Elevating Point-of-Care

Monitoring the newborn brain is not new technology – but it has improved

Over the last 30 years, neonatologists and neurologists have gained considerable knowledge about the newborn brain and neonatal seizures using amplitude integrated EEG (aEEG).

Point-of-care testing has evolved with modern technology, and today, aEEG is widely used in the NICU, becoming standard of care in many places. EEG provides useful information about neonatal brain health and prognosis.

Lifelines iEEG NICU systems, combined with our iEEG Cloud services, provide you with a dedicated, comprehensive, easy-to-use video EEG solution for the benefit of the newborn brain.

- Intuitive software guides user through the workflow
- Choose from different displays at the bedside, optimized for nursing and neurodiagnostic staff
- Easy set-up of electrodes
- Dedicated NICU trends to facilitate basic understanding of EEG data during cooling and other recording requirements.
  - aEEG and burst suppression
- Lifelines iEEG Cloud Services facilitate the consulting of specialists remotely

The NICU challenge – creating access to EEG

Access to EEG specialists for set-up and analysis is a great challenge in most NICUs. This challenge has inspired Lifelines iEEG to develop a pioneering solution for the NICU. We have created a simple-to-use, bedside EEG brain monitor, combined with a comprehensive EEG recording device, all developed to enhance the delivery and quality of patient care.
Lifelines iEEG NICU Solution Highlights:

• **The Lifelines R40 amplifier** is designed to ensure high-quality data collection in the most challenging environments. Because of its high input impedance, the R40 is able to record superior EEG with minimal skin preparation, protecting the newborn skin from breakdown and sores. Combine this amplifier with the Incereb neon to speed up electrode attachment and eliminate the need for subdermal electrodes.

• **Flexible number of EEG recording channels** provided, for different monitoring and/or recording purposes. You are no longer limited to the few channels provided by most aEEG systems.

• **Comprehensive trend package** designed for the NICU: aEEG, bursts-per-minute, inter-burst interval, burst-suppression ratio, and more.
  – Trends are calculated for any individual channels, or sets of channels.

• **Freshly designed and highly intuitive user interface** – easily adjustable to your recording and monitoring needs.

• **Lifelines iEEG Cloud Services** enables expert review of EEG data. Comprehensive client EEG review and patient information management software can be installed on any PC and is free of charge. The cloud-based software allows online review and facilitates global, professional consultation at a moment’s notice.

• **Smart software design** enables simplified workflow, making the system easy-to-deploy at the bedside.

• **Optimized for the highest levels of data security**, data encryption, and access controls. All password-protected data interactions appear in the system’s audit log.

• **HD video options**, with one or two cameras and several mounting solutions, are available.

• **Standard electrode sockets** on amplifier allow use of any standard electrodes.

• **Fully compatible with the Incereb neon 8 and 12 electrode arrays** for rapid and easy deployment.