

P-ICECAP Screening



Inclusion Criteria

- Age 2 days to < 18 years with corrected gestational age of at least 38 weeks
- Chest compressions for at least 2 minutes
- Coma or encephalopathy after resuscitation from OHCA
- Requires mechanical ventilation through endotracheal tube or tracheostomy
- Definitive temperature control device initiated
- Randomization within 6 hours of ROSC
- Informed consent from LAR including intent to maintain life support for 120 hours

Exclusion Criteria

- Glasgow Coma Motor Score (GCMS) = 6
- LAR does not speak English or Spanish
- Duration of CPR > 60 minutes
- Severe hemodynamic instability requiring continuous infusion of epinephrine or norepinephrine of 2 µg/kg/min or initiation of ECMO

Exclusion Criteria (cont)

- Pre-existing severe neurodevelopmental deficits with PCPC = 5 or progressive degenerative encephalopathy
- Pre-existing terminal illness, unlikely to survive one year
- Cardiac arrest associated with brain, thoracic, or abdominal trauma
- Active and refractory severe bleeding prior to randomization
- Extensive burns or skin lesions incompatible with surface cooling
- Planned early withdrawal of life support before 120 hours
- Current hospitalization > 30 days at time of randomization
- Sickle cell anemia
- Pre-existing cryoglobulinemia
- Non-fatal drowning in ice-covered water
- Central nervous system tumor with ongoing chemotherapy
- Previous enrollment in P-ICECAP trial
- Prisoner
- Chronic hypothermia
- New post-cardiac arrest diabetes insipidus
- Pregnancy (must have neg test if female of child-bearing age)