

Implementing “At-the-Elbow” Training in the Emergency Department: Feasibility, Outcomes, and Lessons

Alexandra Morena, BS, Celine Larkin, PhD, Esther Boama-Nyarko, MPH, John Davey, BS, Edwin D. Boudreaux, PhD
University of Massachusetts Medical School, Department of Emergency Medicine

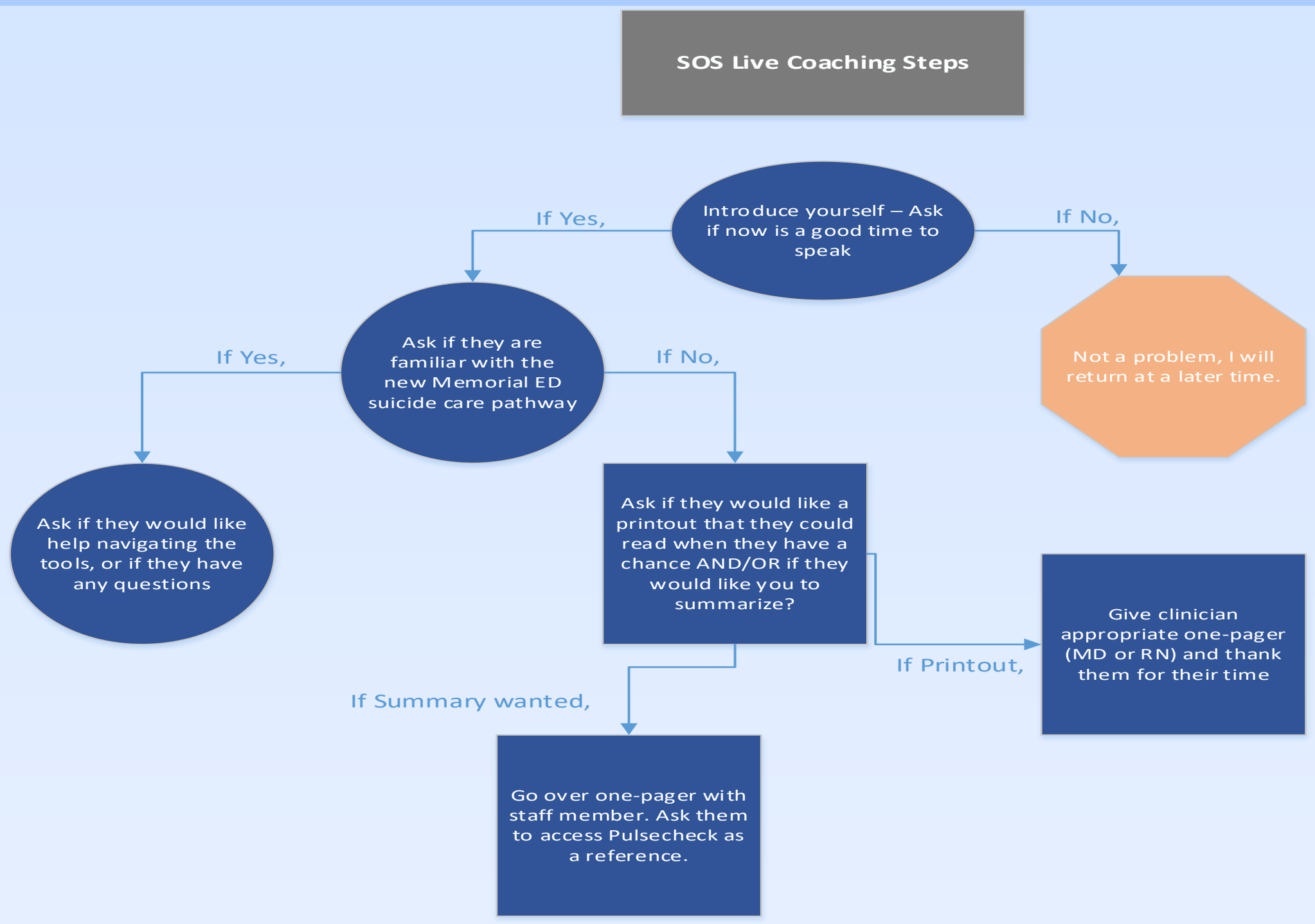
Introduction

- Suicide is the 10th leading cause of death in the United States and accounts for 1.2% of deaths annually¹
- Often times, individuals who die by suicide will present to an Emergency Department (ED) or primary care setting in the year prior to death²
- By implementing universal screening for suicide risk in the ED, the system successfully identifies patients with suicide risk incidental to their clinical presentation³
- Such patients are important to identify, because they are often missed and do not receive any additional assessment or resources regarding suicide⁴
- In other healthcare systems, due to lack of training nurses reported feeling unequipped to screen and evaluate patients for suicide risk⁵
- Investing in training ED physicians, nurses, and residents to screen and assess suicide risk can further improve suicide prevention efforts
- The current continuous quality improvement (CQI) project, System of Safety (SOS) implemented “at-the-elbow” training to train ED providers on screening for suicide risk, suicide prevention tools in the EHR, and clinical workflows for this population

