

BREAKOUT SESSION



OCTOBER 28-30, 2024

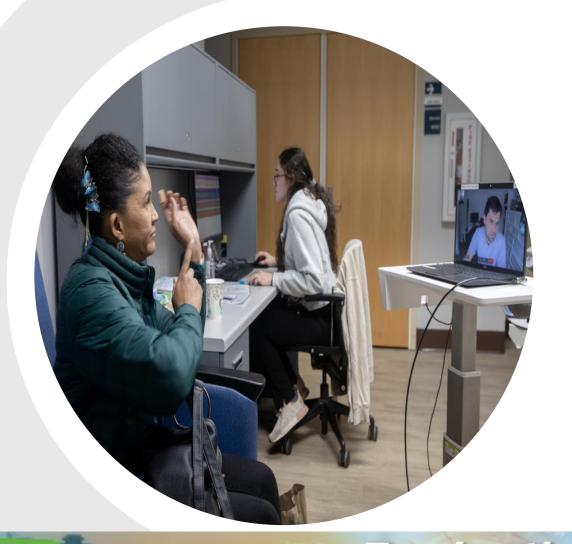
Business and Leadership Track:

Virtual Provider in Triage: Transforming the ED Arrival Workflow for Enhanced Efficiency, Quality, and Cost-Effectiveness

Tuesday, October 29 3:30 PM - 4:15 PM



Marc Bartman, MD, FACEP Medical University of South Carolina









VIRTUAL PROVIDER IN TRIAGE



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LOCAL NEWS

Massachusetts General Hospital in "fullblown crisis" for patients looking for emergency care

BIRMINGHAM NEWS •

UAB: Emergency department crowding has reached a 'crisis point' YaleNews **EXPLORE TOPICS** ▼

Published: Apr. 25, 2023, 12:47 p.m.

Home / News / Health News / Crowded ERs Point to a Hous.

COMMENTARY

Emergency department crowding hits crisis levels, risking patient safety

In two studies, Yale researchers describe widespread, worsening emergency department boarding and crowding. It puts patient safety and access to care at risk.

Overflowing Emergency Departments Highlight U.S. Medicine's House of Cards

Emergency room crowding is a critical safety issue with cascading consequences for patients and providers alike.





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ED CROWDING

The need for emergency services exceeds available resources for patient care in the ED, hospital, or both

Causes are multifactorial and span the entire health care delivery system.

- Continued growth in ED visits, outpacing population growth
- Advanced population age
- Increasing patient acuity requiring more complex evaluation and treatment plans that increase the ED and inpatient lengths of stay
- Decreased number of hospitals and available inpatient beds





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ED CROWDING



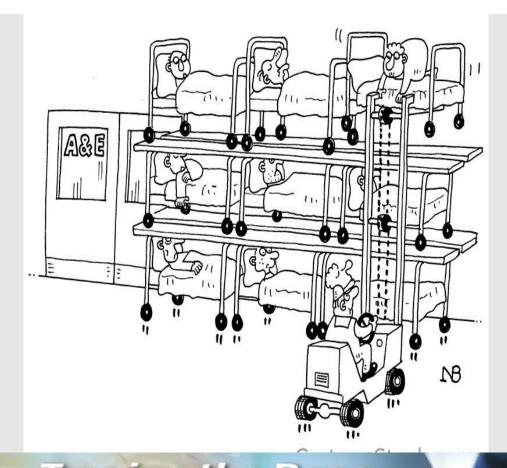
EMERGENCY DEPARTMENT

1992

89.8 M visits

2023

140+ M visits





HOSPITAL

1975

7,156 Hospitals
1.5 M Inpatient Beds

2024

6,120 Hospitals 916,752 Inpatient Beds



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BOARDING

The strain on hospital inpatient bed capacity creates downstream pressure to board admitted patients in the ED

