

## Press Release

### **Artificial intelligence helps to better differentiate lung diseases**

*The Radiology Group Practice Calw-Leonberg relies on SEARCH Lung CT from contextflow*

At the radiology group practice in Calw-Leonberg, clinical routine includes not only standard examinations, but also high-resolution, thin-slice CT examinations used for the diagnosis of lung diseases and lung nodules. With contextflow SEARCH Lung CT, it is now possible to perform better examinations - both quantitatively and qualitatively.

Every day, tens of thousands of CT slides have to be viewed and compared with previous examinations by the group's radiologists; the detection and measurement of disease patterns and lung nodules constitute a major challenge in terms of time. "In addition to more precise and faster diagnostics, the AI-supported software provides us with a plus in terms of sensitivity and sensibility," says Dr. Ekkehard Scholtz, Radiologist at Calw-Leonberg Radiology Group Practice. He is confident that the new software will save him around 30 percent of time in the future, freeing up time he can then use for his patients.

### **Ease of use in clinical routine**

"For lung abnormalities, SEARCH Lung CT offers a very large portfolio of disease pattern analyses. The segmentation of abnormalities works extremely well. In addition to pattern description and evaluation of possible differential diagnoses, the system also provides links to current medical literature," says Markus Krenn, Chief Product Manager at contextflow, describing the product's benefits.

Use is simple: a radiologist marks a region of interest from a scan in their native viewer, and then contextflow's user interface opens: disease patterns and nodules, their distribution and

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volume as well as a shortlist of possible diseases are available instantly. The radiologist evaluates the system's measurements and suggestions, supported by heatmaps indicating the distribution of these disease patterns and their measurements by volume. Finally, a PDF report is automatically generated with the final analysis results.

To further facilitate reporting for radiologists, contextflow is currently working on an update that not only lists lung findings, but also compares them over time. "The clinician is particularly interested in how the metastases behave - are they getting bigger or smaller - in order to assess their response to therapy. It's a challenging task because nodules often behave inconsistently. This is where the program is an invaluable help," says Dr. Scholtz.

### **Smooth integration into existing IT infrastructure**

The Calw-Leonberg radiology group opted for complete digitization of all processes at a very early stage. "We work completely digitally - from the distribution of examination orders to equipment registration, from speech recognition, image and material management to dose management. Many sub-functions converge in our system, and SEARCH Lung CT is one such deeply integrated sub-function," says Dr. Scholtz, describing the in-house IT architecture. This was ensured by the very good cooperation between contextflow, the practice's internal IT department and the software manufacturer Medigration, part of Bender Gruppe, with which the group has been working for many years.

In everyday clinical practice, the radiologists are grateful for anything that saves time and improves diagnostics. "The system is perfectly integrated and the workflow is so smooth that there is virtually no learning curve. We all use it automatically because we as diagnosticians get a real benefit for our patients," concludes Dr. Scholtz.



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### **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 Chamber of Commerce. SEARCH Lung CT is CE Marked and available for clinical use within Europe under the new MDR. Visit [contextflow.com](https://contextflow.com) for more information.

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