PHILIPS

IntelliSpace Portal 8.0

Pulmonary solutions

All your advanced analysis needs
One comprehensive solution

Lung cancer: the most common cause of cancer death worldwide

14.1 million
total cancer cases around the world[1]

13%
of all new cancer cases **diagnosed**[1] **are lung**

24 million
total cancer cases **predicted** by 2035[1]

Manage pulmonary patients with just one reading

Track pulmonary disease from detection to follow-up with one comprehensive toolset to help you work quickly and efficiently within one patient overview. Boost diagnostic confidence with tools such as advanced segmentation, 3D analysis, longitudinal lesion tracking, and time-savers that offer rich clinical insight for images from multiple vendors.[2] View, analyze, collaborate, and report virtually anytime, anywhere – even using your PACS.[3]

Philips IntelliSpace Portal 8.0

One 3-step approach for advanced visualization and analysis

1 Detect Oncology
CT Lung Nodule Assessment (LNA)
CT Lung Nodule CAD[4]
CT Pulmonary Artery Analysis[4] (PAA)
CT COPD

2 Diagnose
CT Lung Nodule Assessment (LNA)
CT Calcium Scoring
CT Pulmonary Artery Analysis[4] (PAA)
CT COPD

3 Follow up
CT Lung Nodule Assessment (LNA)

Advanced Visualization

Therapy management support is also available in this suite with our Multi Modality Tumor Tracking application.

[1] World Cancer Research Fund International. http://www.wcrf.org/int/cancer-facts-figures/worldwide-data, accessed November 9, 2015
[2] Contact your local Philips representative for details on multi-vendor coverage.
[3] Requires integration work with your PACS vendor
[4] CAD functionality not available for sale in the US

The right tools to manage pulmonary patients

1 Detect

Review even low-dose CT scans efficiently and intelligently. Easily segment suspicious nodules with one click or use CAD[4] for a true second reader.
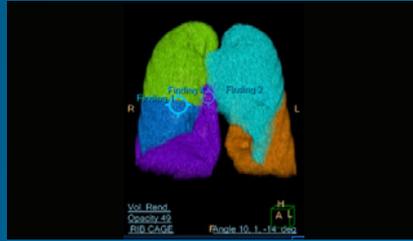
2 Diagnose

Measure, draw ROIs, and annotate to describe findings. Data and values are automatically pre-filled based on your configuration or pre-defined presets.
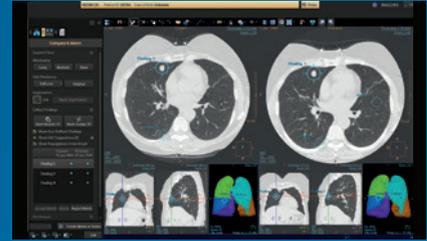
3 Follow up

Take advantage of clinical decision support tools[3] during readings, findings, and reporting. Summarize it all in a format that meets LungRADS guidelines.[3]

Simplify patient management with CT Lung Nodule Assessment (LNA)

Detect, diagnose, and follow-up on lung nodules quickly and easily with this specially designed application featuring accurate quantitative measurements and a new set of advanced one-click editing tools. It also increases your diagnostic confidence through clinical decision support tools[3] using image-based features and clinical information. Rely on consistent results thanks to computerized reporting that presents data efficiently and automatically prefills it – including categorization based on LungRADS guidelines.[3]

[3] Not available in the US

Tools include:

· Single-click lung nodule segmentation
· Automatic quantification of solid and semi-solid parameters
· 3D or MIP visualization of segmented nodules
· Automatic registration and matching of identified nodules
· Automatic calculation of growth rate and doubling days
· Automatic prefill of parameters in configurable presets

More pulmonary applications in IntelliSpace Portal 8.0

CT Lung Nodule CAD[4]

Improve your ability to detect lung nodules and reduce the likelihood of observational oversights with this computer–aided detection (CAD) application provided as a software option for CT Lung Nodule Assessment (LNA). It acts as a true second reader after your initial interpretation of the diagnostic image. It also offers a growth report and one-click display of all CAD findings.

CT Lung Nodule CAD[4] works with high sensitivity. It automatically identifies and marks regions of interest based on image features associated with lung nodules in chest CT scans. Detect potentially actionable lung nodules, correlate 2D, 3D, and lung maps, register current and prior nodules, and calculate nodule changes. Volumetric segmentation excludes normal anatomy and detects nodules based on size, shape, density, and anatomical context.

CT Pulmonary Artery Assessment[4] (PAA)

Detect pulmonary emboli in adults with a suite of automatic and manual tools with color mapping for an optimized view. Extract relevant cardiac measurements such as RV/LV ventricular ratio (using axial or four-chamber views) and chamber volumes, and visualize the arteries automatically in cross-sectional and longitudinal views to evaluate the presence or absence of pulmonary emboli. Collect all relevant findings in the findings manager.

CT COPD

Measure and visualize COPD disease in adults with semi-automatic and manual tools to segment and quantify lung parameters (total lung volumes and density, right and left lung volumes, lung lobe volumes), obtain emphysema measurements (total, of each lung, of each lung lobe), and measure airway parameters such as lumen diameter and wall thickness. Load up to four studies simultaneously for comparison.

CT Calcium Scoring

Enhance risk assessment with one-click 3D segmentation and quantification of pulmonary artery calcification as well as customized reporting of measurements and calcium scores.

Multi Modality Tumor Tracking (MMTT)

This application helps you monitor changes in disease status (including disease progression) and assess response to therapy using sequential CT, MR, PET/CT, and SPECT/CT data. Segment lesions and quantify anatomic and metabolic state over time. Automatic calculation of WHO, iRRC, RECIST 1.0, RECIST 1.1, CHOI, PERCIST, and mRECIST is part of the preset and reflected in the workflow.

> **"** We found that in terms of CT, the entire bandwidth of lung imaging was able to be post-processed with the pulmonary applications suite on the IntelliSpace Portal."

Dr. Daniel Boll, MD
Abdominal imaging specialist and Medical Director of the Multi Dimensional Imaging Lab at Duke University Health System, Durham, USA

Do you have **one comprehensive toolset** to manage pulmonary patients?

Discover how IntelliSpace Portal 8.0 and its pulmonary applications empower you to detect, diagnose, and follow up.

Visit **philips.com/intellispaceportal**
or contact your local sales representative.

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