

UNIT 2

Logical Puzzle: The Angina Pectoris Enigma

Scenario: In a busy cardiology clinic, Dr. Heart diagnoses four patients—**Alex, Blake, Casey, and Dana**—all presenting with **chest pain** suggestive of **angina pectoris** (chest pain due to reduced blood flow to the heart muscle). Each patient has **exactly one** of the following true risk factors confirmed by tests:

- **Smoker** (tobacco use)
- **Diabetic** (type 2 diabetes)
- **Hypertensive** (high blood pressure)
- **Hyperlipidemic** (high cholesterol)

Additionally:

- Each patient is taking **exactly one** of these anti-anginal medications: **Aspirin, Beta-blocker, Nitroglycerin, or Statin**.
- **Exactly one statement** from each patient is **true**; the other two are **false**.

Patient Statements:

Patient	Statement 1	Statement 2	Statement 3
Alex	I am the smoker.	I take Nitroglycerin.	Blake is diabetic.
Blake	I am hypertensive.	Dana takes Statin.	Casey is the hyperlipidemic.
Casey	I take Beta-blocker.	I am diabetic.	Alex takes Aspirin.
Dana	I am hyperlipidemic.	Blake takes Nitroglycerin.	Casey is hypertensive.

YOUR TASK

Determine each patient's risk factor and medicationnlisted are true and false

RUBRICS

CRITERIA	DESCRIPTION	POINTS
1. Completeness	All correctly identified (A,B,C,D,E)	5 pts
2. Accuracy	No wrong answers	3 pts
4. Neatness	Clear handwriting, no erasures	2 pts
	TOTAL	10 pts