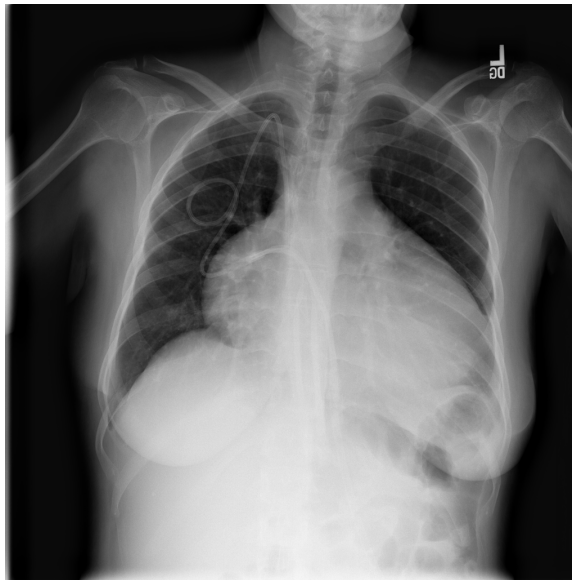


Preliminary Report

Name:	Abhinav
Age:	23 years
Gender:	male
Height:	178 cm
Weight:	78 kg



Diseases and Probabilities

Disease	Probability
Infiltration	33.00%
Effusion	15.80%
Atelectasis	9.30%

Analysis Insights

Analyzing the provided questionanswer pairs in relation to the symptoms and their specific nuances for a 23yearold male, the probabilities and associated certainty levels for each condition are as follows:

1. Infiltration: The patient's answers indicate chest pain or discomfort when coughing or taking deep breaths and noted progression over time of these symptoms, but there's a notable absence of a

persistent cough, difficulty breathing especially during physical activity, and recent fever. Given these mismatches with the common symptoms especially for this age and gender, the probability of 33.000001311302185% aligns with a Medium certainty level. This deduction considers the presence of some symptoms but significant absence of others that are also crucial for a high certainty diagnosis.

2. Effusion: With reported shortness of breath, particularly after physical activity, absence of sharp chest pain, dry cough, fever and chills, but with a family history of heart or lung conditions, these partially match Effusion characteristics. Because shortness of breath and family history are significant but not fully definitive without the presence of sharp chest pain and fever, the probability of 15.800000727176666% correlates with a Medium certainty. The reasoning here involves partial symptom match, leaning on the specificity of the symptoms for a conclusive diagnosis of Effusion.

3. Atelectasis: Considering the patient's difficulty in breathing and presence of coughing but absence of rapid, shallow breathing, pinpointed chest pain, or recent surgeries/injuries that could affect the lungs, the symptom presentation somewhat aligns with Atelectasis. However, the complete clinical picture for a high confidence diagnosis isn't fully met. Thus, with a probability of 9.300000220537186%, the certainty level for Atelectasis is deemed Low. This conclusion comes from observing key symptoms like difficulty breathing and coughing, against the backdrop of missing critical elements such as rapid, shallow breaths or specific recent triggers known to precipitate Atelectasis.

These assessments critically appraise the available symptom data against the backdrop of known disease presentations in a demographicspecific context, facilitating targeted diagnostic considerations.

Insights from CBC Data

Packed Cell Volume (PCV): High

Hemoglobin (Hb): Low

Platelet Count: Borderline

Observations:

- Anemia - indicated by low Hemoglobin levels. Further evaluation and iron studies might be recommended.
- Polycythemia - suggested by elevated PCV. This could be secondary polycythemia due to dehydration or primary polycythemia vera. Further hematological evaluation is recommended.
- Platelet function disorders - possible considering the Platelet Count is at the lower borderline. Additional platelet function tests could provide clarity.