Patients with more than 72 hours of Mechanical Ventilation due to Acute Respiratory Failure

Demographic Data, Weaning Protocol

Randomization

Extubation

Noninvasive Ventilation immediately after extubation

Oxygen Mask

5 L/min

IPAP = 8 cmH20 and EPAP = 4 cmH20

EPAP if PaO2 < 60 mmHg or SpO2 < 90%

IPAP if PaCO2 > 50 mmHg

or IPAP according to RR/TV (L)

Monitoring after extubation:

- 15 minutes Arterial blood gas analysis: PaO2, PaCO2
- 2 hours Oxygen Saturation, Respiratory Rate
- 24 hours Heart rate, Mean arterial Pressure
- 48 hours Reintubation rate
- ICU length of stay
- Hospital Mortality