

11. **Answer: A** The patient is exhibiting signs of hypoxemia, which is a common complication of pneumonia. The patient's oxygen saturation is 90%, which is below the normal range of 95-100%. The patient's respiratory rate is 24 breaths per minute, which is slightly elevated. The patient's heart rate is 100 beats per minute, which is also slightly elevated. The patient's blood pressure is 120/80 mmHg, which is within the normal range. The patient's temperature is 38.5°C, which is elevated. The patient's sputum is purulent, which is a sign of infection. The patient's chest exam reveals crackles and wheezes, which are also signs of pneumonia. The patient's ABG shows a pH of 7.35, a PaO₂ of 80 mmHg, a PaCO₂ of 40 mmHg, and a HCO₃⁻ of 24 mEq/L. The patient's lactate is 2.0 mmol/L, which is within the normal range. The patient's WBC is 12,000/mm³, which is elevated. The patient's hemoglobin is 14 g/dL, which is within the normal range. The patient's platelets are 150,000/mm³, which is within the normal range. The patient's renal function is normal, with a creatinine of 1.0 mg/dL and a BUN of 10 mg/dL. The patient's liver function is also normal, with a bilirubin of 1.0 mg/dL and an ALT of 20 U/L. The patient's electrolytes are within the normal range, with a sodium of 135 mEq/L, a potassium of 4.0 mEq/L, and a calcium of 9.0 mg/dL. The patient's glucose is 100 mg/dL, which is within the normal range. The patient's uric acid is 5.0 mg/dL, which is within the normal range. The patient's ferritin is 100 ng/mL, which is within the normal range. The patient's transferrin saturation is 20%, which is within the normal range. The patient's iron is 100 µg/dL, which is within the normal range. The patient's total iron-binding capacity is 500 µg/dL, which is within the normal range. The patient's transferrin is 2.0 g/L, which is within the normal range. The patient's ferritin is 100 ng/mL, which is within the normal range. The patient's transferrin saturation is 20%, which is within the normal range. The patient's iron is 100 µg/dL, which is within the normal range. The patient's total iron-binding capacity is 500 µg/dL, which is within the normal range. The patient's transferrin is 2.0 g/L, which is within the normal range.