



## Application Note

# Next generation AI-powered reporting and annotation for radiology

Fully integrated with  
powerserver™ | omegaAI®

書く
プレビュー

1 既往歴:[息切れ]  
2  
3 手順:[胸部の単純前後方向ビュー]  
4  
5 比較:[なし]  
6  
7 所見  
8  
9 肺:[右下肺腰の肺炎、少量の両側性胸水]  
10  
11 心臓:[心臓のシルエットの拡大]  
12  
13 縦隔:[縦隔は正常範囲内です]  
14  
15 印象

MD.ai 重要な調査結果 ->テンプレート #22 (AP Chest - Japanese)

保つ
元に戻します

[1] 息切れ、右下肺腰の肺炎、少量の両側性胸水、心臓のシルエットの拡大

① マッピングされた重要な調査結果のライン番号は括弧内にあります。

印象/要約セクションは除外されており、個別に検証する必要があります。

Orders (0)

×

Prior Reports

Finding	... 2025-01-28 13:05:35	2025-01-30 08:33:26	2025-03-06 10:17:26	2025-03-07 20:56:38	2025-03-12 16:50:28	
Left lower lobe opacity						
R91.8 - Other nonspecific abnormal finding of lung field	3.2 cm	4.5 cm	3.2 cm	3.5 cm	4 cm	

Size (cm)

Size 3.2 cm

Clinical Information

Accession	Exam	Description
AX6039T	XR Chest	AP Chest

Billing Codes

CPT Code: 71045 - Radiologic examination, chest; single view ICD-10 Code

- J18.9: Pneumonia, unspecified organism
- J90: Pleural effusion, not elsewhere classified
- J93.11: Primary spontaneous pneumothorax
- I51.7: Cardiomegaly

**MD.ai has established itself as a leader in reporting**, with advanced AI-driven tools for radiologists and clinicians. Using large language models, the platform simplifies clinical reporting for greater efficiency. MD.ai stands out with a suite of features, including multilingual support, code generation, and comprehensive end-to-end reporting with graphical lesion tracking. Together, these capabilities improve accuracy, workflow speed, and revenue management—pointing toward a new era of integrated generative reporting solutions.

How MD.ai Enhances RamSoft’s PowerServer and OmegaAI Platforms

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Integrated within OmegaAI and PowerServer, this comprehensive reporting solution offers centralized access, prior comparison, and tumor tracking capabilities. It provides a fully customizable template library at both the	organization and user levels, with options for sharing site-level templates. The platform supports DICOM Structured Report (SR) measurement integration, enabling automatic population of measurements into reports.	Users can control PDF font size and other formatting preferences. Additionally, reports can be dictated in a preferred language, with final output generated in English. Embedded reporting provides an intuitive and efficient user interface.
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## KEY FEATURES

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- AI-driven or traditional reporting modes
- Automatic prior report comparison
- Auto launch reporting template
- Inserts user-defined guidelines into the report
- Lesion tracking charts showing changes over time
- Inserts DICOM SR measurements into reports
- Template customization by organization or user
- Access an addendum and sign reports via phone
- Report signing workflow with optional proofreading
- ICD and CPT billing codes are auto generated and saved with the final report
- Automatically calculate volume from three-dimensional measurements in a report

