For research only

AssemblyNet-AD-FTD volumetry report

version 1.0 release 01-Dec-2022

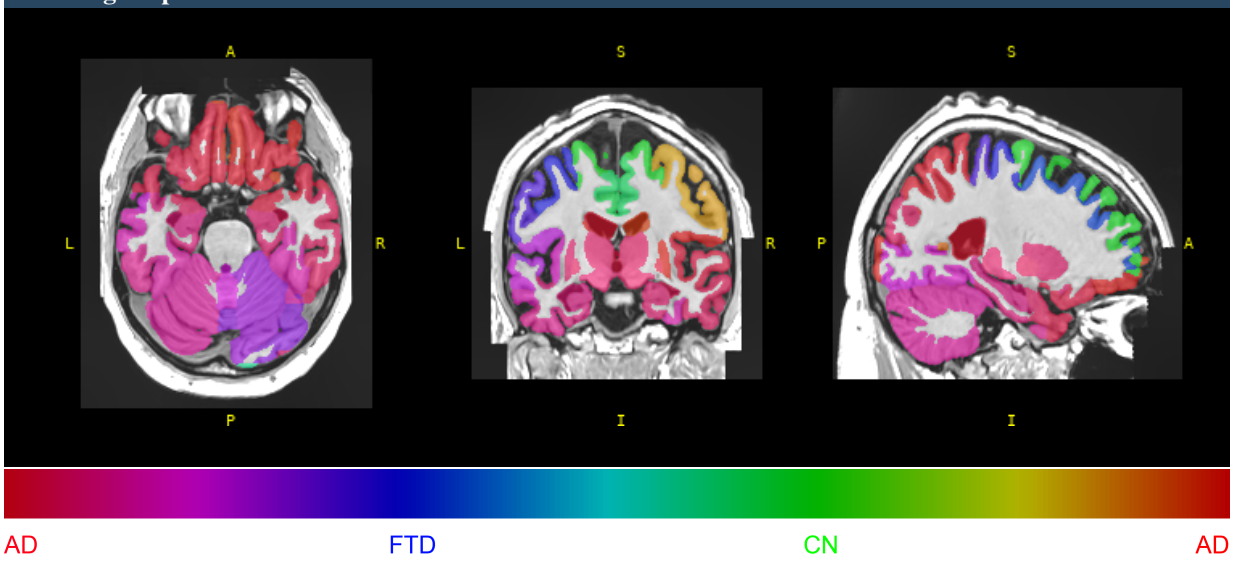
Subject: job1653390

Sex: Unknown
Age: 70.0
Report date: 05-Feb-2024
Quality control: A

Dementia diagnosis result

Class	Probability (in %)
Cognitively Normal	12.33
Alzheimer's Disease	80.12
Frontotemporal Dementia	7.55

Grading Map



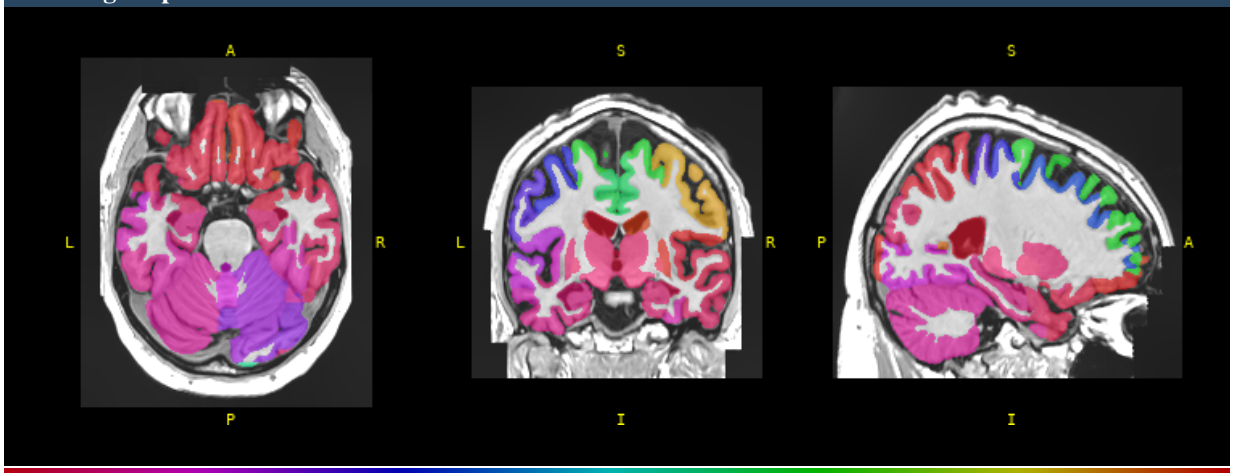
Huy-Dung Nguyen, Michaël Clément, Vincent Planche, Boris Mansencal, Pierrick Coupé, *Deep grading for MRI-based differential diagnosis of Alzheimers disease and Frontotemporal dementia*, Artificial Intelligence in Medicine, 144, 10/2023, pp.102636. PDF

