NicoletOne™

MONITOR - NICU

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.

VIASYS™ HEALTHCARE
Excellence For Life
NEUROCARE GROUP

The benefits of brain function monitoring in hospital neonatal units are well known. Brain injury is a serious and constant threat to infant patients. The introduction of amplitude-integrated EEG (aEEG) 40 years ago offered a way to monitor for brain function. However, the aEEG machines offered no access to raw data and routine EEG machines are generally considered too complex to be practical in the NICU.

NicoletOne Monitor extracts useful information from the EEG traces for easy interpretation by NICU staff and neurologists/neonatologists allowing them to get instant access to the underlying EEG by a click on the screen. The system is specifically designed with the challenges of this environment in mind.

The unpredictability of the condition of NICU 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 value 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 patients' outcome
- Improves diagnosis
- Adds quality to patient care
- Quicker analysis with trends

CLINICAL APPLICATIONS IN THE NICU

- Preterm babies
- Low APGAR score
- Asphyxia
- Hypothermia
- Sepsis
- Metabolic diseases
- Intubated infants
- Epileptic diagnosis and treatment
- Surgical recovery

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 providing **instant access to the whole recording**.

BURST SUPPRESSION

Doctors have been counting bursts per minute and interburst intervals on the paper EEG for years. Number of bursts per minute has been associated to the brains' state in relation to the developmental age in the neonate and provides prognostic information along with the suppression ratio and interburst interval. All these parameters are now calculated by the NicoletOne Monitor system.

NEONATAL MONITORING

All research points to the great importance of early and accurate identification of abnormal brain function, whatever the pathology.

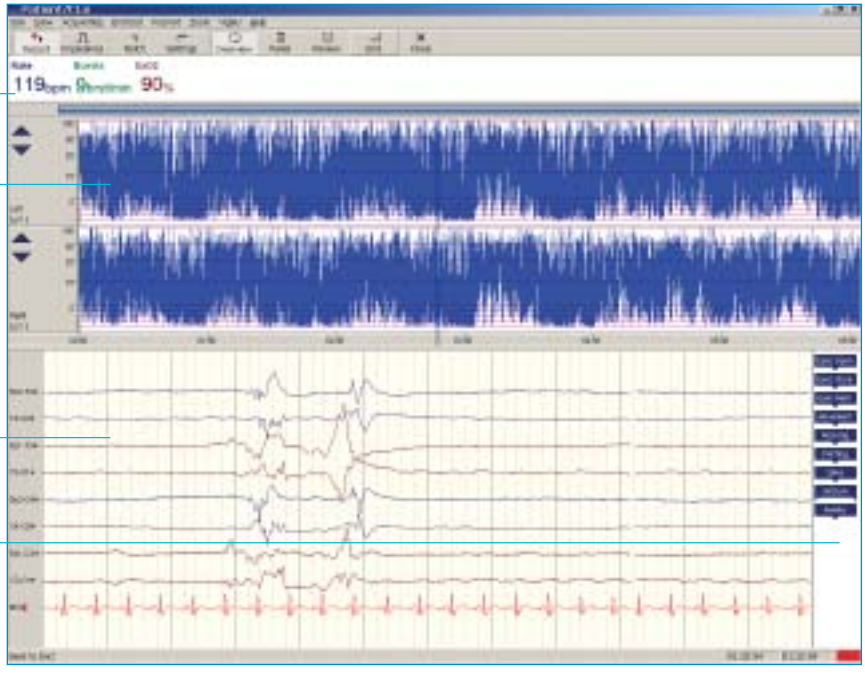
The amplitude-integrated EEG trend is used to easily monitor for seizure activity in newborn patients. The trend shows the variation in the amplitude in the EEG caused by critical change in brain perfusion.

Alert Strip — show status of selected parameters.

Trend Overview — touch the screen to display the corresponding EEG.

Live recorded data. Select Split Screen view to review while recording.

Quickly insert events from customizable Event Palette.



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Part No. 169-432701