



Artificial Intelligence

Automated diagnostic report

- AI aided diagnosis
- Abnormality identification
- Diagnosis recommendation



AUTOMATED DIAGNOSTIC REPORT

AI medical imaging engine: Automated diagnostic report developed by Zhiying aims to enable intelligent upgrading of medical equipment and contribute to the medical informatics, and finally become the most advanced software manufacturers of in medical imaging.

AI Analysis results

number	type	position	operation
1	Pneumonia	right lower lung	Delete
2	Mass	left middle lower lung	Delete
3	Calcification	right middle lung	Delete

Image report

Imaging
Finding*

Symmetrical thorax, thoracic bones as usual;right lower lung lung markings are thickened, increased, and blurred, with patchy increased density shadows, blurred edges, and correspondingly reduced lung permeability;right middle lung nodules can be seen with dense opacities, sharp edges, no lobulation and spiculation;left middle lower lung see a mass of increased density shadow;There is no enlargement and thickening of the hilum;The size and shape of the heart shadow are as usual, and the aortic shadow is not abnormal;Trachea, mediastinum centered;The diaphragm is smooth and the ribs are sharp.

Conclusion*

right lower lung inflammation
right middle lung calcification
left middle lower lung blocky shadow, the nature is to be determined, further examination is recommended

Positive/Negative* Negative Positive
Image quality control
 Tablet A Tablet B Bad film



AI software core

Automatically presenting imaging findings including lesion location and lesion involvement quantification, matching image interpretation and conclusion to generate standardized diagnostic reports. Automatically combining all types of diagnostic information (i.e., images, measurements, and lesion coordinates) as DICOM objects and sending to the PACS connecting medical information system or medical equipment workstation. Making efforts in improving homogenization and standardization, and normalization of medical imaging diagnostic reports.



Built-in diagnostic logic with CDSS reference

Providing system-generated report for clinical decision support system (CDSS), with built-in expert consensus reference, optimal-recommendation and differential diagnosis. Making efforts in reducing the doctor's workload and improving both efficiency and diagnosis accuracy.



Quality Controlling of the report

Unifying description scope of the imaging, order, words in a prospective and real-time way, and the normative descriptions can contribute to the improvement of the security level of imaging reports and the alleviation of doctor-patient potential conflicts.

AUTOMATED DIAGNOSTIC REPORT

AI medical imaging analysis platform developed by Zhiying aims to contribute to

The screenshot displays a web-based interface for AI medical imaging analysis. The main window shows a chest X-ray of a 65-year-old male patient. A yellow box labeled '1' highlights the ROI location. A yellow box labeled '2' highlights a delineated area in the right lung. A yellow box labeled '3' highlights multiple recommended abnormalities. The AI analysis report on the right includes the following text:

Abnormality-associated findings & description

3

Recommended abnormality

2

AI analysis results

Image report

Image seen:

The thorax was symmetrical, and the thoracic bones were normal; a fusiform high-density shadow was seen on the inner edge of the right chest wall, protruding into the lung field, with uniform density and smooth edges. There was no enlargement or thickening of the hilum; the size and shape of the heart shadow were normal, and the aortic shadow was normal; the trachea and mediastinum were in the middle; the diaphragm surface was smooth, and the costophrenic angle was sharp.

Conclusion *

Eight encapsulated effusion

negative/positive * feminine Positive

Image quality control nail plate B piece waste film

The screenshot displays a web-based interface for AI medical imaging analysis. The main window shows a chest X-ray of an anonymous 51-year-old male patient. A red box labeled 'Confirmed' highlights a pneumonia finding in the right lung. A yellow box labeled 'Suspected' highlights a pneumonia finding in the left lung. A cyan box labeled 'Low Risk' highlights a finding in the right lung. The AI analysis report on the right includes the following text:

AI Analysis results

Image report

Imaging:

finding*

Symmetrical thorax, thoracic bones as usual; right middle lower and left middle lung lung markings are thickened, increased, and blurred, with patchy increased density shadows, blurred edges, and correspondingly reduced lung permeability. There is no enlargement and thickening of the hilum; The size and shape of the heart shadow are as usual, and the aortic shadow is not abnormal; Trachea, mediastinum centered; The diaphragm is smooth and the ribs are sharp.

Conclusion *

right middle lower and left middle lung inflammation

AUTOMATED DIAGNOSTIC REPORT

AI medical imaging analysis software developed by Zhiying aims to assist radiologists in their work and contribute to

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Oct 11, 2021

Name: Male 65 97823

Zoom: 25%
W: 255 L: 128
Lossless / Uncompressed

on the inner edge of the right chest wall, protruding into the lung field, with uniform density and smooth edges. There was no enlargement or thickening of the hilum; the size and shape of the heart shadow were normal, and the aortic shadow was normal; the trachea and mediastinum were in the middle; the diaphragm surface was smooth, and the costophrenic angle was sharp.

Conclusion *

Right encapsulated effusion

negative/positive * Negative positive

Image quality control
 nail plate B piece waste film

preview submit give up next

Sequence >>

Name, Anonymous 男 51 PS051843

May 8, 2021

Zoom: 23%
W: 255 L: 128
Lossless / Uncompressed

Symmetrical thorax, thoracic bones as usual; right middle lower and left middle lung lung markings are thickened, increased, and blurred, with patchy increased density shadows, blurred edges, and correspondingly reduced lung permeability. There is no enlargement and thickening of the hilum. The size and shape of the heart shadow are as usual, and the aortic shadow is not abnormal. Trachea, mediastinum centered. The diaphragm is smooth and the ribs are sharp.

Conclusion *

right middle lower and left middle lung inflammation

Preview Submit Abandon Next