

Multidimensional Correlation Analysis of Heart Rate Variability and Weaning Assessment Parameters in Critically Mechanically Ventilated Patients

NCT07455214

Status RECRUITING
Sponsor Fu Jen Catholic University Hospital
Enrollment 100 participants

Key Eligibility Criteria

Inclusion (4)

- Age between 18 and 85 years.
- Received mechanical ventilation for more than 24 hours and clinically assessed as ready for a Spontaneous Breathing Trial (SBT).
- Stable ECG signal quality before extubation, meeting the basic requirements for HRV analysis.
- Obtained informed consent from the patient or their legal representative, and agreed to participate in this study and cooperate with the 72-hour follow-up after extubation.

Exclusion (4)

- Individuals with permanent pacemakers, defibrillators, or other devices that affect monitoring data.
- Individuals on continuous deep sedation (RAS d -4) and unable to regain consciousness in the short term.
- Individuals with severe arrhythmias or unstable cardiovascular conditions that prevent reliable HRV analysis.
- Individuals with cognitive impairment or mental illness that prevents them from cooperating with the research process, or individuals deemed unsuitable for participation in this study by their clinicians.

Locations (1 total)

Fu Jen Catholic University Hospital, New Taipei City, Taiwan