VAP Rates Unchanged

In a research letter to JAMA Metersky and colleagues (1) report that ventilator-associated pneumonia (VAP) rates have remained near 10% since 2005. The authors reviewed Medicare Patient Safety Monitoring System (MPSMS) data on a representative sample of more than 86,000 critically ill patients treated at 1330 US hospitals between 2005 and 2013. To meet a diagnosis of VAP patients were required to have at least 2 days' ventilation in intensive care units; a chest radiograph with a new finding suggesting pneumonia; a physician diagnosis of pneumonia; and an order for antibiotics. VAP incidence was 10.8% (95% confidence interval, 7.4% - 14.4%) during 2005 to 2006 and 9.7% (95% confidence interval, 5.1% - 14.9%) during 2012 to 2013.

In contrast, data from the CDC’s National Healthcare Safety Network (NHSN) have shown declines in VAP rates of 71% and 62% in medical and surgical intensive care units, respectively, between 2006 and 2012 (2,3). "The most likely explanation for the discrepancy is thought to be bias in reporting to CDC by the hospitals," Dr. Metersky told Medscape Medical News (4). Dr. Charles S. Dela Cruz at Yale agrees. "Strict and varying VAP measure definitions and the hospital reporting mechanisms possibly contributed to the differences in rates," he said.

VAP has no standard definition and its diagnosis has considerable clinical variability. Other than removing the endotracheal tube as quickly as possible, VAP prevention guidelines are non- or weakly evidence-based (5). Furthermore, financial incentives from CMS for low VAP rates may have contributed to the bias in reporting (6).

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References
