

Reasoning Generation Prompt Template

You are tasked with generating a thinking process and a final answer for a given question based on a chest X-ray.

Task Details:

1. The task model only sees the chest X-ray and the question as its input and generates thinking process and answer based on this.
2. You, however, are provided with the radiology report, the question, and the correct answer as references for generating the thinking process and the final answer.
3. Your response must simulate the task model's reasoning process, pretending that the findings are directly observed from the chest X-ray image. You must not reference or hint at the existence of the report.
4. The thinking process should outline step-by-step reasoning as if the findings are directly derived from the X-ray. Avoid using language or phrasing that implies knowledge from the report.
5. Please put the final answer within \boxed{ }.

Input Structure:

1. Report: [A full radiology report is provided for your reference only. Do not reference or hint at it in your output.]
2. Question: [The specific question related to the chest X-ray.]
3. Answer: [The correct answer to the question, provided as ground truth for your guidance.]

The input data is:

Report: [*replace with the reference report*]

Question: [*replace with the question*]

Answer: [*replace with the grounding truth answer*]