## KEY BENEFITS

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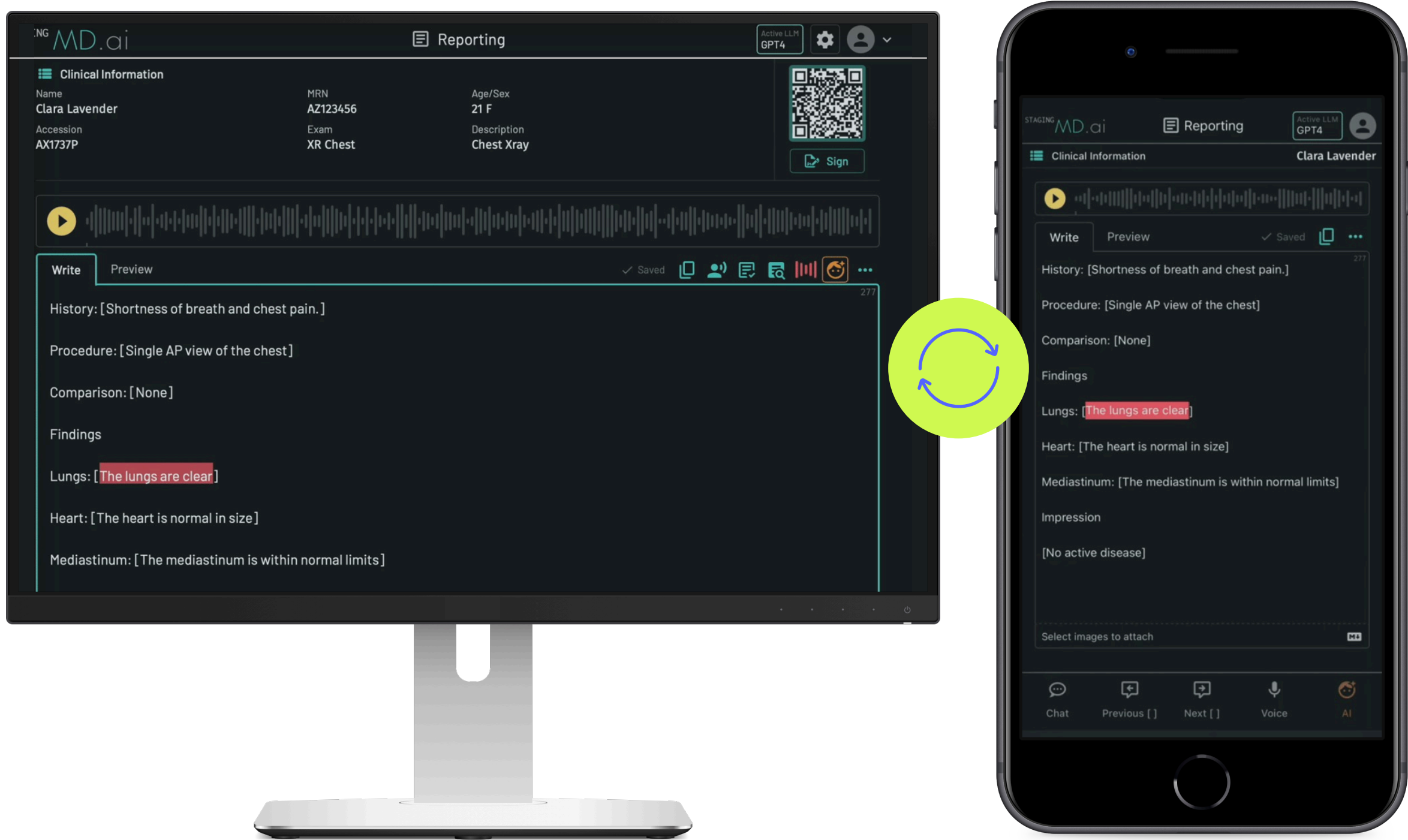
- No need to voice train the system
- Picklists save time over lengthy dictation
- Use an alternative microphone with your device instead of a standard speech microphone
- Real-time sync across devices: start a report on one device and finish on another
- Incorporate AI image findings from other software into the report.
- The system selects the correct template as soon as the radiologist starts dictating
- Compatible with desktop, laptop, tablet, and mobile
- Dashboard for tracking usage and accountability
- Multi-language support



# Improve speed and accuracy

Auto-populated measurements help reduce reporting errors, while automated proof-reading identifies discrepancies. AI-assisted report comparisons and lesion tracking improve the efficiency of reporting. Guidelines such as BI-RADS, LI-RADS, and TI-RADS are automatically incorporated into reports.

AI-powered automation relieves radiologists of administrative tasks, enabling them to dedicate greater attention to interpreting studies.



