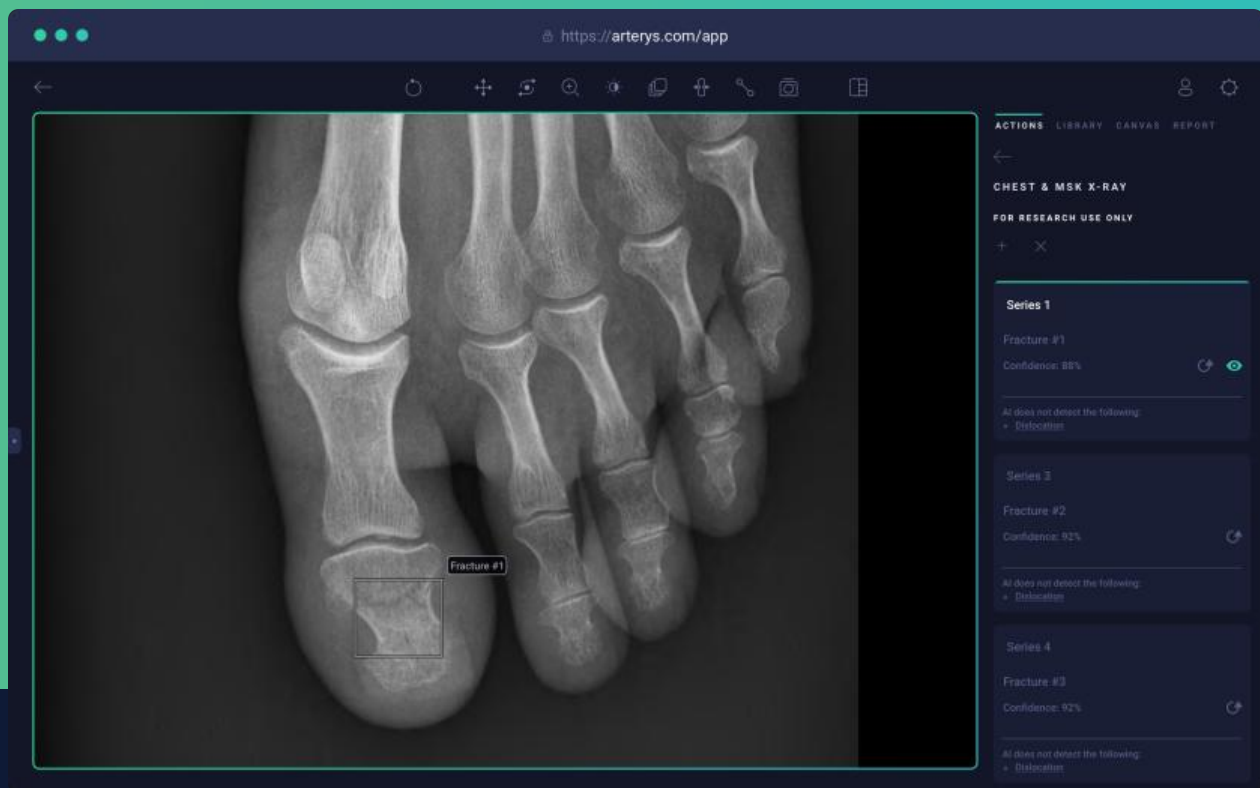


ARTERYS

CHEST | MSK AI XR

AI powered by MILVUE

# Product Data Sheet



The Arterys Chest | MSK AI application enables fast and thorough reading of emergency radiographs by providing AI-powered detection and rule out support with a user-friendly interface.

# Detection and Rule Out Support

## Diagnostic assistance for fast and thorough interpretation

A trusted assistant for reading emergency department X-rays, the Arterys Chest | MSK AI places bounding boxes around suspected areas and displays negative findings in the Arterys 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.



# Common Pathologies in All View Types

## Seven abnormalities in Chest | MSK x-rays of all view types

The algorithm is trained to detect fracture, dislocation, elbow joint effusion, pleural effusion, pulmonary nodule, pulmonary opacity, and pneumothorax.

