AI IN CHEST IMAGING

MEDICAL FIELD, OR MEDICAL METHOD
Radiology / Emergency medicine / General practice
Medical imaging

TYPE
☑ Decision support  □ Autonomous decision making

CATEGORY
□ Prevention  ☑ Detection  □ Diagnosis  □ Treatment  □ Other

DESCRIPTION
AI-powered radiological software using image recognition capabilities to assist in generating qualitative and quantitative data in assessing lung disease.

AIM / PURPOSE
Efficiency gains for radiologists by automating time-consuming image recognition tasks.

OUTPUT / RESULTS
Performance of lung lobe segmentation has been validated in a retrospective performance study (> 4,500 CT data sets from multiple clinical sites from within and outside United States).

AI METHODOLOGY
Segmentation and measurements of complete lung and lung lobes, segmentation and measurements of identified lung lesions, based on deep learning algorithms.

INPUT / SIZE OF THE DATA
DICOM images of adult patients.

REFERENCE DOCUMENTS / LINKS / PUBLICATIONS
510k summary available at: https://www.accessdata.fda.gov/cdrh_docs/pdf18/K183271.pdf

SOURCE
Siemens Healthineers