

Diaphragmatic Physiology Similarity Index May Titrate HFNC Flow Setting: A Prospective Observational Study

NCT06996665

Status	RECRUITING
Phase	Not Applicable
Sponsor	Sir Run Run Shaw Hospital
Enrollment	100 participants

Key Eligibility Criteria

Inclusion (6)

- Feasibility and reproducibility adult ICU patients
- Methodology for diaphragmatic motion synchrony: healthy adults and adult ICU patients Between-group comparisons and flow-titration study
- Age e18 years old.
- Clear diagnosis of respiratory failure requiring respiratory support.
- Expected duration of respiratory support e24 hours or (high-flow/non-invasive ventilation) e48 hours.
- ... and 1 more (see full listing online)

Exclusion (4)

- Severe chest wall deformities or diaphragmatic paralysis.
- End-stage disease with a predicted life expectancy of less than 24 hours.
- Inability to acquire STE (strains and echoes) images (e.g., severe subcutaneous emphysema, position limitations).
- Vulnerable groups other than critically ill patients/elderly/illiterate individuals, including those with mental disorders, cognitive impairments, pregnant women, etc.

Locations (2 total)

Sir Run Run shaw Hospital Zhejiang University, Hangzhou, Zhejiang, China
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