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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

Registration date
26/02/2026

Overall study status
Completed

Last Edited
26/02/2026

Condition category
Other

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[_] Results
[_] Individual participant data
[X] Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific, Principal investigator, Public

Contact name
Dr Viorel Gherghina

ORCID ID
https://orcid.org/0000-0002-8695-6104

Contact details
Tomis 147 Bl A3 Sc C Ap 46
Constanta
Romania
900502
+40 745222615
viorel.gherghina@365365univ-ovidius.ro

Type(s)
Scientific

Contact name
Ms Iuliana Cîndea

Contact details
Faculty of Medicine, Ovidius University of Constanta
Constanta
Romania
900502
-
iulia.cindea@365univ-ovidius.ro

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
Ethics approval required

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