Boarders utilize ED space and resources

- Beds
- Nursing care
- Ancillary and support services

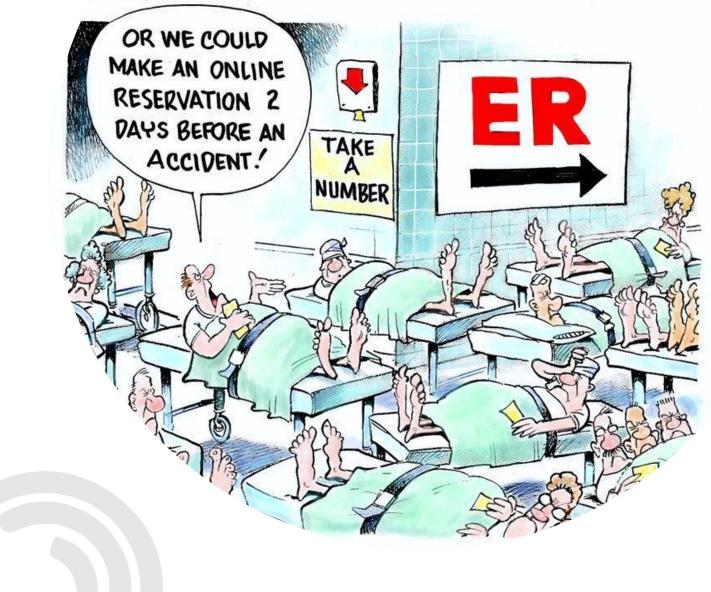




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ED CROWDING

- Significant delay in evaluation and treatment of emergency patients
- Patients leaving prior to completion of medical workup
- Increased morbidity and mortality for **ALL ED patients**
- Decreased patient satisfaction
- Reputation damage for the entire institution





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LWBS

- Patients that leave the ED before a MSE (medical screening exam)
- National average 3% ≈ 4.2 million visits/year
- South Carolina average 3%





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CMS



Requires hospitals with emergency departments to provide a medical screening examination to any individual who comes to the emergency department and requests such an examination and prohibits hospitals with emergency departments from refusing to examine or treat individuals with an emergency medical condition. The term "hospital" includes critical access hospitals.





CMS QUALITY INDICATORS/TIMELY AND EFFECTIVE CARE

Timely and effective care in hospital emergency departments is essential for good patient outcomes. Delays before getting care in the emergency department can reduce the quality of care and increase risks and discomfort for patients with serious illnesses or injuries. Waiting times at different hospitals can vary widely, depending on the number of patients seen, staffing levels, efficiency, admitting procedures, or the availability of inpatient beds.



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Percentage of patients who left the emergency department before being seen

♣ Lower percentages are better

5%

of 91309 patients

National average: 3% 25,26

South Carolina average:

3% 25,26

Percentage of patients who came to the emergency department with stroke symptoms who received brain scan results within 45 minutes of arrival

♠ Higher percentages are better

86%

of 14 patients

National average: 69% 25

South Carolina average: 79% 25

Emergency department volume

Very High

60,000+ patients annually

Average (median) time patients spent in the emergency department before leaving from the visit

♣ A lower number of minutes is better

240 minutes

Other Very High volume hospitals:

Nation: 196 minutes 25,26

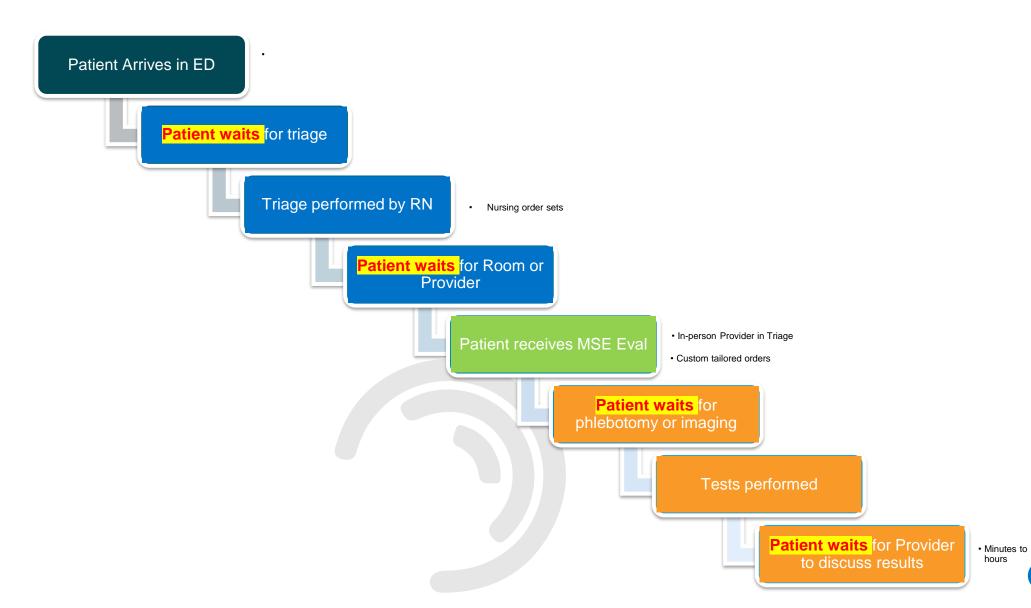
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ED ARRIVAL WORKFLOW



