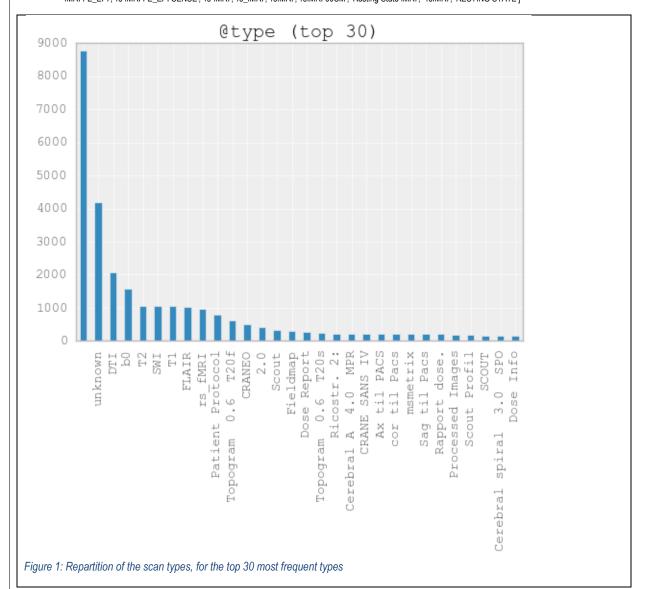
Database analysis – supplementary materials

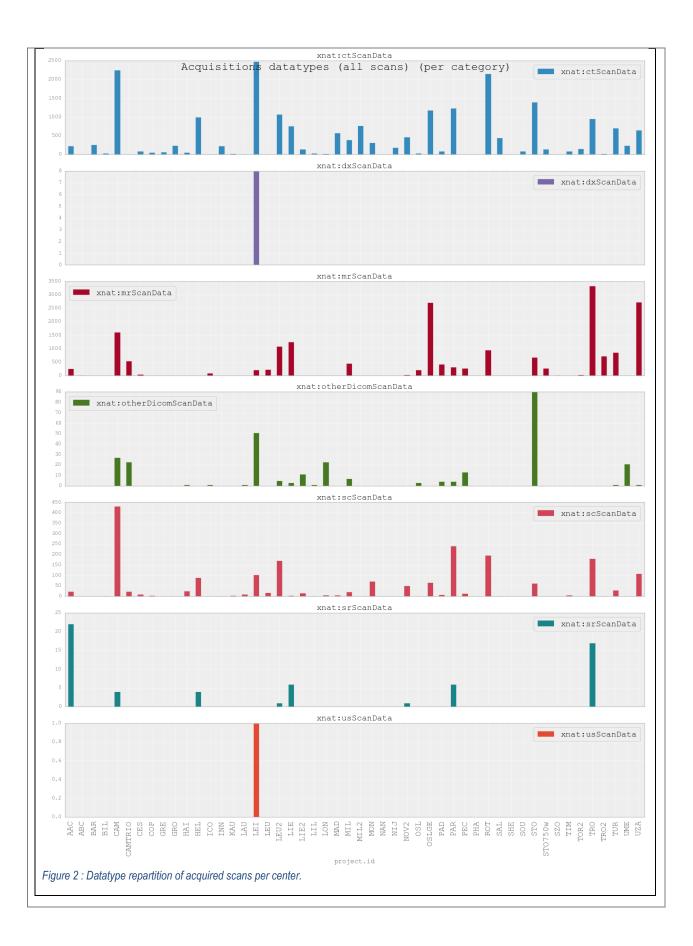
An exploratory statistical analysis was conducted on the database, in order to explore and ensure the availability of the data and the required fields for the subsequent connectivity analyses. This analysis allowed to isolate a few issues that are now or will be fixed, and also to identify the number of patients available for analysis.

The following figures were generated on the INCF XNAT database without access to GOSE, because the neurobot interface does not yet include all the required fields (such as the project.id, so we cannot know which center acquired the subjects). These figures are thus optimistic and show more subjects than will be used for rs-fMRI analysis (ie, no filtering by GOSE).

