azmed
Your AI Partner for Medical Imaging

Rayvolve® at a Glance

AZmed develops AI-driven solutions to enhance physicians' work-flows and improve medical imaging accuracy. Clinically validated by top institutions worldwide, Rayvolve AI-suite is one of the most widely used AI software on X-Rays. It is directly integrated and compatible with any PACS, RIS, or EMR environment.

+2500
Health Institutions

+15 M
X-Rays Analyzed per Year

+55*
Countries

Rayvolve® AI Suite

CE | FDA | Adults & Pediatrics

AZtrauma

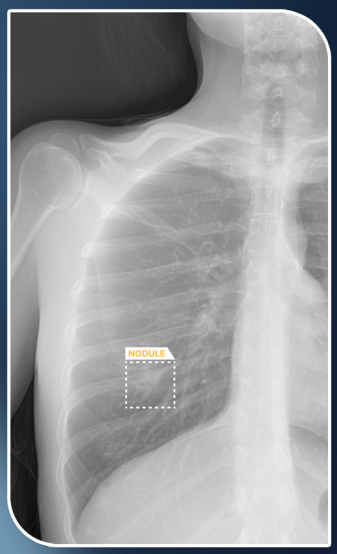
Detection | Worklisting | Findings Reporting

- Fracture
- Dislocation
- Effusion

99% Sensitivity

89% Specificity

NPV 99.6%



Detection | Worklisting | Findings Reporting

Adults & Pediatrics | CE | FDA

AZchest

96% Sensitivity

84% Specificity

NPV 98.0%

- Consolidation
- Pleural Effusion
- Pneumothorax
- Cardiomegaly
- Pulmonary Edema
- Pulmonary Nodule
- Ribs fracture

*including non-certified countries in which Rayvolve® is under trial

CE | Adults & Pediatrics

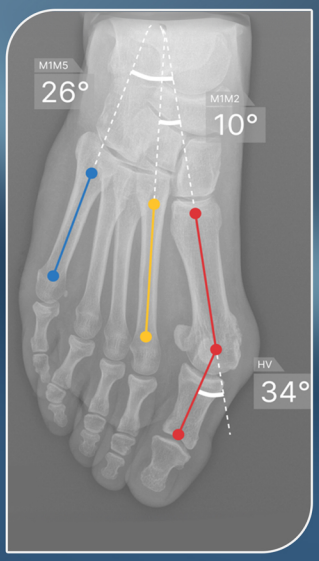
AZmeasure

Characterization | Automation | Findings Reporting

- **Spine (frontal, lateral)**
  Scoliosis, lordosis, kyphosis, pelvic balance
- **Lower limb (frontal)**
  Leg Length Discrepancies, Genu Valgum/Varum
- **Foot (frontal, lateral)**
  Hallux valgus, Flat/Hollow Feet
- **Hip (lateral)**
  Dysplasia, Femoro-Acetabular, Impingements

1.5° av. MAE* for. ANGLES

1.3 mm av. MAE for. LENGTHS



Pediatrics | CE

AZboneage

Characterization | Automation | Findings Reporting

0.5 yo av. MAE*

- Based on Greulich and Pyle Method
- Statistical Comparasion with Patient Chronological Age (Standard Deviation)

*MAE - Mean Absolute Error

Rayscan® AI Suite

AI CT analysis | Detection & Characterisation | Chest Screening

coming soon | Adults & Pediatrics

AZnod

- Detection and localisation of pulmonary nodules on chest CT scans, from 3 mm in diameter.
- Complete characterisation of each nodule: size, density, contour, composition, position.
- Classification of suspected nodules according to the recommendations of Fleischner.

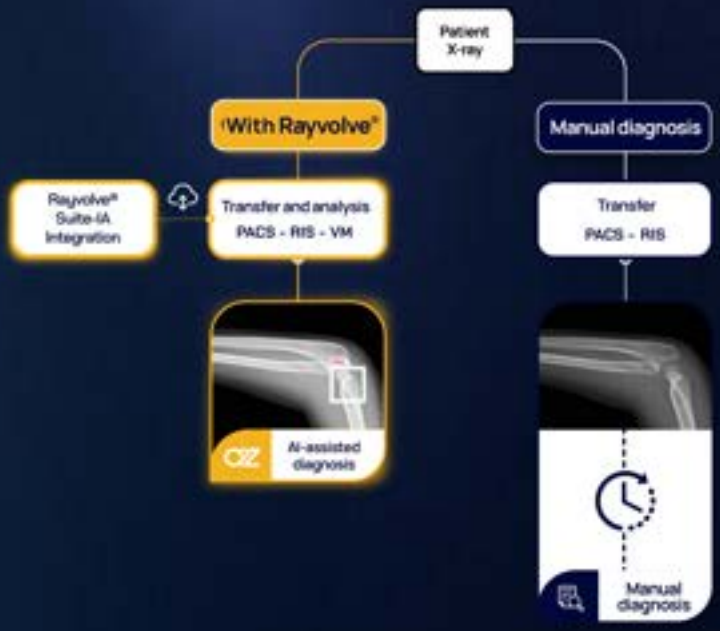
Rayvolve® Benefits

Workflow Efficiency

Rayvolve® reduces reader's Turn-around Time (TAT*) by up to **83%** and reading time by up to **36%.**

Diagnostic Precision

Rayvolve® reduces reader's false negative rate by up to **67%** and increases their sensititvity by up to **20.6%.**



*TAT = Turnaround Time

The results mentioned come from various clinical studies carried out on the Rayvolve® AI Suite in several healthcare establishments.

Testimonial

Dr Subhasis Basu
MSK radiologist at Wrightington Hospital (WWL NHS Trust).

The implementation of AZmed's Rayvolve AI software for fracture detection at our institution has particularly helped our junior clinicians and practitioners in the emergency department, especially out of hours with additional support in image interpretation and diagnosis, which in turn allows for a more efficient and streamlined patient treatment pathway into Orthopaedic fracture clinic.

Our Studies

US - Medical device Class II according to the 510K clearances.
Rayvolve: is a computer-assisted detection and diagnosis (CAD) software device to assist radiologists and emergency physicians in detecting fractures during the review of radiographs of the musculoskeletal system. Rayvolve is indicated for adult and pediatric population (≥ 2 years).
Rayvolve PTX/PE: is a radiological computer-assisted triage and notification software that analyzes chest x-ray images of patients 18 years of age or older for the presence of pre-specified suspected critical findings (pleural effusion and/or pneumothorax).
Rayvolve LN: is a computer-aided detection software device to assist radiologists to identify and mark regions in relation to suspected pulmonary nodules from 6 to 30mm size of patients of 18 years of age or older
EU - Rayvolve: Medical Device Class IIa in Europe (CE 2797) in compliance with the Medical Device Regulation (2017/745). Rayvolve is a computer-aided diagnosis tool, intended to help radiologists and emergency physicians to detect and localize abnormalities on standard X-rays.
US - Rayscan is not cleared or approved yet by the U.S Food and Drug Administration so it is not available yet for sale in the United states
UE - Rayscan: Medical Device Class IIa in Europe (CE 2797) in compliance with the Medical Device Regulation (2017/745). Rayscan is a computer-aided diagnosis suite of tools, intended to assist trained medical professionals in the interpretation of Computed Tomography Scans.
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