INCLUSION CRITERIA PROMETHEUS STUDY

STUDY DESIGN

Multicenter observational and prospective cohort study

ELIGIBILITY CRITERIA

Every patient admitted to the PICU aged 1 month to 18 years requiring mechanical ventilation for ≥ 48 hours.

EXCLUSION CRITERIA

- Age < 30 days or infants with a corrected gestational age < 44 weeks
- Age > 18 years
- Previous tracheostomy/any kind of domiciliary ventilation or other PICU previous invasive ventilation
- Cyanotic congenital heart disease, right-to-left shunt (including ECMO), or pulmonary hypertension.

Each site's lead researcher must record the number of patients mechanically ventilated not elegible (<48h invasive MV) or not meeting inclusion criteria and the reason for exclusion.

*This can be easily recorded in the database if each researcher registers **ALL consecutive PATIENS on invasive mechanical ventilation admitted to PICU since their study start date** (the actual date on which the first subject of each site has enrolled).*

DATA COLLECTION

- You will receive an username and password to access to our REDCap system
- Each site's lead researcher will specify site and inclusion number (for example, HVH or VVH 001 stands for Hospital Vall d'Hebron Hospital, ie each hospital name acronym commonly used)
- The first form (Eligibility & Demographical data form) includes variables related to patient demographics, comorbidities and outcomes, as well as the eligibility/exclusion criteria. **Excluded and no eligible patients will not have demographical data recorded**.
- The second form (VARIABLES RELATED TO MV EPISODE 1) corresponds to the first mechanical ventilation period (episode 1) during admission

    NOTE: Patients who require PICU readmission during the period of study will be considered as new patients. Patients who require more than one mechanical ventilation episode during their PICU admission , will be candidates to fill out MV episode 2 and/or 3 forms.

- The last form (STUDY COORDINATOR) is to be filled only by Elias Iosididis or Yolanda Peña-López.