



SNS COLLEGE OF PHARMACY & HEALTH SCIENCES PUZZLES ON

HUMAN ANATOMY & PHYSIOLOGY I-D.PHARM

✓ Case 1: Muscle Weakness

A 20-year-old athlete complains of muscle fatigue even after mild exercise. On investigation, ATP levels are very low.

- **Puzzle:** Which cell organelle might be defective?
- Clue: Organelles responsible for energy production.

✓ Case 2: Drug Toxicity

A patient taking high doses of medication develops liver toxicity. Doctors test for enzyme activity in microsomes.

- **Puzzle:** Why test microsomes in this case?
- ✓ Case 3: Lysosomal Storage Disorder

A child has swollen organs and inability to break down certain lipids.

• **Puzzle:** Which organelle is likely defective?

✓ Case 4: Transport Trouble

A patient's nerve cells show defective protein transport and accumulation in the cytoplasm.

- **Puzzle:** Which organelle is likely malfunctioning?
- ✓ Case 5: The Puzzling Pain
- **Puzzle**: A 35-year-old man presents to the clinic with persistent pain in his lower back. He points to an area on his **posterior** side, away from his spine and closer to the outer edge of his back. Using anatomical terms, where exactly is his pain?