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Standardized Handovers

Transitions to Clerkships

Pre-Workshop Survey

Before we begin, please complete the survey at the following link

https://www.surveymonkey.com/r/handoffpre

Or scan this QR code



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PURPOSE

• ECHO-ICU - Enhanced Communication of Handovers from the OR-to-ICU

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- Pilot study in Department of Anesthesiology and Pain Management
- AIM: Reduce <u>unintended events</u> following handovers by 50% by improving the *reliability* of <u>transfer of care process</u> at all University of Texas Southwestern Hospitals by 2018
- Aim to introduce standardized patient handoffs to medical student
 education

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- Didactic & simulation
- Feedback

LEARNING OBJECTIVES

At the end of this session, learners will be able to:

- 1. Explain the consequences of an improper, incomplete, or poor handoff on patient safety.
- 2. Describe the purpose of a structured hand-off and distinguish it and its characteristics from a regular handoff.
- 3. Use SBAR as an example of one structured handoff and list the anatomy of a thorough and structured handoff.
- 4. Advocate for a structured handoff while on his/her clerkship and identify impediments to proper conditions for transfer of information.

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DEFINITION OF HANDOFF

• A *handoff* is a, real-time, interactive process of *passing information* from one person to another for the purpose of ensuring continuity and safety of a patients' care.

- In a variety of settings
 - Shift-to-shift
 - Transfer of care (OR to ICU, ER to floor, ICU to floor, etc.)
- Between a variety of healthcare providers
 - Attending to attending
 - Resident to resident
 - Nurse to nurse

Catchpole, et al. "Patient Handover from Surgery to Intensive Care: Using Formula 1 PII-Stop and Aviation Models to Improve Safety & Cuality, "Relative Areathesia, 11, 470-478, 2007 lane=Fail MB, Books AV, Wilkins SA, Devis JJ, Riesenberg LA. "Addressing the mandate for hand-off education: a focused review and another fail and Books and Wilkins SA, Devis JJ, Riesenberg LA. "Addressing the mandate for hand-off education: a focused review and another failed Books and Safety and the safety and the safety and the safety and the safety and focused by the safety and another safety and the safety and and the safety and and the safety and and the safety and and the safety and and the safety and and the safety and

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STATE OF HANDOFFS



STATE OF HANDOFFS

- Average inpatient will have 24 handoffs
- \bullet Duty hours restrictions have increased number of handovers by $\mathbf{30\%}$
- Handoff errors implicated in >80% of all severe adverse events
- Poor handoffs lead to

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- Delayed and missed diagnoses
- Litigation and malpractice claims

Diagnostic testing errors

- Omitted patient information
 - Mortality

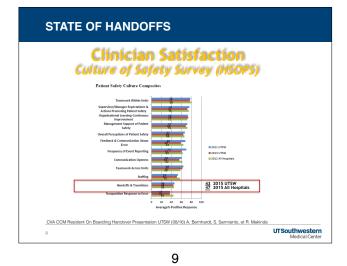
• Treatment delays

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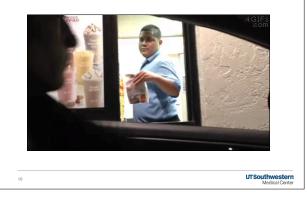
Patient harm

Roberston E. et al. "Interventions employed to improve intrahospital handover: a systematic review." Qual Saf 2014; 23:600-607 Pucher PH ; Johnston MJ ; Aggarwal R; et al. Effectiveness of interventions to improve patient handover in surgery: a systematic rev Surgery: 2015; ISB 85:95

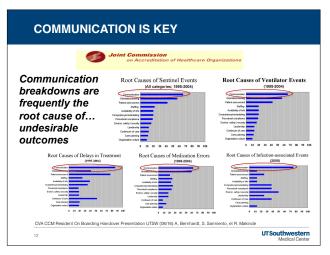
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BARRIERS TO EFFECTIVE HANDOFFS



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BARRIERS TO EFFECTIVE HANDOFFS Table 3. Barriers to Effective Anesthesia Hand-off Communication

Standardization	Systems factors
 Absent or insufficient hand-off training 	 Multitasking during report
 Lack of evidence-based research to guide hand-off best practices 	Interruptions and distractions
 Mnemonic difficulties: which one should be used and how should it be taught? 	Lack of privacy
 Staff resistant to changes in hand-off system 	Time constraints
 Lack of hand-off procedural protocols or tools 	Too much noise
 Problems with the standardized protocols or tools 	Poor lighting
Poor recognition and/or understanding of protocol or tool in use	
General communication	Clinical factors
 Lack of understanding of how to engage in an effective hand-off dialogue 	 Patients with multiple complex, medical problems Too many patients (e.g., ICU, pain, OB)
 Omissions, errors, or misunderstandings 	 Rapid case turnover
 Language communication barriers (i.e., dialectic, accent, vernacular barriers) 	Change in patient status during hand-off
 Social interactions occurring during handoffs 	
 Incorrect information recall 	Human factors
 Disorganized report 	 Fatigue or illness
 Hierarchical culture that discourages questions 	 Stressful shifts
Differences in clinical knowledge	 Memory limitations
	 High staff turnover
	 Information and sensory overload
Lane-Fall MB, Brooks AK, Wilkins SA, Davis JJ, Riesenberg LA. "Add recommendations for anesthesia resident curriculum development ar	tressing the mandate for hand-off education: a focused review and nd evaluation." Anesthesiology. 2014 Jan;120(1):218-29.