VPIT VALUE PROPOSITION

Decreased

- Door to provider time
- %LWBS
- Length of stay for lower acuity patients*

Improved

- Patient safety
- Patient engagement and satisfaction
- Utilization of existing resources

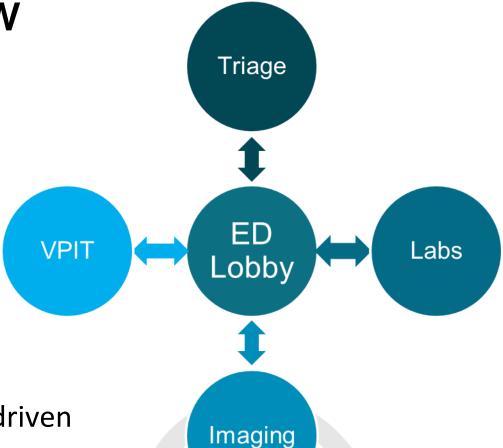
Recapture lost revenue





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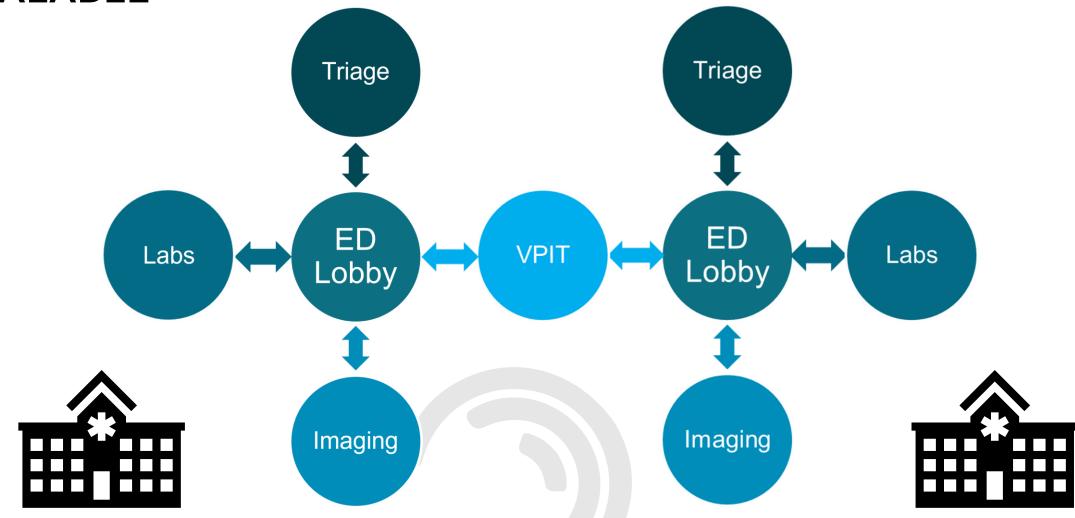




