

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

<b>Submission date</b> 24/02/2026	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 26/02/2026	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 26/02/2026	<b>Condition category</b> Other	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific, Principal investigator, Public

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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

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