



Radiology assistant - AI analyzes medical images autonomously

For the first time in the history of healthcare, it is possible to perform a medical diagnostic evaluation autonomously using an AI-based application. The use of automated chest X-ray evaluations - in emergency rooms, for example - could give physicians a decisive edge, speed up operations, increase the accuracy and speed of results, and reduce overall healthcare costs. Is this the dawn of a new era in healthcare?

The future of healthcare diagnostics lies in the use of artificial intelligence as an integral part of everyday clinical practice. An innovative AI tool from Lithuanian company Oxipit, which has received regulatory approval in the EU in 2022, is able to interpret X-rays without the assistance of a radiologist, offering a huge step forward for radiology, which has been working to fully automate parts of its work for several years.

The way the AI application works is that it retrospectively analyzes patients' CXR data, and the scope of analysis can include chest X-rays and radiology reports from several years. The tool then weighs the proportion of images without findings that can be determined with a high degree of certainty - and uses these to generate autonomous reports in the future. In the initial phase, the tool works in the background and overshadows the radiologist by marking X-ray images without findings, comparing them with the radiologist's reports and checking whether the radiologist has also marked them without findings. If there are discrepancies or conflicts between the tool and radiology findings, it is passed on to the radiologist in charge and his or her team and analyzed separately on a case-by-case basis.

However, since in primary care most radiographs are unremarkable, automating the analysis process can greatly reduce radiologists' workload. According to the company, no clinically relevant errors have been found in test applications of ChestLink. Nevertheless, the company cautions that when using the tool for the first time in a new environment, existing image programs should be reviewed and the tool should first be operated under supervision before going into autonomous operation.

INNOVATIVE TECHNOLOGICAL APPROACH

- ◇ **Company:**
Oxipit.AI
- ◇ **Product:**
ChestLink
- ◇ **Field of application:**
Radiology

Analysis of thoracic radiographs and radiology reports
- ◇ **Advantages:**
Improvement of the diagnostic performance

high accuracy

Identification of anomalies

Autonomous generation of finished patient reports in case of inconspicuousness

Fully DSGVO compliant

Reduction of healthcare costs
- ◇ **Website:**
www.oxipit.ai

Additional information about ChestLink

The company Oxipit expects the autonomous AI assistant to be used for radiological reporting as early as 2023. The prerequisite is that by then the first healthcare organizations agree to include the tool in their inventory and use it in everyday practice.

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