- Non-linear workflow
- Patient centric/task driven
- Optimized for efficiency



SCALABLE

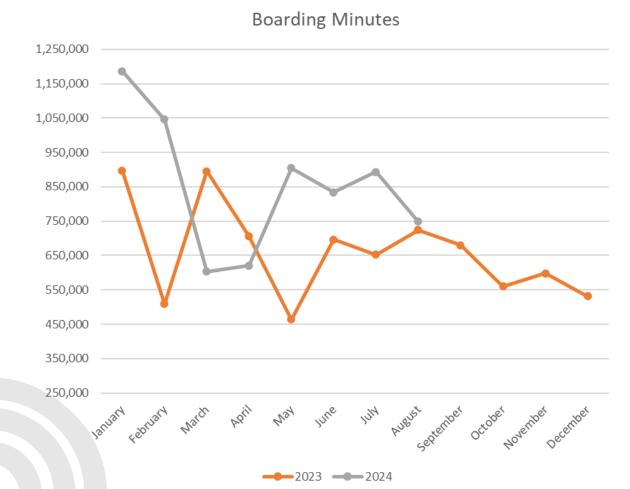




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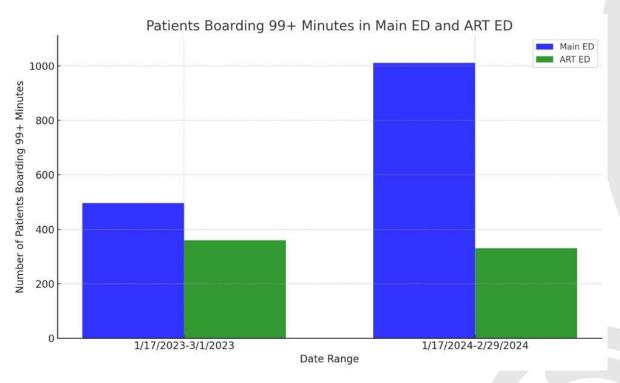
Patient Volume

