

## Fast. Accurate. Informed. **Decisive.**

### CERIBELL™ RAPID RESPONSE EEG WAS DEMONSTRATED TO SIGNIFICANTLY IMPROVE CLINICAL ACCURACY

Results from the DECIDE study (a prospective, multi-center clinical trial to assess Ceribell™ Rapid Response EEG impact on clinical decision-making) were recently published in Critical Care Medicine.

#### WITHOUT CERIBELL RAPID RESPONSE EEG

Even top academic centers with 24/7 EEG capability have a **4-hour wait-time** for conventional EEG. Diagnostic accuracy of physicians relying on clinical judgement alone is **only slightly better than chance** when making empiric decisions.

#### ACCESS TO CERIBELL RAPID RESPONSE EEG CHANGES EVERYTHING



**37** bedside ICU physicians

**181** patients

The study evaluated 181 patients to assess the performance of the Ceribell Rapid Response EEG system in critical care situations versus that of conventional EEG.

#### Investigators:

**Kyle Hobbs, MD**  
Wake Forest Baptist Health

**Sayona John, MD**  
Rush University Medical Center

**DaiWai Olson, RN, PhD**  
The University of Texas  
Southwestern Medical Center

**Paul M. Vespa, MD**  
David Geffen School of  
Medicine at UCLA

**Michael Brandon Westover, MD, PhD**  
Massachusetts General  
Hospital

#### Advisors:

**Thomas P. Bleck, MD**  
Rush University Medical Center

**Lawrence Hirsch, MD**  
Yale School of Medicine

**4**

HOURS

#### Wait-time to Conventional EEG Versus **5 Minutes** with Ceribell EEG

Even in top academic centers with 24/7 on-site EEG technologists

	CONVENTIONAL EEG	ceribell
	MINUTES	MINUTES
Median Time to EEG	<b>239</b>	<b>5</b>
Interquartile Range	134-471	4-10
Number of observations	142	163

Both headband and recorder were consistently rated very easy to use (>4.5 on a 5.0 scale)

**90%**

#### Diagnostic Accuracy With Ceribell Versus **65%** Using Clinical Judgement Alone

With Ceribell EEG, sensitivity for detection of seizures was 100% and specificity improved by 25 percentage points.

	CLINICAL JUDGEMENT ALONE	CLINICAL JUDGEMENT WITH CERIBELL
Diagnostic Accuracy	<b>65%</b>	<b>90%</b>
Sensitivity	78%	<b>100%</b>
Specificity	64%	<b>89%</b>

**86%**

#### Diagnostic Confidence With Ceribell Versus **40%** Using Clinical Judgement Alone

With Ceribell EEG, bedside clinicians rated their confidence high or very high 86% of the time.

	CLINICAL JUDGEMENT ALONE	CLINICAL JUDGEMENT WITH CERIBELL
Confidence	<b>40%</b>	<b>86%</b>