

PRESS RELEASE

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Mediaire launches mdbrain 3.0 - a new tool for early diagnosis of neurodegenerative diseases like Dementia

Magnetic Resonance Imaging (MRI) is one important pillar for the diagnosis of degenerative diseases of the brain like Dementia. In combination with modern computer systems, brain regions of interest can be easily quantified in size and pathological processes can be detected. Unfortunately, these methods are often applied only when clinical symptoms, like signs of cognitive decline, become obvious.

mediaire, the developer of an AI-based software for image analysis, has now solved that issue and introduced the new software-solution **mdbrain 3.0**. The new system takes all available image data of a given patient from the past and analyses it holistically. As such, neurodegenerative processes can now be uncovered that might not be visible on a single image.

“With the longitudinal volumetry of our new product mdbrain 3.0 we are now able to move away from the pure description of pathology in late stages of brain diseases towards the possibility of early diagnosis. Now also subtle changes can be detected that can be easily overlooked even by a well-trained radiologist,” says Dr. Andreas Lemke, CEO of mediaire.

Technological basis of this innovation are new AI-based algorithms using Deep Learning techniques. The combination of precise brain volumetry and a huge dataset of several thousand healthy individuals allows to identify deviations from the predicted normal evolution and opens new diagnostic options. Moreover, the new version also analyses more regions which also enables diagnosis of several rare brain diseases affecting the brainstem. As well-known from mediaire already, all findings are presented in well-structured reports which can be made available to radiologists in less than 5 min.

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ABOUT mediaire GmbH

mediaire's mission is to improve the workflow of radiologists by more efficient quantitative image analysis.

Innovative software solutions powered by artificial intelligence (AI) enable us to analyse medical images in an increasing number of therapeutic areas and in a highly efficient way. Therefore, the complex and demanding daily routine of Radiologists with increasing workload will be supported and facilitated - to the benefit of their patients who experience an improved quality & speed of diagnostic and therapeutic procedures. With a fair pricing model, we also want to ensure that our customers do not have to make a trade-off between quality and costs.

mediaire was founded in 2018 in Berlin by Dr. Andreas Lemke and Dr. Jörg Döpfert – both physicists with a background in MRI physics. Despite its relatively short business life mediaire has already won a number of highly regarded competitions, including the GoogleCloud StartUp Pitch, the Science4Life Venture Cup, the Deep Tech Award and the German national competition „digital innovation“.

Since February 2020 mediaire ranked 2nd in the German StartUp-ranking across industries.

mediaire is officially certified as provider of medical products as per DIN EN ISO 13485:2016 which enables its products **mdbrain** and **mdspine** to be commercialized in Europe with a CE mark.

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