

## Patient Information: Abhinav

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### Key Points from Analysis

Based on the provided doctor-patient question-answer pairs and the specified probabilities out of 100% for each disease, the certainty levels are determined as follows: 1. **Infiltration**: With a probability of 33.00%, the answers related to symptoms like swelling at or near an IV site, skin feeling tight or unusually cool to the touch, and visible coloration changes indicate a significant correlation with the expected symptoms of infiltration. The patient's responses align well with common symptoms of infiltration, such as swelling and skin color changes but do not include significant pain or functional loss. Therefore, given the probability and the symptom correlation, the certainty level for Infiltration is categorized as **Medium**. 2. **Effusion**: The probability for Effusion is 15.80%, and the patient's responses indicate a fever but no significant chest pain, shortness of breath, or other severe respiratory symptoms frequently associated with effusion. Given the probability and the less direct symptom correlation, the certainty level for Effusion is determined to be **Medium**. This is because while the patient reports a fever, an indicative symptom of possible effusion, the lack of explicit respiratory distress compared to the prototype effusion symptoms moderates the certainty. 3. **Atelectasis**: With a probability of 9.30%, and considering the patient's reported difficulty in breathing, chest pain with deep breaths, but no rapid, shallow breathing, or productive cough, the certainty level for Atelectasis is categorized as **Low**. The symptoms reported by the patient somewhat align with those associated with atelectasis, such as difficulty breathing and chest pain; however, the absence of certain key symptoms like rapid, shallow breathing, lowers the alignment with the expected clinical picture of atelectasis, thus affecting the certainty level. In summary, the analysis of the provided question-answer pairs, in line with the given probabilities, allows us to categorize **Infiltration** and **Effusion** at a **Medium** certainty level and **Atelectasis** at a **Low** certainty level.