The following describe our observations:

- Discrepancies were observed in the project id (center names) between the acquisition database and the neuroimagery database. For example, CHU of Liège is BE-LI2 in the acquisition database, but it is LIE in the neuroimagery database. Also, project id is not yet available in the neurobot interface, discussions are undergoing to construct anonymized project ids.
- "rs_fMRI" type is not standardized for all scans, we found other scans types referencing resting-state fmri (not exhaustive, see Figure 2 for top 30): ['rs fMRI FE EPI', 'rs fMRI FE_EPI, 'rs fMRI FE_EPI SENSE', 'rs-fMRI', 'rs-fMR





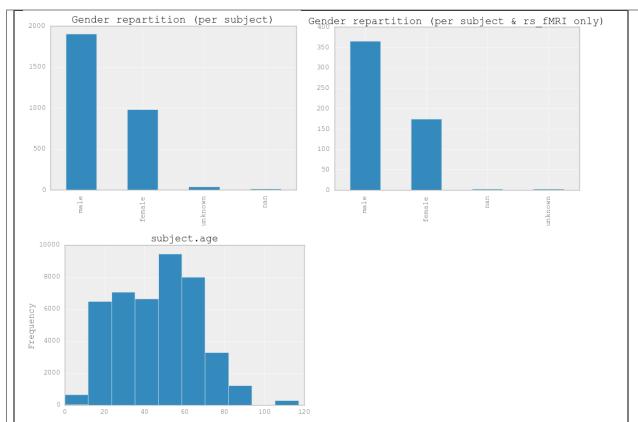
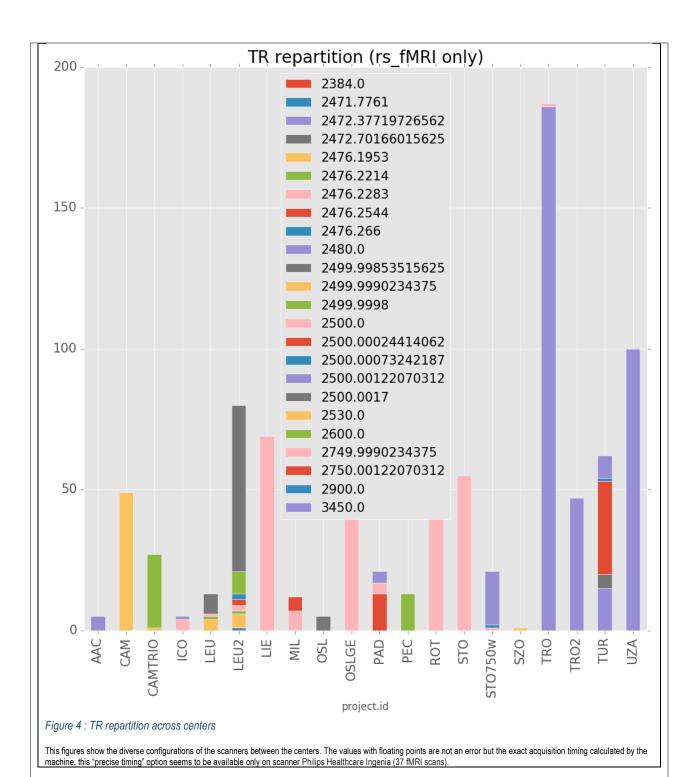
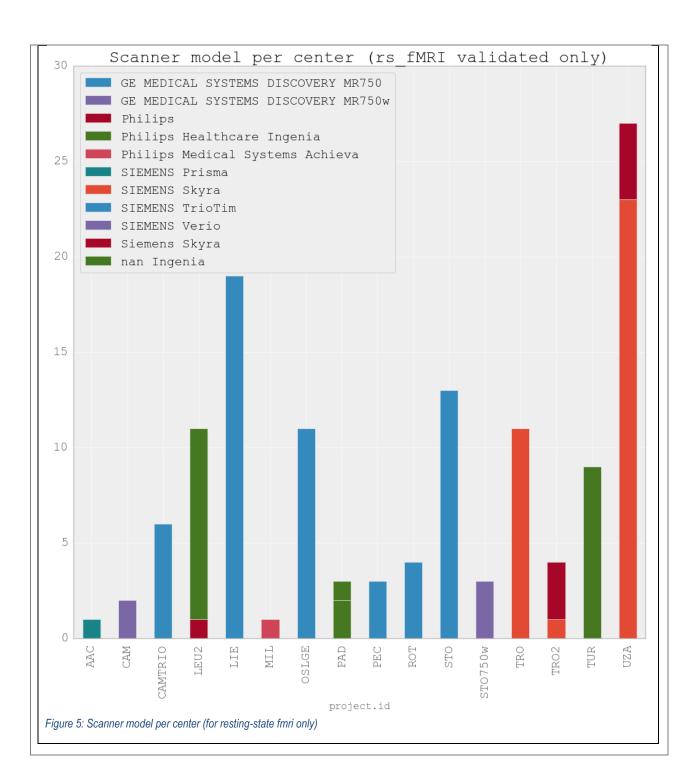
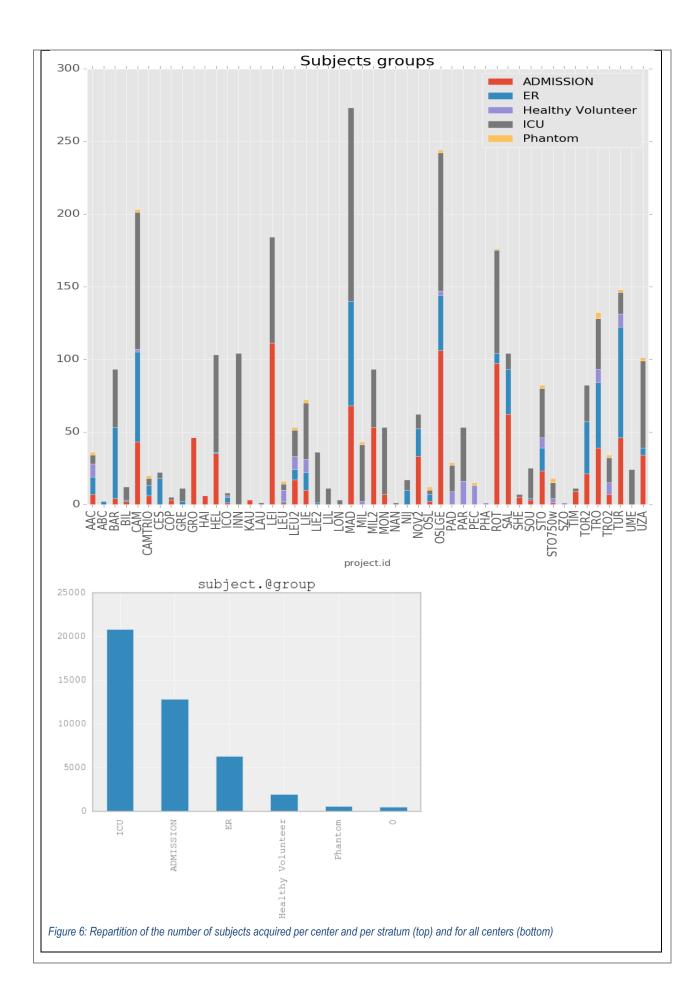
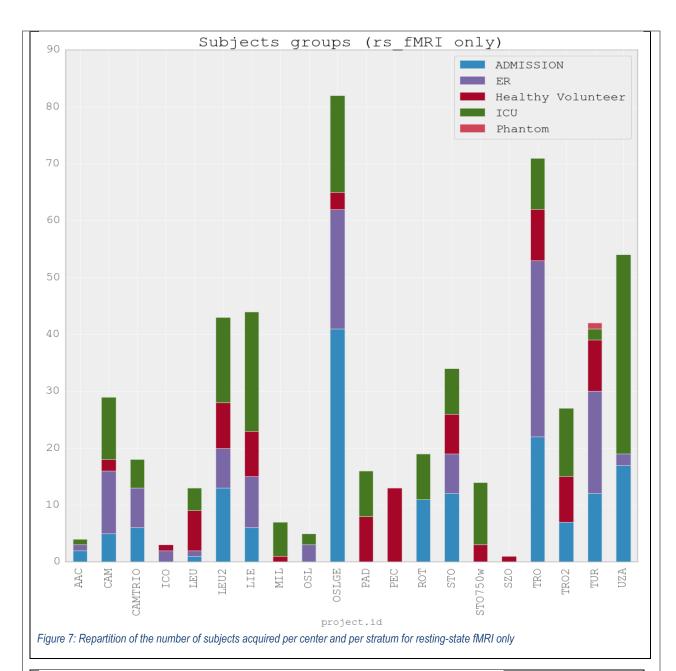


