

# Evaluation of heepSync, a Novel Algorithm for Transcutaneous Electrical Stimulation of Respiratory Muscles in Mechanically Ventilated Patients.

NCT07363902

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<b>Status</b>	RECRUITING
<b>Phase</b>	Not Applicable
<b>Sponsor</b>	Tesai Care SL
<b>Enrollment</b>	20 participants

## Key Eligibility Criteria

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### Inclusion (6)

- Patient population 1
  - Adult patients with acute hypoxemic respiratory failure who have been under controlled mechanical ventilation for at least 24 hours prior to enrollment.
  - Clinically stable: oxygen saturation  $\geq 90\%$  with a fractional inspired oxygen  $\leq 0.50$ , external PEEP  $\leq 10$  cm H<sub>2</sub>O, temperature ranging from 35.5 to 38.5 °C, no intravenous administration of vasoactive agents.
  - Patient population 2
  - Adult patients with acute hypoxemic respiratory failure who have been under pressure support mechanical ventilation for at least 24 hours prior to enrollment.
- ... and 1 more (see full listing online)

### Exclusion (13)

- Patients treated with neuromuscular blocking agents
  - Patients with neuromuscular disease
  - Patients with a pacemaker or past history of arrhythmia
  - Patients with physical obstacles that prevent thoracic or abdominal electrostimulation (e.g., abdominal trauma, recent abdominal surgery, polytrauma, broken or irritated skin)
  - BMI  $\geq 40$  kg/m<sup>2</sup>
- ... and 8 more (see full listing online)

## Locations (3 total)

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Hospital Universitari de Vall d'Hebrón, Barcelona, Barcelona, Spain  
Hospital Universitari de Bellvitge, L'Hospitalet de Llobregat, Barcelona, Spain  
Hospital Universitari Parc Tauli, Sabadell, Barcelona, Spain

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<https://clinicaltrials.gov/study/NCT07363902>

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