Methods

“At-the-Elbow” Training

- Training for encapsulated review of suicide-related tools in the EHR, including discharge instructions and the “*MD Secondary Screener*”.
- Nurse training focused on the ***Patient Safety Screener 3*** (PSS-3), three screening questions designed to be administered to patients during triage to help determine the level of patient suicide risk (imminent vs. moderate vs. low risk).



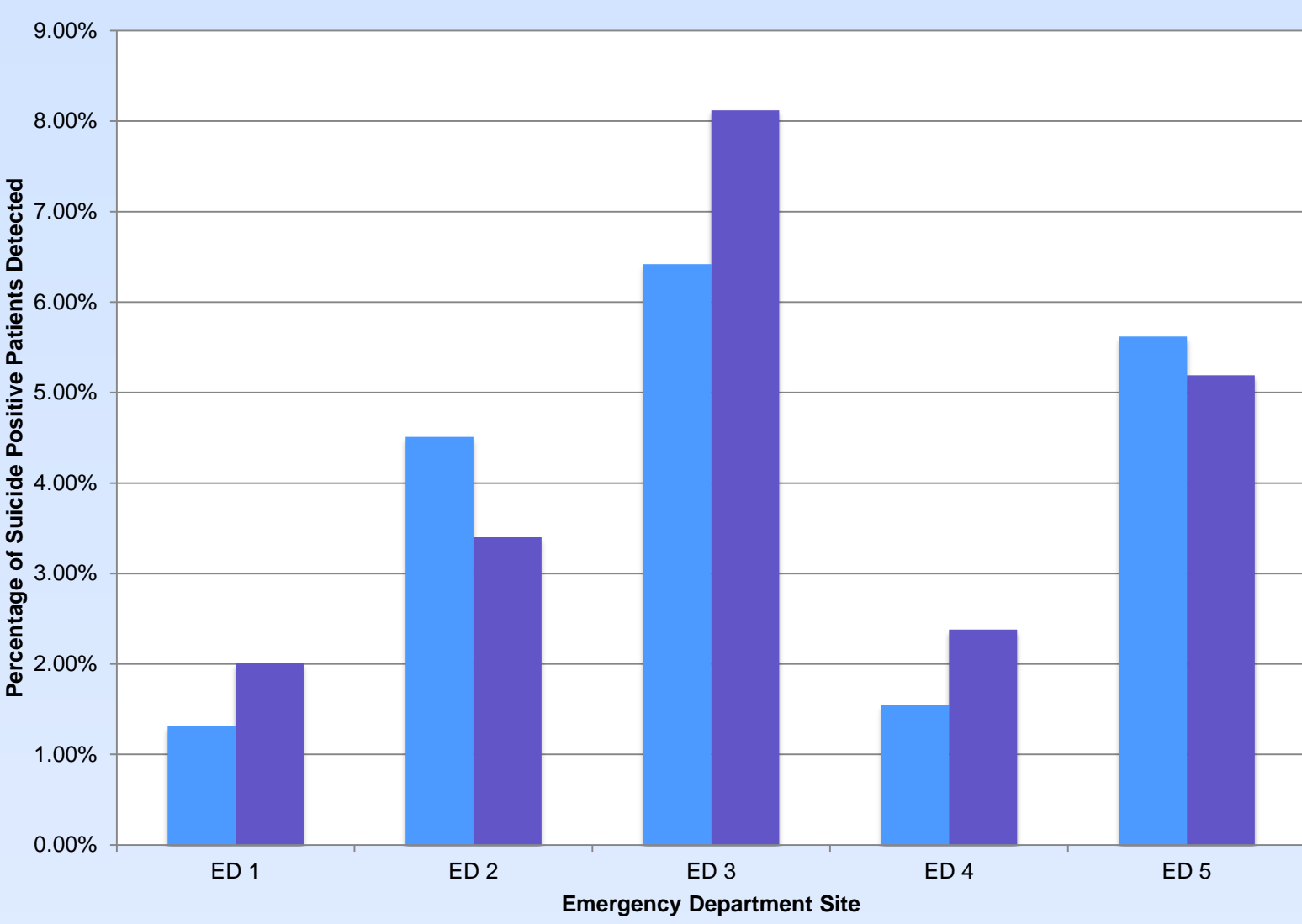
Data Collection

- A data visualization application, Tableau, was programmed to extract data directly from the EHR, to measure suicide-positive detection rates and physician secondary screener completion.
- Training logs were completed following every shift, and were used to identify barriers to training and lessons learned.

