

a

Factuality

Reference Report

Left PICC line is in place. This courses superiorly into the right innominate vein with the tip in the right internal jugular vein...

RadGraph-XL

Entities

- PICC line
- Tip
- Right internal jugular vein
- ...

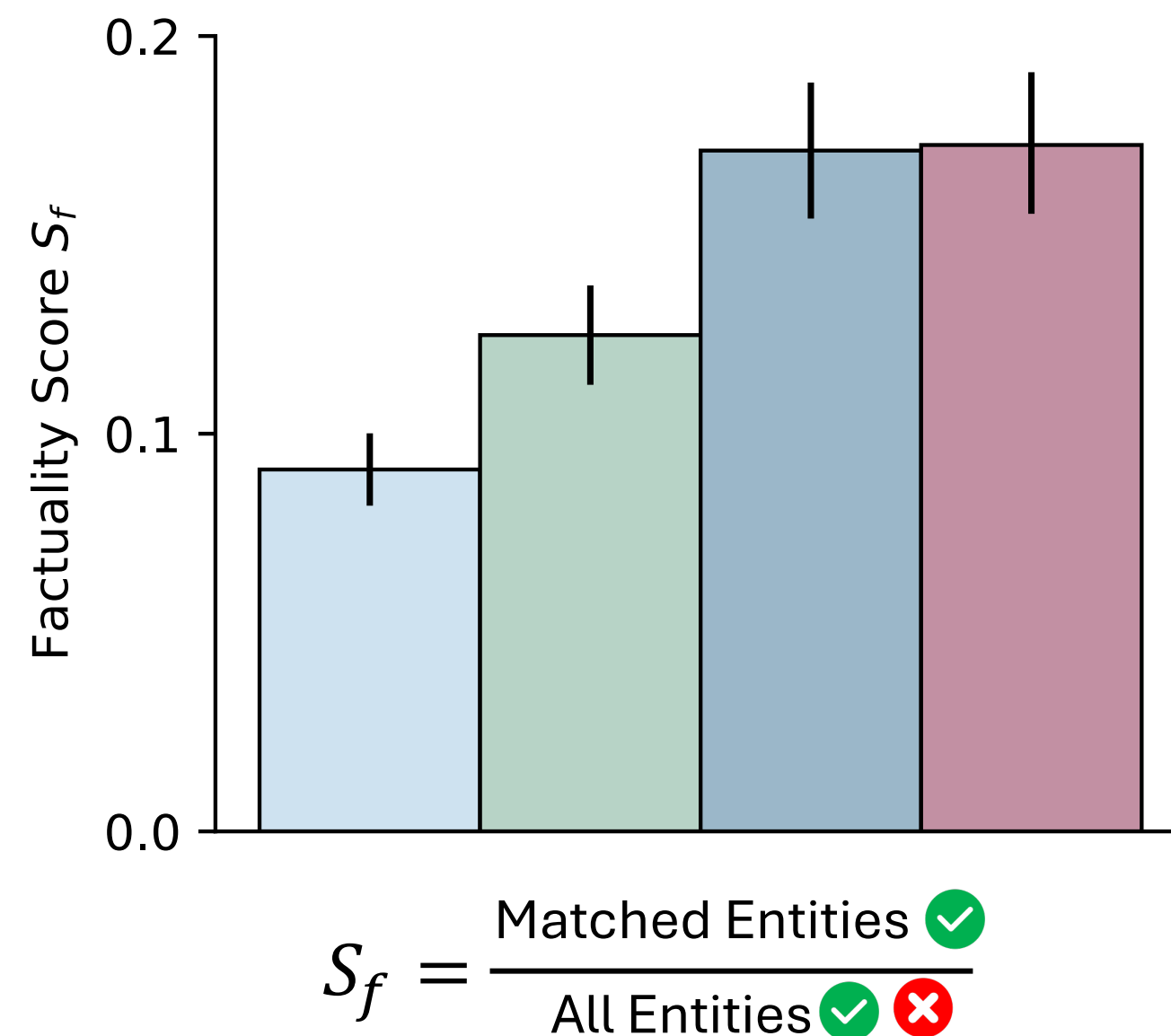
Reasoning Trace

The chest X-ray reveals the position of the left **PICC line** tip relative to anatomical landmarks. The **tip** is observed in the **superior vena cava**...

