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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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- 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”

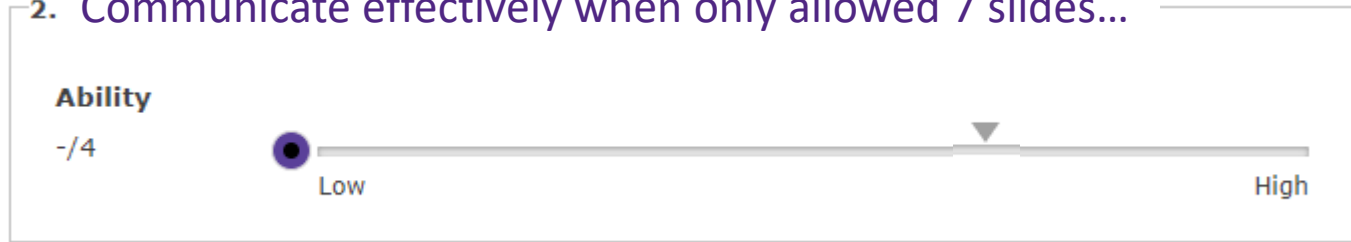
Phase 2 & 3

- **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

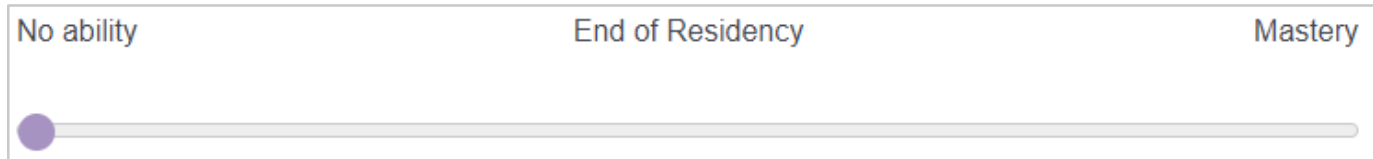
Delphi: Multiple round Expert survey, repeat questions & displays average from previous round (Grey triangle) – Promotes consensus for topic scores.

Ex. 2. Communicate effectively when only allowed 7 slides...

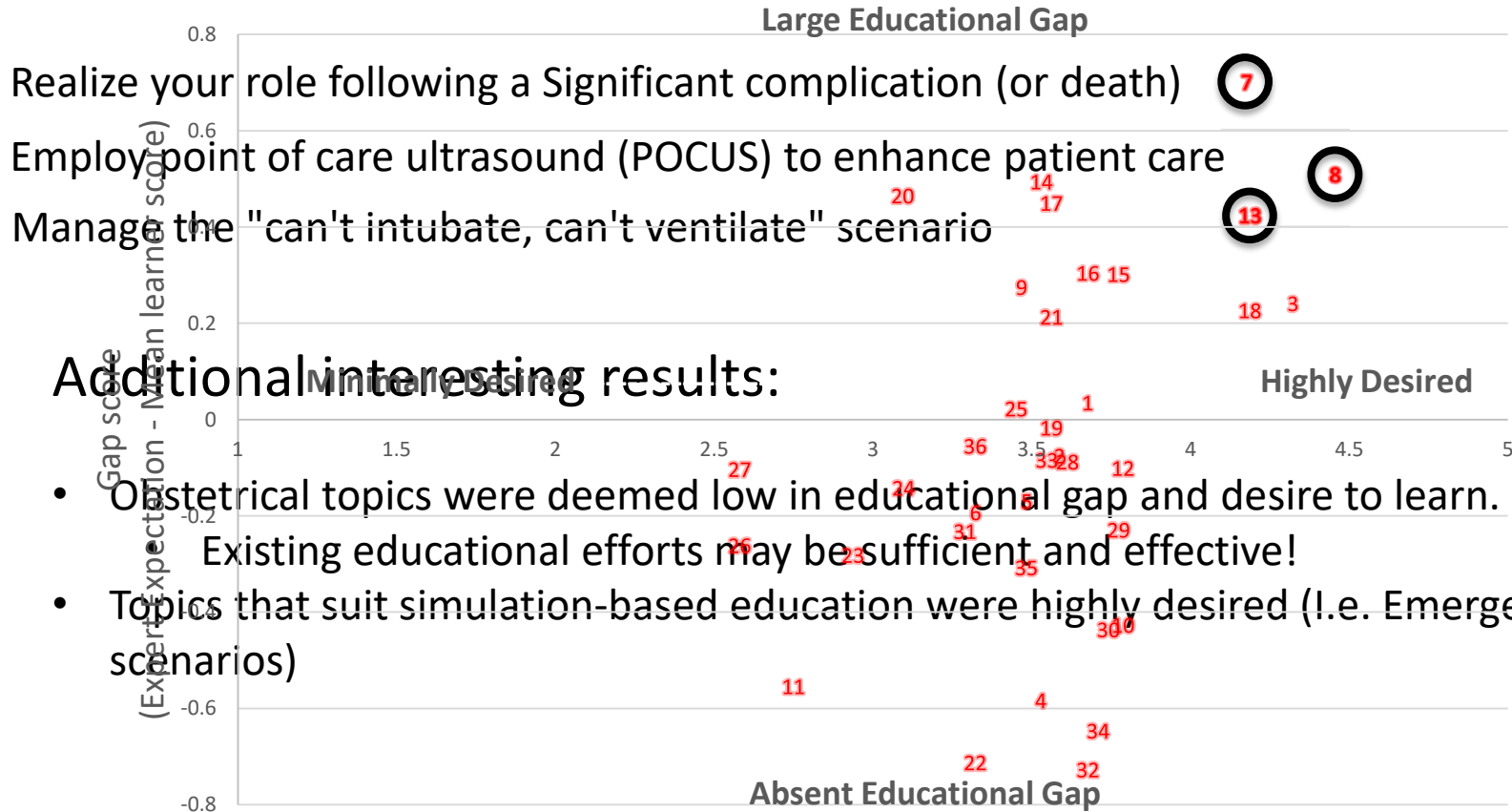


Qualtrics: Typical online survey (all faculty) – Ability, Frequency of clinical encounters, and desire to learn from additional educational opportunities.

Ex.



Results



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!



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