



Original article

Epidemiological and Clinical Factors Associated with Early Mortality, in Critically Ill Patients-A cohort study

Dr. Priya M. Sinha¹, Dr. Kavya S. Kaur², Dr. Aman T. Gupta³

ABSTRACT

Background:

Critically ill patients admitted to the intensive care unit (ICU) often face a high risk of early mortality. This study aimed to investigate the epidemiological and clinical factors associated with early mortality in a cohort of critically ill patients.

Methods

This retrospective cohort study included 80 critically ill patients admitted to the ICU between 2000 and 2023. Demographic characteristics, comorbidities, and clinical outcomes were collected and analyzed to identify factors associated with early mortality.

Results

The overall mortality rate in the study cohort was 28%. The main factors contributing to early death were older age, male gender, and the presence of multiple comorbidities. Specifically, patients aged 65 years and above had a significantly higher mortality rate compared to younger patients (45% vs. 18%, $p < 0.001$). Male patients also had a higher mortality rate than female patients (33% vs. 22%, $p = 0.03$). Furthermore, the presence of two or more comorbidities was associated with a higher mortality risk (52% vs. 18% in patients with fewer than two comorbidities, $p < 0.001$).

Conclusion

Older age, male gender, and the presence of multiple comorbidities are important epidemiological and clinical factors associated with early mortality in critically ill patients. Identifying these risk factors can help guide the management and resource allocation for this vulnerable patient population.

Keywords: Critically ill patients, Intensive care unit, Early Mortality, risk factors.

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editor@clinician.site, support@clinician.site

Authors' Information:

1. MD, Internal Medicine, Shri Ramkrishna Institute of Medical Sciences and Vivekananda Hospital, Kolkata, India
2. MD, Anesthesiology and Critical Care, Indira Gandhi Medical College and Hospital, Shimla, India
3. MD, Anesthesiology and Critical Care Medicine, All India Institute of Medical Sciences, New Delhi, India

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