

# Novel software describing EEG according to new international standard SCORE

Medical doctors at Haukeland University Hospital have developed a new and unique software within EEG diagnostics - SCORE EEG. It is the first software within this field to be based on the new international standard SCORE (Standardised Computer-based Organised Reporting of EEG). This new innovation is available through Holberg EEG AS, offering two products: SCORE Free and SCORE Advanced. The two products will make it possible to describe EEG studies in a way that ensures better quality of the assessments, better communication of results to referring physicians, and better opportunities for education and research. This will lead to better diagnosis and therefore better treatment of patients. The workload for users of the EEG will be the same as with normal manual method, but total costs will be reduced.

## ADVANTAGES

- More consistent reporting to clinicians, reducing the risk of misunderstandings
- Integration with EEG reduces greatly the need for manual input
- Provides access to examples of each described element
- Fast overview over key findings with graphical representation on a head model
- Better overview over previous EEGs from the same patient
- Easier comparison of the findings from different EEGs from the same patient
- Standardised coding allows for comparison of EEG data despite difference in input languages
- Search option to find EEGs with specific characteristics

## APPLICATIONS

Suitable for neurophysiological institutes where EEGs are performed

## TECHNOLOGY

The SCORE EEG software is a Windows desktop application, using Windows Presentation Foundation under .NET 3.5 and a SQL 2008 database. The software can be integrated with EEG readers and patient record file systems using plugin technology. There are two great innovations in the SCORE software. First, a report generator ensures clear and consistent EEG description and thus enhances the efficiency and quality of patient treatment. Second, the automatic update of a database simultaneously with the EEG description provides a unique searchable database of EEG findings for clinical, educational, and scientific use. Anonymized data are automatically transferred to a joint international database.



*Haukeland University Hospital*

## **THE TEAM**

### **Harald Aurlien**

Harald Aurlien is the inventor of the software. He is a chief physician and PhD with speciality certification within clinical neurophysiology and neurology. His present position is as a consultant at the section of clinical neurophysiology at the department of neurology at Haukeland University Hospital in Bergen. He is a board member of the Norwegian Medical Association's educational committee.

### **Jan Brøgger**

Jan Brøgger is a physician and PhD specialising in clinical neurophysiology, and is a board member of the Norwegian Medical Association's educational committee. He has been instrumental in the development and programming of the SCORE EEG software.

## **INTERESTED IN THIS TECHNOLOGY?**

### **SIMEN MALMIN BUSINESS DEVELOPMENT MANAGER**

**Phone:** +47 55 58 35 13  
**Mobile:** +47 975 70 453  
**email:** [simen.malming@bergento.no](mailto:simen.malming@bergento.no)

BTO is the technology transfer office in Bergen, supporting 8 research institutions in commercialization and technology transfer. Together these institutions employ more than 2800 researchers and have an research base of more than 3MrdNOK (billions). The researchers are involved in a broad range of exciting projects. Researchers, faculty and students from these institutions provide BTO with about 100 new innovative ideas and technologies each year. BTO's goal is to help researchers commercialise their research results to ensure that knowledge and inventions benefit individuals, society and industry.



**GUIDING GOOD IDEAS**