

# ARDS in Children and ECMO Initiation Strategies Impact on Neurodevelopment (ASCEND)

**Status:** RECRUITING

## Eligibility Criteria

**Age:** 14 days to 20 years old

This study is NOT accepting healthy

**Healthy Volunteers:** volunteers

### Inclusion Criteria:

\* Time between intubation and ECMO cannulation is less than 240 hours (10 days) \* ECMO support type is respiratory (VV or VA cannulation) \* Chest radiograph with bilateral lung disease \* Moderate or severe pediatric ARDS as measured by oxygenation index or oxygen saturation index after intubation and prior to ECMO cannulation: One OI  $\geq 16$  or Two OIs  $\geq 12$  and  $\leq 16$  at least four hours apart or Two OSIs  $\geq 10$  at least four hours apart or One OI  $\geq 12$  and  $\leq 16$  and One OSI  $\geq 10$  at least four hours apart

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### Exclusion Criteria:

\* Previously enrolled in PROSpect \* Perinatal related lung disease \* Congenital diaphragmatic hernia or congenital/acquired diaphragm paralysis \* Respiratory failure caused by cardiac failure or fluid overload \* Cyanotic congenital heart disease \* Cardiomyopathy \* Primary pulmonary hypertension (PAH) \* Unilateral lung disease \* Intubated for status asthmaticus \* Obstructive airway disease \* Bronchiolitis obliterans \* Post hematopoietic stem cell transplant \* Post lung transplant \* Home ventilator dependent \* Neuromuscular respiratory failure \* Head trauma: (managed with hyperventilation) \* Intracranial bleeding \* Unstable spine, femur or pelvic fractures \* Acute abdominal process/open abdomen \* Family/medical team have decided to not provide full support \* Enrolled in interventional clinical trial: not approved for co-enrollment; does not include cancer protocols. \* Known pregnancy

## Conditions & Interventions

### Interventions:

DEVICE: ECMO support, OTHER: PROSpect protocolized therapies

### Conditions:

Acute Respiratory Distress Syndrome, Extracorporeal Membrane Oxygenation

### Keywords:

ARDS, Acute Respiratory Distress Syndrome, Extracorporeal Membrane Oxygenation, ECMO, Extracorporeal Life Support, ECLS, Pediatric, Quality of Life, Functional Status

## More Information

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**Phase:**

**IRB**

**Number:**

**System ID:** NCT05388708

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