

Third PMT meeting on the EADC-ADNI Harmonization of Protocols for Hippocampal Segmentation

Wednesday, October 26, 2011

Participants:

Giovanni B. Frisoni	(GBF)	– IRCCS S. Giovanni di Dio - Fatebenefratelli, BS, Italy
Marina Boccardi	(MB)	– IRCCS S. Giovanni di Dio - Fatebenefratelli, BS, Italy
Martina Bocchetta	(MBocch)	– IRCCS S. Giovanni di Dio - Fatebenefratelli, BS, Italy
Clifford R. Jack	(CJ)	– Mayo Clinic, Rochester, MN, USA
Simon Duchesne	(SD)	– Laval University, Québec City, Canada
Lennart Thurfjell	(LT)	– GE

Dr. Boccardi and dr. Frisoni show the design of the project, the demographic features (age, sex, disease, ApoE) of the selected subjects for both the Benchmark and Validation Phase of the project.

- Benchmark Images: 10 subjects, 20 scans;

- Validation Phase: 15 subjects, 90 scans (between-subject factors: Scheltens's degree and Manufactures; within-subject factors: 3 time-point and Field strength). 14 subjects were the same for both 1.5 and 3Tesla, while one subject was different (no match 1.5-3 Tesla).

Demographic features were not perfectly matched, but the aim of the study was to focus on the whole range of the Scheltens's degree of atrophy.

No 3Tesla SIEMENS-Allegra scans were chosen for the whole project.

The abstract for the AAN 2012 has been submitted.

Dr. Frisoni suggests the strategy to outreach other scientific communities, besides the Alzheimer's Disease. A proposal for a symposium during the congress of the Society of Biological Psychiatry (SOBP) was submitted by Lei Wang.

Other participants suggest to slow down the dissemination to other communities, because it's quite premature, not having final results yet. The shared idea is to develop strategic cooperation with opinion leaders of other fields in order to set and replicate project to their own case, rather than to organize symposia for dissemination of results.

Dr. Duchesne suggests to disseminate also to the "automated segmentation algorithms" field, for instance during the MICCAI meeting.

He also suggest to get in contact with Simon Warfield for setting up a segmentation Grand Challenge for the next year.

Issues regarding the proper sample-size of labels for the validation of automated segmentation algorithms, the updates about the publication and distribution of masks and the "certification of tracers" movie developed by dr. Duchesne and his team will be discussed during the next meeting.

Dr. Boccardi briefly shows the Questionnaire prepared for the third round of the Delphi panel.

The presented slides are available at www.hippocampal-protocol.net.

The PTM will meet monthly, each last Wednesday, from 4 pm to 5 pm CET.

The next TC is scheduled for November 30, 2011.