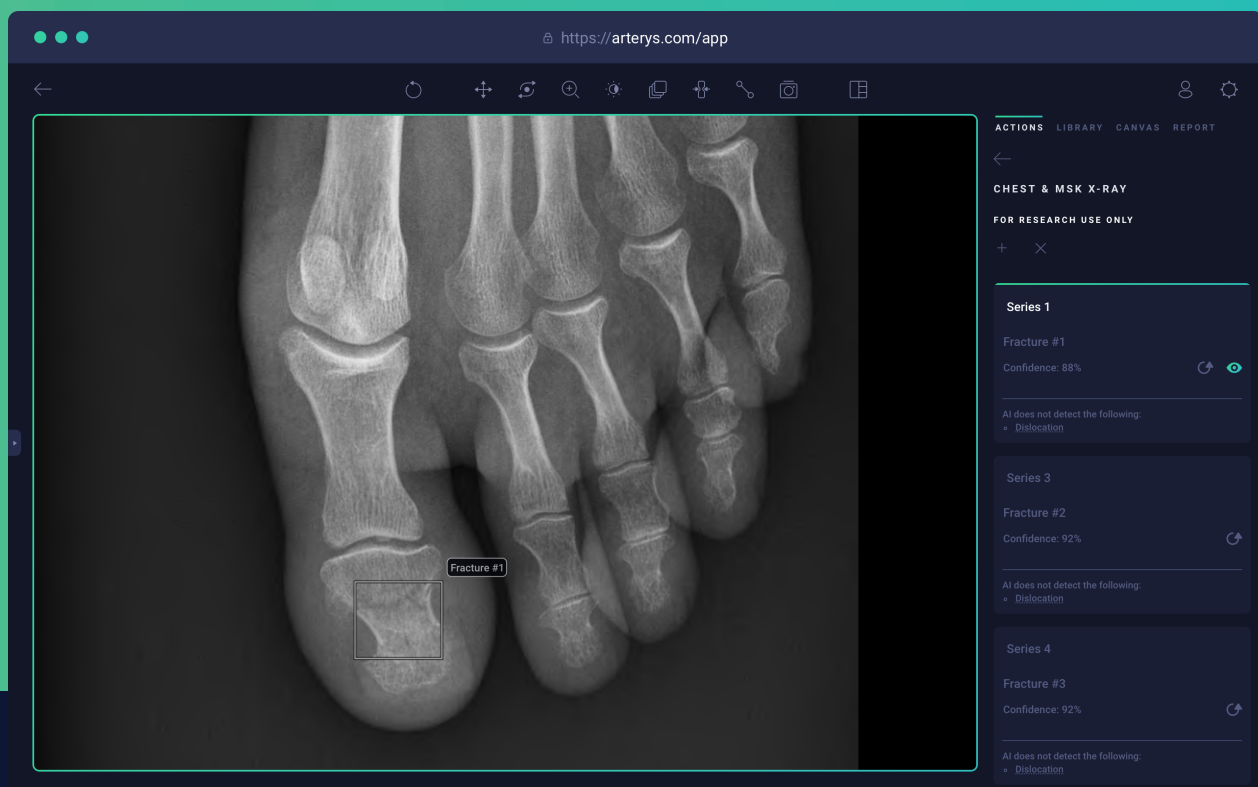


ARTERYS



AI powered by MILVUE

Product Data Sheet



Chest | MSK AI is CE marked and uses AI that automates detection in X-Ray images and delivers customizable reporting within minutes -- creating a secure H24 routine which helps physicians and clinicians to confirm their diagnostic decisions , and to increase the overall productivity to better focus on the patient.

Benefits

Increase productivity and decrease reporting time Accelerate

By integrating AI into X-ray imaging clinical workflows, Chest | MSK AI provides emergency physicians and radiologists with automated detection of abnormalities, measurements and customizable reports – that increases productivity and decreases reporting time by reducing tedious manual tasks and prioritizing urgent cases.

Fast Accurate Results

Chest | MSK AI is CE marked and leverages AI to quickly detect and report abnormalities in radiographs -- enabling physicians to make faster and more consistent triage and diagnostic decisions.

Optimized Workflow

Chest | MSK AI does not require on-premises hardware and results are accessible in your own viewer or through a single user-interface zero footprint viewer and an internet connection. It seamlessly integrates with existing PACS, EHR,worklist, notification, and dictation systems ensuring exams are read accordingly and consistently.



Features

Detection and Rule Out Support

Diagnostic assistance for fast and thorough interpretation

A trusted assistant for reading radiologist and emergency department X-rays, the Arterys Chest | MSK AI places bounding boxes around suspected areas and displays negative findings in the Arterys diagnostic cloud native viewer. The AI results are also made visible in PACS Viewers and automatically pre-dictated in reporting templates.