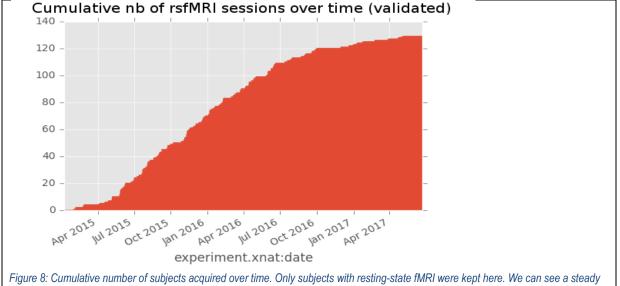
Figure 3: Summary of subjects demographics. Gender repartition for all scans (upper left) or for only resting-state fMRI scans (upper right). The age repartition (bottom left) is centered around 50 with most subjects of age 50 to 70, and some outliers (bugs?) can be seen having more than 100 years.











increase over time for all centers from the project's start of acquisition in 2015 to the end of 2017.

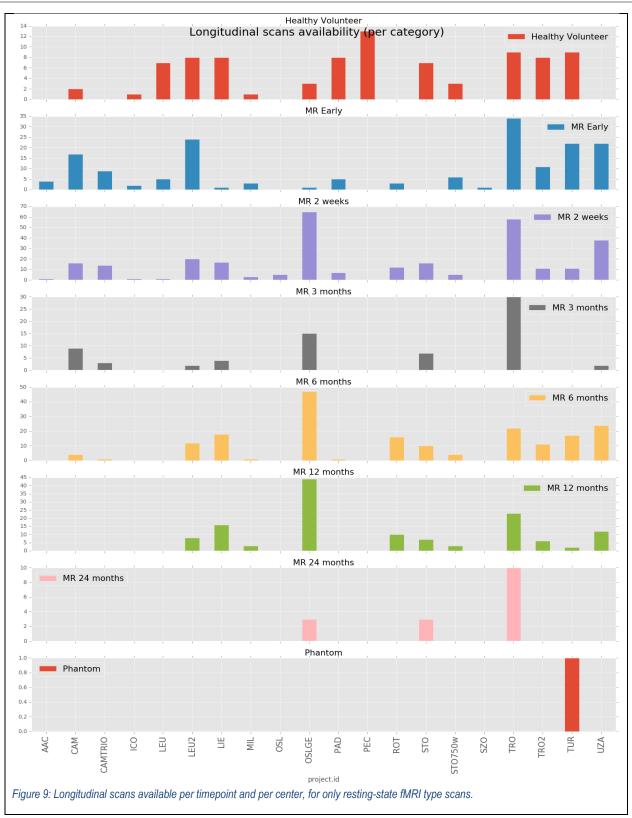




Figure 10: Current state of phantom acquisition per center