

Oncological imaging - AI is indispensable for lung tissue classification

Ev. Klinikum Niederrhein relies on contextflow SEARCH Lung CT for volumetric determinations and overview of distribution of disease patterns in the lung

VIENNA, VIENNA, AUSTRIA, June 30, 2022

/EINPresswire.com/ -- Artificial intelligence (AI) is here to stay. Prof. Dr. Jörg Michael Neuerburg is convinced of this: "Repetitive work in our specialties, such as the determination and comparison of measured values, is an excellent domain for the use of algorithms," says the head physician of the central department of Diagnostic and Interventional Radiology at the Evangelisches Klinikum Niederrhein (EKN).

It is therefore only logical that the radiologists at the EKN rely on AI-based software for lung diagnostics.

[contextflow SEARCH Lung CT is designed to help improve lung diagnostics](#) qualitatively and quantitatively and to support the estimation of the distribution pattern of, for example, emphysema, amongst others. "These distribution patterns are important to pulmonologists because they serve as the basis for setting valves to adequately ventilate the lungs. Therefore, we have adapted our findings to provide quantitative results on the extent to which, for example, the upper lobe is ventilated differently than the middle lobe after valve placement," Prof. Neuerburg explains.

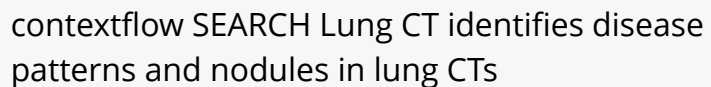
In addition, contextflow SEARCH Lung CT is used as part of staging for round heart detection during follow-ups. The previous examinations are compared with the current results in order to identify modular structural densities. In addition, the system detects new nodules and automatically measures the volumes of existing ones. In this way, the solution enables a reliable assessment of the course of therapy.

Artificial intelligence must be fully integrated



Prof. Dr. Jörg Neuerburg, Chefarzt der zentralen Abteilung für Diagnostische und Interventionelle Radiologie am Evangelischen Klinikum Niederrhein

About contextflow
contextflow is a spin-off of the Medical University of Vienna (MUW) and European research project KHRESMOI, supported by the Technical University of Vienna (TU). Founded by a team of AI and engineering experts in July 2016, the company has received numerous awards; most recently, contextflow was named a Born Global Champion 2021 by the Austrian government. contextflow is CE Marked and available for clinical use. Visit contextflow.com for more information.



the Austrian Chamber of Commerce. SEARCH Lung CT
within Europe under the new MDR. Visit



If AI means additional work, acceptance is low. This is a problem that contextflow has solved very well in collaboration with our PACS vendor VISUS. SEARCH Lung CT is perfectly integrated."

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