

SECURE (RAFT-5) Project Summary

Title	SECURE – Service Evaluation of Cross-Specialty UK Rapid sequence intubation (RSI) Events
Chief investigator	Dr Jonathan Barnes, Consultant Anaesthetist (UHBW)
Sponsor Site	University Hospitals Bristol and Weston NHS Foundation Trust (UHBW) – partnered with Bristol NHS Group
Study type	Service evaluation – UK-wide, multi-centre, prospective
Study setting	NHS Trusts in England, Wales, Scotland and Northern Ireland
Study sites	Single NHS hospitals
Eligibility	NHS hospitals with <u>at least one</u> of the following adult services: emergency medicine, critical care medicine and/or anaesthesia
Aims	To characterise in-hospital RSIs in adults across NHS hospitals
Objectives	<ul style="list-style-type: none"> Describe the availability of local resources surrounding RSI events Capture contemporary clinical practice around RSI events performed across all areas of the hospital by cross-specialty intubating teams Describe and estimate the incidence of immediate complications of RSI events Evaluate individual practitioners’ perspectives of RSI and self-reported practice using clinical vignettes Compare resources, self-reported practice and observed practice surrounding RSI events across the NHS and audit the findings against current recommendations
Data collection	Anonymised survey data will be collected using online forms and stored securely in a REDCap database hosted at the Sponsor Site (UHBW)

1. Site Survey	
Summary	Survey of RSI resources: infrastructure, equipment and governance – data will be entered by Site Leads
Study window	One month at all sites: 1st – 31st March 2026
2. Activity Survey	
Summary	Survey of actual “user-defined” RSI events and “immediate complications” – contemporaneous data will be entered by each intubating team
Study window	Continuous 14 days <i>agreed by leads</i> at each site: 13th April – 25th May 2026
Definitions	<p>User-defined: any intubation deemed to be an RSI (or modified RSI) by the intubating team that meets inclusion criteria</p> <p>Immediate complications: in the time period starting from induction and up to 30 minutes after the airway is secured</p>
Inclusion criteria	<p>RSI events meeting ALL the following criteria:</p> <ul style="list-style-type: none"> • In-hospital (within NHS hospital grounds) • Patients ≥18 years (known or believed) • By anaesthetic, emergency medicine and/or critical care teams <p>Repeat RSIs in the same patient will be included as a new event</p>
Exclusion criteria	<p>RSIs events meeting ANY of the following criteria:</p> <ul style="list-style-type: none"> • Out-of-hospital (outside NHS hospital grounds) • Patients <18 years of age (known or believed) • <u>Not</u> by anaesthetics, emergency medicine or critical care teams <p>Patients with a functioning tracheostomy in-situ</p> <p>Intubations during cardiac arrest</p>
3. Vignette-based Practitioner Survey	
Summary	Survey of individual practitioners’ perceptions of RSI – respondents must be airway trained (or competent) <u>and</u> involved in intubation decision-making
Study window	One month at all Sites: 1st – 30th June 2026