A custom QR code allows the secure pairing of mobile devices with a report and enables the device to be used for VR dictation.

CHATMD.ai

Reporting

Clinical Information

Name

Jane Doe

MRN

072525

Age/Sex

34 M

Accession

AX4377

Exam

US Heart

Description

ECHO/CALDERON

QR Code

Sign

Reports Panel / Priors (1/1)

Sign

Write

Preview

1

Sonographer: [Tracie Trim]

2

Image Quality: [Good]

3

History: []

4

Comparison: [2025-06-28]

5

6

Conclusions:

7

[Normal exam]

8

9

Detailed Report:

10

[Normal left ventricular size and systolic function, EF 59.0% (Simpson's biplane method). Mild concentric left

11

ventricular hypertrophy. No resting regional wall motion abnormality. Normal diastolic function.]

12

13

[Normal right ventricular size and systolic function.]

14

15

[Mild left atrial enlargement. Normal right atrial dimension. Intact interatrial septum on 2D and Doppler

16

imaging.]

17

18

[Sclerotic trileaflet aortic valve. No stenosis. Trivial regurgitation.]

19

20

[Sclerotic mitral valve apparatus. Mild regurgitation.]

21

22

[Normal tricuspid valve. Trivial regurgitation.]

MD.ai

Key Findings -> Template #36 (US Echo/Calderon)

Keep

Undo

[10] Left Ventricular End Systolic Volume: [48] 34.645461 ml

Left Ventricular End Diastolic Volume: [47] 86.724285 ml

Velocity Time Integral: 24.372093 cm

Time Averaged Mean Velocity: 0.728638 m/s

Line numbers for mapped key findings are in brackets. The impression / summary section is excluded and should be verified separately.

Auto-Compare Prior: 2025-06-28 US Heart

Clinical Guidelines: None

Prior Reports

Show Patient Imaging Summary

Finding

2025-06-28

18:58:55

Mild concentric left ventricular hypertrophy

Mild

Mild left atrial enlargement

Mild

Exam: Modality, Body Part

Status: Final, Addendum

Fetches 1 of 1 reports

Study Date

Description

Modality

Body Part

Accession

Status

Signed By

Signed Date

2025-06-28

ECHO/CALDERON

US

Heart

AX8323K

Final

Quan Zhou

2025-07-25

Clinical Information

Accession

AX8323K

Exam

US Heart

Description

ECHO/CALDERON

Sonographer: Tracie Trim

Image Quality: Good

History:

Conclusions:

Normal exam

Detailed Report:

Normal left ventricular size and systolic function, EF 56.5% (Simpson's biplane method). Mild concentric left ventricular hypertrophy. No resting regional wall motion abnormality. Normal diastolic function.

Normal right ventricular size and systolic function.

Mild left atrial enlargement. Normal right atrial dimension. Intact interatrial septum on 2D and Doppler imaging.

Sclerotic trileaflet aortic valve. No stenosis. Trivial regurgitation.

Sclerotic mitral valve apparatus. Mild regurgitation.

