

Consider using as part of multi-modal testing for FAVORABLE OUTCOME

Day 1		Day 2	Day 3	Day 4	Day 5– 2 weeks
0-12h	13-24h	25-48h	49-72h	73-96h	
Presence of bilateral pupillary light reflex 0-12 hours				Normal MRI ≥72 hours	
Plasma lactate <2 within 12 hours					
Presence of EEG Reactivity 6-24 hours					
Presence of continuous or normal EEG background 1-72 hours					
	Presence of sleep spindles or stage II sleep on EEG 12-24 hours				

Consider using as part of multi-modal testing for UNFAVORABLE OUTCOME

Day 1		Day 2	Day 3	Day 4	Day 5– 2 weeks
0-12h	13-24h	25-48h	49-72h	73-96h	
			Absence of pupil reactivity to light at 48 and 72 hours		
CT scan showing loss of Grey-White Matter Differentiation < 24 hours				MRI showing high ischemic burden on ADC mapping ≥72 hours	
		EEG: status epilepticus, burst suppression, burst attenuation or GPEDs 24-72 hours			

Recommendation against the use of:

Any single test in isolation



Blood pH for any outcome
Lactate values to support unfavorable outcome



Clinical Exam: GCS or absent pupillary reactivity to light within 24 hours of ROC to support an unfavorable outcome



Normal head CT within the first 48 hours after ROC to support favorable outcome



EEG: presence of clinical or electrographic seizures, absence of sleep spindles or sleep II architecture, absence of continuous or normal EEG background, absence of EEG reactivity and absence of EEG variability to support unfavorable neurologic prognosis

EEG: absence of burst suppression, burst attenuation, generalized periodic epileptiform discharges, attenuated, isoelectric or flat EEG, absence of clinical or electrographic seizures, absence of status epilepticus or myoclonic seizures to support favorable neurologic prognosis

Insufficient evidence for a recommendation for or against the use of:



Neuronal Biomarkers: S100beta, Neuron Specific Enolase, Neurofilament Light Chain



EEG: attenuated, isoelectric or flat EEG or myoclonic status epilepticus to support unfavorable neurological outcome



Clinical exam: cough or gag, or any motor response for any outcome
Total GCS or GCS motor score for favorable outcome