

In Patients With Acute Brain Injury in the ICU, Does Low-Tidal-Volume Ventilation During the First Week Lower Mortality?

STUDY DESIGN

Secondary analysis of a prospective observational study of 1,510 patients

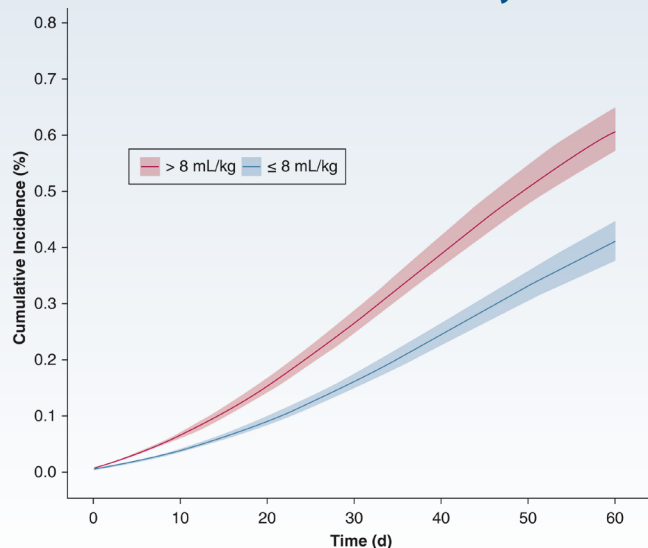
Tidal volume ≤ 8 mL/kg predicted body weight (PBW)

vs

Tidal volume > 8 mL/kg PBW over the first 7 days of mechanical ventilation

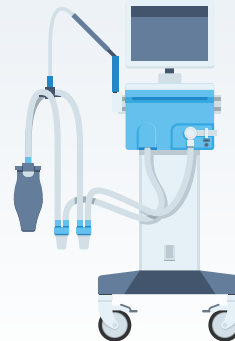
RESULTS

Cumulative ICU Mortality



Incidence ICU Mortality

≤ 8 mL/kg	40.2% (95% CI, 19.2%-61.1%)
> 8 mL/kg	59.7% (95% CI, 44.0%-75.4%)



In a predominantly non-ARDS cohort of patients with acute brain injury, low-tilde-volume ventilation over the first 7 days of mechanical ventilation was associated with lower ICU mortality up to 60 days vs tidal volumes > 8 mL/kg PBW.