Flag in RIS/PACS Worklist

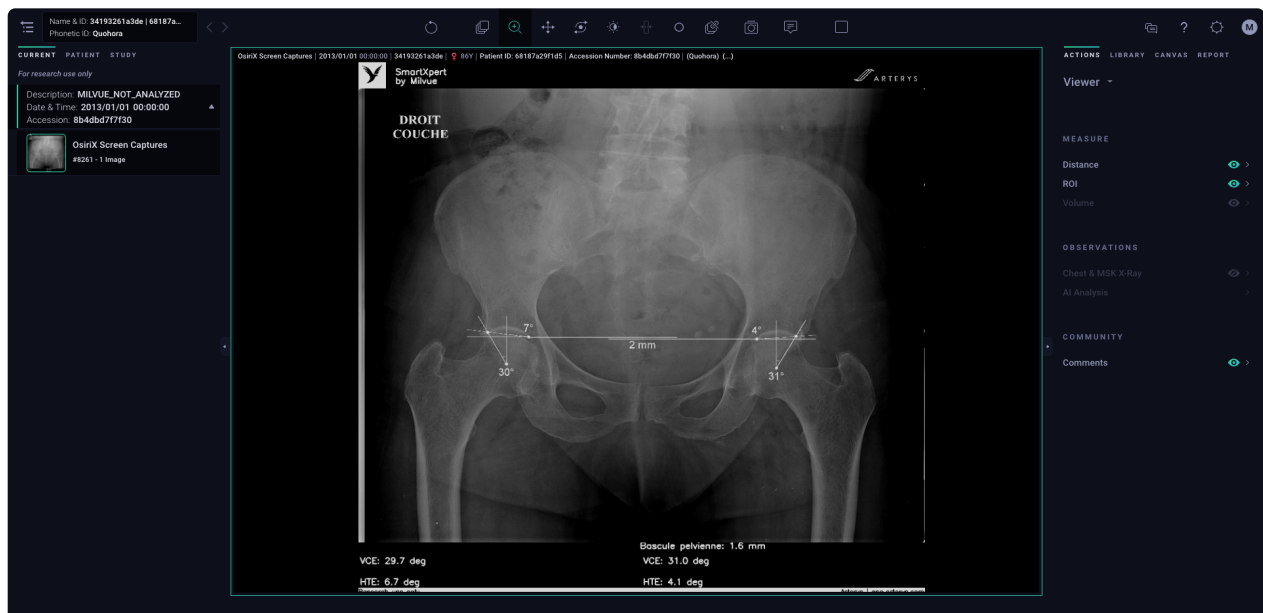
AI-generated "STAT" flags for smarter and unbiased prioritization

The algorithm automatically scans plain films and seamlessly pushes a STAT-like flag to RIS/PACS worklists, once an abnormality is detected.

Automatic measurement

This patented feature offers productivity gains by automating the standard measurements:

- Gonometry
- Coxometry
- Pelvic tilt
- Hip dysplasia
- Hallux-varus and hallux-valgus
- Opening angles of the forefoot
- Hollow foot, flat foot (Djian-Annonier angle)
- CSA angle



Common Pathologies in All View Types

Seven abnormalities in Chest | MSK x-rays of all view types (for adults and pediatric) The algorithm is trained to detect fracture, dislocation, elbow joint effusion, pleural effusion, pulmonary nodule, pulmonary opacity, and pneumothorax. It is capable of reading X-rays of all view types as well as images from portable X-ray machines.

AUC Score	
Fracture	0.979
Dislocation	0.989
Elbow Joint Effusion	0.992
Pleural Effusion	0.967
Pulmonary Nodule	0.934
Pulmonary Opacity	0.916
Pneumothorax	0.989

Robust Training

Trained with 100,000 x-rays from eight different institutions

The training set contains 1,000,000 ED X-rays harvested from eight different institutions and six different OEM vendors. The ground truth annotation was conducted by 15 radiologists of over 20 years of experience.

