

Enhanced surgical safety checklist implementation to improve safety culture among surgical and anesthesiology residents in a Romanian tertiary hospital

Submission date 24/02/2026	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 26/02/2026	Overall study status Completed	☐ Statistical analysis plan ☐ Results
Last Edited 26/02/2026	Condition category Other	☐ Individual participant data ☒ Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)

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Additional identifiers**Study information****Scientific Title**

Enhanced surgical safety checklist implementation improves safety culture among surgical and anesthesiology residents: a prospective interventional study in a resource-limited tertiary hospital

Study objectives**Primary objective**

To determine whether an enhanced Surgical Safety Checklist implementation strategy improves safety culture perceptions (teamwork climate and safety climate SAQ domains) among surgical and anesthesiology residents after six months

Secondary objectives

1. To assess Surgical Safety Checklist compliance rates following enhanced implementation
2. To identify predictors of improvement in safety culture perceptions among residents

Ethics approval required

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Ethics approval(s)

approved 15/06/2024, Ethics Committee of the Emergency Clinical Hospital of Constanta (Bulevardul Tomis 145, Constanța, 900591, Romania; +40 241 503 245; spitaljudetean_cta@gmail.com), ref: 113/2024

Primary study design

Interventional

Allocation

Non-randomized controlled trial

Masking

Open (masking not used)

Control

Uncontrolled

Assignment

Single

Purpose

Health services research, This study aims to assess the impact of an enhanced Surgical Safety Checklist educational program on safety culture perceptions among surgical and anesthesiology residents.

Study type(s)**Health condition(s) or problem(s) studied**

Patient safety culture in surgical care

Interventions

Implementation of an enhanced Surgical Safety Checklist program including:
Interactive SSC training session (2-hour structured education with simulation scenarios).
Structured postoperative feedback forms completed by residents after procedures.
Biweekly interdisciplinary mentorship sessions with senior surgeons and anesthesiologists.

Duration of intervention: 6 months.

Intervention Type

Behavioural

Primary outcome(s)

1. Safety culture perceptions measured using Safety Attitudes Questionnaire (SAQ) teamwork climate and safety climate domain scores at Baseline (pre-intervention) and 6 months after implementation.

Key secondary outcome(s))**Completion date**

31/12/2024

Eligibility**Key inclusion criteria**

Surgical and anesthesiology-intensive care residents rotating in the operating theatre of a tertiary emergency hospital during the study period and providing written informed consent.

Healthy volunteers allowed

Yes

Age group

Adult

Lower age limit

24 years

Upper age limit

40 years

Sex

All

Total final enrolment

45

Key exclusion criteria

Prior formal Surgical Safety Checklist training or fewer than 10 operating theatre shifts during the study period.

Date of first enrolment

01/07/2024

Date of final enrolment

31/07/2024

Locations

Countries of recruitment

Romania

Sponsor information

Organisation

Ovidius University

ROR

<https://ror.org/050ccpd76>

Funder(s)

Funder type

Funder Name

Investigator initiated and funded

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not expected to be made available