

Appendix 3. Delphi Round 2 Surveys



Default Question Block

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Dear attendees of the Anesthesia Patient Safety Foundation 2017 Stoelting Conference on Perioperative Handoffs:

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In this next round of the Delphi, we are asking you to review only the statements for your assigned group, indicating **whether you agree with these statements**. (You will have the opportunity to modify the statements at the conference in your small group.) We are also asking you to indicate whether you agree with 75% as the threshold for "consensus".

For those of you interested in seeing the entire list of statements, a weblink is provided at the end of this survey.

Thank you for your time and engagement in this important work!

If you have any questions about the conference or this Delphi process, please contact one of the conference co-chairs, Jeffrey Cooper, PhD (JCooper@mgh.harvard.edu) or Meghan Lane-Fall, MD, MSHP (LaneMe@upenn.edu).

**Warm regards,
APSF Stoelting Conference Planning Committee**

You have been assigned to the breakout group discussing handoff process elements, behaviors, and attitudes.

Despite differences in handoff types, settings and participants, there are common process elements that should be present in every handoff (excluding short breaks). Also, certain behaviors and attitudes are conducive to effective handoff communication.

Please indicate the degree to which you agree with the following statements about handoff processes, behaviors, and attitudes.

Overall Process Elements

	Agree	Agree with modification	DO NOT agree
1. The handoff should have a structured or standardized process.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. All participants should have had handoff education and training.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Interruptions and distractions should be minimized during the handoff.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The handoff process should be audited, with feedback for clinicians.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. The handoff should be documented, with use of an EMR if available.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Information Transfer Elements

	Agree	Agree with modification	DO NOT agree
6. Information transfer between giver and receiver should be standardized, with use of a checklist or cognitive aid.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The receiving provider should read-back critical information and verbally synthesize what was heard during the handoff in order to establish a mutually shared understanding.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Information transfer should be thorough yet concise, summarizing patient- and case-specific information.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. The handoff should include anticipatory guidance and contingency planning for events that may occur.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
10. The handoff should include an action plan for tasks that need to be completed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. A written or electronic patient summary with relevant information should be used to assist with handoff communication.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Additional process elements

	Agree	Agree with modification	DO NOT agree
12. Adequate time should be allotted for the handoff, with an explicit opportunity for the receiver to ask questions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. All relevant team members should be present, with introductions and clear team roles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Participants should use clear, consistent, organized communication, with use of closed-loop and two-way communication as appropriate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Participants should plan and prepare for the handoff prior to its commencement with appropriate knowledge of the patient.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Behaviors and attitudes

	Agree	Agree with modification	DO NOT agree
16. During a handoff, all involved should be fully attentive and engaged, cooperative, patient, and actively listening to the handover of the patient until the person accepting responsibility feels they are ready to do so.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
17. Communication during handoffs should be clear, concise, and interactive.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18. During a handoff, participants should read back critical numerical values and acknowledge all critical items.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. During a handoff, participants should strive to allow one person to speak at a time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. During a handoff, participants should have the opportunity to raise questions and concerns.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
21. During a handoff, the leader should establish a tone that allows for open, blame-free communication,	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. During a handoff, all participants should act with mutual respect and practice positive teamwork, establishing role clarity, willingness to collaborate, and equality of value of others' information.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. During a handoff, all participants should be receptive to questions and concerns.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24. During a handoff, all participants should be mindful, self-aware, curious and seeking tacit knowledge,	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. During a handoff, all participants should strive to balance thoroughness and brevity to seek optimal use of time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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You have been assigned to the breakout group discussing handoff measurements and metrics.

Measurements, or metrics, are important to measure the effectiveness of any given process. Consider the following metric types:

- Process metrics
- Patient outcome metrics
- Provider metrics
- Organizational metrics
- Implementation metrics

Please indicate the degree to which you agree with the following statements about handoff measurements and metrics.

Patient outcomes

In order to measure handoff effectiveness...

