Meet **Veye Lung Nodules,** your AI assistant for pulmonary nodules.

Analysing and reporting CT chest scans for lung nodules, whether in routine clinical practice or lung cancer screening, is tedious and error-prone. Monitoring nodule progression is particularly time-consuming as it requires manual analysis and scan comparison. This is why we have created a practical AI medical solution for pulmonary nodule management, ready to take some weight off your shoulders. **Meet Veye Lung Nodules.**

Veye Lung Nodules is CE-marked as a second or concurrent reader

ABOUT AIDENCE

Aidence rallies top-notch data scientists, medical and regulatory professionals, and software engineers to provide intelligent software solutions for the oncology pathway. Our goal: empowering practitioners to deliver faster, more precise diagnostics and treatments. Our approach: human sense in artificial intelligence.

Veye Lung Nodules' value drivers

Veye Lung Nodules is that extra pair of well-trained eyes in the search of subtle abnormalities on CT chest scans. We built Veye Lung Nodules on three value drivers. These points reflect how we aim to optimise end-to-end Pathways; ultimately, how we serve radiologists to take care of Patients, in a better, more affordable way.

PRACTITIONERS

We developed and tailored Veye Lung Nodules around the needs of healthcare practitioners, following hundreds of conversations, over the past five years.

PRECISION DIAGNOSTICS

Veye Lung Nodules returns highly accurate results through deep learning, the artificial intelligence behind our technology.

PRODUCTIVITY

Veye Lung Nodules seamlessly integrates with the radiologists' workflow.

"I love the detection indications. It is a simple yet effective solution that really helps me to report nodules faster. I directly know where to find them."

Caroline McCann, Liverpool Heart and Chest Hospital NHS Trust Foundation (UK)

"Veye helps us read CT chest scans faster because it provides clear markers for nodules."

Floris Rietema and Paul Algra, Northwest Clinics (the Netherlands)

PRACTITIONERS

DELIVERING VALUE TO YOUR RADIOLOGY PRACTICE

Veye Lung Nodules streamlines your workflow by automatically detecting, determining the nodule's composition, and tracking the growth of pulmonary nodules.

When working with Veye Lung Nodules, all results are displayed in the user interface of the PACS; no need for extra clicks and waiting time. The results are accessible on and off-site, to everyone in the team. Having guideline-driven measurements directly into the workflow further accelerates and simplifies reporting.

Veye Lung Nodules is CE certified as a second or concurrent reader and ready to assist you in both routine clinical practice and lung cancer screening programmes.

PRECISION DIAGNOSTICS

HIGH ACCURACY THROUGH DEEP LEARNING

Veye Lung Nodules delivers accurate information regarding pulmonary nodules as small as 3mm. On default settings, it detects nodules at a sensitivity of 90% at the cost of 1 false positive on average per scan. The uniform measurements and calculations can reduce the variability between reports.

The clinical performance of Veye Lung Nodules has been validated using two databases: the LIDC/IDRI, a database created to support the development and evaluation of CAD software, and a database developed in cooperation with the University of Edinburgh during a clinical trial funded by the NHS. Veye Lung Nodules's high accuracy gives you the confidence to make informed follow-up decisions.

PRODUCTIVITY

SEAMLESSLY INTEGRATED INTO YOUR WORKFLOW – ANYONE, ANYWHERE, ANYTIME

As a vendor-neutral medical solution, Veye Lung Nodules can easily be integrated with existing IT infrastructures on-premise or as a hosted solution. Its results are directly delivered in the workflow and do not require manual input, nor additional fees per user. Anyone can simply use it, anytime, anywhere.

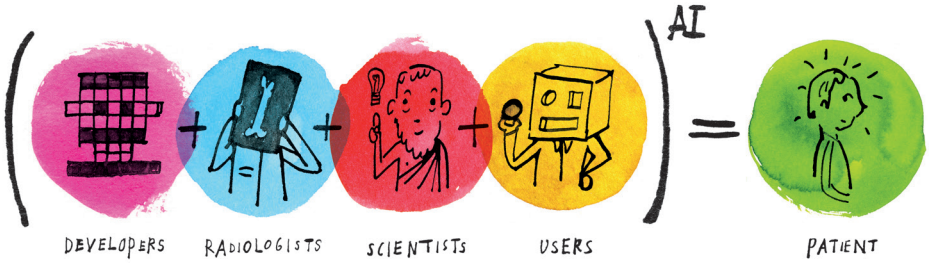
Veye Lung Nodules runs silently in the background, analysing the entire CT chest scan for each patient. The results - location, volume, and growth rate of pulmonary nodules - are available before you start reporting. The view includes a 3D representation of the pulmonary nodules, providing insight into the nodule morphology.

ADDING UP TO PATIENT CARE

EMPOWERING YOU TO DO EVERYTHING YOU CAN FOR YOUR PATIENTS

Veye Lung Nodules supports the improvement of patient outcomes by delivering fast results, lowering the risk of misdiagnosis, and by detecting and segmenting possible early-stage lung cancer.

1. Armato et al. 'The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): a completed reference database of lung nodules on CT scans'. Med Phys. 2011 Feb; 38(2):915-31.



The human factors that shape Aidence's performance

Aidence brings together radiologists, developers, and scientists to build a suite of intuitive and highly accurate AI clinical applications for the oncology pathway. Our first solution, Veye Lung Nodules, is part of a future-proof ecosystem and works seamlessly with your older and newer PACS systems.

Veye Lung Nodules' clinical features

DETECTION

- >= 3mm and <=30 mm in size
- Solid and sub-solid nodules (part-solid/ground-glass opacity)

QUANTIFICATION

- Diameters: maximum long, perpendicular and average axial diameters
- Volume: per-slice segmentation and 3D visualisation

GROWTH ASSESSMENT

- Growth percentage
- Volume doubling time (VDT)

COMPOSITION CLASSIFICATION

- Solid and sub-solid nodules

CUSTOMISABLE SETTINGS

- Operating point: trade-off between sensitivity and false positives
- Size threshold (diameter and/or volume)

INTEGRATION

- Compliant/Built with DICOM standards
- GrayScale Presentation State (GSPS) on diagnostic series or a separate burn-in series
- Query/Retrieve the PACS system for main & prior studies
- Automatic prior analysis when a prior is found in the PACS (patent pending)

INTERACTIVE REPORTING ADD-ON

Veye Lung Nodules accepts standard and low-dose CT chest scans with axial slices of 3mm and less, with and without the use of intravenous contrast. The integration capabilities of Veye Lung Nodules vary depending on the PACS vendor and version.

Contact us for more information or a demo:
+31 (0)20 261 96 10 / info@aidence.com

aidence
human sense in artificial intelligence