

SPLIT-FLOW MODEL REDUCES ED WAIT TIMES AND THROUGHPUT

OVERVIEW

The emergency department (ED) at a South Carolina medical center faced a growing number of patients who were leaving without treatment, and for those who did stay, an increase in their length of stay before discharge. The hospital couldn't fully staff its 25-bed ED due to a lack of nursing support, and even though the implementation of a provider-in-triage (PIT) program had some impact on the number of patients who left without treatment, it was unable to meaningfully improve throughput without full-time nursing support. Further complicating the landscape in the short-term — though beneficial over the long-term for better data and insights — the simultaneous implementation of a new electronic medical record system further confounded challenges with enhancing efficiency. In collaboration with the hospital, Sound's Emergency Medicine (EM) practice set out to find additional solutions to improve throughput in the ED.

ED staffed beds: 25 | Inpatient beds: 247 | ED visits: 42,000 | Discharges: 25,079

OPPORTUNITY

Sound's EM medical director joined the hospital's emergency department committee to identify areas of opportunity and proactively develop solutions. One such solution was an increase in ED nursing staff, which allowed Sound's EM leaders to implement a split-flow or rapid-care model, customized to meet the unique needs of this hospital. The program diverts patients down one of two tracks based on acuity:

- Lower-acuity patients — those with mild, less acute conditions are sent to the fast-track area where they can be seen by a dedicated team, and diagnosed, treated, and discharged.
- Intermediate and Acute Care Area: cares for patients in need of higher acuity care, and management.

TRANSFORMATIVE CHANGE

This innovative approach to operationalizing a split-flow model rapidly improved door-to-clinician times and reduced overall wait times significantly on both sides — and saw far fewer patients walking out before being treated. Additionally, there was a meaningful increase in patient satisfaction.

- **Better patient flow.** With a lower-acuity waiting room and dedicated providers to discuss their results and treatment and discharge plans, patient waiting time has been cut in half and patients move more quickly and efficiently through the ED.
- **Better metrics for the hospital.** The hospital sees the benefit of staffing up and is happy with the improved performance, now more closely aligned with industry standards.
- **Better patient satisfaction.** Press-Ganey scores have improved. The ED team was able to show patients that their time is as valuable as the people treating them; in turn, patients were happier with their overall care experience.

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- **Better communication.** The Sound EM team meets weekly with the hospital staff to talk about what's going well, what could be better, and how to get there.
- **Better partnership.** The Sound EM team's collaboration with Sound hospitalists has also led to decreased admissions length of stay for patients, as the hospitalists play a critical role in moving that patient out of the ED and into a hospital bed, if needed.

KEY RESULTS

Given the struggles of emergency departments across the country, the improvements here stand out as remarkable among both the hospital leaders and clinicians. These numbers represent a willingness to recalibrate and innovate to solve seemingly intractable problems — and a trend toward greater patient satisfaction and a better overall experience. It also represents the hospital's ability to become more efficient in how it treats patients and, as a result, capture the once-lost revenue of a patient leaving without treatment to invest in its clinicians and the appropriate staffing to continue its success.

Within the first few months of 2024, results have improved significantly from 2023:

85%O/E LWOT
improvement**44%**O/E discharge LOS
improvement**56%**O/E admit LOS
improvement**\$3K to \$4K**facility revenue capture increase per
patient through recapture of LWOT

To learn more, reach out to
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