	Agree	Agree with modification	DO NOT agree
1. ... outcomes related to patient perception (e.g. satisfaction, perceptions of communication, care quality, and responsiveness) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. ... morbidity (including major adverse cardiac events, kidney injury, and complications) and mortality should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. ... hospital quality indicators (e.g. preventable adverse events, perioperative glucose control, time to extubation, length of stay) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Process outcomes

In order to measure handoff effectiveness...

Agree	Agree with modification	DO NOT agree
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	Agree	Agree with modification	DO NOT agree
4. ...information-related process outcomes (e.g. information omissions or inclusions, completeness/thoroughness, "saves" or "pickups" during handoff, relevance of handoff to patient care, overall communication quality, clarifications needed after handoff) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. ...team and participant-related process outcomes (e.g. presence of handoff participants, patient/family participation in handoffs, team effectiveness, interruptions) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. ...efficiency- and time-related process outcomes (e.g. handoff duration, time spent in clarification, efficiency, diagnostic test redundancy, timely medication administration, delays in treatment, delayed orders) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. ...safety-related process outcomes (e.g. medication errors, near misses, non-routine events, change in care plan due to missing/wrong information, missed orders) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Provider outcomes

In order to measure handoff effectiveness...

	Agree	Agree with modification	DO NOT agree
8. ...provider perceptions of handoffs and handoff processes (e.g. satisfaction, acceptance, perception of effectiveness, attitudes) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
9. ... provider wellness outcomes (e.g. workload, stress/burnout, morale) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. ... whether/how well providers know patients whose care has been handed off should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Implementation outcomes

In order to measure handoff effectiveness...

	Agree	Agree with modification	DO NOT agree
11. ... outcomes related to the uptake and use of evidence-based handoff processes (e.g. acceptability, integration, uptake, adoption/willingness to adopt, penetration, reporting, fidelity) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. ... outcomes related to the ability to adhere to evidence-based handoff practices (e.g. feasibility, sustainability, ability of EMR to support handoff) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Organizational outcomes

In order to measure handoff effectiveness...

	Agree	Agree with modification	DO NOT agree
13. ... outcomes related to organizational support of evidence-based handoff practices (e.g. handoff expectations, feedback, training outcomes) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
14. ... organizational outcomes related to safety (e.g. safety climate, psychological safety) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. ... organizational outcomes related to efficiency, spending, and staffing (e.g. hospital throughput, cost of care, retention, turnover) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. ... professionalism outcomes (e.g. professionalism, commitment to team, commitment to safe care) should be measured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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You have been assigned to the breakout group discussing research questions.

The evidence base for handoff design, implementation, and effectiveness is limited. What are the most important research questions that relate to perioperative handoffs?

Please indicate the degree of importance of the following research questions concerning

perioperative handoffs. Consider which questions are important to gain knowledge for the purpose of improving perioperative handoffs.

Research questions

	Very important	Somewhat important	Not important
What factors impact handoff failure and success?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What are the best practices for conducting safe and effective handoffs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What is the impact of handoffs on process, intermediate and patient outcomes?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What are the best practices for training for effective handoffs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How should handoff quality be assessed?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Should handoffs be standardized and if so, how?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What is the relationship between team function and handoff safety and effectiveness?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What is the relationship between information technology (IT) and handoff success or failure?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Should checklists be used for conducting safe and effective handoffs and if so, what are best practices in using them?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What are the current practices in conducting handoffs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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You have been assigned to the breakout group discussing education and training (including mnemonics).

What are the essential characteristics of effective handoff education/training?

Please indicate the degree to which you agree with the following statements about handoff education and training.

