



The fastest way to diagnose
Heart Attack



CONTACT US

www.Phantomics.io
contact@phantomics.io
www.linkedin.com/company/phantomics

© **PHANTOMICS** reserves the right to modify product design and specifications contained herein without prior notice and shall not be held liable for any consequences arising from the use of this publication. The technical data in this document is subject to variations within defined tolerances. For the latest product specifications, please contact your local PHANTOMICS sales representative.

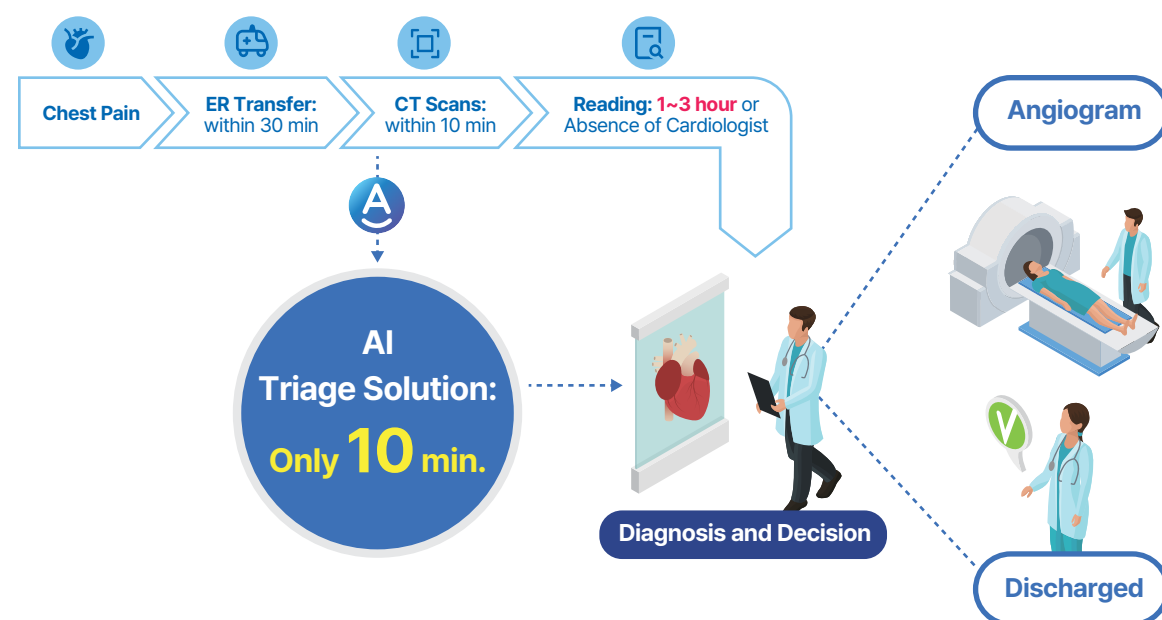


Angiomics

Angiomics is an advanced software solution designed to automate the diagnosis of acute coronary artery disease using coronary CT imaging. By reconstructing CT scans into 3D and segmenting major coronary arteries, Angiomics identifies stenosis exceeding 50% with unmatched speed and accuracy. It reduces diagnostic time from the traditional 60 minutes to under 3 minutes, enabling life-saving decisions during the critical golden hour.

The software is particularly effective for analyzing coronary angio CT scans for outpatients, allowing for more efficient and streamlined diagnosis. With automatically generated MPR (Multi-Planar Reconstruction) images and automated vascular analysis, physicians can interpret results more easily and accurately. It also provides multi-angle visualizations and supports the easy generation of diagnostic reports, further enhancing efficiency.

Angiomics simplifies complex coronary imaging into intuitive visual outputs, ensuring swift clinical interpretation even in emergency settings. Fully integrated with existing hospital PACS systems, it enhances workflow efficiency and provides reliable, data-driven recommendations for treatment or safe discharge. With proven adherence to AHA guidelines, Angiomics delivers precision and safety, transforming acute coronary care into a seamless and efficient process.



Angiomics for ER With Angiomics

Revolutionizing Cardiovascular Emergency Care with Angiomics

Angiomics delivers accurate diagnoses and treatment decisions for cardiovascular emergencies in under 10 minutes, ensuring faster, more effective care in critical situations.

Transforming Emergency Workflows

Rapid Diagnostic Support

Traditional workflows often take 1-3 hours for coronary CT interpretation, creating delays that impact patient outcomes. Angiomics reduces this time to just 10 minutes, providing actionable results when every second counts.

Enhanced Decision-Making

By offering AI-generated diagnostic summaries, Angiomics empowers clinicians to confidently decide between immediate interventions like angiograms or safely discharging patients.

Life-Saving Efficiency

Early diagnosis and treatment within the critical golden hour not only save lives but also prevent unnecessary interventions and optimize emergency room resources.

Why Angiomics?

Time-Saving Automation

AI-driven analysis eliminates delays caused by manual interpretations and staff availability.

Comprehensive Reporting

Summarizes critical findings in a clear, actionable format that integrates seamlessly into hospital systems.

Cost Efficiency

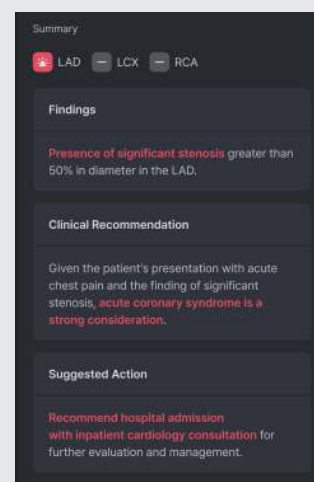
Reduces the burden on healthcare systems by streamlining workflows and minimizing unnecessary procedures. Angiomics isn't just about diagnosis—it's about transforming how emergencies are managed, ensuring better outcomes for patients and more efficient use of clinical resources.

