

LUNG AI

ARTERYS

About

Lung AI helps physicians analyze and track lung nodules by automatically processing Lung CT scans to deliver improved speed, efficiency, and accuracy of diagnostic decisions.

Benefits

Increase Efficiency:

- Average time saving of 44% per study^{1,2}

Consistent and Accurate Results:

- Increases inter-radiologist agreement for study-level nodule presence from 67-77% to 73-87%^{2,3}
- Reduces missed nodule detections by up to 70%^{2,4}

Longitudinal Tracking:

- Dynamic longitudinal tracking of nodules overtime with tabular and graphical results
- Automated ACR and Fleischner reporting guidelines

Optimized Workflow:

- Anytime, anywhere, access with internet connection

Prior Study Viewing

S: 2 - I: 331

CRITERIA
Lung RADS 1.0 | Screening

EXAM TYPE
Baseline Follow-Up

NODULE TYPE *
Solid Part Solid GGN

MEASUREMENT
Linear Volume

OBSERVATIONS *
Endobronchial 4X S C

Fleischer / Lung-RADS Classification

Dynamic Comparison

	2017/10/31	2015/06/03
Exam Type	Follow-Up	Baseline
Long Axis (mm)	9	8
Short Axis (mm)	8	6
Avg. Diameter (mm)	9	7
Volume (mm ³)	288	139
		+149 (+107%)
VDT (days)		843
Average HU	-3	-54
Nodule Type	Solid	None
Appearance	Smooth	None
Lung-RADS	4B	None

Automatic Link Between Lesions

Indexed Detected (24)

- S: 2 - I: 64 Long Axis: 10 mm
- S: 2 - I: 331 Long Axis: 9 mm Lung-RADS Score: 4B
- S: 2 - I: 325 Long Axis: 7 mm (+2 mm)
- S: 2 - I: 249 Long Axis: 16 mm
- S: 2 - I: 217 Long Axis: 6 mm
- S: 2 - I: 180 Long Axis: 6 mm (+2 mm)

Longitudinal Tracking

LUNG-RADS RECOMMENDATION (2017/10/31)

Most Suspicious Nodule: 9 mm

NODULE PROGRESSION

S: 2 - I: 331

INFORMATION

Exam Date	2017/10/31	2016/06/17	2015/06/03
Lung-RADS	4B	4B	4B
Exam Type	Follow-Up	Follow-Up	Baseline
Long Axis (mm)	9	8.3	8
Short Axis (mm)	8	6.5	6
Avg Diameter (mm)	9	7.4	7
Volume (mm ³)	288	207.9	139
VDT (days)			843
Avg Hounsfield Units	-3	-22	-54
Image	331	178	177
Nodule Type	Solid	-	-
Appearance	Smooth	-	-
Lobe	RML	-	-



What Our Customers Say

"As a radiologist today, I am looking for a solution that would help me increase diagnostic accuracy. The Lung AI solution provides a second objective reading of the exam, which helps me to make more confident decisions regarding the diagnostic and its accuracy. The automated quantification tool gives me fast and accurate results and I am now able to spend more time with patients discussing their results instead of spending time manually quantifying the nodules."

Eleanna Saloura, MD,

Department of Computed Tomography at Sakarellos Diagnostic Center in Greece



THE ARTERYS PLATFORM BENEFITS

Cloud-based Supercomputing

✓ Blazing fast processing of imaging data with Multi GPU based rendering

✓ No heavy IT infrastructure required on-prem!

✓ Elastic scalability means you never have to worry about performance

✓ Low maintenance, always up-to-date, no-cost automatic continual updates

Zero Footprint Diagnostic Web Viewer

✓ Access images and tools anywhere

✓ All you need is internet

✓ Easily share cases and workspaces

✓ FDA and CE Cleared

✓ Fully interactive real-time visualization of DICOM images

✓ Web-based zero footprint viewer with full-screen mode

✓ Mac, PC, tablet and phone

AI Augmentation, Interaction

✓ More consistent, accurate diagnostics

✓ Eliminates tedious and error-prone manual tasks

✓ CE marked & FDA cleared algorithms

✓ Data-driven decisions

✓ Vendor neutral AI, easily integrate any algorithm into clinical workflow

Clinical Workflow Integration

✓ Speed diagnosis with automated reporting

✓ Improve physician collaboration across geography

✓ Inject results and image/video into your reports

✓ Study in-context URL launching with single sign-on means Arterys automatically moves with your workflow

Secure and Resilient

✓ GDPR, HIPAA, SOC2 ISO 27001, Information Security Certified

✓ World class security comes standard, with ISO-27001, SOC-2 and HIPAA requirements for data security

✓ Constant monitoring of adverse events maximize uptime, impact

✓ Real-time interactive support is also available through in-app chat feature