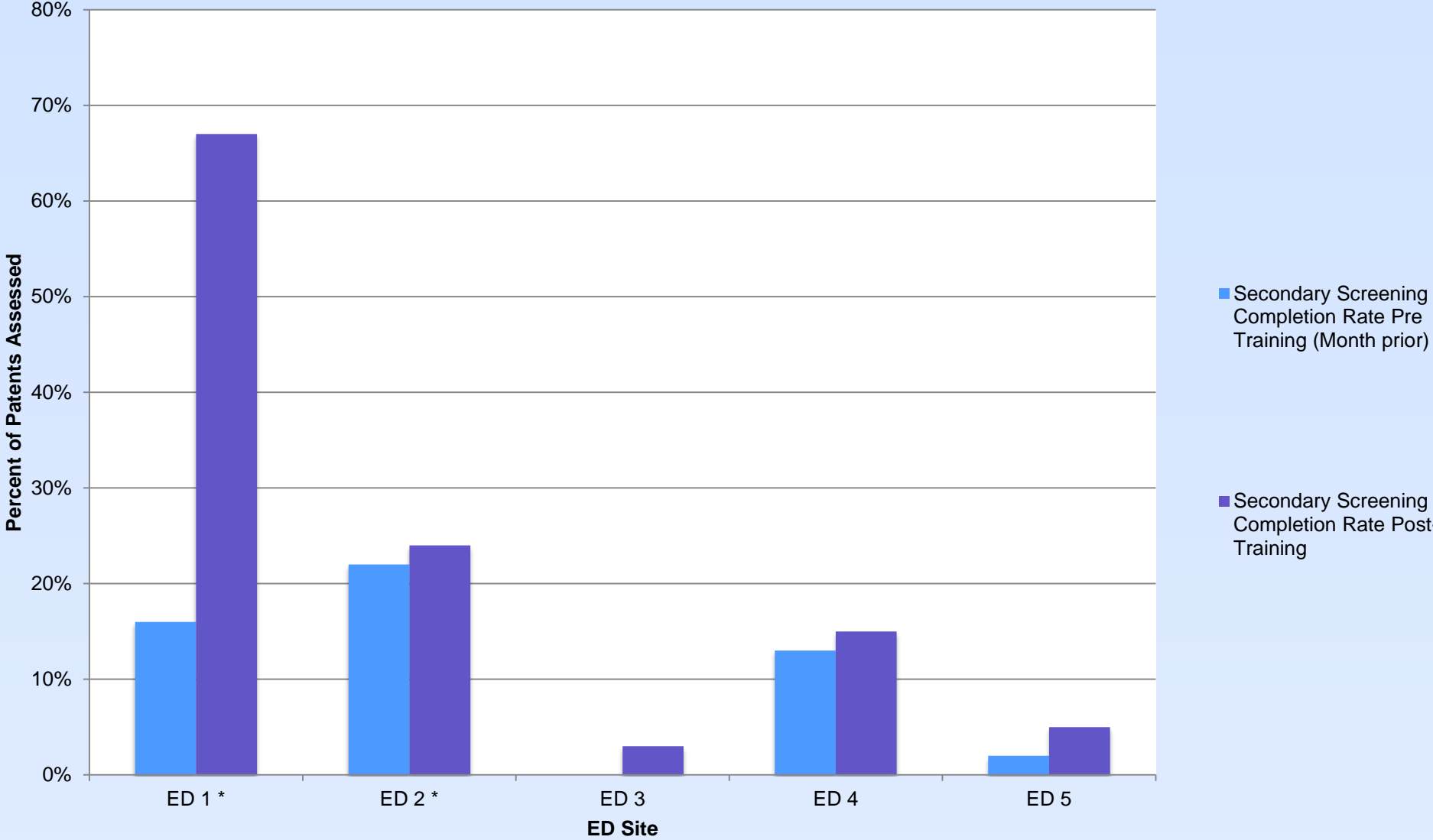
Results

- 207 ED clinicians (79 physicians, 32 residents, and approximately 96 nurses) were trained across all sites. Trainers successfully reached 79 of 104 attending physicians (76%) across all sites.
- 3 of 5 sites (60%) had an increase in positive suicide-risk detection post-training; all 5 sites (100%) had an increase in physician secondary suicide assessment completion post-training.