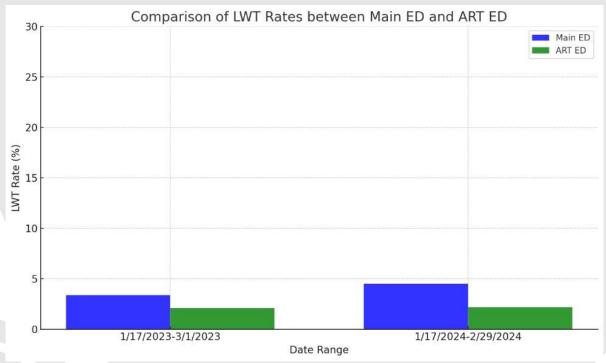
—2023 **—**2024





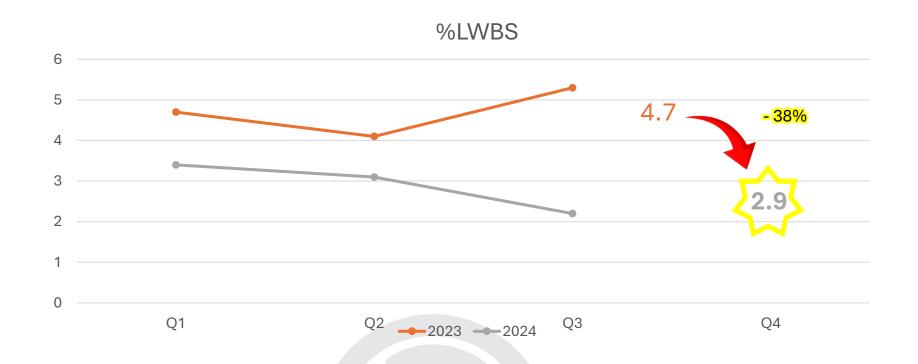
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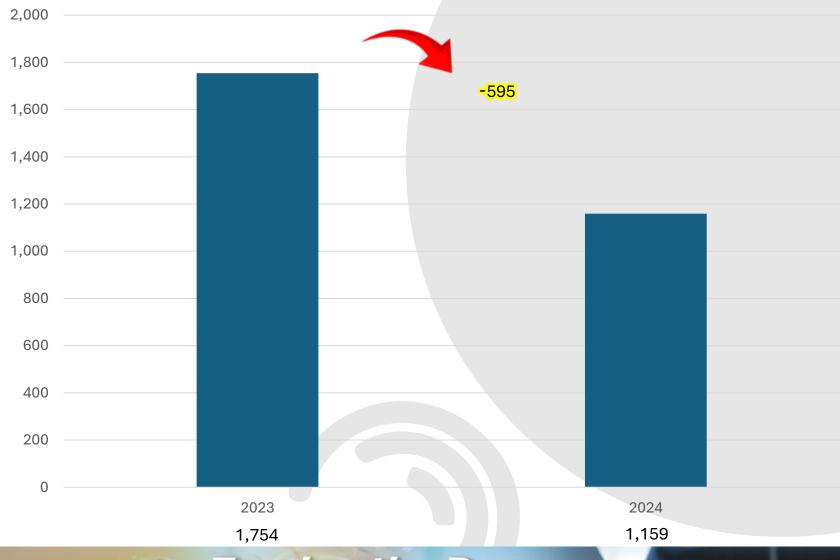
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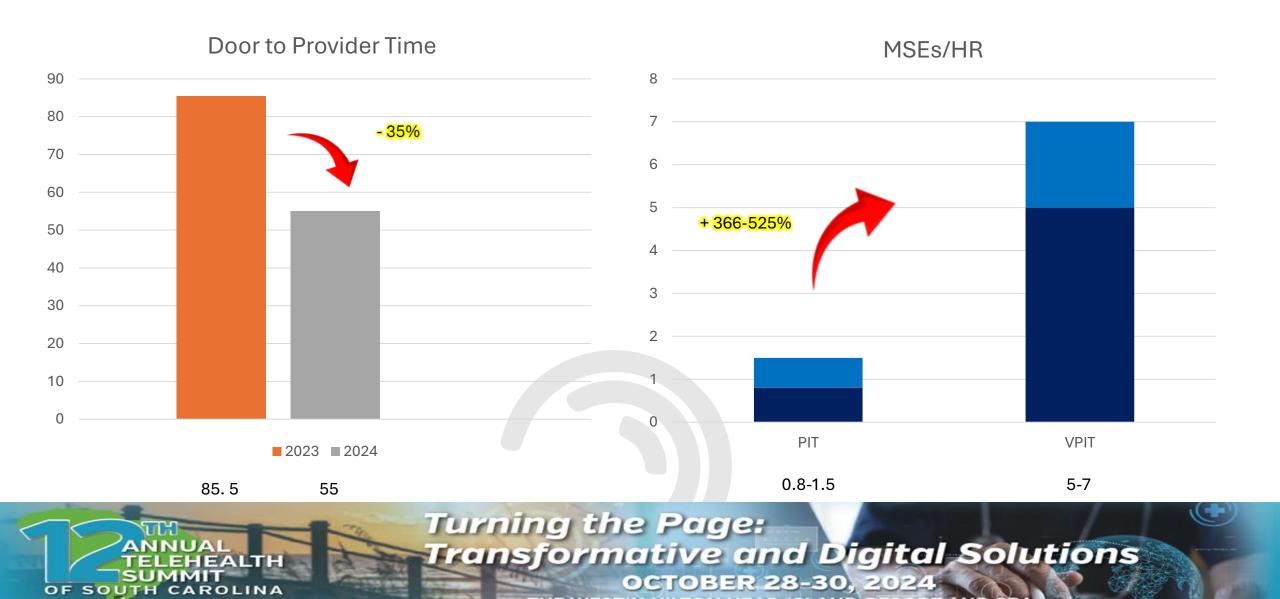
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Patients LWBS

