

POSTER PRESENTATION

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Short and long-term outcome of 75 or over aged patients admitted to intensive care unit (ICU): a single center, observational study

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Introduction

Age is considered an independent risk factor for short and long-term mortality of elderly ICU patients, when very elderly (≥85 years) and mid-elderly (75-84 years) populations are compared to young elderly (65-74 years) ones. However, it is not yet clear if this trend remains when very elderly are compared to mid-elderly populations.

Objectives

- a) To compare short (ICU and hospital) and long-term (6-months and 1-year) mortality of mid-elderly to very elderly patients and
- b) to evaluate the influence of patients' characteristics on mortality.

Methods

Single center, retrospective, observational study in an 8-bed adult general ICU (January 2011-June 2014). Patients \geq 75 years were divided into two age-groups, 75-84 and \geq 85 years old. Characteristics on ICU admission were recorded. Patients hospitalized \leq 48 hours were excluded. ICU, hospital, 6-months and 1-year after hospital discharge mortality were calculated. Univariate analysis for categorical variables was performed using Pearson's x2 or Fisher test and Student t-test for continuous data. Multivariate analysis of the time to ICU mortality was calculated using Cox regression model and for hospital, 6-months and 1-year mortality using logistic regression analysis. P value < 0.05 was considered significant.

Results

244 patients were included, 195 in the 75-84 and 49 in the ≥85 years group. Mortality rates for the two groups

were: ICU, 74/195 (37.9%) vs. 24/49 (49%) (p = 0.08), hospital, 23/121 (19%) vs. 5/25 (20%) (p = 0.90), 6-months, 15/95 (17%) vs. 4/20 (20%) (p = 0.74) and 1-year, 22/80 (27.5%) vs. 7/16 (20%) (p = 0.19), respectively. In multivariable analysis, patients with malignancy as reason for ICU admission had increased ICU mortality risk (HR:1.45; CI 95%, 1.02-2.05; p = 0.03). Patients with higher APACHE II score on ICU admission had more important 1-year mortality risk (OR:1.09; CI 95%, 1.016-1.16; p = 0.015).

Conclusions

More than one third of our ICU patients were mid- or very elderly. No difference was observed between the two age-groups considering short or long-term mortality. Malignancy as a reason for ICU admission and APACHE II score negatively influenced the ICU and 1-year mortality, respectively.

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