

Press Release

Advancement in Radiology - RadioReport



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Abstract

Advancement in RADIOLOGY: Berlin-based startup develops technology breakthrough for the next generation of the radiology workflow. LMU University Hospital Munich and Hospital Oldenburg are implementing RadioReport® solution. The medical concept for the RadioReport®-software was developed by a team of very experienced field-radiologists. Efficiency increases level up to over 40 percent in the reporting process. AI has also been fully integrated for faster image analysis.

Keywords: Workflow with Artificial Intelligence (AI) – RadioReport® - Radiological Workflow - AI-based Image Analysis

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On June 1, 2023 Neo Q GmbH started the "ACUTE" research project to further development of a procedure for accelerated, error-reduced and patient-oriented radiology reporting together with the Clinic and Polyclinic for Radiology, Munich at LMU Klinikum, Munich, Germany and Klinikum Oldenburg AÖR, University Institute for Diagnostic and Interventional Radiology, Oldenburg, Germany.

The aim of the ACUTE project is to further develop the Guided Reporting technology for emergency Computed Tomography (CT) of the skull. A further aim for outpatient and inpatient breast diagnostics, is to enable and implement direct communication with patients for the first time.

Automated processes supported by Artificial Intelligence (AI) shall make it possible to automatically answer the necessary clinical questions, exclude irrelevant suspected diagnoses and remove secondary findings that are not relevant to treatment from the automatically generated report. The FIHR interface, combined with Guided Reporting for the first time, will also allow lossless data sharing with other clinical software systems (interoperability).

"The project allows clinical questions to be answered automatically and accurately—empowering faster processing than with classical dictation. Voice control of the RadioReport® solution further reduces the reporting time" says Neo Q CEO Prof. Alexander Huppertz.

[Prof. Clemens Cyran](#) from [LMU Munich](#) adds: "For the first time worldwide, the use of AI is fully integrated into the workflow of radiologists, further increasing time savings. The radiological report quality is significantly increased and will be presented and evaluated

together with the therapy-relevant pathological and laboratory medical data." To achieve this, it is first necessary to define the relevant standards with the participation of all development partners. Then, in close coordination, the content and programming are developed and tested, and subsequently validated in clinical use.

The clinical partners in this project are recognized specialists. LMU Munich is one of the pioneers of digital reporting worldwide, has produced groundbreaking research and publications on structured reporting, and is now dedicating itself to Guided Reporting.

The [Radiology Department of Oldenburg Hospital](#) is headed by [Prof. Martin Maurer](#), who already brings intensive experience with this innovative reporting technology from his time at [Inselspital Bern, Switzerland](#).

The scientific and technical approach has convinced the funding body, the German Federal Ministry of Economics and Technology (BMWK), so that the project is being funded as part of the Central Innovation Program for SMEs (ZIM).

Interested individuals and sponsors can contact Mr. Jan Wintzer, Founder / Director of Marketing, at Tel. +49 30 863 236 400

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