Visual Anatomical Token Extraction

Report Generator

(End-to-End Training with Sentence-Anatomy Dropout)

Longitudinal Projection Module

Longitudinal Scans

Prior Scan

Current Scan

Faster R-CNN

Prior Anat. Tokens

Abdomen
Left Lung
Right Lung
Spine

Current Anat. Tokens

Abdomen
Left Lung
Right Lung
Spine

Current-Prior Anat. Tokens Concatenation

Abdomen | *Abdomen*
Left Lung | *Left Lung*
Right Lung | *Right Lung*
Spine | *Spine*

MLP

FC1 | ReLU | FC2

Current-Prior Joint Representation

Abdomen
Left Lung
Right Lung
Spine

Language Model

Final Report for Current Scan

Right pleural drain in situ. The right pneumothorax has resolved. Heart size normal. Left lung clear.

Indication Field for Current Scan

Post-chest drain insertion. CXR to check positioning