



Brain Center
Rudolf Magnus



WP3 neuroimaging deliverables & activities

Petr Marusic

FN Motol Prague CZ

Kees Braun

UMC Utrecht NL

1. open access publication on imaging standards and guidelines (EpiCARE website)

- E-PILEPSY survey results 2014 (*Mouthaan et al. Epilepsia 2016*)
- EpiCARE survey results 2016 (*Sulc et al., available at EpiCARE web*)
- published recommendations on imaging in epilepsy
 - when, in whom
 - how (MRI, field strength, sequences)
- E-PILEPSY systematic reviews on MRI (*Mouthaan, Rados, in progress*)
 - 3T – 1.5T: added detection rate 22% (focal epilepsy/FCD)
 - 3T – 1.5T: no added value in HS
 - 7T – 1.5/3T: added detection rate 29% (FCD)
 - HC ADC & T2 relaxometry: lateralizing value in MRI-HS: 33%&41% resp.
- E-PILEPSY systematic reviews on PET/SPECT (*Sulc/Marusic, in progress*)
- EpiCARE expert opinion recommendations
 - imaging in specific subgroups
 - survey & consensus discussions (in progress)



2. development of secure neuroimaging database for patients and controls

Controls

- neuroimaging database of healthy controls kept at ERN centres
- freely available data
- centralized storage of anonymized data
 - EU ERN IT platform or other place
- enable to create templates for postprocessing

Patients

- EU ERN IT platform



ongoing activities

- CPMS online imaging re-review pipeline
- optimize and implement morphometry analysis program in CURRY8 (*Compumedics, M Wagner / S Diedereren*)

