

Project title: DIADEMA: Neuroradiological workflow for the assisted DIAGNOSIS and management of DEMENTIA with Artificial intelligence	
Project ID: PNRR-MCNT2-2023-12378268	
CUP: C83C24000280007	
Description: Identifying, screening, and tracking individuals at risk for Alzheimer's disease (AD) and dementia presents a formidable challenge. Neuroimaging, and specifically magnetic resonance imaging (MRI), is crucial in detecting structural neurodegeneration. However, current quantification tools are primarily limited to research settings and yield non-standardized results. DIADEMA will construct a systematic and standardized workflow to support neuro(radio)logical diagnosis. By combining Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP) and by taking advantage of quantitative biomarkers obtained from processed MRI images, we will significantly bolster the clinical diagnosis of AD in neuroradiology. Our main hypothesis is that an efficient workflow and associated enhanced diagnostic accuracy will substantially reduce healthcare costs, support clinical decision-making by providing second-opinion tools and improve patient care. A simplified workflow will also improve the communication of neuroradiological results and answers to clinical questions using an automatic computerized procedure. This advancement will have a profound impact on the healthcare system, marking a major step in our fight against Alzheimer's disease and dementia.	
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IRCCS Role (Coordinator/ Partner): Partner	
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Website:	
<ul style="list-style-type: none"> • DIADEMA info: https://www.centroalzheimer.org/diadema-ai-e-imaging-per-un-nuovo-approccio-alla-diagnosi-delle-demenze/ • DIADEMA data federation via GIRDER: https://diademafbf.neugrid2.eu/# 	