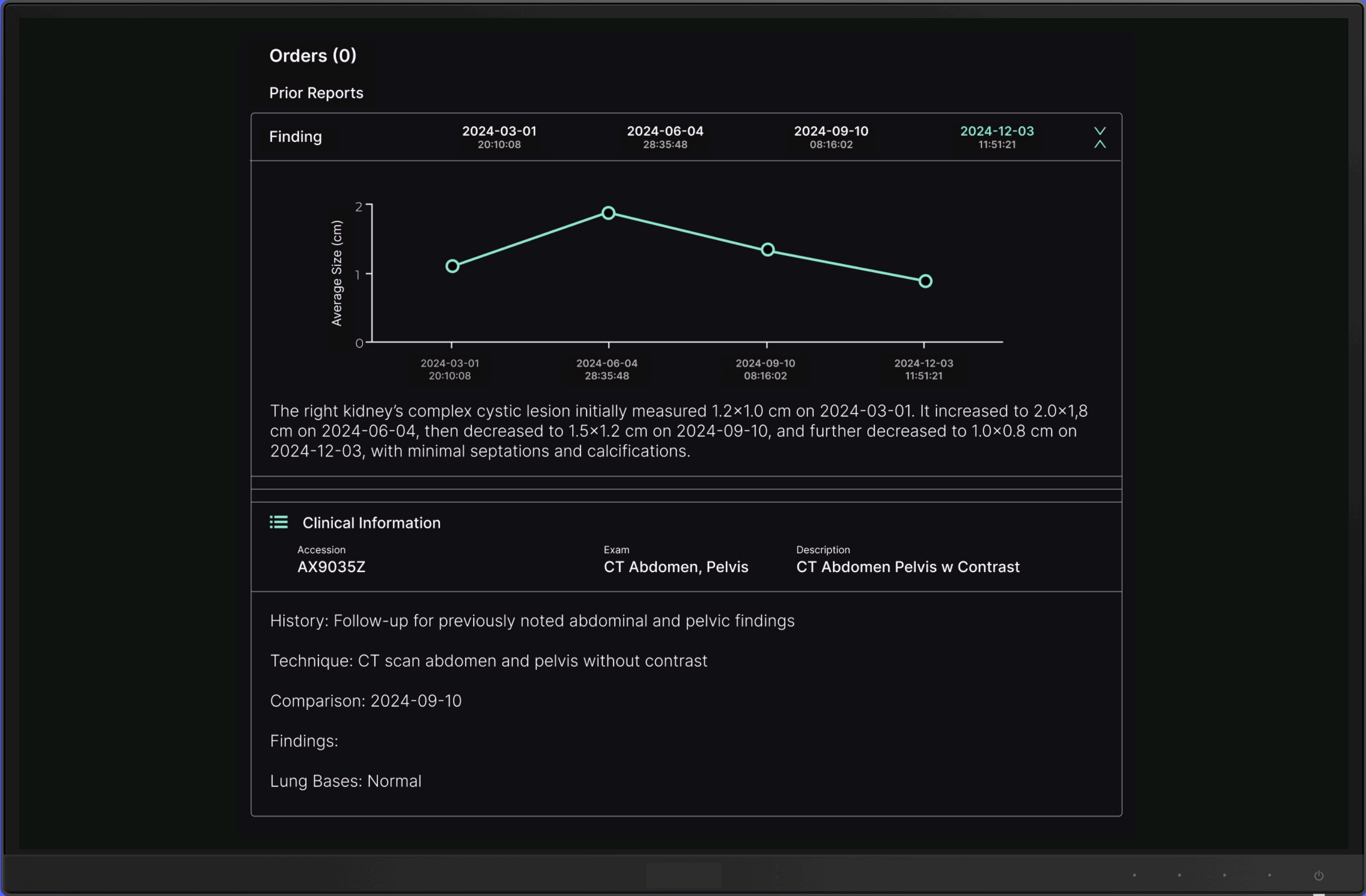
Normal tricuspid valve. Trivial regurgitation.

Normal pulmonary valve in structure and function.

Normal dimensions of aortic root and ascending aorta.

