

GeodAistics BrainGML®-AD

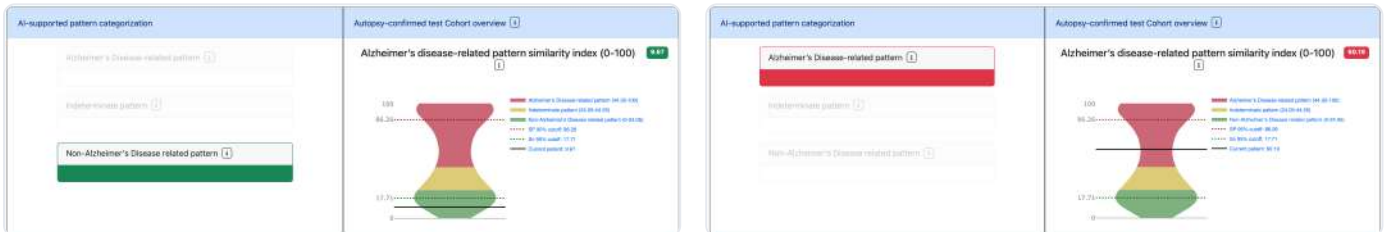
Regional atrophy pattern analysis for Alzheimer's disease detection

An adjunctive software that reads a routine 3D T1 brain MRI and returns an interpretable, **autopsy-referenced morphological pattern** — to support the radiologist's reading and the referral decision.

WHERE BrainGML®-AD FITS IN THE PATIENT PATHWAY



THREE-CLASS STRUCTURAL READ



The **AD-pattern similarity index (0-100)** places the patient against an **autopsy-confirmed test cohort**. The clinical study shows 92% sensitivity for 70% specificity versus autopsy. An indeterminate case indicates that the patient might be followed up by a clinician for confirmatory work-up.

INTEGRATED DICOM VIEWER – REGIONAL PATTERN MAPS



Red = regions associated with the AD pattern · **yellow** = atrophic regions *not* associated. Reviewed directly in the **integrated DICOM viewer** and delivered as one appended paragraph in the radiology report - no protocol change, no contrast, no extra acquisition.

HOW BRAINGML-AD COMPARES

	BrainGML®-AD	NeuroQuant (Cortechs.ai)	icobrain dm (icomatrix)	BBM (pTau217)	Amyloid PET
Regional volumetry vs age/sex norms	✓	✓	✓	—	—
Autopsy-referenced AD-pattern 3-class read	✓	—	—	—	—
Deliberate grey zone (defers intermediate)	✓	—	—	—	—
Region maps AD / non-AD	✓	—	—	—	—
TDP-43 / LATE limbic pattern	✓ (RUO)	—	—	—	—
Molecular evidence (amyloid / tau)	—	—	—	✓	✓
Invasiveness	None (MRI)	None (MRI)	None (MRI)	Blood draw	Radiation
Regulatory	CE IIa · FDA pending	FDA + CE	CE IIa + FDA	CE-IVD · FDA (2025)	FDA + CE

MAIN ADVANTAGES

- **Non-invasive**

- **Upstream**

BrainGML-AD adds an autopsy-referenced disease-pattern layer on the same routine MRI.

- **Complementary**

FOR RADIOLOGISTS

- Structured read of a routine MRI with **explainable AI**.
- Atrophy patterns **beyond visual thresholds**.
- One appended paragraph - no protocol change.

FOR REFERRING PHYSICIANS

- Supports **who to refer** - atypical / comorbid cases.
- Flags non-AD & indeterminate vs over-calling AD.
- Complements - never replaces - CSF / PET / BBM.



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