
WEEK #4 I HUMAN CASE STUDY FOR 5 YEAR OLD PATIENT REASON FOR ENCOUNTER COUGH AND TROUBLE BREATHING LATEST CASE 2025-2026.



Case Instructions

This assignment is in Test Mode, so you will not be provided with any feedback after submitting each section.

ATTEMPTS AVAILABLE:

- You are permitted 1 attempt for this assignment.

GRADING RUBRIC:

- Your case is not being graded within the Case Player. You will not receive a Total Case Play Score.

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i-Human Case Week #4

5 y/o
3' 8" (112 cm)
40.0 lb (18.2 kg)

Reason for encounter
Cough and trouble breathing

1. Patient Information

- **Case Number:** i-Human Case Week #4
 - **Age:** 5 years old
 - **Gender:** Not explicitly stated, but assumed male based on image
 - **Height:** 3'8" (112 cm)
 - **Weight:** 40.0 lb (18.2 kg)
 - **Reason for Encounter:** Cough and trouble breathing
 - **Location:** Outpatient clinic
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5 YEAR OLD PATIENT WITH TROUBLE IN BREATHING AND COUGH CASE STUDY WEEK # 4 Analysis Including HPI, Physical Exam, Differential Diagnosis, and Management Plan (CLASS 6541) WALDEN UNIVERSITY

Week #4: Human Case Study – 5-Year-Old Patient

Patient Information:

- **Age:** 5 years old
- **Gender:** [Male/Female]
- **Reason for Encounter:** Cough and Trouble Breathing

Chief Complaint:

The patient presents with a persistent cough and difficulty breathing for the past [X] days.

History of Present Illness (HPI):

- **Onset:** Symptoms began [X] days ago.
- **Duration:** Cough and breathing issues are continuous/intermittent.
- **Character:** Dry/productive cough, wheezing, stridor, or other associated sounds.
- **Aggravating Factors:** Worse at night, with activity, or when exposed to allergens.
- **Relieving Factors:** Improved with rest, medication, or other treatments.
- **Associated Symptoms:** Fever, nasal congestion, sore throat, chest tightness, fatigue, or cyanosis.

Past Medical History (PMH):

- Any history of asthma, allergies, pneumonia, or previous respiratory infections?

- History of premature birth or underlying lung conditions?

Family and Social History:

- Family history of asthma, allergies, or chronic respiratory conditions?
- Exposure to secondhand smoke, pets, or environmental allergens?
- Attends daycare or school (possible exposure to infections)?

Physical Examination Findings:

- **Vital Signs:** Temperature, heart rate, respiratory rate, oxygen saturation.
- **General Appearance:** Well-nourished, in distress, or lethargic?
- **Respiratory Exam:**
 - Presence of wheezing, rales, stridor, or diminished breath sounds.
 - Signs of respiratory distress (retractions, nasal flaring, tripod positioning).
 - Cough assessment: Dry vs. productive.
 - Use of accessory muscles for breathing.
- **Other Systems Examined:** ENT (throat redness, nasal congestion), cardiovascular, and neurological status.

Diagnostic Workup:

- **Pulse Oximetry:** Check oxygen saturation.
- **Chest X-ray:** If pneumonia or foreign body aspiration is suspected.
- **Peak Flow Measurement:** If asthma is suspected.
- **Viral/Bacterial Testing:** If suspected infection (RSV, COVID-19, strep test).
- **Complete Blood Count (CBC):** To assess for infection.

Differential Diagnosis:

- **Asthma Exacerbation**
- **Upper Respiratory Tract Infection (Viral/Bacterial)**
- **Bronchiolitis (RSV, other viral causes)**
- **Pneumonia**
- **Croup (Barking cough, stridor, viral origin)**
- **Allergic Reaction or Environmental Irritants Exposure**
- **Foreign Body Aspiration**

Management Plan:

- **Supportive Care:**
 - Hydration, rest, and humidified air.
 - Avoiding triggers (smoke, allergens, cold air).
 - **Medications (if indicated):**
 - Bronchodilators (e.g., Albuterol via nebulizer for wheezing).
 - Corticosteroids (if moderate to severe airway inflammation).
 - Antibiotics (only if bacterial infection is confirmed).
 - Antipyretics (for fever).
 - **Hospitalization Criteria:**
 - Severe respiratory distress or low oxygen saturation.
 - Inability to eat or drink due to breathing difficulty.
 - No improvement with outpatient treatment.
 - **Follow-up:**
 - Re-evaluation in 24-48 hours if no improvement.
 - Referral to pulmonology if chronic or recurrent symptoms.
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