AZMED

Augmenting doctors with the power of AI

Optimize your workflow with Artificial Intelligence

COLLABORATION PROPOSAL

Rayvolve

A high-performance computer-aided diagnosis tool that detects all types of fractures on x-rays

Rayvolve

AZMED

High-performance solution based on Artificial Intelligence

Automatic Detection
MSK, Chest

Sorting of exams
by priority order

Smooth integration
on all types of viewers

Clinical Studies

Scientifically validated performance
by the University Hospital of Cleveland

University Hospitals

2 626 patients

from 21 University hospitals

No image from the hospital

was used to train the algorithm

3 MSK radiologists

to define the Gold Standard

99%

Sensitivity / patient

89%

Specificity / patient

99.6%

Negative Predictive Value *

False Negative Rate = 0,4 %

Clinical Studies

Evaluation of Rayvolve for the detection of appendicular fractures in children conducted with CHU CAEN, Pediatric Radiology 2023

CHU CAEN NORMANDIE

878 patients

Under 18 years old

11 physicians

2 pediatric radiologists - 5 emergency physicians - 2 senior residents - 2 junior residents

Ground Truthing

2 pediatric radiologists (experience from 10 to 25 years)
only one being a study co-author

95.6%
Sensitivity / patient

91.6%
Specificity / patient

98.76% **Negative Predictive Value**

False Negative Rate = 0,4 %

Clinical Studies

Scientifically validated performance
by the University Hospital of Cleveland

University Hospitals

24 certified physicians

8 MSK radiologists

8 non-MSK radiologists

8 Emergency Physicians

No image from the hospital

was used to train the algorithm

67%

False negatives avoided

27%

Time saved

+ 9% sensitivity / case

+0.6% specificity / case

19% for MSK radiologists

33% for non-MSK radiologists

28% for Emergency Physicians

Study List

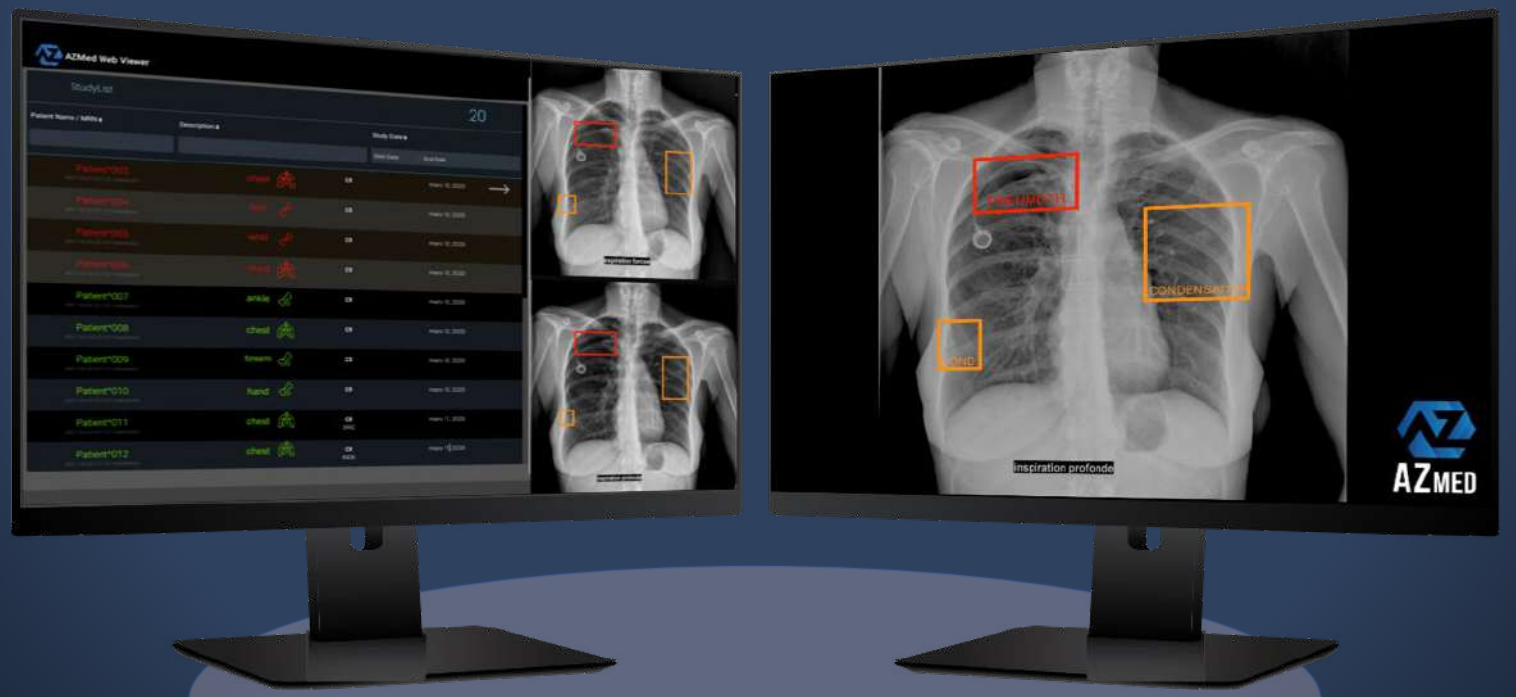
Seulement pour utilisation expérimentale Options

Series Défilement Zoom Niveaux Déplacer Longueur Annotate Angle Reset Ciné Plus Disposition Measurements

Rayvolve

Chest x-rays

Classification of detected chest pathologies



35,9%

Time saved

+11,5%

Sensitivity / Patient

Rayvolve

Chest x-rays

AZMED

Classification of detected chest pathologies

Consolidation

Pneumothorax

Pleural effusion

Acute Pulmonary Edema

Cardiomegaly

Pulmonary nodules

Costal grill fractures

35,9%

Time saved

+11,5%

Sensitivity / Patient

42 countries 5 continents > 1000 partners

Partners