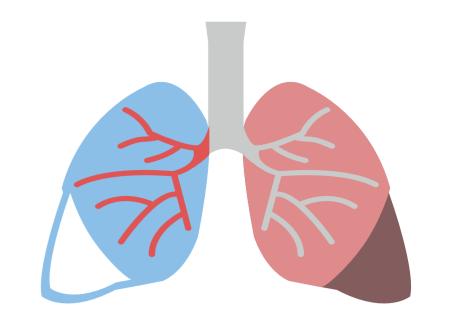
2019 American Heart Association Guidelines Update on

Pediatric Advanced Life Support



Advanced Airways in **Pediatric Resuscitation**

Most pediatric cardiac arrests are triggered by deterioration of respiratory function.





Out-of-hospital cardiac arrest

2019 Recommendation: Bag-mask ventilation is a reasonable alternative to advanced airway interventions (including endotracheal intubation or supraglottic airway).



In-hospital cardiac arrest

No Recommendation for or against the use of an advanced airway; advanced airway interventions may require more training and equipment.

New guidelines are largely based on observational studies involving only out-of-hospital cardiac arrests.

Targeted Temperature Management

Targeted temperature management (TTM) involves keeping core temperatures within a certain range to induce therapeutic hypothermia in pediatric patients who remain comatose after cardiac arrest.

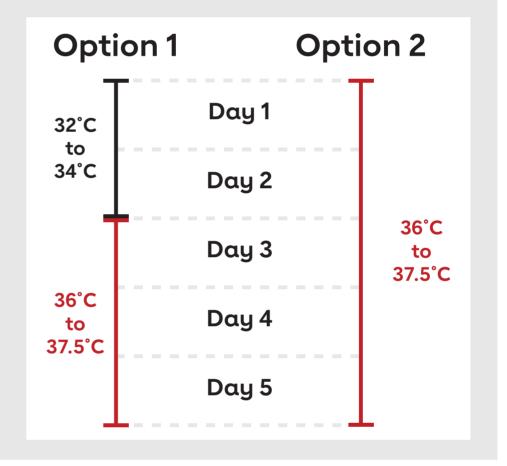
2019 Recommendation: Continuously monitor core temperature during TTM.



For patients between 24 hours and 18 years of age who remain comatose after cardiac arrest, there are 2 reasonable options:

Option 1: Use TTM to maintain 32°C to 34°C, followed by TTM to maintain 36°C to 37.5°C.

Option 2: Use TTM to maintain 36°C to 37.5°C.

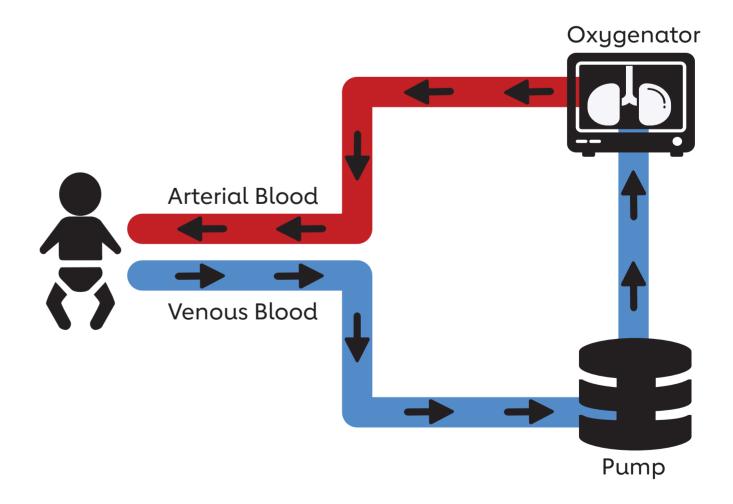


2019 Recommendation: TTM can be considered for both in-hospital and out-ofhospital cardiac arrest.

New TTM recommendations are based on the THAPCA-IH trial (Therapeutic Hypothermia After Pediatric Cardiac Arrest In-Hospital).

extracorporeal CPR

Extracorporeal CPR refers to a cardiopulmonary bypass, which maintains organ perfusion while cardiac arrest causes are addressed.





2019 Recommendation: Consider extracorporeal CPR in pediatric patients with cardiac diagnoses who are experiencing in-hospital cardiac arrest in a centre with extracorporeal membrane oxygenation capability.



Because of insufficient evidence, there are no recommendations for or against extracorporeal CPR in pediatric out-of-hospital cardiac arrests or noncardiac diagnoses.





Guideline provided by



™The heart and / Icon on its own or followed by another icon or words in