Orthopaedic Surgery is one of 7 early adopters of milestones. Resident self-assessment is an essential competency for all physicians to develop as part of practice-based learning and improvement.

ACGME endorses self-assessment as one evaluative tool. The PGY2 average, indicated full achievement of all Level 2 milestones, and full achievement of 9 Level Two milestones, of which were SBP-PBLI-PIC milestones.

Methods

- June 2012 153 ACGME Orthopaedic Surgery Programs were contacted to request participation in a REDCap™ electronic survey (45 questions, 41 of which were milestones).
- Participants were asked to select milestone "boxes," represented as letters. These were subsequently converted to a numeric scale 1-9. "1" corresponded to fully achieved Level 1; "3" = Fully achieved Level 2; "5" = Fully achieved Level 3; "7" = Fully achieved Level 4 and "9" = Fully achieved Level 5.
- The survey was anonymous and de-identified. The Duke IRB deemed this study exempt.
- A one-way ANOVA was performed to determine the difference in each milestone across PGY levels. A two way sample t-test was done to compare PC, MK, and SBP-PBLI-PIC averages across PGY levels.

Hypothesis

- There will be differences in the self-assessment of milestone acquisition for the 32 Medical Knowledge (MK) and Patient Care (PC) milestones compared to the 9 milestones of systems based practice—practice based learning and improvement—professionalism—interpersonal communication. (SBP-PBLI-PIC) between PGY1 and PGY2 residents.

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Outcomes

- 74 residents responded: 14 PGY1s, all men, and 10 PGY2s 8 men and 2 women.
- Of the 16 paired Patient Care (PC) and Medical Knowledge (MK) milestones, PGY1s self-evaluated MK more highly than PC for 11, and "the same" for two milestones.
- Their lowest rating was MK-ankle arthritis "and their highest was the systems based practice milestone, use of technology.
- The PGY1 mean indicated full achievement of all Level 1 milestones; and full achievement of 9 Level Two milestones, of which were SBP-PBLI-PIC milestones.
- The PGY2 average, indicated full achievement of all Level 2 milestones, and 8 Level 3 milestones: 2 MK; 1 PC, and 5 SBP-PBLI-PIC milestones.
- Mean PGY2 self-assessment was higher than PGY1 for 40/41 milestones.
- Both PGYs and PGY2 assessed their performance on SBP-PBLI-PIC milestones more highly than on PC or MK milestones.

Conclusion

- Although there was a low response rate, the results support the proof of concept that residents can self-assess themselves using milestones.
- Residents discriminated among the milestones; They did not assess themselves as equally proficient in all milestones.
- SBP-PBLI-PIC milestones were rated higher than MK and PC.
- Respondents indicate they progressed from PGY1 to 2.
- Resident self-assessment using milestones may be one tool useful to Clinical Competency Committees as they assess resident performance.

References