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Testing the effectiveness of pressure injury bundle in adult intensive care: A cluster randomised controlled trial

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Pressure injuries (PIs) have been identified as a worldwide problem that contribute significantly to increasing health care costs, compromise an individual's health, and in some cases contribute to mortality. The intensive care context poses special challenges to preventing PIs developing due to the high acuity of patients and the highly invasive nature of interventions and therapies which critically-ill patients receive. In response to these challenges, we test the effectiveness of PI care bundle, to reduce the incidence of PIs in ICU in Saudi Arabia. This study was conducted in multicenter critical care units, Saudi Arabia. Of the 140 patients who admitted to ICUs during the enrolment period, 70 with 728 days of observation were in the control group and 70, with 784 days of observation, were in the intervention group, the mean age in control and intervention group was 52 and 47.5, respectively. Almost 71% of both groups were male. There was no significant differences between both groups in all demographic characteristics and all clinical characteristics except time in operation room. Survival was improved with the intervention, with 12 PIs among intervention group and 37 PIs among patients receiving standard skin care. The Poisson regression model infers that the rate of any new PIs in the intervention group is 70% lower in the intervention group than the control. Timely implementation of a bundle of measures to reduce PIs demonstrated a significant reduction in PIs development in Saudi Arabia ICU.

Biography

Nahla Tayyib has over 14 years of experience as a Registered Nurse. She has completed her PhD in Nursing in 2016 at Queensland University of Technology, Australia. She has worked as an Assistant Professor in Nursing Faculty at Umm al-Qura University, Saudi Arabia. Currently, she is a member of the Sigma Theta Tau International Honor Society of Nursing. Her research interest includes "Wounds, particularly pressure injury". She has nine published articles in this field.

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