Inadequate hand-off communication

Health care professionals typically take great pride and exert painstaking effort to meet patient needs and provide the best possible care. Unfortunately, too often, this diligence and attentiveness falters when the patient is handed off, or transitioned, to another health care provider for continuing care, treatment or services. A common problem regarding hand-offs, or hand-overs, centers on communication: expectations can be out of balance between the sender* of the information and the receiver. This misalignment is where the problem often occurs in hand-off communication.

Potential for patient harm – from the minor to the severe – is introduced when the receiver gets information that is inaccurate, incomplete, not timely, misinterpreted, or otherwise not what is needed. When hand-off communication fails, many factors are involved, such as health care provider training and expectations, language barriers, cultural or ethnic considerations, and inadequate, incomplete or nonexistent documentation, to name just a few.

This alert provides advice to senders and receivers of hand-off communication, including communication between caregivers within hospitals and other health care settings, as well as between hospital caregivers and those not located in a hospital. Senders are responsible for sending or transmitting patient data and releasing the care of the patient to receivers, who have been identified as those who will receive patient data and accept care of the patient. This alert makes the basic assumption that the hand-off already involves the correct receiver, sender and patient.

While it sounds simple, a high-quality hand-off is complex. Failed hand-offs are a longstanding, common problem in health care. In 2006, The Joint Commission established a National Patient Safety Goal that addressed hand-off communication. In 2010, the requirement became a standard. Provision of Care standard PC.02.02.01, element of performance (EP) 2, requires that:

*For the purposes of this alert, the sender is the individual who provides the clinical information to the receiving caregiver.*
Nevertheless, gaps in communication during hand-off processes continue to exist, thereby increasing patient safety risk. The problem is compounded by the high frequency of hand-offs in health care, especially in hospitals. It’s estimated that a typical teaching hospital may experience more than 4,000 hand-offs every day. However, sometimes hand-offs are conducted too casually, when they should be structured and focused to ensure continuity of care.

Finding contributing factors and solutions
Inadequate hand-off communication is a contributing factor to adverse events, including many types of sentinel events. The Joint Commission’s sentinel event database includes reports of inadequate hand-off communication causing adverse events, including wrong-site surgery, delay in treatment, falls, and medication errors. A study released in 2016 estimated that communication failures in U.S. hospitals and medical practices were responsible at least in part for 30 percent of all malpractice claims, resulting in 1,744 deaths and $1.7 billion in malpractice costs over five years.

The Joint Commission Center for Transforming Healthcare’s Hand-off Communications Project involved 10 hospitals that used a proven, systematic approach called Robust Process Improvement (RPI) to identify the root causes of and solutions to the problem of inadequate hand-offs. During the project, receivers assessed that 37 percent of the hand-offs were unsuccessful. Senders, on the other hand, judged 21 percent of hand-offs to be unsuccessful, citing delays, inattention, or lack of knowledge about the patient being transferred from receivers.

The project team defined a hand-off as a transfer and acceptance of patient care responsibility achieved through effective communication. It is a real-time process of passing patient-specific information from one caregiver to another or from one team of caregivers to another, to ensure the continuity and safety of the patient’s care.

From the literature and Center project findings, contributing factors to hand-off communication breakdowns include insufficient or misleading information, absence of safety culture, ineffective communication methods, lack of time, poor timing between sender and receiver, interruptions or distractions, lack of standardized procedures, and insufficient staffing. A study by the Accreditation Council for Graduate Medical Education (ACGME) found that 69 percent of clinical learning environments did not have a standardized hand-off process, and only 20 percent had some standardization.

Research and quality improvement efforts
A considerable body of literature exists on improving hand-offs using a variety of methods and tools, including forms and checklists as well as team training derived from evidence-based frameworks and an SBAR (Situation, Background, Assessment, Recommendation) information technology (IT) tool.

