

Does the Effect of Supine vs Semirecumbent Posture on Respiratory Mechanics Differ Between Mechanically Ventilated Patients With ARDS With and Without Obesity?

STUDY DESIGN

Single-center, randomized trial of 40 patients with and without obesity



semirecumbent (40° head up)



supine-flat (0°)

RESULTS

WITH OBESITY



SUPINE

Lung and chest wall elastance, driving pressure, inspiratory transpulmonary pressure, P_{aCO_2} , and ventilatory ratio

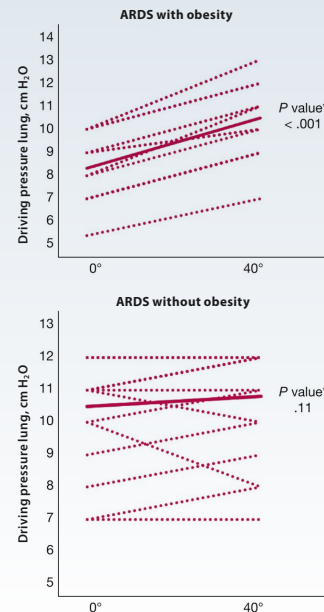


WITHOUT OBESITY



Airway resistance

Chest wall elastance



In mechanically ventilated patients with ARDS with obesity, supine posture provided lower lung and chest wall elastance, and better CO₂ clearance, than the semirecumbent posture.