

**SNS COLLEGE OF PHARMACY
AND HEALTH SCIENCES**
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi.
Coimbatore -641035

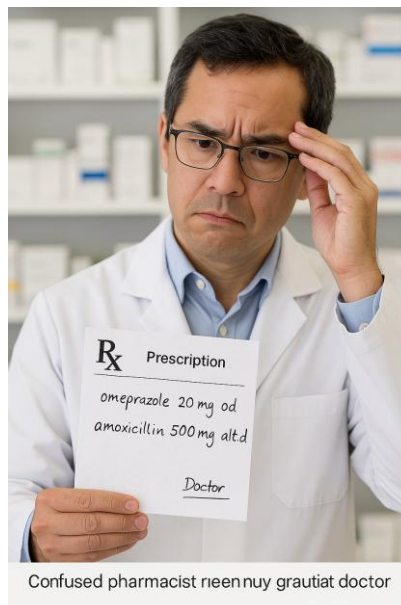


PHARMACEUTICS (BP103T)

UNIT 1

CASE STUDY PUZZLES

Case Study Puzzle 1: Confused Pharmacist

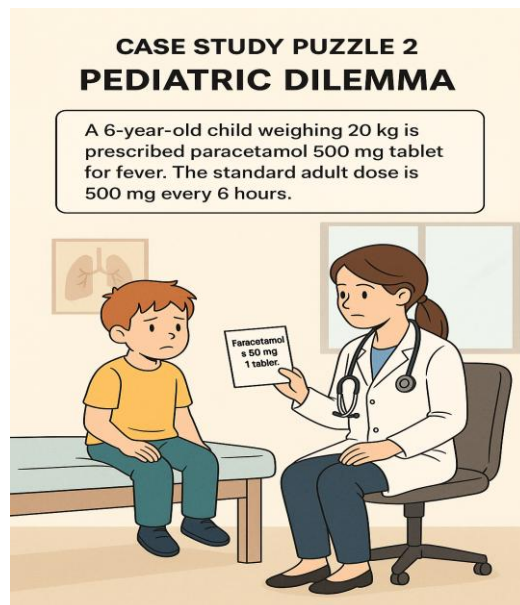


Puzzle Question: Identify the possible prescription errors here. What steps should the pharmacist take before dispensing? Relate this to parts of a valid prescription.

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Case Study Puzzle 2: Pediatric Dilemma



Puzzle Question: Using both Young's rule (age-based) and Clark's rule (weight-based), calculate the correct pediatric dose. Is the prescribed dose safe?

Case Study Puzzle 3: Pharmacopoeia Confusion

Scenario: A manufacturing company is exporting cough syrups to the US and UK. During the quality check, the product specifications are tested in accordance with the Indian Pharmacopoeia (IP). However, the consignment is rejected in the US.



Puzzle Question: Why might this rejection have occurred? Explain the role of IP, BP, and USP in standardisation and why different pharmacopoeias matter in the pharmaceutical industry.

Case Study Puzzle 4: Overdose Incident

Case Study Puzzle 4

Scenario



An elderly patient with kidney impairment is prescribed a normal adult dose of an antibiotic. Within 2 days, signs of toxicity appear.

Puzzle Question

Discuss the factors affecting posology in this case. How could the dose have been adjusted? What precautions should prescribers take for geriatric patients?

Scenario: An elderly patient with kidney impairment is prescribed a normal adult dose of an antibiotic. Within 2 days, signs of toxicity appear.

Puzzle Question: Discuss the factors affecting posology in this case. How could the dose have been adjusted? What precautions should prescribers take for geriatric patients?

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Case Study Puzzle 5: Dosage Form Challenge

Scenario: A rural health center must dispense an iron supplement to patients. Some patients are children, some are pregnant women, and some are elderly.



Puzzle Question: Which dosage form should be selected for each patient group and why?
Relate your answer to the advantages and limitations of dosage forms.