Bartlett Regional Hospital in Juneau, Alaska, reduced its ineffective hand-offs by 58.2 percent while reducing the number of adverse events related to hand-off communication using the Center for Transforming Healthcare’s Targeted Solutions Tool (TST) for Hand-off Communications, an online application. Also using the systematic approach of RPI, which is found in the TST for Hand-off Communications,
another health care organization reduced readmissions by 50 percent.14

Successful hand-off improvement programs have the potential to substantially improve patient safety. For example, I-PASS is a multifaceted handoff improvement program that bundles together multiple complementary interventions to improve hand-offs and sustain improvements over time. This program applies a structured approach to communication for patient transition, using the mnemonic “I-PASS,” which stands for Illness severity, Patient summary, Action list, Situation awareness and contingency plans, and Synthesis by receiver. Nine medical centers implementing this program over the course of 10,740 patient admissions reduced preventable adverse events by 30 percent and medical errors by 23 percent during the intervention period.9

These results were published in the New England Journal of Medicine.9 To date, the program has been adopted by more than 50 hospitals. See the Resources section of this alert for examples and meanings of mnemonics, including I-PASS.1-2,6-9,12,20

Actions suggested by The Joint Commission

Each health care setting has its own issues and challenges relating to hand-offs. The Joint Commission emphasizes the importance of health care organizations using a process that identifies causes for hand-off communication failures and barriers to improvement in each setting, and then identifies, implements, and validates solutions that improve performance.9 Developing an institutional respect for hand-offs requires buy-in from all disciplines, and all disciplines need to incorporate changes into practice and culture.

- Make successful hand-offs an organizational priority and expectation.1,15

2. Standardize critical content to be communicated by the sender during a hand-off – both verbally (preferably face to face) and in written form. Make sure to cover everything needed to safely care for the patient in a timely fashion. Standardize tools and methods (forms, templates, checklists, protocols, mnemonics, etc.) to communicate to receivers.1,3,6-9,11,15-19,24

- Avoid making hand-offs using solely electronic or paper communications. If face-to-face communication is not possible, communicate in real time via telephone or video conference.6-7 Provide ample time and opportunities to ask questions.16
- Communicate and receive hand-off content in a timely way1,9 to ensure delivery of appropriate care and services.
- Synthesize information from disparate sources rather than communicating them separately.1
- Ensure that, at a minimum, the critical content to communicate to the receiver includes:9
  - Sender contact information
  - Illness assessment, including severity
  - Patient summary, including events leading up to illness or admission, hospital course, ongoing assessment, and plan of care
  - To-do action list
  - Contingency plans
  - Allergy list
  - Code status
  - Medication list
  - Dated laboratory tests
  - Dated vital signs
- Use mnemonics – such as I-PASS – to structure hand-off communication and help team members to perform hand-offs more consistently. Keep in mind that the mnemonic is only a framework, and it should be supported with other elements, such as training and cultural change. See the Resources section of this alert for examples of other mnemonics.1-2,6,8-9,12,20
Critical content to communicate to the receiver during a hand-off should include:9

• Sender contact information
• Illness assessment, including severity
• Patient summary, including events leading up to illness or admission, hospital course, ongoing assessment, and plan of care
• To-do action list
• Contingency plans
• Allergy list
• Code status
• Medication list
• Dated laboratory tests
• Dated vital signs

3. Conduct face-to-face hand-off communication and sign-outs between senders and receivers in locations free from interruptions, and include multidisciplinary team members and the patient and family, as appropriate.1,3,6-7,9,16,19,21,24

• Have a consistent location and time for sign-outs.6-7
• Establish a workspace or setting conducive for sharing information about a patient, such as a zone of silence, free of non-emergency interruptions.6-7,16
• Provide sender and receiver contact information for follow-up.10,18
• Share and receive information – as a multidisciplinary team – with the patient and family there at the same time.6-7,10,15,18,25
Use this time to consult, discuss, and ask and answer questions.7
• While engaging patients and family in care transitions whenever possible is encouraged, do not rely on the patient or family members to communicate vital information about their care on their own to providers receiving referrals or hand-offs.

4. Standardize training on how to conduct a successful hand-off – from both the standpoint of the sender and receiver.1,9,11,15

• Engage staff in training using methods such as real-time observation and performance feedback, role-playing and simulation, and independent learning.1,9,11,15,26
• Identify champions and coaches to promote quality improvement and serve as role models.15 Provide positive reinforcement to employees who perform hand-offs according to the standardized process.

Take opportunities to use successful hand-offs as exemplars.