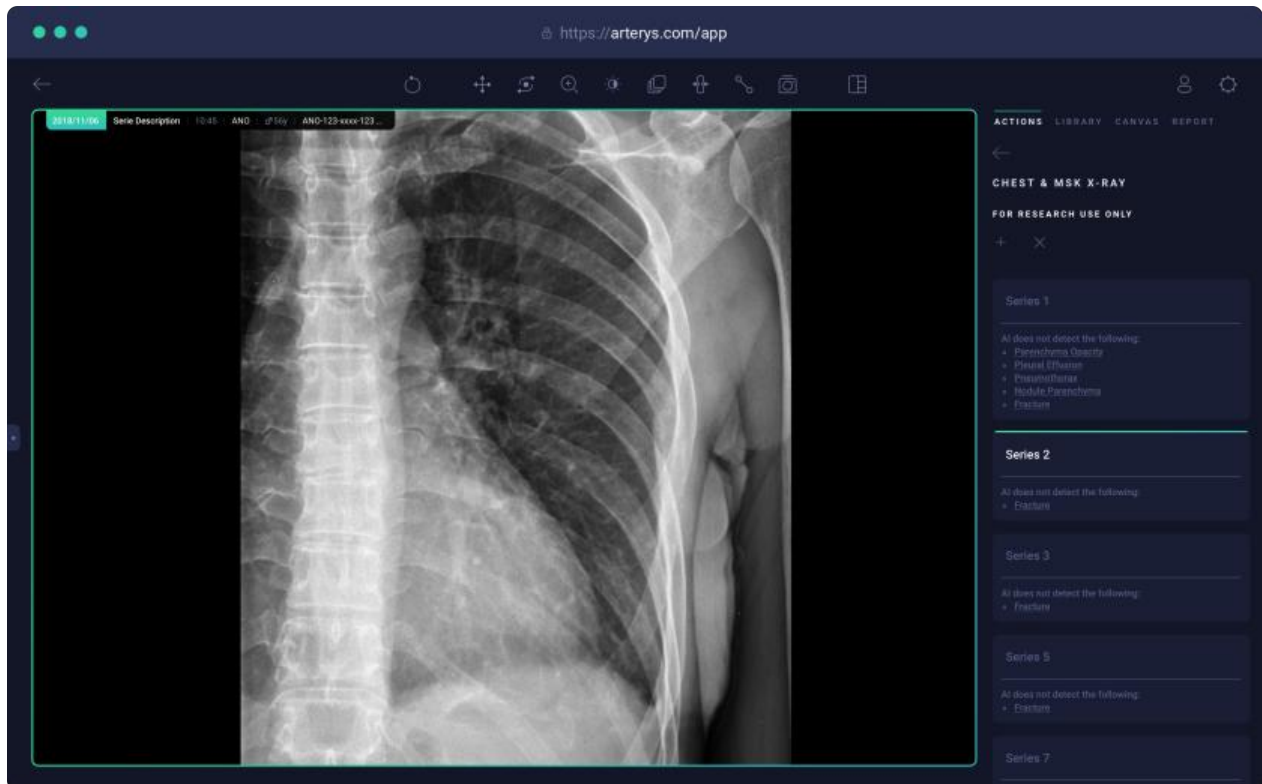
It is capable of reading X-rays of all view types as well as images from portable X-ray machines.

AUC Score	
Fracture	0.977
Dislocation	0.941
Elbow Joint Effusion	0.970
Pleural Effusion	0.983
Pulmonary Nodule	0.989
Pulmonary Opacity	0.950
Pneumothorax	0.975

# Robust Training

## Trained with 280,000 x-rays from eight different institutions

The training set contains over 280,000 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 fields inside a dictation software. It will not submit a report without a radiologist's approval.

# Leverage Arterys Marketplace

## Increase and customize diagnostic assistance

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

# System Requirements

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

<b>Internet Speed</b>	3 Mbps up/down Internet connection with a maximum of 100 ms latency.
<b>Website Access</b>	WebGL is enabled on the device used to access the Arterys website. WebSocket is not blocked.
<b>Browser</b>	Google Chrome™ Desktop Web Browser version 74 or above. Same requirements needed to run Google Chrome™: <a href="https://support.google.com/chrome/answer/95346">https://support.google.com/chrome/answer/95346</a>
<b>Screen Resolution</b>	1024x768
<b>Edge Service</b>	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)

# ARTERYS

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**FDA submission pending**  
**EU CE certified** (EU Notified Body ID #2797)

Software version 20.3.0 | Milvue AI version 0.1.6