# RAD*Logics*™

COVID-19 Solution Overview

Quantitative analysis of CT and X-ray scans for triage of patients and measurement of disease

- Analysis of CT and X-ray images for patients with suspected COVID-19 disease including a score and severity measurement to monitor findings over time.
- Fully integrated with existing IT infrastructure and workflow.
- Available worldwide directly from RADLogics supported by our cloud-based platform or through one of our major distribution partners including Nuance in the U.S. market.
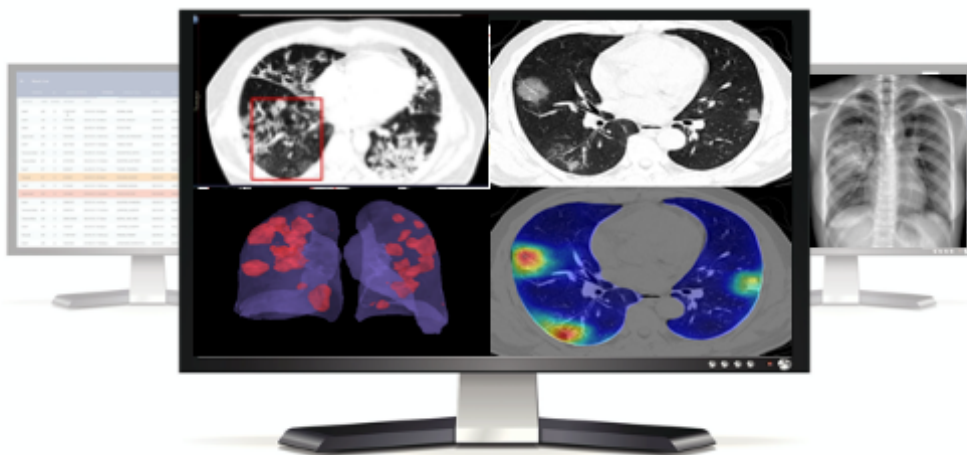
1. Global Cloud-based Platform

AI analysis platform of medical imaging
Supported by a global AI cloud-based platform that automatically analyzes DICOM data from CT and X-ray images to provide detection, measurements and key-images that are sent to existing radiologist workstation. Our patented workflow software platform enables rapid deployment of the solution at multiple hospitals using commercial cloud-computing resources through Amazon Web Services (AWS).

2. CT & X-ray Scan Modules

Comprehensive suite of applications covering various modalities
The software includes algorithms that not only detect abnormalities on chest CTs and X-rays, but also provide automatic triage alerts to the radiologist to help ensure potential findings are reviewed in a timely matter. The solution integrates into a comprehensive, seamless, and secure workflow to augment acute care teams with deep clinical insight and actionable data in minutes.

3. Quantitative Analysis & Scoring

Patient monitoring and track progression of disease
The software provides a volumetric measurement of the opacities burden. Computed by a volumetric summation of the network-activation maps. The score is robust to slice thickness and pixel spacing as it includes pixel volume. The volume percentage score provides clinicians automatic measurements of disease, thus allowing doctors to better manage a patient's treatment.

4. Increased Accuracy with Continuous Machine Learning

Our data is constantly updated with new cases
Data analysis on the collective wisdom of thousands of actual cases from installations and leading institutions around the world. This massive clinical database is constantly updated.

5. Validated in Clinical Studies

Tested and validated in ongoing clinical research
CT quantification solution tested and developed in collaboration with top medical experts from the U.S. and China including Dr. Eliot Siegel of the University of Maryland School of Medicine and Dr. Adam Bernheim of the Icahn School of Medicine at Mount Sinai. Based on research, the solution has demonstrated 98% accuracy in detecting disease in standard Chest-CT scans.

6. Comprehensive & Fully Integrated

Designed for easy integration. No changes to your workflow.
Our comprehensive solution is both cloud-capable and it can be installed on-premise. There are no extra steps and RADLogics' findings slide right into your current workflow. Radiologists do not need to leave their current screen to review the findings.

CT → **RAD***Logics*™ **AI-Powered Solution** → PACS ↔ REPORTING SYSTEM ↔ RIS
X-Ray →
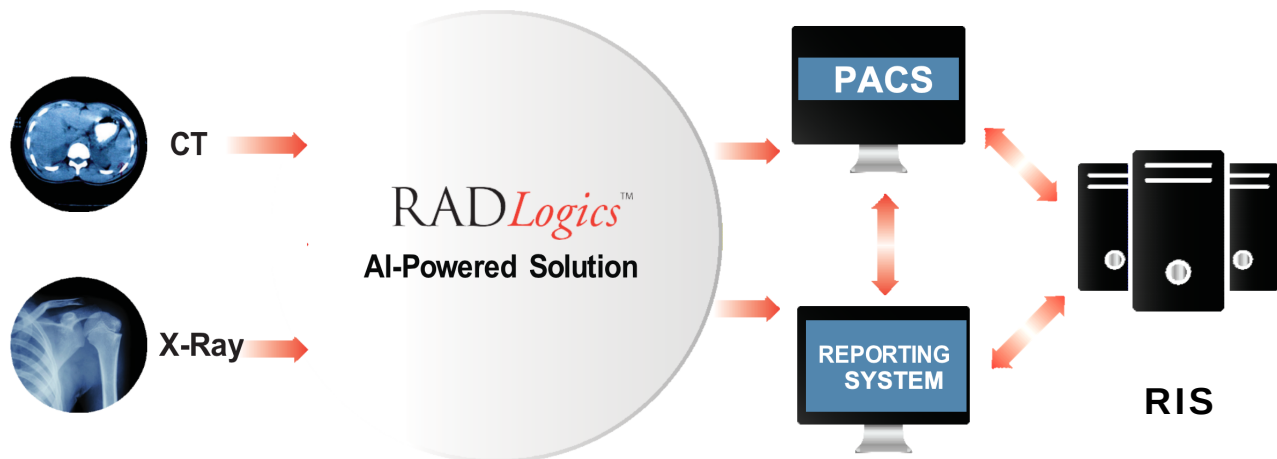
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RADLogics is a healthcare software company developing AI-Powered solutions that support image analysis to improve radiologists' productivity while enhancing patient outcomes. Based in New York, NY, US, and Tel Aviv, Israel, RADLogics is one of the pioneers in using AI & machine learning image analysis and advanced big data analytics to search and analyze imaging data from CTs, MRIs, PET scans, and X-rays to help reduce diagnostics turnaround time from hours to minutes by automating detection and report generation functions. The company's patented AI medical image analysis platform enables rapid development of AI algorithms, and provides seamless integration into existing radiology workflow. Visit www.radlogics.com/covid-19 to learn more.

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