Education / training

	Agree	Agree with modification	DO NOT agree
Handoff education and training should be dedicated, standardized, with a standardized curriculum and standardized tool (cognitive aid) for all healthcare workers, tailored to provider need.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should impart the value of an effective handoff and should help learners understand the consequences of a poor handoff.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Team training is essential for effective handoffs, and should include leadership training, assertiveness training, and help learners with strategies to address barriers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff training should include experiential learning, including regular, repeated simulation to practice role playing handoffs, to use deliberate practice and repetition, allowing students to reflect and debrief and to receive feedback.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should include ongoing observation, real-time coaching, and feedback.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should occur early in training and early in one's institutional career (e.g., orientation).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
Leadership should define elements of good handoffs and best practice, and should model effective handoffs to demonstrate good performance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should include assessment of competency.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The development of the handoff education and training program should be inclusive of all stakeholders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should be multi-modal, including the use of technology (online, videos, problem based learning).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should focus on the essential and not be burdensome.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handoff education and training should include feedback about handoff performance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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You have been assigned to the breakout group discussing handoff implementation best practices.

To implement effective handoffs, specific strategies and tactics are needed and may involve expertise and resources at the provider, unit, hospital, and health system level. What strategies should be used for handoff process implementation?

Please indicate the degree to which you agree with the following statements about handoff implementation best practices.

Audit and feedback

	Agree	Agree with modification	DO NOT agree
1. Trained observers should routinely audit handoffs and provide feedback to its participants.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Clinicians should commit to improving handoff communication as an explicit social expectation in their respective codes of conduct.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Iterative process

	Agree	Agree with modification	DO NOT agree
3. An iterative approach should be used, with tests of change and a successful pilot, before system-wide implementation of a new handoff process.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Systems approach

	Agree	Agree with modification	DO NOT agree
4. A core set of elements should be tailored to a unit's needs as part of a system-wide approach to handoff redesign.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. A clinical unit's policy should codify its handoff processes and education requirements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Clinical units should apply quality improvement principles (e.g. project charter, needs and stakeholder analysis, implementation team) to system-wide handoff redesign.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Design

	Agree	Agree with modification	DO NOT agree
7. Inter-professional teams (when appropriate) should collectively design a reliable method for information transfer in a manner that promotes team work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Executive leadership

	Agree	Agree with modification	DO NOT agree
8. The business case for handoff redesign should be made to hospital executives when funding is sought for system-wide implementation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Executive buy-in should include vocal/visible support and funding (e.g. for subject matter experts, nonclinical time) for handoff redesign.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Stakeholders

	Agree	Agree with modification	DO NOT agree
10. All stakeholders (e.g. physicians, nurses, technicians, staff and administration) should be engaged early in the process to elicit buy-in, concerns and barriers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Champions

	Agree	Agree with modification	DO NOT agree
11. Site leads and unit-based champions should be identified, trained and mentored to ensure their respective peers understand the intent and purpose of the redesign effort.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Organizational

	Agree	Agree with modification	DO NOT agree
12. Hospital/health systems should provide unit-based teams with guidance by subject matter experts to support the handoff redesign process.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Access to subject matter expertise in quality improvement, education, team training, human factors, information technology, data analytics and project management should be provided when redesigning handoffs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Messaging

	Agree	Agree with modification	DO NOT agree
14. Needs, results and lessons learned should be messaged to all the stakeholders involved in handoff redesign and its implementation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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You have been assigned to the breakout group discussing patient and family engagement in handoffs.

Patients and their families can help to ensure providers have relevant, complete information for the patient's optimal care. How and when should patients and/or their families be engaged in perioperative handoffs?

Please indicate the degree to which you agree with the following statements about patient and family engagement in handoffs.

Patient and family engagement

	Agree	Agree with modification	DO NOT agree
1. Patient and family presence for and participation in handoffs should be specific to setting and acuity.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Families should be present for PACU discharge.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Patients and families should be included in the handoff postoperatively when care is transitioned beyond the immediate perioperative setting.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Patients and families should be included in nursing shift handoffs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Families should be able to make recommendations for next steps in plan of care.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Patients and families should have a mechanism to communicate any issues through a patient hotline or quality improvement reporting system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. For pre-operative handoffs, patients (as they are able) and families should be present and should participate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. For intraoperative handoffs (excluding short breaks), patients (as they are able) and families should be present and should participate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. For OR to PACU handoffs, patients (as they are able) and families should be present and should participate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Agree	Agree with modification	DO NOT agree
10. For OR to ICU handoffs, patients (as they are able) and families should be present and should participate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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