

Unit 4 - MYOLOGY

Case Study Puzzle — “The Dropped Cup Mystery”**Case Scenario:**

A 32-year-old chef, Mr. Arun , arrives at the clinic complaining that he **cannot hold a cup of coffee** with his right hand.

He reports that two days ago, while chopping vegetables, he felt a sudden “shock” on the back of his arm after leaning his upper arm against a metal edge. Since then, he has been unable to extend his wrist and fingers.

On examination:

- The **wrist hangs flaccidly** when the forearm is outstretched (“wrist drop”).
- **Elbow extension is weak** but present.
- **Sensation is lost** over the dorsum of the hand (first web space).
- The **triceps reflex** is weak.
- No muscle wasting yet.

Questions (Detective Tasks)

1. Identify the **primary nerve** affected.
2. Name **four muscles** that will be **paralyzed or weakened** because of this injury.
3. Determine the **site of lesion** (specific anatomical level) based on the findings.

CRITERIA	DESCRIPTION	POINTS
1. Completeness	Answering all questions	5 pts
2. Accuracy	Clearly answering all questions	3 pts
4. Neatness	Clear handwriting, no erasures	2 pts
	TOTAL	10 pts