

Monitoring of Intracranial Electrical Activity for Delirium

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ICD-10 C&M Committee Meeting

Ceribell, Inc.

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Delirium

- What it is
 - Delirium is an acute disturbance in mental state
 - Delirium can manifest as either aggressive or agitated behavior, known as hyperactive delirium, or lethargy with lack of attention and awareness known as hypoactive delirium
- Risks and severity
 - Delirium is a life-threatening condition that is associated with significant increases in morbidity and mortality
 - If left undiagnosed, delirium has been associated with a 7-fold increase in 6-month mortality

Background and Clinical Need

- Current standard of care
 - Interactive patient assessments (e.g. CAM-ICU) performed by bedside care clinicians
- Challenges of standard of care
 - Subjective
 - Low accuracy in non-research settings – most staff are not well trained
 - Infrequent assessments (1-2x per day)
 - Many patients fall into “unable to assess” category

Ceribell Delirium Monitor | What It Is

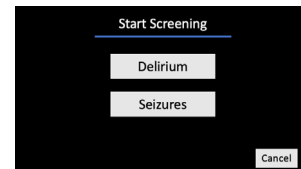


- 1 Ceribell EEG Headband for Delirium detection and monitoring
 - Single use per patient headband
 - Acquires EEG signal
- 2 Ceribell EEG Recorder
 - Record clinical quality EEG and display on device
- 3 Ceribell Delirium Monitoring Software
 - Cloud-based AI algorithm
 - Real time data streaming

Ceribell Delirium Monitor | Procedure

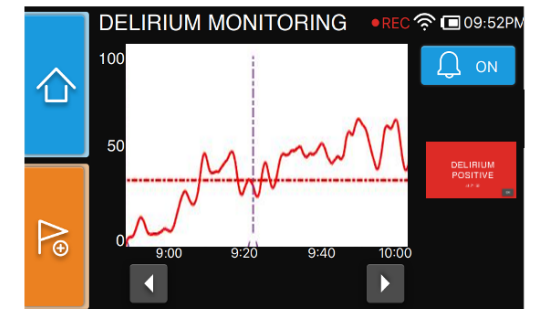
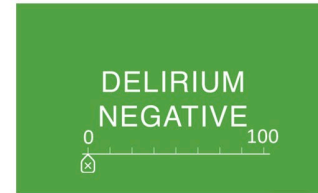
The bedside clinician:

- Sets up the headband on the patient
- Connects the headband to the recorder
- Selects “record” on the recorder to begin an EEG study
- Selects “delirium” to begin monitoring the EEG for patterns that may be indicative of delirium



Ceribell Delirium Monitor | Key Benefits

- Objective and highly accurate compared with gold-standard physician assessment
- Real-time assessment of patient's delirium status
 - Visual and audible alert for indication of delirium positive
- Continuous monitoring of patient's condition provides:
 - Trending information whether improving or deteriorating
 - Feedback on intervention effectiveness



Medical Record Documentation

- Documentation of delirium monitoring will be included in the medical record
- Typical terms used for the Ceribell Delirium Monitor:
 - Ceribell Delirium Monitor
 - Delirium Monitor
 - Rapid EEG Delirium Monitor
 - Point of Care Delirium Monitor