

WOUND HEALING AND CRITICAL CARE

February 23-24, 2023 | Dubai, UAE

Received date: 18-11-2022 | Accepted date: 23-11-2022 | Published date: 06-03-2023

Risk factors of hospital-acquired pressure ulcer among adult ICU patients in selected tertiary hospitals

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Aim: To identify risk factors and estimate in-hospital mortality rates, and approximate the lengths of ICU stays and health care costs of hospital acquired pressure ulcers (HAPUs) among adult ICU patients.

Method: A retrospective, cross-sectional, nested, case -control design was used to identify the HAPUs' risk factors and health care outcomes for adult ICU patients (n = 214) over 1 calendar year (January 1, 2019, to December 31, 2019) in two tertiary hospitals.

Results: HAPUs' risk factors included male gender (odds ratio [OR] = 0.37, p = 0.023), organ failure (OR = 3.2, p = 0.033), cancer (OR = 3.41, p = 0.049), CVA (OR = 12.33, p = 0.001), mechanical ventilator (OR = 9.64, p = 0.025) and ICU-LOS (OR = 1.24, p < 0.001). The in-hospital mortality rate for patients with HAPUs was 62.8%. HAPUs were associated with a 14-day increased length of stay. The extra direct health care costs due to HAPUs were 2,998 Rial for each HAPU case.

Conclusion: HAPUs among ICU patients constitute a significant healthcare problem associated with severe clinical consequences and result in substantial adverse healthcare out-

comes worldwide. Identifying the risk factors and the impact on the health care system is the foundation for preventing and managing HAPUs. Furthermore, the results of this study can be used as a reference baseline information for future national strategies to prevent HAPUs in ICU and other hospital units.

Recent Publications

1. Fatma Al-Mamari, Alderden, Jenny et al. "Risk Factors for Hospital-Acquired Pressure Injury in Surgical Critical Care Patients." *American journal of critical care : an official publication, American Association of Critical-Care Nurses* vol. 29,6 (2020): e128-e134. doi:10.4037/ajcc2020810

Biography

Fatma Al- Mamari has completed her MCS in adult acute care from Sultan Qaboos University, Oman. She worked as a wound care nurse at Sultan Qaboos University Hospital for the last13 years. She has two articles waiting for publication for a multicenter study about hospital-acquired pressure ulcer among adult ICU patients which conducted from 2021 to 2022.

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