RadGraph-XL

Entities

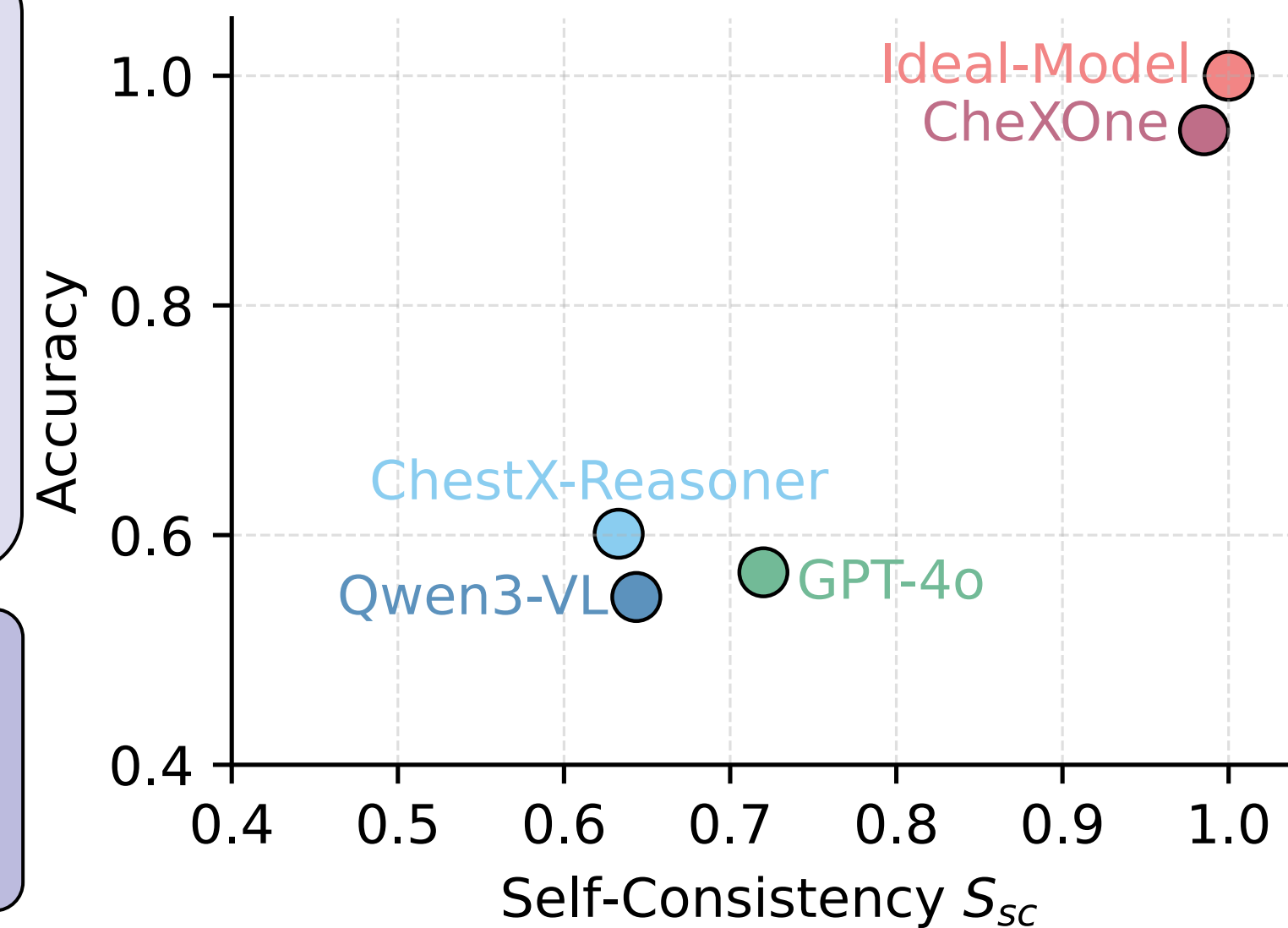
