PGY1-5 ORTHOPAEDIC RESIDENT SELF-ASSESSMENT OF MILESTONE ACQUISITION

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Background

Orthopaedic Surgery is one of 7 early adopters of competency-based milestones. ACGME recognizes “self-assessment” as a valid assessment tool. It is unknown how residents actually make educational progress, or how their self-assessment, will be reflected by milestones.

Objective

The purpose of this study is to provide a “baseline” of Orthopaedic residents’ milestone acquisition, judged by their self-assessment at the conclusion of the academic year just prior to milestones adoption.

Hypotheses

1) Residents will be able to self assess using milestones
2) Self-assessment scores will increase across PGY1-5.
3) Self-assessment for patient care (PC) and medical knowledge (MK) milestones will differ compared with milestones for systems based practice-practice based learning & improvement-professionalism- and interpersonal communication. (SBP-PBL-P-IC)

Methods

153 ACGME Orthopaedic Surgery Programs were requested to participate in an electronic survey (45 questions, 41 of which were milestones). Milestone “boxes” were represented as letters, later converted to a numeric scale 1-9.

“1” corresponded to “Fully achieved” (FA) Level 1; “3” = FA Level 2; “5” = FA Level 3; “7” = FA Level 4, and “9” = FA 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-PBL-P-IC averages across PGY levels.

Results

• 74 Residents responded
• PGY1s and PGY2 mean self -assessments corresponded to FA Level 1 and Level 2 respectively for all milestones.
• PGY3 means indicated FA 30/41 Level 3 milestones.
• PGY4 means corresponded to FA all Level 3 milestones, and 3 Level 4 milestones.
• PGY 5 resident means corresponded to FA 17 Level 4 milestones; they were extremely “close” to FA Level 4 on another 15 milestones.

Conclusions

1) Residents were able to self assess using milestones.
   – Residents discriminated among the milestones and did not assess themselves as equally proficient in all
2) Self-assessment ratings improved from PGY1 to PGY5
3) P-PBLI-SBP-IC milestones were rated more highly than MK and PC milestones (in earlier years of training)

Resident self-assessment using milestones may be one tool useful to CCCs in assessing resident performance

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