

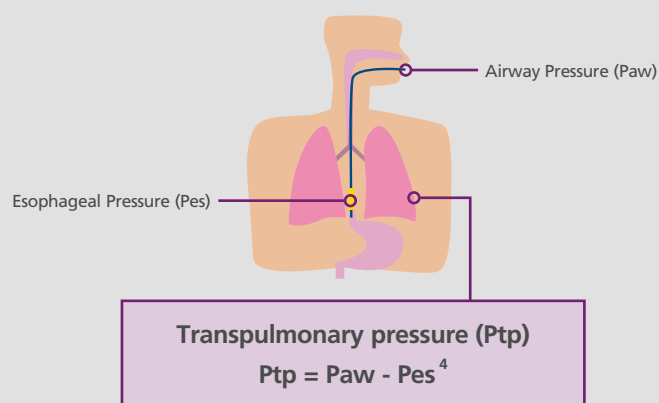
# Are you tailoring your patient's PEEP?

**23.4%** of patients requiring mechanical ventilation have acute respiratory distress syndrome (ARDS), according to the **LUNG-SAFE** study.<sup>1</sup>



ARDS presents a **40%** risk of death.<sup>2,3</sup>

## Lung protection and AVEA® ventilator



**Ease of use**

### Automated esophageal balloon filling

1. Press **Inspiratory Hold** → PtpPlateau
2. Press **Expiratory Hold** → PtpPEEP

## Mechanical ventilation directed by Ptp<sup>5</sup> showed:

At 72 hours:



- PaO<sub>2</sub>/FiO<sub>2</sub> ratio
- Respiratory system compliance

## Ptp vs extracorporeal membrane oxygenation (ECMO):



- Titrating PEEP using Ptp reduced need for ECMO<sup>6</sup>
- Cost of ECMO per patient can reach up to **\$537,554**<sup>7</sup>
- Average cost of an **AVEA** esophageal catheter is **\$105**

### References

1 Bellani G, Laffey JG, Pham T, et al. Epidemiology, Patterns of Care, and Mortality for Patients With Acute Respiratory Distress Syndrome in Intensive Care Units in 50 Countries. *JAMA*. 2016;315(8):788–800. doi: 10.1001/jama.2016.0291. 2 Rubenfeld GD, Caldwell E, Peabody E, et al. Incidence and Outcomes of Acute Lung Injury. *N Engl J Med*. 2005;353:1685–1693. doi: 10.1056/NEJMoa050333. 3 American Thoracic Society. *Patient Information Series: What is Acute Respiratory Distress Syndrome?* New York, NY: American Thoracic Society; 2013. 4 Akoumianaki E, Maggiore SM, Valenza F, et al. The Application of Esophageal Pressure Measurement in Patients with Respiratory Failure. *Am J Respir Crit Care Med*. 2014;189(5):520–531. doi: 10.1164/rccm.201312-2193CI. 5 Fish E, Novack V, Banner-Goodspeed VM, Sarge T, Loring S, Talmor D. The Esophageal Pressure-Guided Ventilation 2 (EPVent2) trial protocol: a multicentre, randomised clinical trial of mechanical ventilation guided by transpulmonary pressure. *BMJ Open*. 2014;4(9):e006356. doi:10.1136/bmjopen-2014-006356. 6 Grasso S, Terragni P, Birocco A, et al. ECMO criteria for influenza A (H1N1)-associated ARDS: role of transpulmonary pressure. *Intensive Care Med*. 2012;38(3):395–403. doi:10.1007/s00134-012-2490-7. 7 Harvey MJ, Gales MG, Prosser LA. U.S. and International In-Hospital Costs of Extracorporeal Membrane Oxygenation: a Systematic Review. *Appl Health Econ Health Policy*. 2015;13(4):341–357. doi:10.1007/s40258-015-0170-9.

CareFusion  
Yorba Linda, CA

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