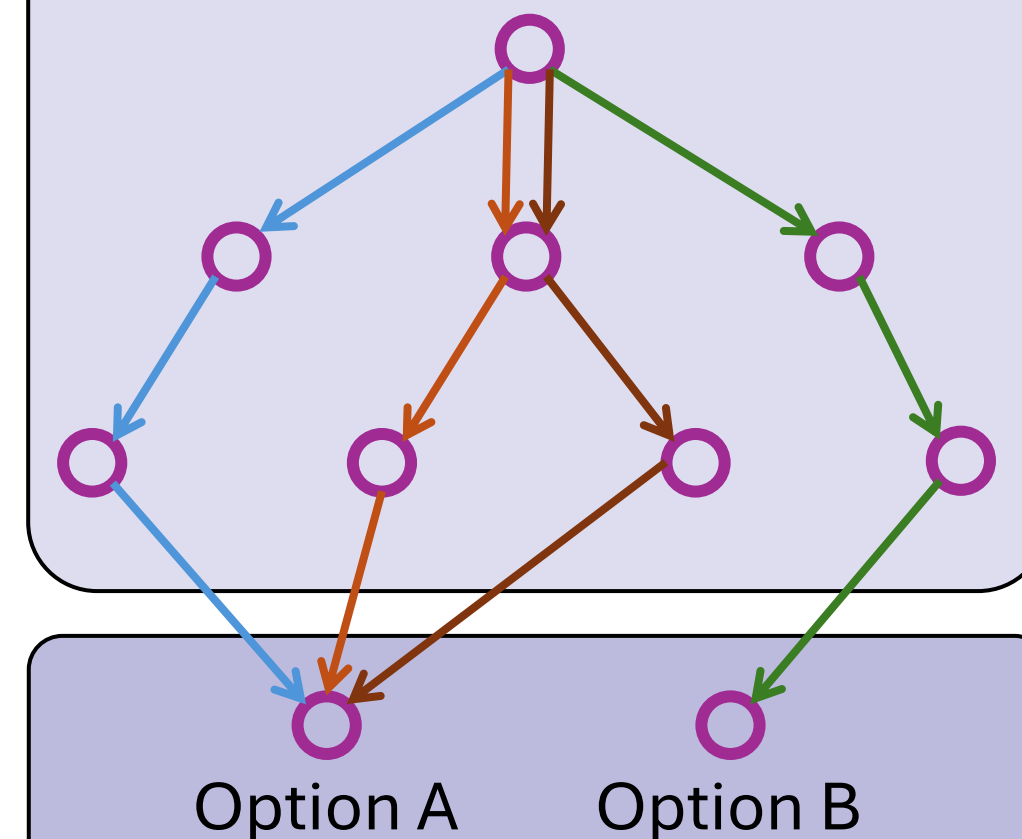
- PICC line ✓
- Tip ✓
- Superior vena cava ✗
- ...