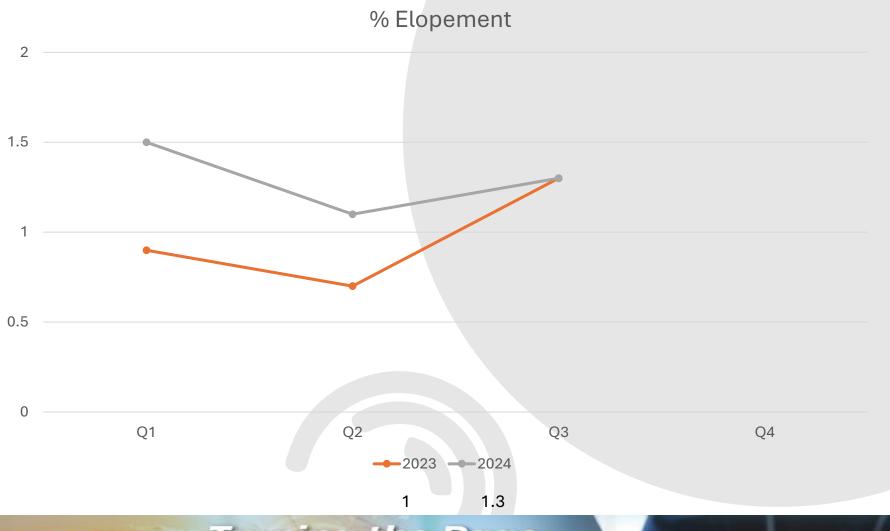




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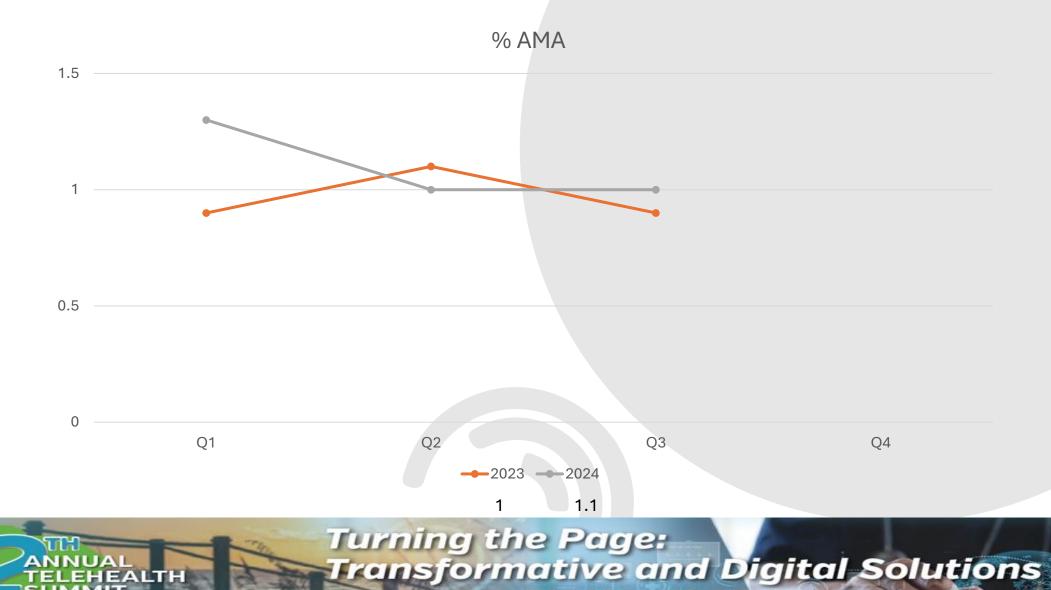


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VPIT Value Proposition

Improved Patient Experience

Engaged

Decreased door-to-provider time

Private assessment that establishes the provider-patient relationship early in the visit

Informed

Custom-tailored workup with a thorough explanation of what to expect

Updated

Automated and personalized messages to keep the patient engaged throughout their care journey.

PATIENT SATISFACTION METRICS

from our facility. Select the response that best describes your experience. If a question does not apply to you, please skip to the next question. Space is provided for you to comment on good or bad things that may have happened to you.		Please use black or blue ink to fill in the circle completely. Example:				
AI	RRIVAL	very poor	poor 2	fair	good 4	very good
1.	Comfort of the waiting area	0	0	0	0	0
2.	Waiting time before you were brought to the treatment area	0	0	0	0	0
Com	ments (describe good or bad experience):					

- Create a real-time survey that is VPIT specific
- Expand the survey to include all lobby issues with real-time service recovery by nurse quarterback/concierge
- Collaborate with Press Ganey to enhance the existing arrival questions, ensuring they accurately capture the impact of our services on the arrival process