COMMUNICATION IS KEY



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NEED FOR HANDOFF EDUCATION

- 2006 The Joint Commission identified handoff communication as a National Patient Safety Goal
- 2008 Institute of Medicine report recommends all residents receive education in patient handoffs
- 2010 ACGME recognized this as a crucial competency and put into place requirements for programs to ensure resident competency in this skill, as well as ensuring an effective, monitored handoff process.

Keebler, Joseph R., et al. "Meka-Nalyses of the Effects of Standardized Handoff Protocols on Pattern, Phovider, and Organizational Outcomes: "Huma Tachos: The Journal of the Human Factors and Exponence Society (2016): 001574018672300. Lane-Fall MB, Bhooka AK, Wilkins SA, Davis JJ, Resenberg LA. "Addressing the mandale for hand-off education: a focused review and recommendations for anesthesia resident curriculum development and evaluation." Anesthesiology. 2014 Jan;120(1):218-29. UT Southwesterm

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DEFINITION OF STANDARDIZED HANDOFF

- <u>Standardized patient handoffs</u> implement a checklist, protocol, electronic resource, or mnemonic into the handoff process
 - Aim to reduce barriers to effective handoff such as miscommunication, incorrect recall, and omissions



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ELEMENTS OF EFFECTIVE HANDOFF

- · Quantity only as much info as needed, and no more
- **Quality** truthful, no information that is false or not supported by evidence
- Relation info that is relevant and pertinent to discussion
- Manner be as clear, brief and orderly as you can, avoids obscurity and ambiguity
- Environment minimize distractions, face-to-face, protected time

TeamSTEPPS[®]20

Check-Back and closed-loop communication

CVA COX Resident On Boarding Handover Presentation UTSW (08/16) A, Bernhardt, S, Sarmiento, et R. Makinde Team Stepps Pocket Guide 2.0

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EFFECTS OF STANDARDIZED HANDOFF

• I-PASS Study

- First major study to look at effectiveness of handoff improvement projects; 9
 Pediatrics residency programs
- · 23% relative reduction in overall medical-error rate
- · 30% relative reduction in rate of preventable adverse events
- \bullet 21% relative reduction in rate of near misses and non-harmful medical errors
- •No significant change in percentage of time in a 24-hour period spent on handoffs
- Proportion of residents who rated the overall quality of their handoff training as very good or excellent increased significantly after the intervention (27.8% before and 72.2% after)
- Subsequent meta-analysis have found standardized handoff positively affect outcomes for patients, providers, and organizations

Starmer et al. "Changes in Medical Errors after Implementation of a Handoff Program" N Engl J Med 2014; 371:1803-1812 Keeblei, Joseph R., et al. "Mete-Analyses of the Effects of Standardized Handoff Protocols on Patient, Provider, and Organizational Outcomes." Human Factors: "The Journal of the Human Factors and Ergonomics Society (2016): 001870816672399. 7

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RELEVANCE TO MEDICAL STUDENTS

- 2012 survey of clerkship directors
 - 34% of 3rd year students perform handoffs, 93% of 4th year students
 - Only 26% believed their handoff curriculum was adequate
- 2010 survey of medical students
 - 92% had strong negative reactions to unsuccessful transitions, experiencing frustration, irritation, fear, and anger

RELEVANCE TO MEDICAL STUDENTS

- · Medical students do not lead in the majority of handoffs, but you
 - Have the opportunity to handoff your own patients on rotations
 - Will be responsible for updating written handoffs on your patients
 - Are in charge of *calling consulted physicians* about your patient
- · As a medical student, you will observe many handoffs and will
 - · Have opportunities to see what went well & what didn't

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• Be in a position to affect change and improve quality of care

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Standardized Handoff Tools

- 1) Introduction to SBAR & IPASS the BATON
- 2) Evaluation of handoff scenarios

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HOW TO USE HANDOFF TOOLS · You will come across a variety of standardized handoff tools during clerkships, residency, and your career • Each tool has its own benefits & drawbacks • It is more important to understand how to implement the tools than memorize specific tools • TeamSTEPPS 20 Pocket Guide has two examples • SBAR • IPASS the BATON Team Stepps Pocket Guide 2.0 Team Stepps Pocket Guide 2.0 UTSouthwestern 22 21

SBAR

- Situation (a concise statement of the problem)
- · Background (pertinent and brief information related to the situation)
- · Assessment (analysis and considerations of options what you found/think)
- · Recommendation (action requested/recommended what you want)

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I PASS the BATON "I PASS THE BATON" Introduce yourself and yo role/job (include patient) Ρ Α Current status/circumstances including code status, level of (un)certainty, recent changes, s s afety allergies, and isolation, etc. THE в A Explain what act taken or are requirationale. Level of urgency and expli-timing and prioritization of actions т 0 N Team Stepps Pocket Guide 2.0 UT Southwestern 23

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HOW CAN I USE THIS ON ROTATIONS?