Suicide Risk Detection Rates Pre and Post Training



Secondary Screener Completion Rates Pre and Post Training



Discussion

By implementing “At-the-Elbow” training, research staff raised awareness of suicide-related tools in the EHR and educated clinical staff about current suicide-related best care practices, which ultimately increased staff buy-in to actually utilize these tools. Daily engagement with clinical staff during the training period also allowed for rapid problem resolution whenever certain questions or fallacies emerged regarding the suicide-prevention initiative. Trainers were generally well-received by fellow clinical staff, and were readily available whenever any questions arose during a training shift.

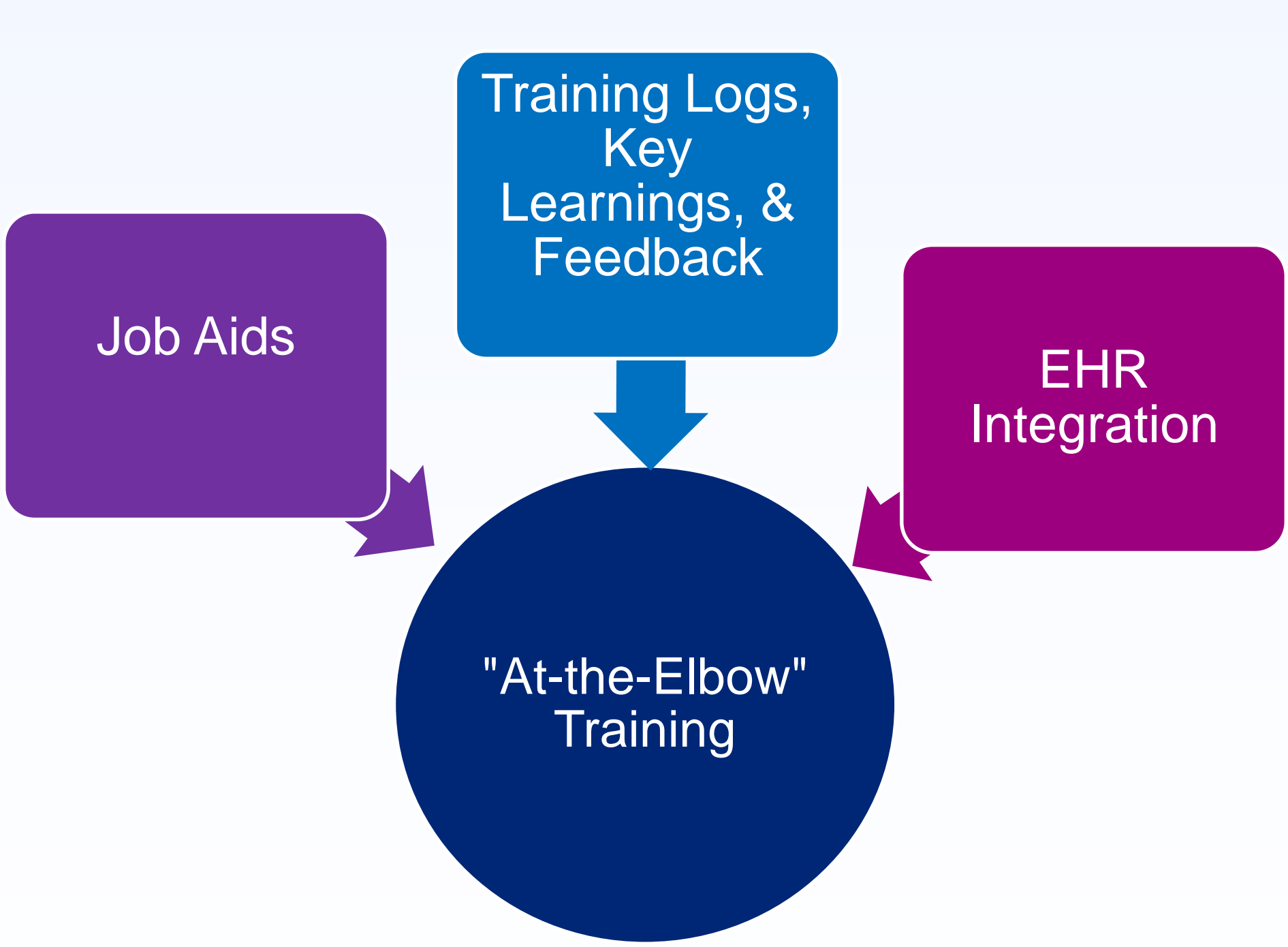
Although in-person training in the ED environment proved to be impactful, there were time and environmental impediments that made the at-the-elbow approach cumbersome for training staff. Physicians often had to be approached multiple times a shift in order to complete the brief training, and some were not available at all due to demands of a busy ED. Approaching physicians multiple times was very resource intensive for trainers, as a lot of time was used to approach the same staff member repeatedly.