These scores have been validated on AD patients, subjects with mild cognitive impairement (MCI) who will convert to AD in 3y, and patients with frontotemporal dementia (FTD). Only three sub-types of FTD were considered: behavioral variant FTD (bvFTD), semantic variant (SV) and progressive nonfluent aphasia (PNFA). Please do not use for other types of pathologies (e.g., Parkinson's, Vascular dementia, ...)

The quality control evaluates the input image quality after preprocessing. A = good, B = moderate (i.e., the output requires human verification) and C = bad (i.e., the output should not be used).

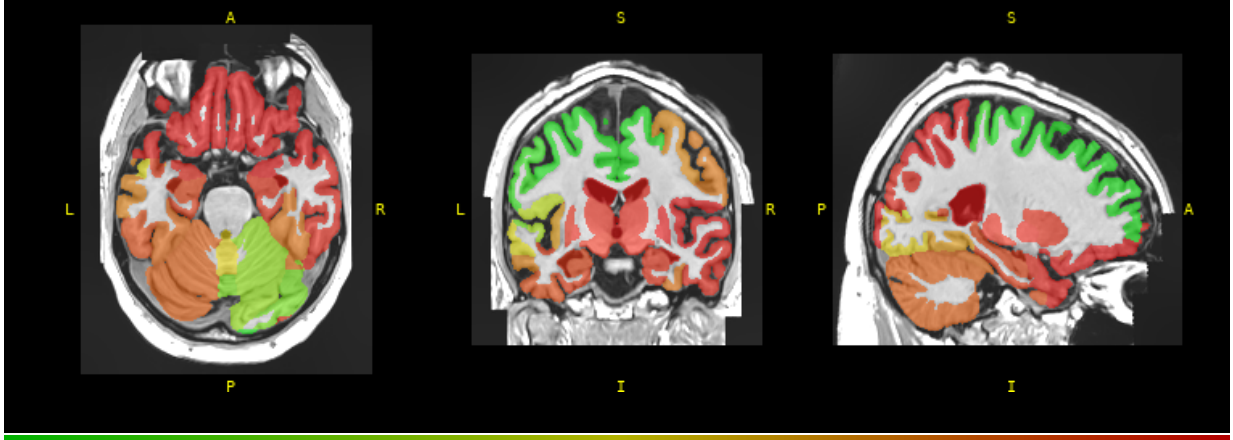
All the result images are located in the MNI space (neurological orientation).

Grading Map



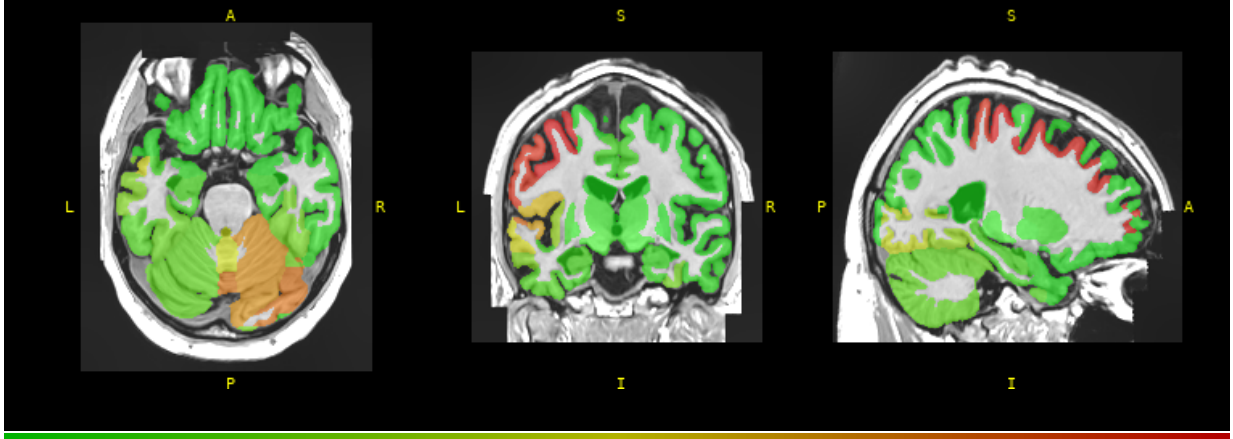
AD FTD CN AD

Grading AD



CN AD

Grading FTD



CN FTD