

# cMRI: Dementia Report

## Dementia Report

Neuroradiology Group

Name  
Dominic Alzheimers

Personal ID  
AD

Date of Birth  
1947-07-01

Sex  
Male

Study date  
2019-04-30

Images

T1: Approved

FLAIR: Approved

QC

Volumes (Percentiles)	Total [ml]
Cerebral gray and white matter	983 (≤1st)
Cerebral cortex	518 (≤1st)
Brain tissue WMH	10.2 (89th)

Volumes (Percentiles)	Right [ml]	Left [ml]
Hippocampus	2.5 (≤1st)	2.2 (≤1st)
Inferior lateral ventricle	1.5 (98th)	1.6 (≥99th)
Lateral ventricle	31.2 (94th)	34.2 (94th)

Differential scores (Percentiles)	Value
Hippocampal atrophy score - right / left	4.0 (≥99th)
Cortical atrophy score	3.1 (≥99th)
Computed callosal angle	99.8 (32nd)
Anterior vs. Posterior score	-0.0 (54th)

Comparison to cognitively normal people

Hippocampus volume [ml]

Cortical atrophy score

RIGHT

LEFT

LEFT RIGHT

Regions	Right	Left
Frontal lobe	2.6 (≥99th)	2.7 (≥99th)
Temporal lobe	2.9 (≥99th)	3.3 (≥99th)
Parietal lobe	1.7 (96th)	2.2 (≥99th)
Occipital lobe	1.7 (96th)	2.3 (≥99th)

Link to report: <https://usa-demo.cneuro.com/#/specialist/modules/210/cmri/273>

Report interpretation: <https://usa-demo.cneuro.com/cmri/reports/dementia?version=2.3.0>

Combinostics Oy, Hatanpaan valtatie 24, 33100 Tampere, Finland  
<https://www.combinostics.com/>

cNeuro cMRI 2.3.0

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- 1 Visual overview: T1 and FLAIR segmented images.
- 2 **Dementia specific volumes** and their percentiles in brackets.
- 3 Comparative percentile curves for hippocampus volume.
- 4 Link to report interpretation.
- 5 Clinic logo or address.
- 6 Patient information and study dates.

- 7 Automatic quality control: T1 and FLAIR images.
- 8 **Dementia specific scores** and their percentiles in brackets.
- 9 Distribution of cortical atrophy across the brain lobes, quantified for left and right sides.
- 10 Option to open exam in cMRI viewer.

# cDSI: Dementia Report Differential Analysis

## Dementia Report

MRI Differential Trend

Neuroradiology Group

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Name: **Dominic Alzheimers**

Personal ID: **AD**

Birth date: **1947-07-01**

Sex: **Male**

Study date: **2019-04-30**

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Image rejected by automated quality control, please review cMRI reports.

QC

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Probabilities for different etiologies

Summary

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Cortical atrophy score	Hippocampal atrophy score left	Hippocampal atrophy score right	Anterior vs. posterior score	Volume of white-matter hyperintensities
3.10 (≥99th)	4.00 (≥99th)	4.00 (≥99th)	-0.03 (39th)	10.19 (81st)

**Cortical atrophy score**

**Hippocampal atrophy score left**

**Hippocampal atrophy score right**

**Anterior vs. posterior score**

**Volume of white-matter hyperintensities**

■ Cognitively normal (CN)    ■ Frontotemporal dementia (FTD)  
■ Alzheimer's disease (AD)    ■ Vascular dementia (VaD)

▼ Patient's value

10 %    40 %    40 %    10 %

Comparison to diagnostic groups

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Link to report [/cdsi/#/specialist/modules/210/cdsi/273](#)

Report interpretation <https://cdsi/reports/dementia?version=2.2.0-release3895>

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<https://www.combinostics.com>

open in

cDSI 2.2.0

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- 1** Patient information and study dates.
- 2** Prevalence-corrected probabilities of diagnostic groups based on **MRI data only**.
- 3** **Dementia specific** imaging biomarkers from cMRI.
- 4** Link to report interpretation.
- 5** Clinic logo or address.
- 6** Option to open exam in cMRI viewer.
- 7** The distributions of **Dementia specific** imaging biomarkers in different diagnostic groups, and how the patient's values compare against them:
  - **Cortical Atrophy Score**: z-score measuring global atrophy – utilized as a clinical differentiator between CN and dementia patients.
  - **Hippocampal Atrophy Score** (Left and Right): z-score measuring bilateral hippocampal atrophy – a strong indicator of AD and FTD.
  - **Brain tissue WMH**: measures WMH - utilized as a clinical differentiator between VaD and other dementias.
  - **Anterior vs Posterior Score**: measuring anterior vs posterior atrophy patterns – utilized as a clinical differentiator between FTD and other dementias.