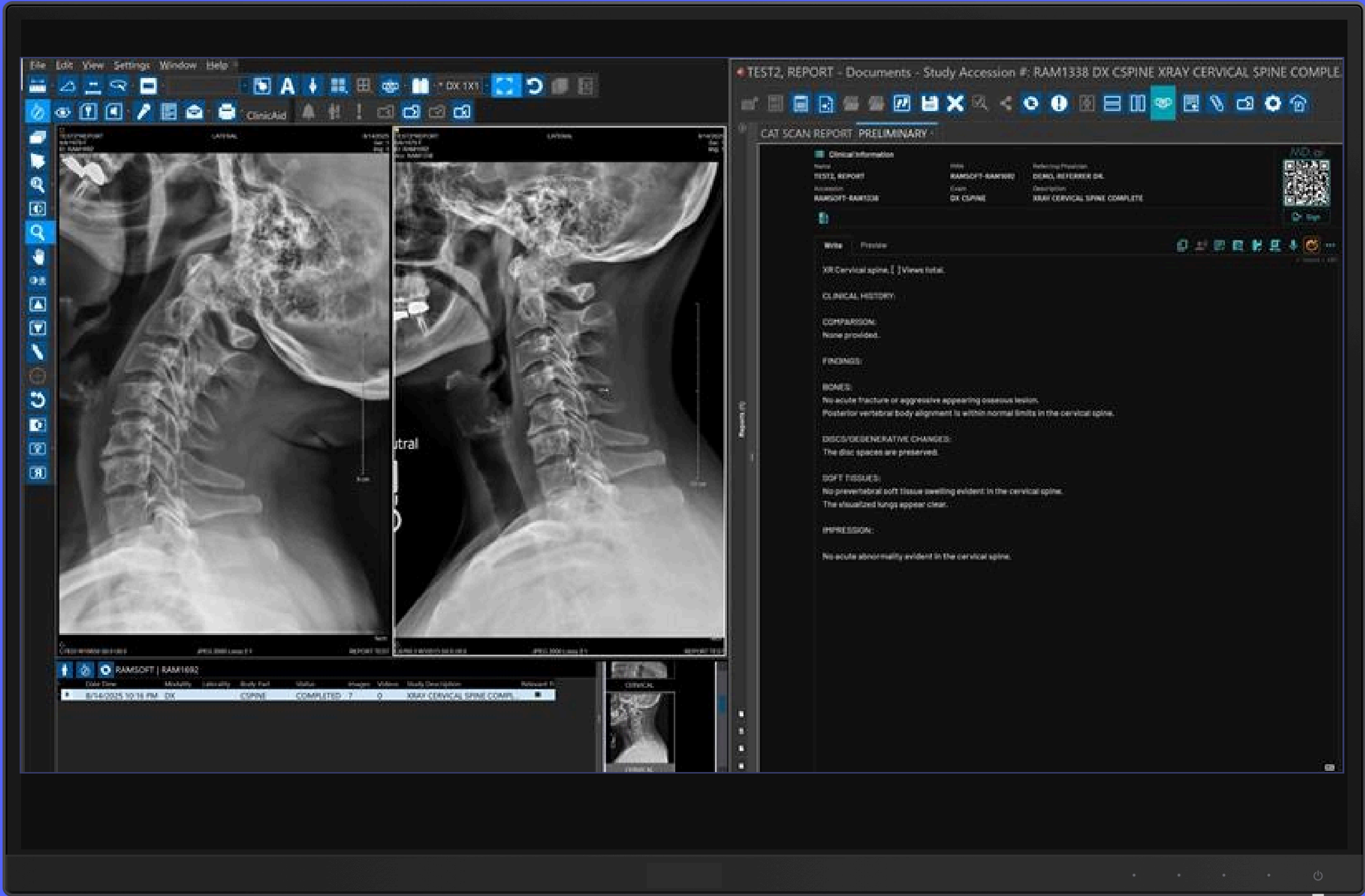
No pericardial effusion.

Watch video



[Watch video](#)






[Watch video](#)

RamSoft is pleased to have a wide variety of leading AI-based partners that are fully integrated into their PowerServer and/or OmegaAI platforms. Some of these partners include:

Generative AI Reporting



**RADPAIR**

Cloud fax and digital workflow



**InterFAX**

AI for enhanced Breast Cancer Detection




**THERAPIXEL**

AI-powered medical coding



**MAVERICK**  
Autonomous coding. Personalized.

Mammography AI-CAD and Triage




**iCAD**

Worklist orchestration



**newVue** | AI

Automated workflows for front desk



**AlphaNodus**

Practice management and medical billing



**AdvancedMD**

AI marketplace with testing and monitoring



**CXRPL**





workflow accelerated  
patient care accelerated  
imaging accelerated

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