Introduction

The ABOS launched the ABOS Knowledge, Skills, and Behavior (ABOS KSB) Program to assist Orthopaedic Residency Programs incorporate Competency-Based Medical Education (CBME) into the current time-based curriculum. The ABOS KSB Program provides a system for measuring the acquisition of surgical skills and professional behavior while providing feedback to Orthopaedic Residents and Program Directors in real-time.

What Does KSB Stand For?

- Knowledge: Measured by the Orthopaedic In-Training Examination
- Surgical Skills: Measured by O-P Surgical Skills Assessment Tool
- Professional Behavior: Measured by ABOS Behavior Tool (ABOSBT) through assessment requests of attendings and other healthcare professionals
  - 2 Types: End-of-Rotation & 360

Onboarding a program currently refers to:

1. Program Directors, Program Coordinators, and Associate Program Directors receiving login instructions for www.abos.org (ABOS Residency Activities Portal)
2. Program Directors and Program Coordinators receiving all pertinent onboarding materials, quick guides, presentations, tutorials, and tools for dissemination to Faculty and Residents.
3. Scheduling an optional presentation/s for:
   - Program Directors and Program Coordinators
   - Residents & Faculty
   - 1. Program Leadership
   - 2. Program Coordinator Only
   - 3. Program Leadership (PD/Chair/PC/APDs etc.)
   - Grand Rounds + Additional Coordinator Presentation
   - Program Leadership (PD/Chair/PC/APDs etc.)
   - Program Coordinator Only
   - No Presentation (Received Materials and PDs disseminated or presented to residents/faculty)

Methods

We looked at all 80 residency programs that are currently participating in KSB for a fixed 7-month interval from July 1, 2022-February 1, 2023.

We categorized each residency program by the type of ABOS KSB Presentation pathway they chose to participate in for orientation. The categories were:

- Grand Rounds (Program Leadership, Faculty, Residents)
- Grand Rounds + Additional Coordinator Presentation
- Program Leadership (PD/Chair/PC/APDs etc.)
- Program Coordinator Only
- No Presentation (Received Materials and PDs disseminated or presented to residents/faculty)

We then calculated resident participation for each of the 80 programs by taking the total of resident surgical skills requests and comparing it to the number of requests expected for a program’s size based on the 2 per week surgical skills a week expectation for each resident.

We then calculated the average resident surgical skills request per presentation category. For example, for a residency program with 20 residents PGY 2-5, we would expect 40 surgical skills assessments per week. For a 7-month span, we would expect 1,120 surgical skills requests. If they only did 800 surgical skills requests that would mean their surgical skills request participation would be ~71%.

Results

We considered the following presentation categories:

- Grand Rounds
- Grand Rounds + Additional Coordinator Presentation
- Program Leadership (PD/Chair/PC/APDs etc.)
- Program Coordinator Only
- No Presentation

We can see from the chart that Grand Rounds and Grand Rounds + Additional Coordinator Presentation were the most common presentation categories.

Discussion

There are many factors to consider when looking at resident participation. Factors such as residency program size, program initial start date, how many faculty members are participating, and if the program had previous familiarity with the tool. 16 of the programs that did not have a presentation were part of the ABOS KSB pilot testing phase, giving them increased familiarity with the program.

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<thead>
<tr>
<th>Mean</th>
<th>Range</th>
<th>Median</th>
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<tr>
<td>20%</td>
<td>0.00%</td>
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Figure 4: Overall Resident Participation in Surgical Skills Requests of 80 Programs

Overall, there will be implementation hurdles that each program will need to consider when participating in the ABOS KSB Program. It is up to each program to identify which presentation pathway will best suit their needs. The most successful programs identify a champion for this program, whether it be program leadership, faculty members, or residents. There are many administrative nuances and implementation tricks that are individual to each program. We highly suggest scheduling a zoom presentation or phone call with us.

Contact Information

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Figure 5: Number of Residency Programs in each type of ABOS KSB Presentation Category.

Figure 6: Top Ten Participating Programs in KSB by Presentation Type and Average Resident Participation in Surgical Skills Assessments.