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### Ventilator associated infections in intensive care and mortality related to quick SOFA score at admission

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**Introduction:** This study aimed at determining the rate of transmission of nosocomial pathogens between mechanically ventilated patients in a ICU from the previous patient who was admitted in the same bed and mortality during stay in the ICU related to qSOFA score at admission.

**Methods:** The study prospectively enrolled patients from the 1<sup>st</sup> August to the 15<sup>th</sup> December 2017 admitted to the ICU at the Royal Hospital (Muscat, Oman). The patents were divided into three groups, group 1: first endotracheal culture after admission to ICU was negative, but the following endotracheal cultures were positive; group 2: first endotracheal culture after admission to ICU was positive; group3: All endotracheal cultures during the admission to ICU were negative.

**Results:** One hundred and six patients were included, 73 males and 33 females. The age range was 18-90 years with a median age of 77 years. A total of 220 endotracheal samples were obtained and 100 grew bacteria. The most common were ESBL *Klebsiella* (n=20), MDR *Pseudomonas* (n=17), MDR *Acinetobacter* (n=10) and CRE *Klebsiella* (n=3). Only 3 (2.8%) of the patients grew the same pathogen as the previous patient admitted in the same place or room.

**Conclusion:** In our settings, the rate of nosocomial infection transmission among our patients is low which can be explained by our effective infection control measures while ICU mortality rate is predicted by the qSOFA score at admission to the hospital.

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