• Emphasize teamwork, trust, situational awareness, roles and responsibilities, conflict resolution, and safety culture in training exercises.15-16
• Encourage supervisors and staff to dedicate ample time and opportunities to ask questions.18

5. Use electronic health record (EHR) capabilities and other technologies — such as apps, patient portals and telehealth — to enhance hand-offs between senders and receivers.1,7-9,16,18,27

• Once a standardized hand-off communication process (including written discharge instructions) is established, incorporate it into workflow and integrate it into the EHR application.9-10,18,27
• Facilitate ongoing communications and feedback loops between senders and receivers by providing as much critical information as possible, including the complete care plan, via EHRs and other forms of electronic communication.7-9,16,20,27
• Provide EHR access and education about how to use it to all patient care staff.27
• Support the use of online patient portals,27 especially for medical record access, prescription refills, lab and diagnostic results review, and appointment making.

6. Monitor the success of interventions to improve hand-off communication, and use the lessons to drive improvement.1,6-9,11,16-18,20,23,28

• Monitor the effectiveness of team members’ use of standardized forms, tools and methods for hand-offs.1,12,17-18,20,27
When a hand-off works well, find out what facilitated that communication, the attributes of the hand-off, and the tools used.
• Measure the specific, high-impact causes of a poor hand-off, and target solutions to those causes.1,11
• Collect data derived from adverse events with poor hand-offs as a contributing factor, and use these data as the basis for a systematic organizational approach to performance improvement.8,10-11,16,21,23,28
During the adverse event analysis/review, evaluate the quality of the hand-off, and look for the lost opportunities in hand-off communication. Integrate those lessons
into the organization’s overall performance improvement plan. Inadequate hand-off communication is one of the major contributing factors to adverse events; therefore, improving hand-offs should be part of the corrective actions.

7. Sustain and spread best practices in hand-offs, and make high-quality hand-offs a cultural priority.

- Hand-offs should be highly reliable, conducted in a high-quality manner for every patient, every day, with every transition of care.
- Achieving this level of performance requires strong leadership, resources, and effective implementation of a program for longitudinal monitoring, reinforcement, and improvement of hand-off practices, with the ultimate goal of having best practices integrated into the organization’s cultural norms and expectations.

Related Joint Commission requirements
Earlier in this alert, PC.02.02.01, EP 2, was mentioned as specifically addressing hand-off communication. This standard applies to hospitals and critical access hospitals; ambulatory care, behavioral health care and home care settings; and nursing care centers. (For behavioral health care, this requirement is Care, Treatment, and Services standard CTS.04.01.01, EP 3, and it includes program-specific language.) In addition to this requirement, organizations should reference the following relevant standards that address hand-offs:

Provision of Care, Treatment, and Services standard PC.02.02.01: The organization coordinates the patient’s care, treatment, and services based on the patient’s needs. (Applicable to hospitals and critical access hospitals, and ambulatory care settings.)

Performance Improvement standard PI.03.01.01: The organization improves performance on an ongoing basis. (Applicable to hospitals and critical access hospitals, ambulatory care and home care settings, and nursing care centers.)

Resources
The Joint Commission Center for Transforming Healthcare’s Targeted Solutions Tool® (TST®) for Hand-off Communications

Mnemonics – Some examples and their meanings are shown below:1-2,6,8-10,20

I-PASS
Illness severity
Patient summary
Action list
Synthesis by receiver

ISBAR
Identification
Situation
Background
Assessment
Recommendation

PSYCH (for psychiatric ED hand-offs)
Patient information/background
Situation leading to the hospital visit
Your assessment
Clinical information
Hindrance to discharge

I PUT PATIENTS FIRST
Identify yourself and role and obtain nurse’s name

Patient’s past medical history (medical, surgical, social)
Underlying diagnosis and procedure
Technique (general anesthesia, neuraxial, regional)
Peripheral IVs, arterial lines, central lines, drains
Allergies
Therapeutic interventions (pain medications, antibiotics)
Intubation (very difficult, moderately difficult, easy)
Extubation likelihood (already extubated, very likely, unlikely, definitely no extubation planned)
Need for drips (epinephrine, vasopressin, norepinephrine, insulin, propofol, etc.)
Treatment plan for postoperative care (blood pressure goals, ventilator settings)
Signs (vital signs during case and most recent)
Fluids (in’s and out’s, blood product(s), administered)
Intraoperative events (if any)
Recent labs (hemoglobin, glucose, etc.)
Suggestions for immediate postop care (ex: special positioning, pain control, need for pumps, etc.)
Timing/expected time of arrival to ICU

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References

Patient Safety Advisory Group
The Patient Safety Advisory Group informs The Joint Commission on patient safety issues and, with other sources, advises on topics and content for Sentinel Event Alert.

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