

# Intensive care unit, cardiac care unit, and emergency department nurses' perceptions of medical device-related pressure injuries: a cross-sectional study.

Nassehi A<sup>1</sup>, Jafari M<sup>2</sup>, Rashvand F<sup>3</sup>, Rafiei H<sup>3</sup>, Hosseinpour F<sup>4</sup>, Shamekhi L<sup>4</sup>

## Affiliations

1. School of Nursing and Midwifery, Tehran University of Medical Sciences, Tehran, Iran.
2. School of Nursing and Midwifery, Bam University of Medical Sciences, Bam, Iran.
3. Social Determinants of Health Research Center, Research Institute for Prevention of Non-Communicable Diseases, Qazvin University of Medical Sciences, Qazvin, Iran.
4. Student Research Committee, Qazvin University of Medical Sciences, Qazvin, Iran.

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## Abstract

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### *Background*

Nurses' perception of medical device-related pressure injuries (MDRPIs) may affect their performance, but there is a lack of studies in this area.

### *Purpose*

The current study aimed to examine intensive care unit (ICU), cardiac care unit (CCU) and emergency department nurses' perception of proper prevention of MDRPIs and care for individuals with such injuries.

### *Methods*

This descriptive study was conducted in 4 general hospitals in Iran in 2021. All nurses (N = 310) working in ICUs, CCUs and emergency departments of these facilities were invited to complete a researcher-made demographic checklist and an 11-item questionnaire to assess attitudes toward

MDRPIs. The questionnaire item responses were scored from 1 (strongly agree) to 5 (strongly disagree) with the total score for the 11 items ranging from 11 to 55. A score of 11 to 25 was categorized as indicating a negative attitude toward proper prevention of MDRPIs and care for such patients; a score of 26 to 40 indicated a neutral attitude, and a score >40 indicated a positive attitude.

### *Results*

A total of 260 nurses fulfilled the data collection tool. The response rate was 83.8%. The mean total score of attitude toward MDRPIs was 41.7. No significant relationship was observed between the total score of nurses' attitudes and their demographic variables. Of the 260 participants, 159 stated they had not received any trainings on MDRPIs at nursing schools during their education, 212 stated they had not participated in any scientific workshops on MDRPIs, and 167 described their knowledge about the prevention and care of MDRPIs as insufficient.

### *Conclusion*

Among ICU, CCU, and emergency nurses in Iran, most had a positive attitude toward the prevention and care of MDRPIs, but steps should be taken to offer more opportunities for nurses to increase their knowledge in this area.