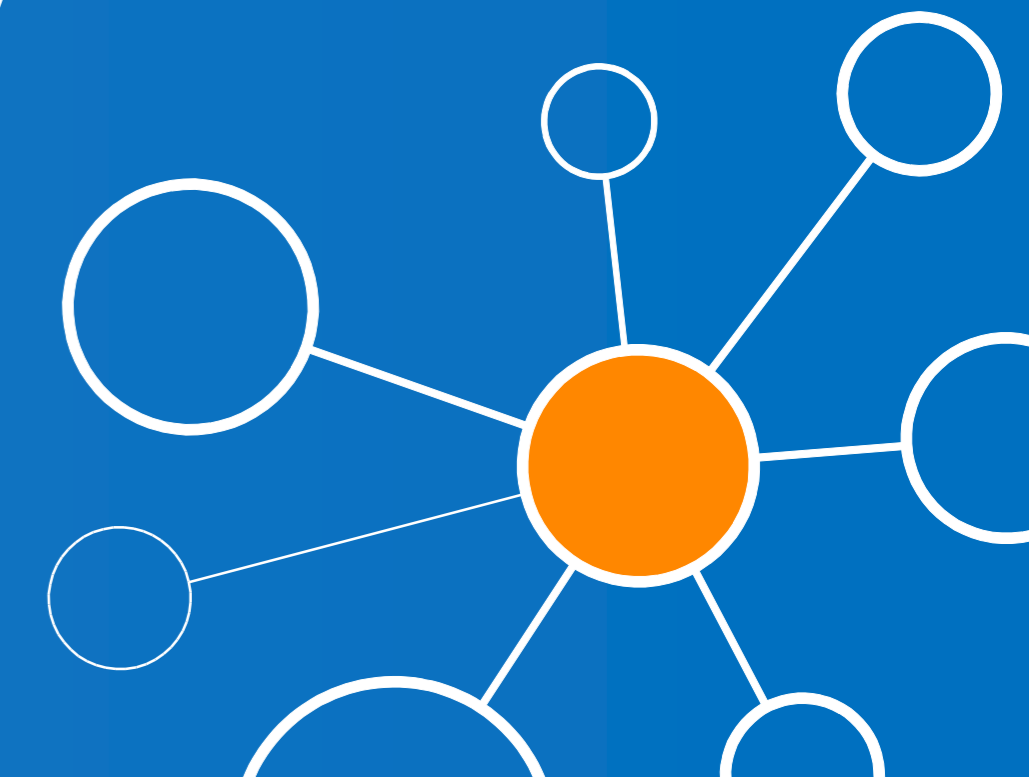


Impact of the JAG Basic Skills in Colonoscopy Course on Trainee Performance

Keith Siau^{1,2} James Hodson² John Anderson^{1,3} Roland Valori³ Paul Hagan^{1,4} Geoff Smith^{1,5} Paul Duncley^{1,3}

1. JAG, London 2. University of Birmingham 3. Gloucester Royal Hospitals NHSFT 4. Kings Mill Hospital, Mansfield 5. Imperial College NHSFT, London



INTRODUCTION

- The JAG Basic Skills in Colonoscopy Course is an intensive 3 day course covering theory and hands-on, patient-based training.
- Gloucestershire Endoscopy Training Centre delivers these courses.
- Attendance is mandated for certification (needed for independent practice in the UK).

AIM

- To evaluate the impact of course attendance on colonoscopy performance.

RESULTS

- 369 trainees included, who performed <70 (N=118), 70-140 (N=121) or >140 (N=130) pre-course procedures.
- Over the 50 pre-course procedures, linear increases in CIR were observed, with average increases of 4.2%, 3.6% and 1.7% for every 10 procedures in the <70, 70-140 and >140 groups, respectively (all P<0.001).
- The <70 procedures group was associated with a step-change improvement in CIR (from 46% in the last pre-course procedure to 51% in the first post-course procedure; P=0.005).

- No CIR improvement was seen in other groups.
- For PICI, step-change improvements were found in all groups, with average increases of 5.6% (P<0.001), 5.4% (P=0.003) and 3.9% (P=0.014) in the <70, 70-140 and >140 groups.
- The immediate improvement in PICI following course attendance was equivalent to that stemming from performing an additional 17-30 procedures without attending the course.

