Joint ILAE-IFCN EEG Database Task Force

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Aims and Goals of the Commission

IFCN and ILAE have joined forces to develop an online interactive EEG database. The goal of the database is to promote education and research (i.e., research using the data stored in the database). The database will comprise: (1) Raw-data: de-identified EEG and video-EEG recordings; (2) Annotations - features extracted and stored using the SCORE system (which was developed as part of an ILAE-IFCN collaboration); (3) Distinct graphical user interfaces (GUI) to be developed for the two main functions: education (open access) and research (limited to approved users). It is an additional goal and an advantage to link the EEG database to neuroimaging and clinical databases.

Commission Activities and Accomplishments:

The Joint Task Force developed a detailed proposal for the development of the database, including the technical details and the costs. The proposal has been approved by the ILAE, including the budget for 2019. IFCN was

supposed to cover 50% of the costs, as agreed at the meeting in New Orleans, in December 2018, where IFCN was represented by its treasurer. However, the Executive Committee of the IFCN decided in February 2019 that the costs of the bridging solution were too high, and they opted to wait until the development of the final functionality. This will take 18-24 months, but the costs of running the final functionality will be much lower, because it will be fully based on an online reader (instead of the VPN version of the bridging solution). At present ILAE has a well-functioning online teaching course for EEG. After discussing this with the task force members and the president of ILAE, we decided to accept the proposal of the IFCN. In practical terms, this means that the costs of the joint EEG database will earliest show up in the budget for 2021. In 2020 we worked on scoring video-EEG recordings for the educational database.

Recommendations for Future Work:

During 2021, the Task Force will work closely with Holberg-EEG on finalizing the web-based, interactive database for education and clinical research.

Submitted by Sándor Beniczky, Chair