VPIT Value Proposition

Improved Patient Safety and Outcomes

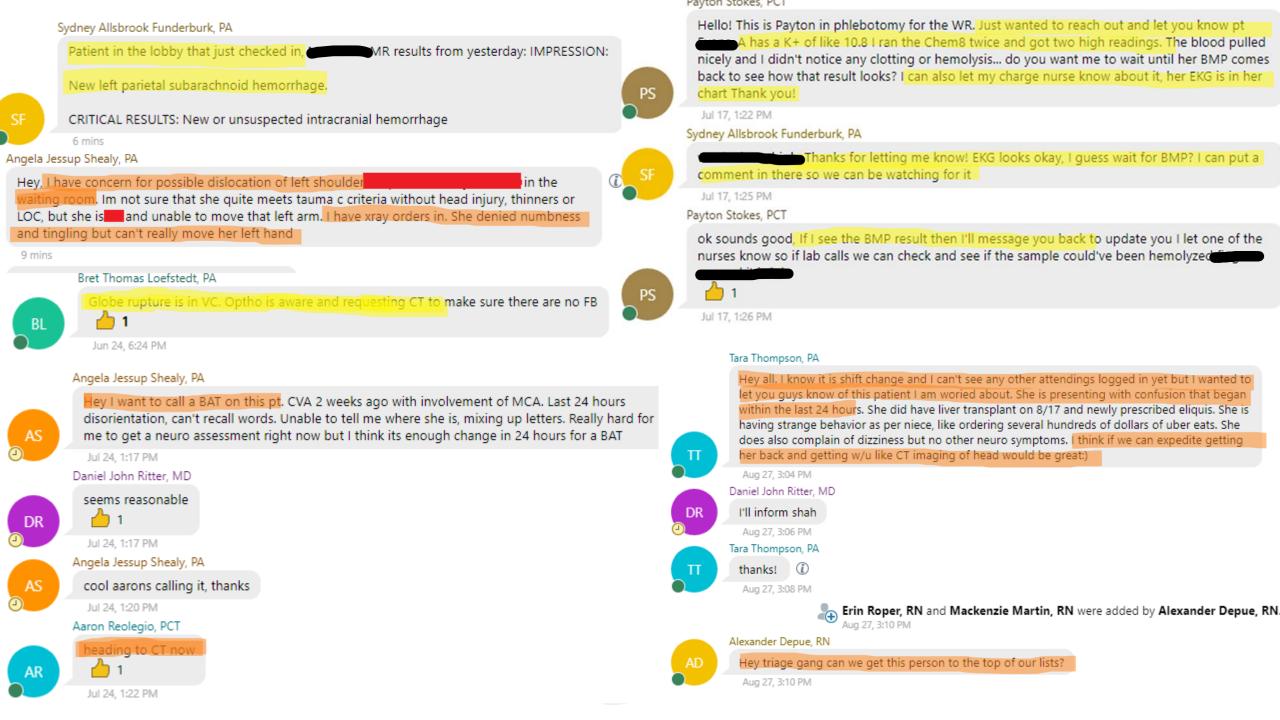
Enhanced Triage: Introduces an additional layer of triage in the waiting room to identify sick patients earlier, providing an extra level of assessment beyond the traditional nursing model

- The VPIT service has **expedited recognition of emergencies**. The VPIT provider can identify more subtle signs of disease that traditional triage may miss during the initial assessment. This added layer of expertise enhances overall safety.
- The VPIT service has identified **near misses** due to incorrect triaging by traditional triage or worsening patient's condition in the ED lobby.

Abnormal Test Results: In basket pool containing a daily report of any abnormal results from patients marked as eloped



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ROI

- Cost savings through optimized staffing efficiency
- PRecaptured revenue from the reduction of LWBS rates: both ED revenue (for discharged patients) and hospital revenue (for admitted patients) will be enhanced
- Increased admissions: Studies have shown that 10-17%* of patients that return to the ED after LWBS require admission to the hospital
- Preventing loss of downstream revenue from a new or established patient that leaves a health system as result of a negative ED encounter(s)





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QUESTIONS?





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THANKYOU!



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