Delivery of Simulation Training for Critical Care

SaTH Improvement Hub

Theme | Critical Care Airway Study Day

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The Shrewsbury and Telford Hospital NHS Trust

REASON WHY?

Simulation training is essential to ensure Critical Care staff can safely manage airway emergencies and patient deterioration. It provides a realistic, controlled environment where staff can practise high-risk scenarios, build confidence, and strengthen teamwork without risk to patients.

SMART AIM

S SPECIFIC | M MEASUREABLE | A ACHIEVABLE | R RELEVANT | T TIME-BOUND

To deliver to the Critical Care Team, all four Critical Airway Study Days and increase their number of in-situ simulations and live drills across both sites by December 2025, thus improving Critical Care staff confidence in airway management and deteriorating patient situations.

PLAN

The plan was to strengthen Critical Care staff confidence in airway management and the management of deteriorating patients by delivering a combined programme of simulation-based education, including both Simulation Suite sessions and in-situ simulations with live, unannounced drills.

The plan was to run four Critical Airway Study Days with theory and aligned simulation scenarios, increasing in-situ simulations across both sites, collecting confidence and satisfaction data through Mentimeter, recording attendance, and working with Practice Education Facilitators to ensure scenarios remain relevant and challenging.

DO

The plan was implemented by delivering all **four** scheduled Critical Airway Study Days, attended by **51** staff.

In addition, we ran a programme of in-situ and live drill simulations with **32** participants.

Live drills were run without warning to simulate real emergencies.

Mentimeter was used for questionnaires and satisfaction surveys, attendance is recorded, and scenarios were adapted based on feedback.

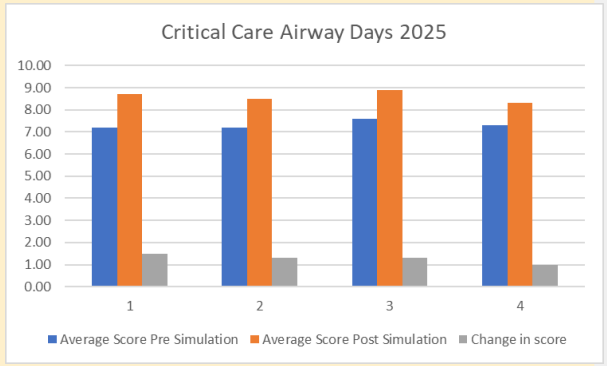
STUDY

Evaluation showed that simulation training, especially in-situ sessions and live drills, is highly valued by staff.

Data demonstrated improvements in airway management confidence, and satisfaction scores remain consistently high. Some sessions were unsuitable for metric collection but still generated useful qualitative feedback.

Cancellations were rare and mainly due to clinical pressures.

The combination of theory and simulation supported colleague skill and confidence development.



ACT

In 2026, we plan to deliver all four Critical Airway Study Days annually and increase the number of in-situ simulations and live drills across both sites.

We will further develop scenarios to increase complexity and challenge, by collaborating with Practice Education Facilitators and using ongoing staff feedback to refine simulation activities.

This will help ensure staff are prepared for real emergencies and HTP.

We will continue to strengthen our data-collection processes.

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