

XrAI

YOUR AI PARTNER IN CHEST RADIOLOGY

1QBit
Health Care

Now that helpful AI has transitioned from the realm of science fiction to science fact, medical professionals have the opportunity to embrace an instant second opinion that provides not only one additional perspective, but the combined knowledge of a vast network of radiologists through the power of machine learning. With XrAI as a trusted partner in diagnosis, every clinician can provide world-class care and create better outcomes for patients.

XrAI is both a quality-control and clinical-decision support tool that uses deep learning to classify and highlight regions of abnormality in the lungs and pleural spaces. It is not designed to replace clinicians, but rather to be a trusted co-pilot that provides immediate analysis of chest radiographs, enhancing their ability to diagnose accurately.

XrAI has been validated in clinical trials in Canada and is the first AI tool for radiology to be approved by Health Canada as a Class III Certified Medical Device.

HOW XRAI WORKS

Responsible AI

XrAI is built on robust scientific principles, utilizing sophisticated programming to provide physicians with transparency into the conclusions made by the algorithm.

Confidence Dial

A unique critical feature of XrAI is the confidence dial, which places control in the hands of clinicians. The confidence dial allows clinicians to dynamically control the output of the algorithm using an intuitive interface, providing unprecedented transparency into the performance of the algorithm.

Intuitive Integration

XrAI integrates into existing clinical information systems with no disruption to workflow. The results of XrAI's analyses are made available within a clinician's standard radiology viewer.



SOLUTIONS BASED ON RIGOROUS SCIENCE

Diversity is a crucial aspect of useful datasets, and XrAI was built using diverse data with extensibility and applicability across Canada and around the world. The algorithm was trained on hundreds of thousands of cases taken from anonymized radiograph images from Canadian health care organizations and open subscription-based datasets, covering different medical conditions across diverse populations.

The technology was tested and validated in an independent, single-blind randomized control clinical trial. The study results confirm that XrAI improves the quality of the clinical interpretation of chest X-rays by up to 20% for the participating physician groups.

Improves the quality of interpretation by up to 20%

INNOVATIVE SOLUTIONS FROM A WORLD-CLASS TEAM

Providing high-quality care with limited resources is one of the most important challenges a clinician faces. 1QBit's seasoned group of health care experts, machine learning scientists, and software developers are passionate about creating tools that empower frontline care workers with scalable intelligence. As a global leader in quantum software and AI, 1QBit is uniquely positioned to provide advanced solutions and superior results. By integrating leading-edge technology, scalable intelligence, and rigorous science in health care, 1QBit is determined to establish a new standard on how diagnostics and treatment are performed worldwide, and bring high-quality care to everyone, everywhere.



To learn more about integrating XrAI into your clinical practice, visit **1QBit Health Care**, or contact us at healthcare@1qbit.com.
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