Standardized Patient Sign-Out in the Emergency Department





BACKGROUND

•Transition of care represents one of the most common and dangerous occurrences in an emergency department (ED).

•Miscommunication is the cause of 70% of sentinel events and 84% of treatment delays, and occurs in nearly 80% of medicolegal cases.¹ •24% of ED malpractice claims specifically implicate patient sign-out.¹ The Accreditation Council for Graduate Medical Education requires that "[Residency] Programs, in

partnership with their Sponsoring Institutions, must ensure and monitor effective, structured hand-over processes to facilitate both continuity of care and patient safety."²

•At ECU, emergency medicine (EM) and emergency medicine/internal medicine (EM/IM) resident physicians (residents) receive training on signouts, but a system is not uniformly and consistently used by all providers.

PROJECT AIM

Resident physicians in the emergency department use a standardized patient sign-out format 50% of the time in 8 months.

PROJECT DESIGN/STRATEGY

The project targets EM and EM/IM residents at ECU/Vidant.

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CHANGES MADE (PDSA CYCLES)

1.	May 2019 – Presentation given at reside transition of care in the ED, and small gr of factors affecting "Standardized Reside
2.	July 2019 – For 2 weeks, residents were handoff system and anonymously provid
3.	12/18/2019-01/20/2020 – Anonymous Q perception of current sign-outs.

RESULTS/OUTCOMES

•From the fishbone diagrams, the most commonly identified factors affecting patient sign-out in the ED were resident experience level, attending influence, sign-out notes by off-going residents, workroom size, number of computers, interruptions, patient complexity, stage of workup, and disposition status.

•Perceived benefits of I-PASS were focused on the thoroughness of sign-out.

•Perceived drawbacks of I-PASS were length of time required for sign-out, redundancy of the system, and difficulty remembering each part of the system.

•30 residents (62.5%; 11 PGY-1; 10 PGY-2; 9 PGY-3, -4, or -5) responded to the Qualtrics survey, with results to some questions displayed below.



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e encouraged to use the I-PASS de feedback on the method.

Qualtrics survey assessing resident

•Resident dissatisfaction with a standardized sign-out appears to be due to the increased length of time required for sign-out.

•A majority of residents believe that standardized sign-out would improve patient safety and information transfer.

•An unexpected complication during the I-PASS PDSA cycle was the requirement for attending physician buy-in because residents and attendings currently perform morning sign-out together.

•Residents indicate that environmental factors influence sign-out, which could be a potential target for QI.

NEXT STEPS

•Random sampling of sign-outs to measure time spent per patient (in process).

 Assess feasibility of environmental changes to improve sign-out.

•Provide residents options on what they would like to have implemented.

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LESSONS LEARNED

REFERENCES

1. Cheung DS, Kelly JJ, Beach C, et al. Improving Handoffs in the Emergency Department. Ann Emerg Med. 2010;55(2):171-80.

2. Accreditation Council for Graduate Medical Education. ACGME Common Program Requirements (Residency). [Accessed Dec 2019]. Available at:

https://www.acgme.org/Portals/0/PFAssets/ProgramRequirements/CPRResidency2019.pdf.

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