b

Self-consistency

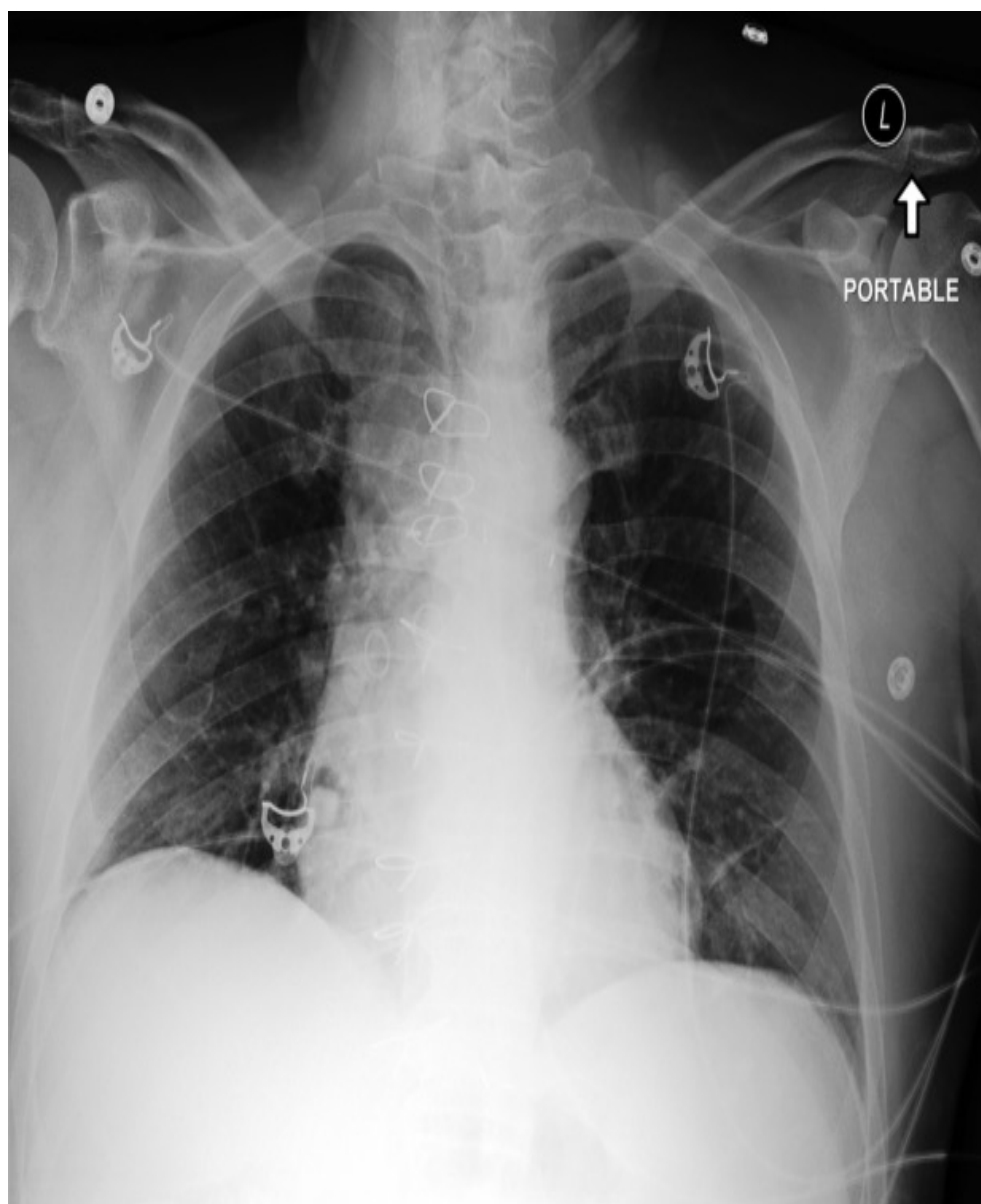
Reasoning Traces



c

Causal Support and Clinical Factuality

1. DICOM



2. Sample

Question: _____

Reasoning trace: _____

Predicted Answer: _____

3. Feedbacks

Factuality: The reasoning trace accurately describes chest X-ray findings relevant to the image.

Strongly Disagree Strongly Agree

Causal Support: The reasoning trace logically and causally supports the final answer.

Strongly Disagree Strongly Agree