One of the largest barriers identified through nurse training interaction was the lack of previous training around the screening tool, the PSS-3. Many nurses expressed that they never received training on how to ask these sensitive questions to patients, and did not feel confident administering these questions as they were presented in the EHR. Additionally, once a patient was deemed a positive screen, there was confusion around the appropriate pathway for that patient. Often, the threshold for suicide-risk is rather low, so it is common for patients with low to moderate suicide risk to be placed on constant observation and receive an Emergency Mental Health evaluation, even when it is not necessary for the patient. Although our training approach was beneficial, a more structured screening training is needed.

References

1. Miller IW, Camargo CA, Arias SA, Sullivan AF, Allen MH, Goldstein AB, Manton AP, Espinola JA, Jones R, Hasegawa K, Boudreaux ED, . Suicide Prevention in an Emergency Department Population. The ED-SAFE Study. *JAMA Psychiatry*. 2017;74(6):563–570. doi:10.1001/jamapsychiatry.2017.0678
2. Ahmedani, B. K., Simon, G. E., Beck, A., Waitzfelder, B. E., Rossom, R., Lynch, F., . . . Solberg, L. I. (2014). Health care contacts in the year before suicide death. *J gen Intern Med*, 29(6), 870-877. doi:10.1007/s11606-014-2767-3
3. Claassen, C. A., & Larkin, G. L. (2005). Occult suicidality in an emergency department population. *The British Journal of Psychiatry*, 186(4), 352-353.
4. Joint Commission. (2016). Sentinel Event Alert 56: detecting and treating suicide ideation in all settings. The Joint Commission.
5. Bolster, C., Holliday, C., Oneal, G., & Shaw, M. (2015). Suicide assessment and nurses: what does the evidence show. *Online journal of issues in nursing*, 20(2).

Training Components



SCREEN	<ul style="list-style-type: none"> ● RN screens during triage, determines Path, and verbally reports risk to treating RN and MD (if Path 1 or 2) ● MD adjusts Path, if needed, and communicates change to RN 		POSITIVE SCREEN: <ul style="list-style-type: none"> ● Depressed in past 2 weeks OR ● SI in past 2 wks OR ● SA in past 6 mos OR ● Presenting with SI/SA as part of complaint ● Other clinical judgment suggesting risk
PATH 1	SI/SA PRESENT TODAY, HIGH RISK <ul style="list-style-type: none"> ● Explain actions (what, why), be compassionate ● Complete suicide risk eval with patient/family. ● Order psychiatric evaluation (EMH Read) 		<ul style="list-style-type: none"> ● Revise safety precautions, as needed ● If DC'd: Confirm safety plan created by CHL ● Report risk: shift report, during admit
PATH 2	SI PAST 2 WKS OR SA PAST 6 MOS, NOT TODAY, MILD-MODERATE RISK <ul style="list-style-type: none"> ● Look for "SI, Path 2" comment section in pulsecheck ● Explain actions (what, why), be compassionate ● Complete suicide risk eval with patient/family 		<ul style="list-style-type: none"> ● MD Secondary Screening Tool in HPI (Optional) ● Report risk: shift report, during admit ● Consider Psych/Social services ● If DC'd: Order "Suicidal Feelings" DCI, MH Resource list
PATH 3	DEPRESSION ONLY, LOW RISK <ul style="list-style-type: none"> ● Assess psychosocial history per usual care 		<ul style="list-style-type: none"> ● If DC'd: Order "Depression" DCI, MH Resource list
WHY DO THIS?	<p>Universal Suicide Risk Screening Saves Lives! People who die by suicide often are treated in an ED shortly before their death but their risk does undetected. Screening helps improve detection of "hidden" risk so these patients can receive the help they need.</p> <p>Risk Screening does not Cause Massive Delays! Not every new detection of suicide risk needs a mental health evaluation during ED visit. The MD determines acute risk & acts accordingly, with many receiving simple interventions, like education and MH resources.</p> <p>Safety planning is an evidence-informed, best-practice treatment. Those with mild-moderate risk who are discharged can have a strong plan for what to do if their suicidal thoughts return.</p>		
 <div style="display: inline-block; vertical-align: middle; text-align: center;">  <p>MD Guidance (v2, 6/13/17)</p> </div> <div style="display: inline-block; vertical-align: middle; text-align: center;">  </div>			