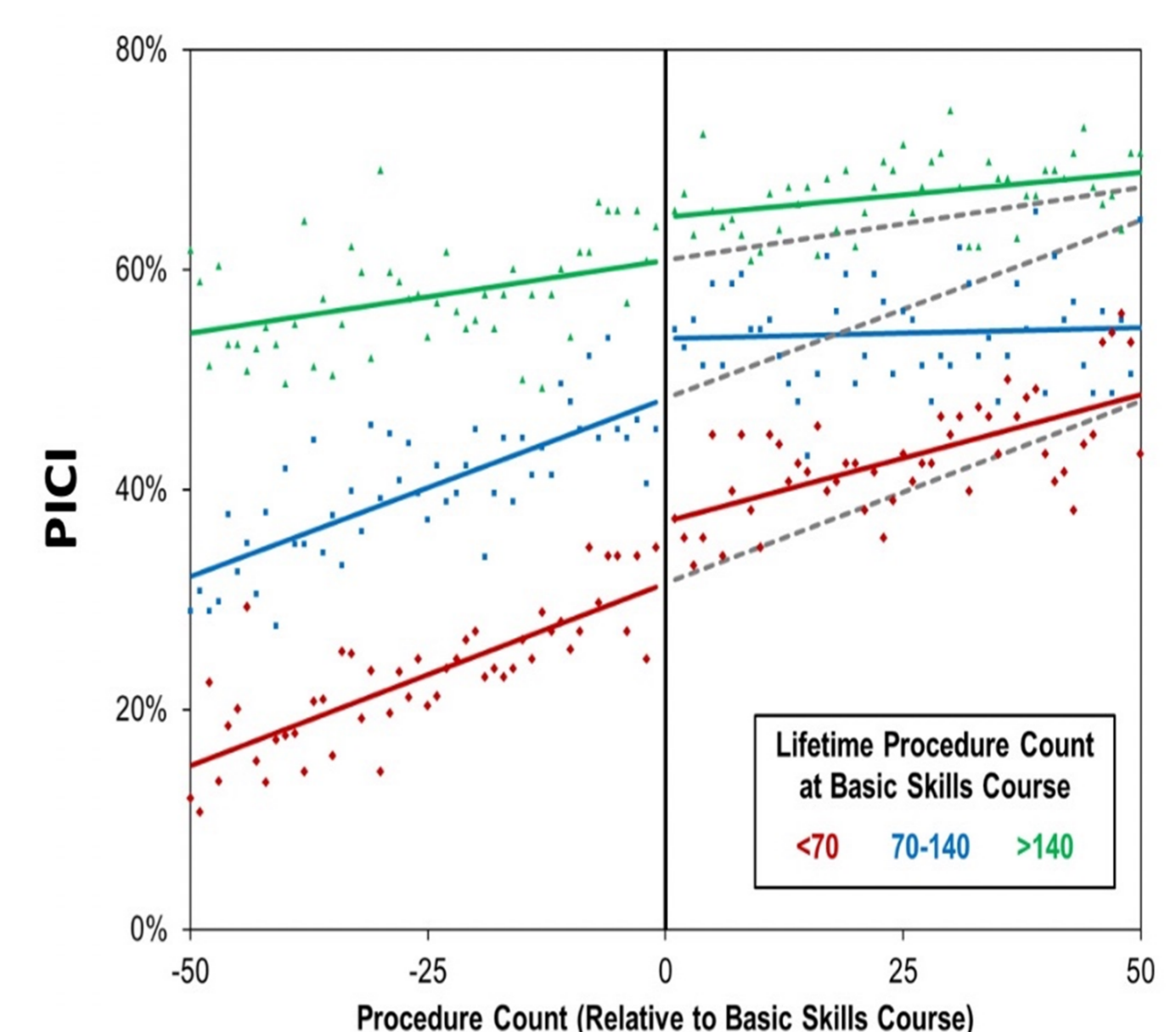
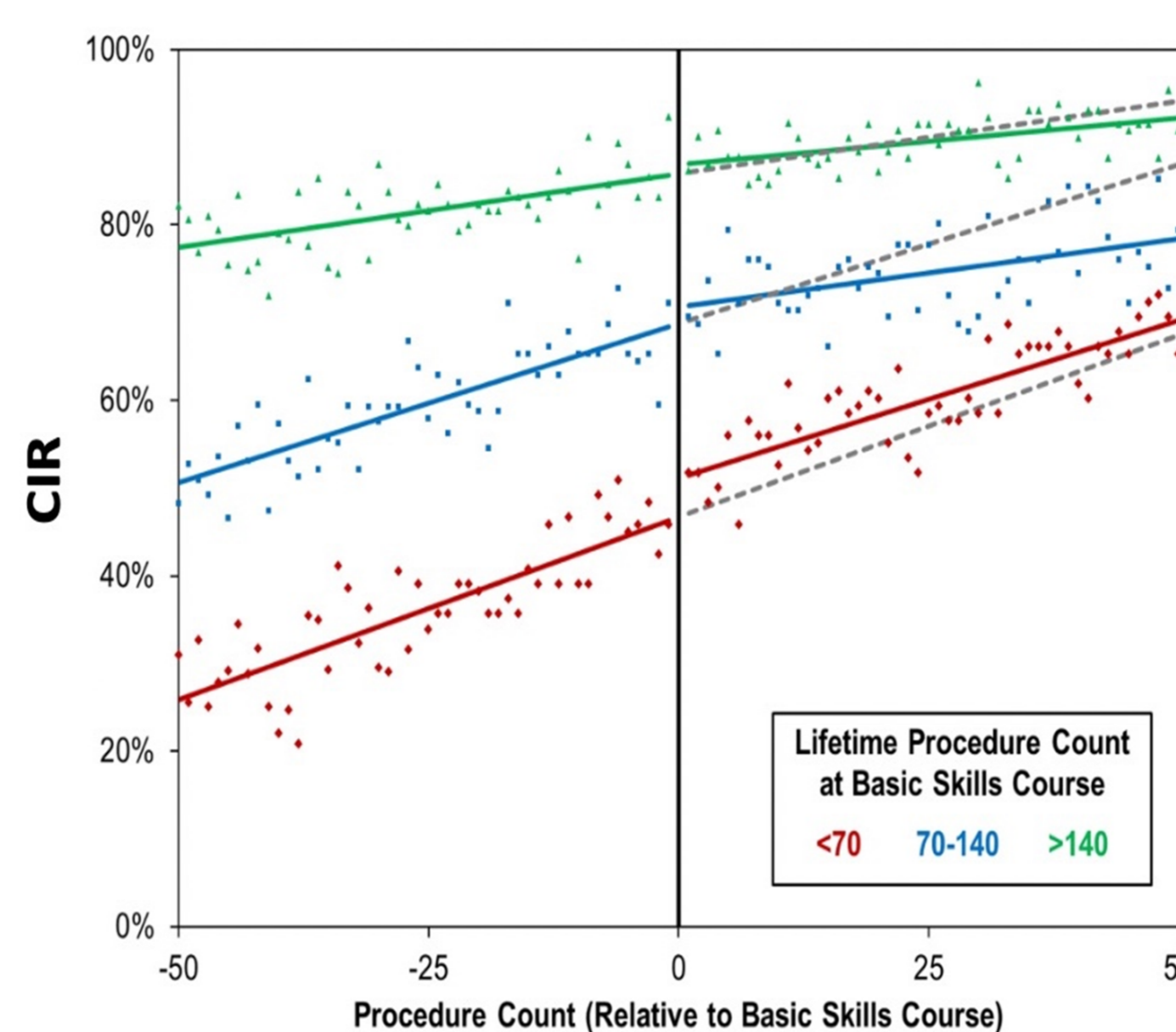
Attendance at the JAG Basic Skills Course **improves** colonoscopy performance, but is most beneficial during **earlier** stages of training.



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METHODS

- Trainees awarded colonoscopy certification (2011-2016) were stratified into 3 groups according to experience before the course.
- For each group, outcomes were measured over 50 procedures pre & post-course based on JAG endoscopy training system (JETS) e-portfolio data. The JETS e-portfolio is used by all UK endoscopy trainees and is used to demonstrate experience and competency progression
- unassisted caecal intubation rate (CIR). Reaching the caecum demonstrates that a complete test has been performed.
- Performance Indicator of Colonic Intubation (PICI):* composite of caecal intubation, sedation and patient discomfort.
- Interrupted time series models used to detect step-change after the course (step-change = impact attributable to the course).



CONCLUSION

- Attendance of the JAG Basic Skills in Colonoscopy Course appears to improve PICI in all experience groups.
- CIR data suggests that the optimal timing of course attendance appears to be at earlier stages of colonoscopy training (<70 procedures).