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Solutions for Low Dose Lung Imaging
From Detection to Diagnosis

Answers for life.
Solutions for Low Dose Lung Imaging From Detection to Diagnosis

If your facility is planning to expand lung cancer imaging services, it is important to evaluate your technology and determine if you have the capability to handle additional imaging volume. In some cases, an underutilized CT scanner can help address the imaging demand in the short term. However, opting for access to modern CT technology can better position you to meet the long term needs of these patients, of your imaging department, and the requirements set by Medicare.

Patients who are being imaged for suspected or diagnosed lung cancer are likely to receive multiple computed tomography exams over several years, so the dose levels of each exam should be minimized. New Siemens CT scanners comply with the NEMA XR-29 Smart Dose Standard and offer low dose lung imaging protocols that meet or exceed NLST dose guidelines*. New scanners also have access to workflow automating technologies that help reduce exam set-up times and increase the quality and reproducibility of lung exams. And, Siemens offers solutions to help improve interventional procedures with the aid of 3D imaging.

Early Detection

As your volume grows, it will be important to optimize the utilization of your CT scanner without sacrificing exam quality or standardization. Some findings will require diagnostic follow-up and inconsistent scanning could lead to less effective follow-up exams.

FAST CARE

With FAST (Fully Assisting Scanner Technologies), Siemens optimizes CT acquisition by reducing variability among your technologists.

For instance, with FAST Planning, technologists can set an optimum range for scan settings that avoids cut-offs or over radiation. These automated settings optimize your workflow, and increase reproducibility among all of your technologists. With FAST Adjust, scan parameters are adjusted during the scan at the push of a button.

With CARE (Combined Applications to Reduce Exposure), Siemens delivers a consistent, reproducible approach to optimizing radiation dose in scan parameters in a manner that does not slow down clinical workflow.

*The following new Siemens CT scanners have demonstrated compliance with the NEMA XR-29 Smart Dose Standard: SOMATOM® Force, SOMATOM Definition Flash, SOMATOM Definition Edge, SOMATOM Definition AS and AS+, SOMATOM Perspective, and SOMATOM Emotion.
Get a Second Read with Lung CAD
When follow-up diagnostic imaging is needed, syngo®.CT Lung CAD (Computer-Aided Detection)* can improve detection of suspicious nodules when used as a “second reader.”

syngo.CT Lung CAD is a fully automated computer-assisted second reader tool. It is designed to assist radiologists in the detection of solid pulmonary nodules during review of CT examinations of the chest. It is intended to be used as a second reader tool after the initial read has been completed. As an adjunctive tool, it alerts the radiologist to regions of interest (ROI) that may have been initially overlooked.

Nodule Management and Reporting
syngo.CT Oncology Engine applications provide a range of fully automated tools specifically designed to support physicians in the detection, segmentation, and evaluation of suspicious lesions, including dedicated tools for lung assessment. It also offers a fully automated follow-up protocol and facilitates functional imaging with the fusion of PET and CT data.

Improve 3D-Guided CT Interventions
Interventions with complex anatomies, like lung biopsies, are better visualized with the 3D CT guidance offered with the Adaptive 3D Intervention Suite. Working in nearly real-time 3D offers many advantages:

• You can see the whole organ and view the lesion in sagittal, coronal, or axial orientations.
• You can stay on track with our smart, automatic needle-detection algorithms and path planning tools.
• You have access to better visualization for accurate positioning in the most complex anatomies, even at difficult oblique angles.

This level of intuitive control is unique in the marketplace today, and gives you a distinct advantage for planning the most minimally invasive procedures for your patients.

*The applicability of the syngo.CT Lung CAD device to routine screening has not been established. The CAD device is intended for use in diagnostic examinations.
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