

# PEDIATRIC NEUROPROGNOSTICATION AFTER CARDIAC ARREST AND ROSC: PREDICTION OF GOOD NEUROLOGICAL OUTCOME

PALS 2025 REFERENCE CARD

## Neuroprognostication After Pediatric Cardiac Arrest and ROSC: Prediction of Good Neurological Outcome

The information below identifies *testing modalities* that can be used by healthcare professionals for predicting an increased likelihood of favorable neurological outcome in children and infants who are comatose after ROSC. It is important to note that no single test should be used in isolation for prediction of a good neurological outcome.

Testing Category	Tests and Findings							
Clinical Findings	Pupillary light reactivity							
Brain Imaging							MRI: Normal	
Serum Biomarkers	Lactate level: Normal (<2 millimoles/liter)							
Electroencephalogram	Continuous or normal background EEG							
	EEG reactivity							
				Presence of sleep spindle				
Timeline after ROSC	ROSC	1 hour	6 hours	12 hours	24 hours	48 hours	72 hours	2 weeks

**MRI:** Magnetic resonance imaging

**EEG:** Electroencephalogram

**ROC:** Return of circulation (spontaneous or mechanical)



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