Introduction of Angiomics

What is Angiomics?

Rapid Diagnostic Summary

Angiomics simplifies complex coronary CT analysis by automatically generating concise, actionable summaries tailored to clinical workflows. These summaries provide essential diagnostic insights, enabling fast, accurate decision-making and seamless integration into hospital systems.



Key Features of the Diagnostic Summary

✓ Actionable Findings

Highlights critical data such as stenosis severity, coronary involvement, and relevant clinical recommendations.

✓ Customizable Reports

Generates standardized, text-based reports that can be easily copied and shared across teams.

✓ Structured Output

Provides a clean and organized summary for integration into patient records and communication within the clinical team.

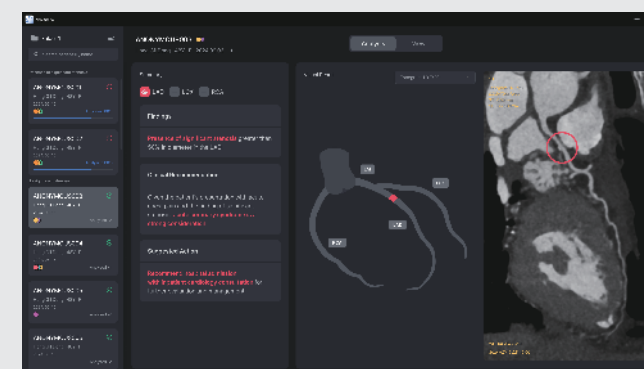
✓ Seamless Workflow

Optimized for PACS and other hospital systems, ensuring fast access and usability during critical care.

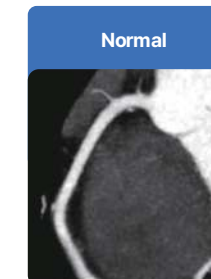
Angiomics Functionalities

Intro to Angiomics

Streamlining Diagnostics with AI

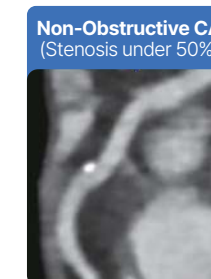


AI triage system for Acute Coronary Artery Syndrome

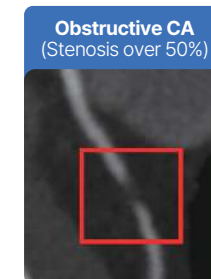


Normal

Discharge & Monitoring



Non-Obstructive CA
(Stenosis under 50%)



Obstructive CA
(Stenosis over 50%)

Admission & Care

✓ AI-Driven Stenosis Detection

Identifies > 50% stenosis in major coronary arteries with precision.

✓ Curved Multi-Planar Reformation (CMPR) Generation

Automatically creates Curved Multi-Planar Reformation (CMPR) images for enhanced visualization supporting both stretched and straightened views to provide comprehensive coronary artery assessment.

✓ Rapid Reporting System

Automatically generates diagnostic reports summarizing findings. Seamless upload to PACS for real-time clinical use.

✓ Deployment Options

Provides on-premise server or cloud-based solutions, ensuring secure and easy access anytime, anywhere.

Angiomics Functionalities Intro to Angiomics

Enhanced Imaging with Multi-View Analysis



- Automated MPR Generation & Rapid Stenosis Detection
- In-Depth Evaluation with Multi-View Analysis
- Seamless CAD-RADS Integration

✓ Multiple View Comparisons

Supports Short axis (SA), Long axis and arbitrary views for comprehensive evaluation.

✓ MPR Creation

Generates Multi-Planar Reconstruction images for better diagnostic precision.

✓ Centerline Extraction

Automatically identifies coronary artery centerlines for accurate visualization.

✓ CAD-RADS Integration

Assigns CAD-RADS scores for standardization and improved communication.

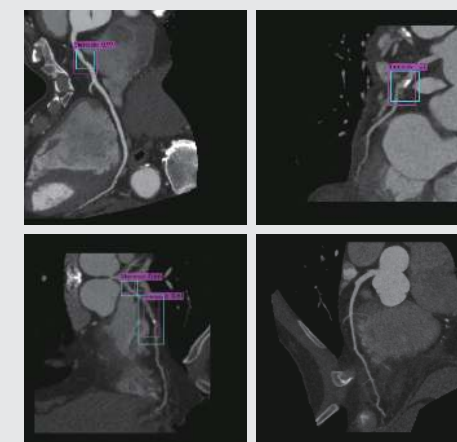
✓ Stenosis Visualization

Provides dedicated views for assessing stenosis within blood vessels, enabling precise evaluation of narrowing and its severity. This feature aids in diagnosing and monitoring coronary artery disease with greater accuracy.

Angiomics Functionalities Detection of obstructive CAD in CCTA

Analysis results

- CCTA analysis is complex, time-intensive, and requires expertise.
- DL algorithms enhance CAD assessment accuracy and efficiency.
- Multi-center analysis results
 - Sensitivity: 0.97
 - Specificity: 0.95
 - NPV: 0.97
 - Accuracy: 96%



Detection of Obstructive CAD in CCTA

Angiomics revolutionizes coronary computed tomography angiography (CCTA) analysis with advanced deep learning (DL) algorithms, enhancing diagnostic accuracy and efficiency for obstructive coronary artery disease (CAD).

Detection of Obstructive CAD in CCTA

✓ Simplifying Complexity

CCTA analysis is traditionally time-intensive and requires significant expertise. Angiomics streamlines this process with AI-driven automation, reducing both time and the potential for human error.

✓ Enhanced Accuracy

Deep learning models ensure precise identification and quantification of CAD, outperforming conventional manual interpretation.