Automatic Report

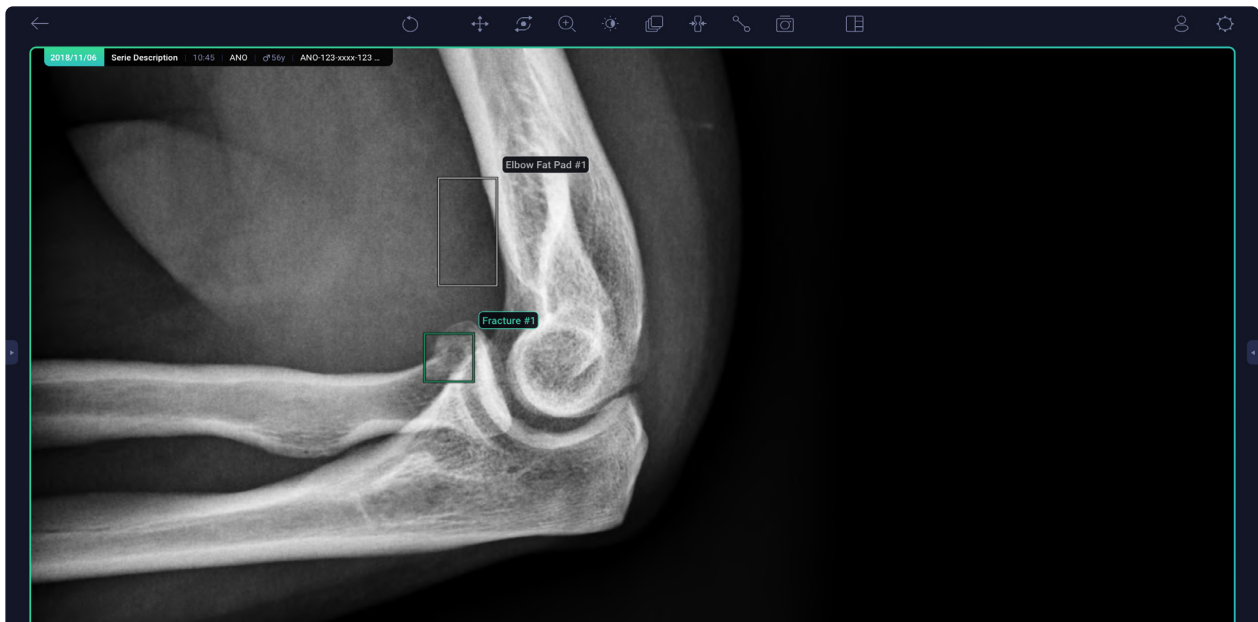
AI-powered automatic report dictation

For radiologists, the algorithm pre-populates the study description and findings in fields inside a dictation software. It will not submit a report without a radiologist's approval.

Incorporate Additional AI Models Into Existing Workflows

Increase and customize diagnostic assistance

In addition to the seven pathologies, diagnostic assistance of several more illnesses is at your disposal. Mix and match various algorithms clinically validated to suit your needs in X-ray workflow



The Arterys Platform Benefits

Cloud-based supercomputing	Zero Footprint Diagnostic web viewer	AI augmentation, interaction	Clinical workflow integration	Secure and Resilient
<ul style="list-style-type: none"> ✓ Blazing fast processing of imaging data with Multi GPU based rendering ✓ No heavy IT infrastructure required on-prem! ✓ Elastic scalability means you never have to worry about performance ✓ Low maintenance, always up-to-date, no-cost automatic continual updates 	<ul style="list-style-type: none"> ✓ Access images and tools anywhere ✓ All you need is internet ✓ Easily share cases and workspaces ✓ FDA and CE Cleared ✓ Fully interactive real-time visualization of DICOM images ✓ Web-based zero footprint viewer with full-screen mode ✓ Mac, PC, tablet and phone 	<ul style="list-style-type: none"> ✓ More consistent, accurate diagnostics ✓ Eliminates tedious and error-prone manual tasks ✓ CE marked & FDA cleared algorithms ✓ Data-driven decisions ✓ Vendor neutral AI, easily integrate any algorithm into clinical workflow 	<ul style="list-style-type: none"> ✓ Speed diagnosis with automated reporting ✓ Improve physician collaboration across geography ✓ Inject results and image/video into your reports. ✓ Study in-context URL launching with single sign-on means Arterys automatically moves with your workflow 	<ul style="list-style-type: none"> ✓ GDPR, HIPAA, SOC2 ISO 27001, Information Security Certified ✓ World class security comes standard, with ISO-27001, SOC-2 and HIPAA requirements for data security. ✓ Constant monitoring of adverse events maximize uptime, impact. ✓ Real-time interactive support is also available through in-app chat feature

System Requirements

Arterys is completely hosted in the cloud using Amazon Web Services (AWS) servers in several regions accessible globally through a Microsoft Edge or Google Chrome web browser by navigating to <https://app.arterys.com>

Internet Speed 3 Mbps up/down Internet connection with a maximum of 100 ms latency.

Website Access WebGL is enabled on the device used to access the Arterys website. WebSocket is not blocked. *Consistent experience across Mac, PC and mobile devices.*
Zero foot-print viewer no software installation required.

Browser Google Chrome Web Browser version 82 or above.
Microsoft Edge Web Browser version 80 or above.

Edge Service Custom software installed on a server within the hospital network or in the cloud to automate the sending of DICOM objects from the scanner to the cloud and to PACS while ensuring that the patient's protected health information (PHI) remains within the hospital network (refer to Edge Data Sheet)

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