Using the Delphi process to conduct a needs assessment in the Department of Anesthesia & Perioperative Medicine

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Disclosure

Faculty: **Dr. Valerie Schulz**

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- Grants/Research Support:
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- Speakers Bureau/Honoraria:
- Consulting Fees:
- Patents:
- Other:
Overarching Project Goals

- Identify educational needs of Anesthesia & Perioperative Medicine faculty based on expert opinion and learner self-reports to influence future internal CPD initiatives for a diverse set of physicians in practice.
Project Objectives/Phases

- **Phase 1**: Educational topics for “A Night On-Call”
- **Phase 2**: Online Delphi of Anesthesiology experts
- **Phase 3**: Online survey for all Anesthesiology faculty
- **Phase 4**: [In Progress] Deliver personalized reports to all participants highlighting topics of strength, and topics where educational opportunities exist.
Phase 1

- **Methodology**: Committee meeting with subspecialty experts (faculty/educators) in the department of Anesthesia & Perioperative Medicine

- **Outcomes**: A finalized list of 36 topics (formatted as learning objectives) for the surveys to follow.

- **Theme**: “A Night On-Call”
Phase 2 & 3

• **Methodology**: Using our Delphi survey platform, conducted a 2-round expert survey (N = 10), followed by a Qualtrics survey for learners (N = 34) on the 36 Topics previously identified (In Phase 1).

• **Outcomes**:
  Expert Delphi: Topics scored on expected ability.
  Learner Qualtrics: Self-reported for ability, desire to learn, and frequency of clinical encounters for each topic.

• Comparisons between these two surveys allowed for prioritization of educational needs with regards to the 36 topics.
Survey Methods

**Delphi**: Multiple round Expert survey, repeat questions & displays average from previous round (*Grey triangle*) – Promotes consensus for topic scores.

Ex. Communicate effectively when only allowed 7 slides...

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**Qualtrics**: Typical online survey (all faculty) – Ability, Frequency of clinical encounters, and desire to learn from additional educational opportunities.

Ex.

<table>
<thead>
<tr>
<th>No ability</th>
<th>End of Residency</th>
<th>Mastery</th>
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Realize your role following a Significant complication (or death)

Employ point of care ultrasound (POCUS) to enhance patient care

Manage the "can't intubate, can't ventilate" scenario

Additional interesting results:

- Obstetrical topics were deemed low in educational gap and desire to learn. Existing educational efforts may be sufficient and effective!
- Topics that suit simulation-based education were highly desired (i.e. Emergency scenarios)
Future Directions

• Results aim to inform departmental education strategies for residents and faculty members
• Phase 4 (Incomplete): ~50% of participants requested a personalized report of outcomes
  • Personalized CPD
• Potential for more needs assessments to support CPD across many other departments at Western University.
Thanks for listening!