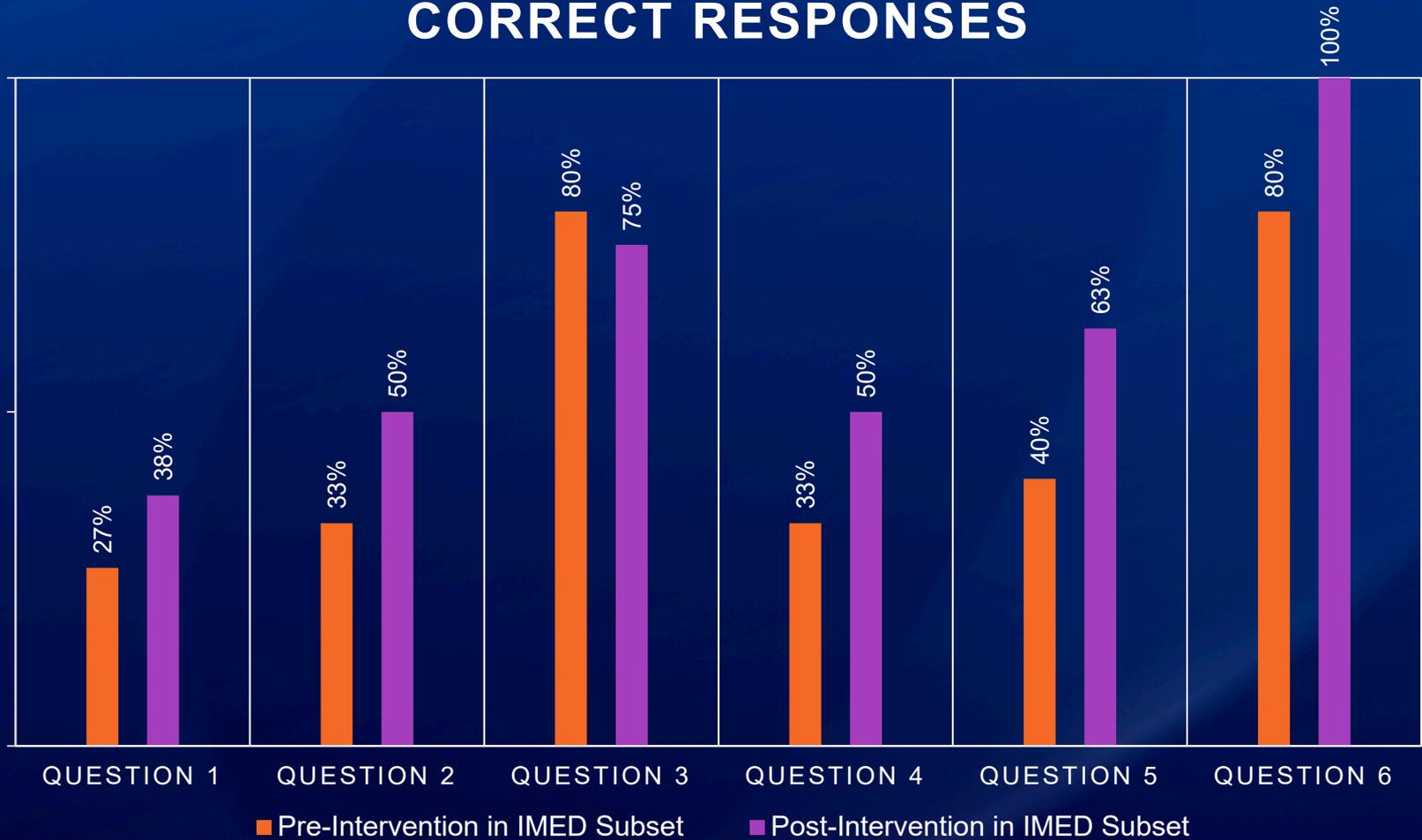


Improve

- Original 6 questions were emailed to the IMED PGY1 subset ($n=26$)
 - Responses from 8 residents (31%)

Improve

PRE- AND POST-INTERVENTION, CORRECT RESPONSES



Paired t-test: $p=0.019$

Control

- Knowledge of resources to guide imaging orders
 - Access to the “Distilled” Appropriateness Criteria

Limitations/Future Directions

- Small size for survey respondents
 - Increase sample size
- Intervention was performed with a single cohort (IMED residents)
 - Increase scale and assess responses of other specialties, levels of training, and with advanced practice providers
- Uncertain of what resources the respondents utilized
 - Track what was utilized

Continue to educate ordering clinicians!