

AI connect marketplace

What is AI connect?

AI Connect is a vendor neutral gateway which works with our own market leading RIS, as well as third parties. We create repeatable and scalable integrations to connect multiple different algorithms, meaning our customers benefit from a standard integration approach, allowing for consistent enablement of RIS integration and DICOM image movement which significantly reduces the complexity and scale of adoption for both the supplier and the customer.

AI Connect is available free of charge for use with our partnering algorithms. Our specialist healthcare systems are installed in 81% of trusts, affording our AI partners a unique opportunity to accelerate the adoption of their algorithms into UK radiology.

Arkangel Ai Algorithm

X-ray AI assistant for emergency department physicians and radiologists designed to analyze chest x-rays. It is a computer-aided triage and notification software indicated for use in the analysis of medical images. The App assists hospital networks and trained medical specialists in workflow by flagging in posteroanterior (PA) and anteroposterior (AP) chest x-rays with the following suspected findings:

- COVID-19 Pneumonia
- Common Pneumonia
- Atelectasis
- Consolidation
- Infiltration
- Pneumothorax
- Edema
- Emphysema
- Effusion
- Pleural Thickening
- Cardiomegaly
- Nodule
- Mass
- Hernia
- Fibrosis
- Pulmonary tuberculosis

The algorithm is designed to analyze images in parallel to the ongoing standard of care image interpretation. The user is presented with notifications for cases with suspected findings. Notifications include non-diagnostic preview images that are meant for support purposes only. The app does not alter the original medical image and is not intended to be used as a diagnostic device. The results of the device are intended to be used in conjunction with other patient information a medical specialist may have and, based on professional judgment, to assist with triage/prioritization of medical images. Notified clinicians are responsible for viewing full images per the standard of care.

How Arkangel Ai integrates with Cris

ArkangelAI integrates into the radiology workflow in a variety of ways. AI Connect moves the appropriate images from the local PACS to the algorithm, once processed the DICOM series from the algorithm is then moved into the original event in PACS.

The report urgency in Cris is changed based on the algorithm findings, allowing for greater worklist prioritisation. A standardised, provisional report is added automatically into the RIS with appropriate values and findings, removing the need for radiologists to input this detail manually.

Standardised details are added to the event comments enabling easy access to vital information from the algorithm to the radiologists. Finally, a feedback mechanism is provided to allow reporting clinicians to agree or disagree with the algorithm findings which both increases accuracy and confidence in the solution.



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