

# Effects of Low Tidal Volume and Airway Pressure Release Ventilation on Lung Tissue Mechanics in ARDS Patients Under Mechanical Ventilation: A Prospective Randomized Crossover Study

NCT06790875

---

<b>Status</b>	RECRUITING
<b>Phase</b>	Not Applicable
<b>Sponsor</b>	Union Hospital, Tongji Medical College, Huazhong University of Science and Technology
<b>Enrollment</b>	15 participants

## Key Eligibility Criteria

---

### Inclusion (5)

- Meets the diagnostic criteria of the 2023 Global New Definition of ARDS.
- Age: 18-80 years.
- PaO<sub>2</sub>/FiO<sub>2</sub> < 200.
- Within 12 hours of invasive mechanical ventilation treatment.
- Obtain consent from the patient or their family members to participate in the study, and sign the informed consent form.

### Exclusion (7)

- Age < 18 years or > 80 years.
- Uncorrected shock of any type.
- Chronic obstructive pulmonary disease (COPD), pulmonary embolism, right heart failure, pulmonary hypertension, or severe arrhythmia.
- Contraindications for using Electrical Impedance Tomography (EIT) (extensive chest skin damage, infection, pacemaker implantation, implanted automatic defibrillator, etc.), pneumothorax, mediastinal emphysema, or large pleural effusion.
- Pregnant or breastfeeding women.
- ... and 2 more (see full listing online)

## Locations (1 total)

---

Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, Hubei, China