

Muscle Recruitment During Neck Flexion and Inspiratory Muscle Training

NCT05710432

Status	RECRUITING
Phase	Not Applicable
Sponsor	Unity Health Toronto
Enrollment	10 participants

Key Eligibility Criteria

Inclusion (5)

- Patients receiving invasive MV via endotracheal tube who had failed a planned extubation or failed at least three spontaneous breathing trials (SBTs) or receiving MV via tracheostomy (who required tracheostomy because of difficult or prolonged weaning, failed extubation and/or prolonged ventilation) and able to spontaneously trigger the ventilator.
- Over or equal to 16 years of age
- Tolerating levels of pressure support of 10 cmH₂O or lower (or equivalent support in NAVA or PAV+) for at least 15 minutes
- In stable clinical and hemodynamic conditions and adequate level of oxygenation (cardiac frequency \leq 140 beats/minute, systolic blood pressure 90-160 mmHg, no or minimal vasopressors, PaO₂/FiO₂ over or equal to 150 mmHg)
- Able to understand and follow simple verbal instructions

Exclusion (3)

- Patients with a previously diagnosed severe neuromuscular disorder (such as amyotrophic lateral sclerosis, muscular dystrophy, multiple sclerosis, myasthenia gravis or spinal cord injury)
- Patients with chronic respiratory failure already ventilated before ICU admission
- Patients unable to collaborate or understand instructions

Locations (1 total)

St. Michael's Hospital, Toronto, Ontario, Canada