NicoletOne™

MONITOR - ICU

Online Remote Analysis offers live onsite viewing or review from a remote location through the network. Add annotations remotely.

Compact amplifier with up to 16 touchproof inputs. All inputs can be configured as bipolar for ECG, EMG, SaO_2, temperature, blood pressure and respiratory effort. Includes headcap connector.

The feasibility and clinical effectiveness of brain function monitoring with EEG in the ICU has now been recognized. Throughout the years, availability and complexity of EEG systems have been the main obstacles in this field. NicoletOne Monitor is specifically designed with the challenges of this environment in mind.

NicoletOne Monitor extracts useful information from the EEG traces for easy interpretation by ICU staff and neurologists, allowing them to get instant access to the underlying EEG by a click on the screen.

The unpredictability of the condition of ICU patients calls for continuous monitoring of EEG. NicoletOne Monitor is a cost effective, easy to use, sophisticated EEG system, fully compatable with the NicoletOne line to increase the quality of patient care.

UNIQUE FEATURES

- 16 channel high quality EEG recording
- Touch screen operation
- Small footprint – only a panel PC, keyboard & mouse
- Can be mounted on a trolley, wall or stand
- Virtually unlimited recording time
- On-line and remote data access
- Continuous impedance check
- Display of current values from recorded signals
- Alerts – via sms, e-mail or page
- Protocols – your set of preferences instantly
- Seizure detection

THE BENEFITS

- Easily operable by non EEG specialists
- Cost effective monitoring tool
- Remote Review for a specialist's consultation
- Important clinical impact on patient's outcome
- Improves diagnosis
- Adds quality to patient care
- Quicker analysis with trends

CLINICAL APPLICATIONS IN THE ICU

- Seizure activity
- Status Epilepticus
- Burst suppression
- Sleep cycles
- Vasospasm
- Neonatal
- Emergency Room

VIASYS™ HEALTHCARE
Excellence For Life
NEUROCARE GROUP

NicoletOne™

TRENDS — THE KEY TO QUICK ANALYSIS

The Trend Overview gives a compressed view of long EEG recordings. This visual presentation of the data makes it easy to observe changes in EEG patterns over hours or days of monitoring. Two targeted features of the EEG are amplitude and frequency content.

A touch on an area of interest in the Trend Overview takes you instantly to that page on the EEG trace display resulting in **instant access to the whole recording**.

BURST SUPPRESSION

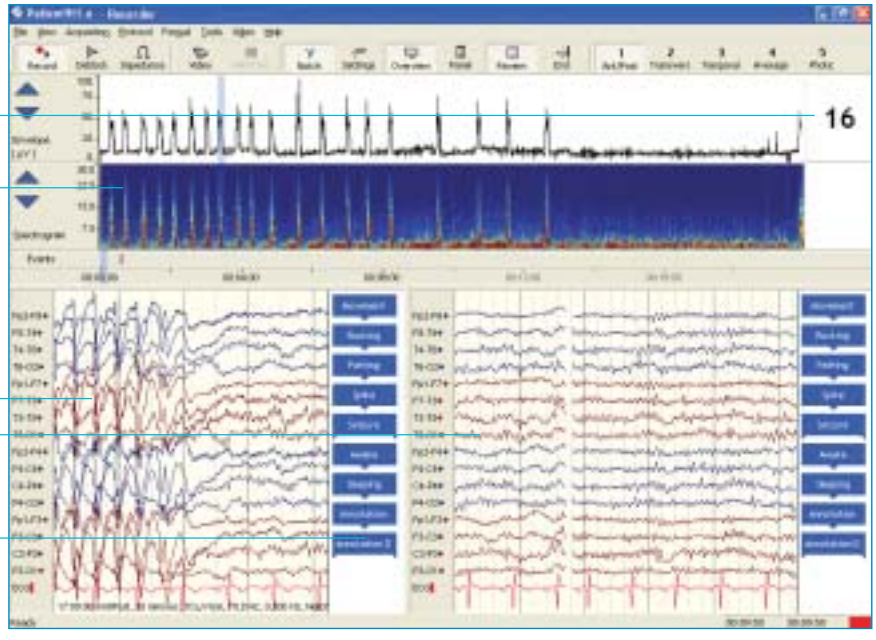
Doctors have been counting bursts per minute and interburst intervals on paper EEG for years. Number of bursts per minute has been associated to level of consciousness due to head trauma or drugs. This pattern and sedation titration can be monitored with burst suppression parameters of NicoletOne Monitor system. These parameters are:

- Bursts: Number of bursts per minute
- Suppression: Percentage of suppressed EEG within the last minute
- Interburst Interval: Measures the time between bursts

ADULT ICU MONITORING

The Envelope reflects the amplitude in the EEG but is less sensitive to movement artifacts than other amplitude reflecting trends. It is uncomplicated and highly effective, suitable for various applications, but ideal to monitor for epileptic activity.

The Spectrogram displays the frequency and amplitude content of the EEG. Power is reflected with color codes and frequency distribution on a scale on the y-axis. The Spectrogram is useful for seizure monitoring (amplitude) and sleep/wake cycling of the comatose patient (frequency changes).



Current amplitude value

Trend Overview — touch the screen to display the corresponding EEG

Adjustable split live and review panes allow instant access of recorded data — no time limit

Quickly insert events and annotations into live or review pane

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