## Large Language Model Temporal Alignment Connector (TAC) System prompt Image encoder 🞇 Image encoder 🞇 specialised The assistant Transformer block Transformer block comparing Chest X-ray images, identifying differences, and Transformer block Transformer block noting temporal changes. Transformer block Transformer block Transformer block Transformer block Clinical prompt Provide a detailed description of Prior image Current the findings in the radiology image (if available) image. Following clinical context: {Indication: ... History: ... Comparision: ... Dummy prior image Technology: ... }

## Radiology report

As compared to the previous radiograph, the patient has been intubated. The tip of the endotracheal tube projects 3.5 cm above the carina. There is no evidence of complication, notably no pneumothorax.

