

ALFA Study Dataset: Longitudinal Multimodal Data for Preclinical Alzheimer's Disease Research Now on the AD Workbench

This dataset originates from ALFA+, a longitudinal cohort at the Barcelonaβeta Brain Research Center (BBRC) designed to study preclinical Alzheimer's disease in cognitively unimpaired adults. It includes participant-level data from **419 individuals at Visit 1 and 381 at Visit 2**, approximately three years apart, spanning demographic, clinical, cognitive, genetic, neuroimaging and CSF biomarker domains. At Visit 1, participants had a mean age of 61.1 years, 60.6% were female and 55.1% were APOE-ε4 carriers; at Visit 2, mean age was 64.2 years, 60.1% were female and 55.6% were APOE-ε4 carriers. The dataset supports cross-sectional and longitudinal analyses of preclinical AD risk profiles, biomarker patterns, cognition, behaviour and multimodal associations

ALFA Study dataset at a Glance:

Clinical & behavioural: demographics, diagnosis, medical and family history, vital signs, medication, HADS, MMSE, CDR, FCSRT, Semantic Fluency, TMT, WAIS-IV.

Neuroimaging: MRI neuroradiologist's visual reads (Fazekas, GCA, MTA, Koedam), hippocampal volumes (FreeSurfer 7), WMH volumes (BaMoS), Jack cortical thickness signature, amyloid PET Centiloids, FDG-PET Landau signature, and PET visual reads.

Genetics & biomarkers: APOE genotype and CSF biomarker status (ATN classification with proposed cut-offs).

About the ALFA Study:

The ALFA (Alzheimer and Families) project was launched in 2013 by the Barcelonaβeta Brain Research Center (BBRC), the research center of the Pasqual Maragall Foundation, as a research platform to identify early pathophysiological features of Alzheimer's disease in a cohort where **86.3% of participants had at least one parent diagnosed with the disease**. ALFA+ is its deeply phenotyped longitudinal sub-study of cognitively unimpaired adults, approved by the Independent Ethics Committee "Parc de Salut Mar" (NCT02485730). By making this dataset available on the AD Workbench, BBRC aims to accelerate global research into the early detection and prevention of Alzheimer's disease.

The ALFA study has received funding from "la Caixa" Foundation, with additional support from the Universities and Research Secretariat, Ministry of Business and Knowledge of the Catalan Government. Data sharing is supported by a grant from the Alzheimer's Disease Data Initiative (ADDI).

How to Access:

- Search for the ALFA Study Dataset on the AD Workbench (alzheimersdata.org).
- Review the dataset description, data dictionary, and available variables.
- Submit a data access request through the platform.
- Requests are evaluated by the BBRC Data Access Committee on scientific merit and alignment.
- Approved researchers access and analyse data in a secure virtual environment on-platform.
- All users must accept the Terms of Data Use and Publication Guidelines before access.

Scan QR code to access the ALFA Study Dataset on the AD Workbench.



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