

Effectiveness of a structured educational intervention on registered nurses' knowledge, attitudes, and practices toward adherence to pressure injury prevention

Submission date 19/12/2025	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 05/01/2026	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 05/01/2026	Condition category Other	<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)

Principal investigator, Public, Scientific

Contact name

Mr Mousa Asiri

ORCID ID

<https://orcid.org/0000-0003-2119-1400>

Contact details

Saudi Arabia

Riyadh

Saudi Arabia

11411

+966 546668220

Maseri@psmmc.med.sa

Additional identifiers

Study information

Scientific Title

Effectiveness of a structured educational intervention on registered nurses' knowledge, attitudes, and practices toward adherence to pressure injury prevention: a two-arm randomized controlled trial

Study objectives

To assess the efficacy of a structured, evidence-based educational intervention on registered nurses' performance in pressure injury prevention relative to regular education.

Ethics approval required

Ethics approval required

Ethics approval(s)

approved 01/07/2025, Institutional Review Board of Prince Sultan Military Medical City (Saudi Arabia, Riyadh, 11411, Saudi Arabia; +966 546668220; ethical@psmmc.med.sa), ref: E-2601

Primary study design

Interventional

Allocation

Randomized controlled trial

Masking

Blinded (masking used)

Control

Placebo

Assignment

Parallel

Purpose

Prevention

Study type(s)

Health condition(s) or problem(s) studied

Registered nurses' knowledge, attitudes, and practices toward adherence to pressure injury prevention

Interventions

This study used a parallel-group, two-arm randomized controlled trial (RCT) to assess the efficacy of a structured educational intervention on registered nurses' knowledge, attitudes, and practices (KAP) regarding adherence to pressure injury prevention (Asiri et al., 2025). Nurses who met the eligibility criteria were randomly assigned in a 1:1 ratio to either an intervention group, which received a comprehensive, evidence-based program for pressure injury prevention education, or a control group, which received routine instruction (Houser & Oja, 2025; Potter et al., 2025). Randomization was performed using a computer-generated random sequence, with allocation concealment ensured by sequentially numbered, opaque, sealed envelopes (Clark et al., 2021). Participant blinding was impractical given the characteristics of the educational intervention; however, outcome evaluation and data analysis were conducted using standardized protocols to reduce bias (Melnik & Morrison-Beedy, 2018). The outcomes were

assessed at baseline for the intervention group and weekly for the routine group using validated instruments that evaluated knowledge, attitudes, and practices related to adherence to pressure injury prevention (Melnik & Morrison-Beedy, 2018). The trial was executed in compliance with Good Clinical Practice standards and is documented in accordance with the CONSORT guidelines for randomized controlled trials (Hopewell et al., 2025).

Intervention Type

Other

Primary outcome(s)

1. Nurses' adherence to pressure injury prevention measured using a validated adherence questionnaire (QARPPU) at baseline and immediately post-intervention

Key secondary outcome(s)

1. Nurses' knowledge of pressure injury prevention measured using the Pressure Ulcer Knowledge Assessment Tool (PUKAT-2) at baseline and immediately post-intervention

2. Nurses' self-reported pressure injury prevention practices measured using the Practice questionnaire (Thomas & Nain, 2023) at baseline and immediately post-intervention

Completion date

01/12/2025

Eligibility

Key inclusion criteria

1. Registered nurses who delivered direct patient care in the participating units
2. Minimum of one year of clinical experience in the nursing department of the same facility
3. Nurses are prepared to grant informed consent

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

22 years

Upper age limit

60 years

Sex

All

Total final enrolment

222

Key exclusion criteria

1. On prolonged leave during the research duration
2. Intended to relocate from the unit during subsequent evaluation
3. Had undergone similar organized pressure injury prevention training during the last six months
4. Did not provide direct care to patients

Date of first enrolment

15/07/2025

Date of final enrolment

15/07/2025

Locations

Countries of recruitment

Saudi Arabia

Study participating centre

Prince Sultan Military Medical City

Saudi Arabia

Riaydh

Saudi Arabia

11411

Sponsor information

Organisation

King Saud University

ROR

<https://ror.org/02f81g417>

Funder(s)

Funder type**Funder Name**

King Saud University

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not expected to be made available