- Standardized handoffs aren't universally adapted, be prepared to encounter a wide variety of handoffs: good and bad
 - Try implementing SBAR, IPASS BATON & Check-back into your handoffs
 - Many of your residents, attendings, and clinical staff may not be aware of these tools, try discussing the pros & cons of these methods with them
- Be proactive when you see potentially dangerous or ineffective handoffs using TeamSTEPPS[®]20
 - · Two-Challenge Rule voice your concern at least two times
 - CUS I am C oncerned, I am U ncomfortable, there is a S afety issue
 - DESC script Describe, Express, Suggest alternatives, Consequences

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Handoff Scenario 1

JT is a 10 yo M with a history of ALL on induction chemotherapy who was admitted for febrile neutropenia. Patient was last seen in oncology clinic 6 days ago for chemotherapy. The patient was at baseline level of health until early this morning when he woke up with a fever. Per the patient's mom, his fever spiked up to 102F. He was also having night sweats. She brought him to the hospital right away and has not given him any medicines. He has had a dry cough and rhinorrhea for the past two days. His younger brother has recently gotten over a cold.

On admission, he was febrile to 101F, other vital signs were normal. On exam he had a cough and rhinorrhea; otherwise, exam was normal. He was started on empiric piperacillin/tazobactam. Blood cultures were drawn, a respiratory viral panel was sent, and CXR was obtained; results are not back. He is being handed off from the resident on the night team to the resident on the day team.

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Handoff Scenario 2

SB is a 65 yo F with a history of HTN and DM2 c/b diabetic retinopathy. She presents to ophthalmology clinic for an annual check-up. While the nurse is taking her admission vitals, she is found to have a BP of 199/100. The nurse informs you of her elevated pressure, so you decide to repeat the measurement manually. Your manual measurement shows a pressure of 208/104.

You ask the patient about her blood pressure and she states that she ran out of her blood pressure mediations last week and hasn't been able to go to pharmacy to refill them because she didn't have any transportation. She denies a headache, vision changes, chest pain, dyspnea, or nausea and states she feels normal. Upon further reflection, she mentions that she did have some numbness in her L arm and leg yesterday for a few seconds, but it went away on its own. You decide to send the patient to the ER and call the ER physician to let inform them about the patient arriving

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Setting - Noisy, chaotic?

- No interruptions, silent Communication

Not face-to-face; understanding not confirmed; no time for questions; responsibility for tasks unclear; - Face-to-face; confirms understanding; elicits questions; assigns responsibility for tasks;

concrete language Content

 Information omitted or irrelevant; omits clinical condition: to dos lack plan/rationale Incl all essential info; describes

clinical condition; to dos have plan/ rationale

Clinical judgment

- No recognition of sick patients: no anticipatory guidance - Sick patients identified; anticipatory guidance provided with plan of action

Humanistic qualities/professionalism - Hurried, inattentive; inappropriate - Focused on task; appropriate

comments

Setting - Noisy, chaotic?

- No interruptions, silent
- Communication
- No interaction; no questioning; no read-back
 - Face-to-face sign out; asks questions; read back of assigned tasks: concrete language

Clinical judgment

- No recognition of sick patients; no anticipatory guidance - Sick patients identified; anticipatory guidance provided with plan of action
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Noisy, chaotic?

language

Clinical judgment

comments

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anticipatory guidance

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read back of assigned tasks; concrete

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Sick patients identified; anticipatory

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- Focused on task; appropriate

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comments

Setting

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Handoff Scenario 3

MS is a 72 yo F with a history of stable angina, HTN, DM2, and osteoarthritis. She is a retired school teacher. She lives alone with her dog Ginger and is very independent. She was shoveling snow on Monday morning after the big storm. While shoveling she developed a crushing sensation in her chest. She takes an aspirin every day at home and keeps nitroglycerin tabs in her pocket "just in case". MS took a nitroglycerin tab and an aspirin and drove herself to the hospital. She was admitted to the hospital on Monday afternoon with chest pain, rule out myocardial infarction.

She has been a patient on cardiology for 4 days now. She has had no chest pain since Monday and has been ruled out for a heart attack. She has a IV of . 9NS and expects to go home tomorrow morning. You go to visit MS in the afternoon. While you are talking to her, she states that she is having crushing chest pain and rates it a 9/10 on the pain scale. She is very anxious and diaphoretic and states she feels terrible. HR 120. BP 100/60. RR 21. SpO2 94%. You believe she has symptoms of ACS. You panic and are unsure of what to do and the nurse is not near the room, so you call for the Rapid Response Team.

Setting - Noisy, chaotic? - No interruptions, silent Communication Not face-to-face; understanding

not confirmed; no time for questions; responsibility for tasks unclear; - Face-to-face; confirms

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Content

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- Clinical judgment No recognition of sick patients; no anticipatory guidance - Sick patients identified;
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Communication read-back



