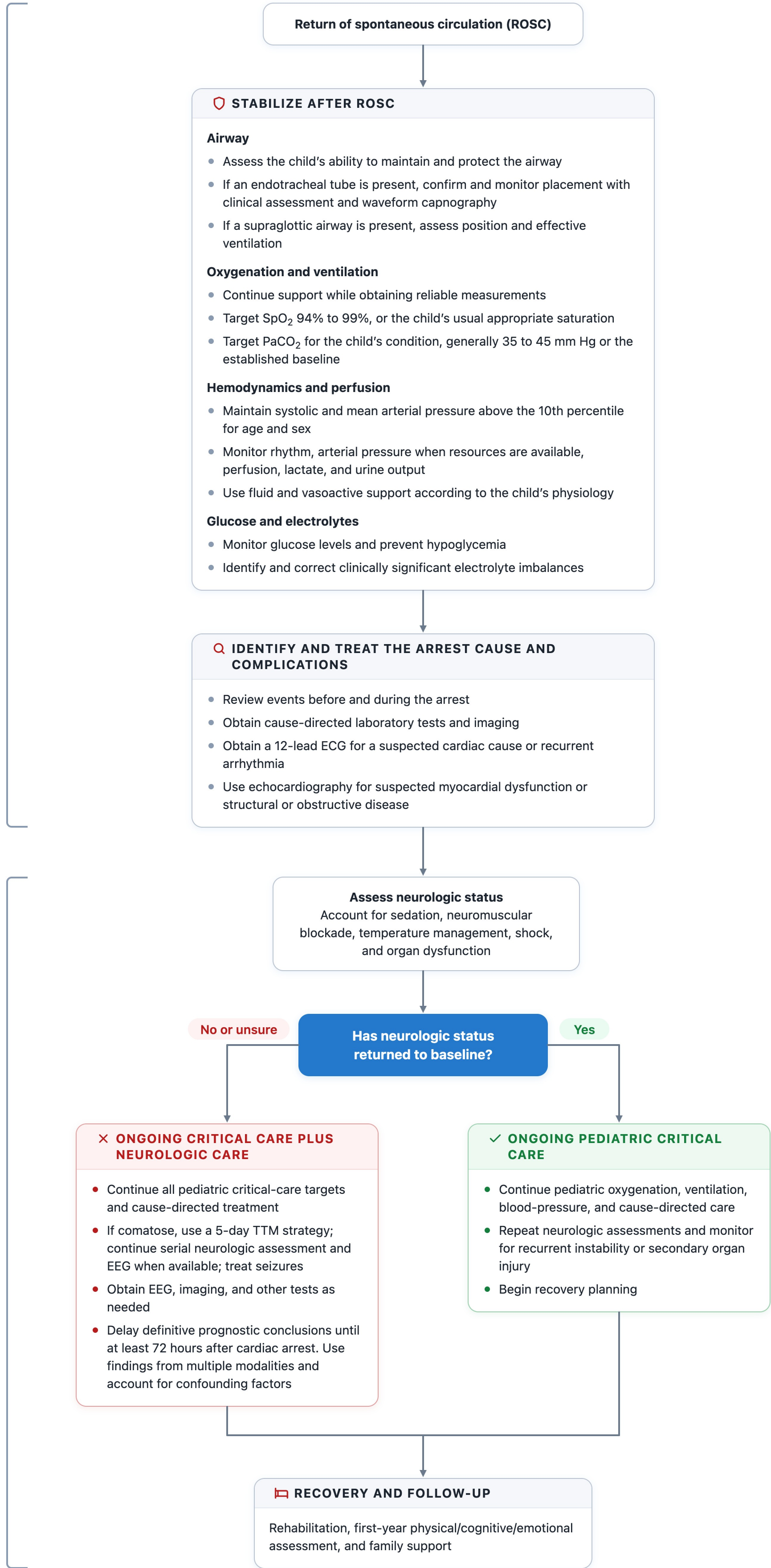


Pediatric Post–Cardiac Arrest Care Algorithm



INITIAL
STABILIZATION

ONGOING
MANAGEMENT
AND RECOVERY

INITIAL STABILIZATION

Resuscitation continues after ROSC. Perform assessments and interventions in parallel whenever possible.

- Airway and breathing:**
 - Assess airway protection and the effectiveness of ventilation.
 - Confirm and monitor an endotracheal tube with clinical assessment and waveform capnography.
 - Titrate oxygen to SpO₂ 94% to 99%, or the child’s usual saturation.
 - Target PaCO₂ for the underlying condition, generally 35 to 45 mm Hg or the established baseline.
- Perfusion and metabolism:**
 - Maintain systolic and mean arterial pressure above the 10th percentile for age and sex.
 - Use fluids and vasoactive support according to physiology.
 - Follow glucose, electrolytes, lactate, urine output, and perfusion.
- Cause and complications:**

Use history, examination, laboratory testing, ECG, echocardiography, or other imaging according to the suspected cause. Treat recurrent respiratory failure, shock, arrhythmias, bleeding, infection, toxins, trauma, or obstruction as identified.

ONGOING MANAGEMENT

- Temperature control:**

If the child remains comatose, monitor central temperature and prevent temperatures above 37.5°C. Use either 32°C to 34°C for 48 hours followed by 36°C to 37.5°C for 3 days, or 36°C to 37.5°C throughout all 5 days.
- Neuromonitoring:**

Continue serial neurologic examinations. If the child is not at baseline and resources are available, use continuous EEG. Treat clinical seizures.
- Prognostication:**

Begin neurologic assessment and indicated testing early. Delay definitive prognostic conclusions until at least 72 hours after cardiac arrest. Use multiple modalities and account for confounders.
- Recovery:**

Evaluate rehabilitation needs and plan physical, cognitive, emotional, developmental, and family follow-up during the first year.