

**PHARMACOLOGY –II**

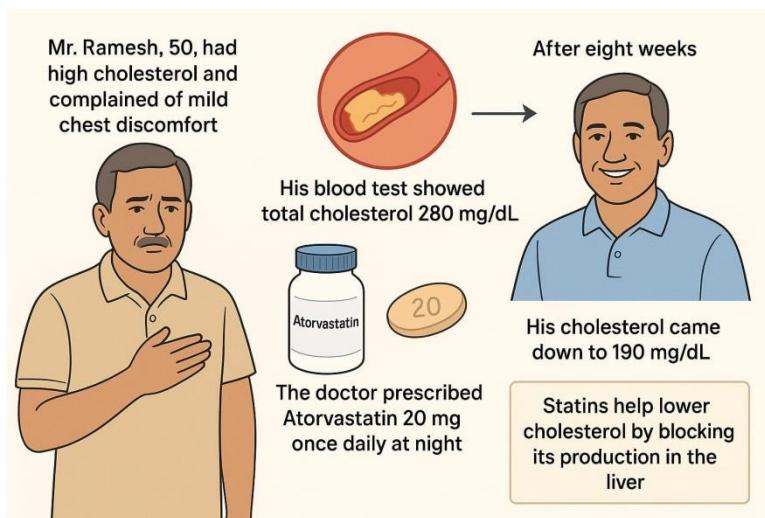
**UNIT-1**

**TOPIC:ANTI HYPERLIPIDEMIC DRUGS**

**Case Study Puzzle Question**

**Case Study 1: Statin for High Cholesterol**

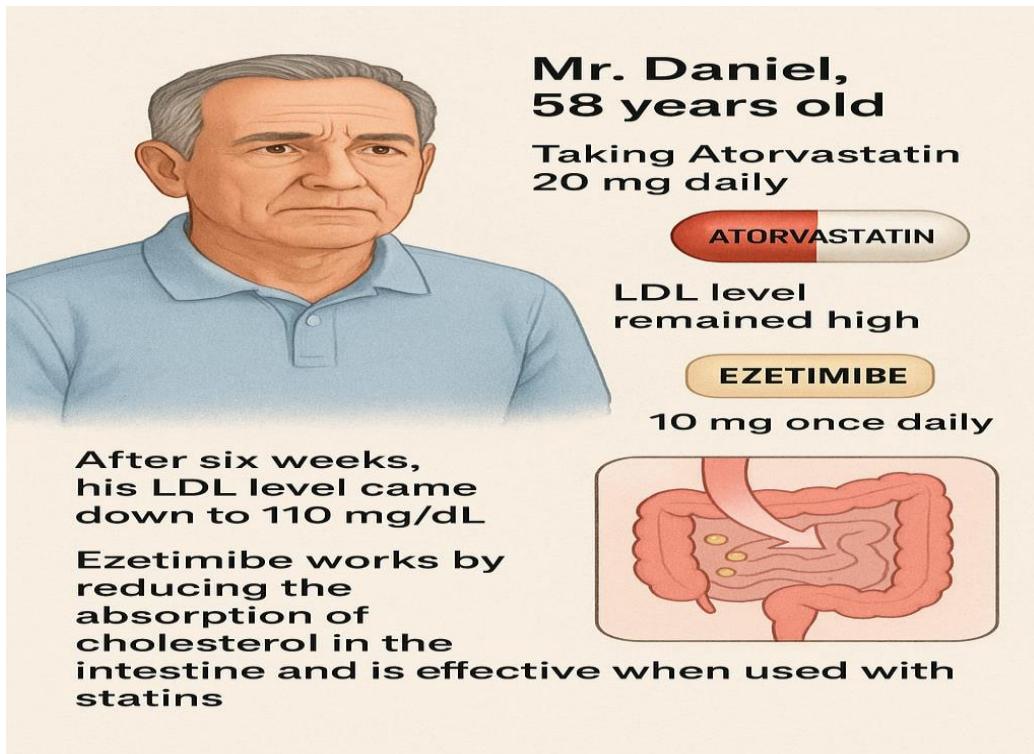
Mr. Ramesh, a 50-year-old man, had high cholesterol levels and complained of mild chest discomfort. His blood test showed total cholesterol of 280 mg/dL. The doctor prescribed Atorvastatin 20 mg once daily at night. After eight weeks, his cholesterol came down to 190 mg/dL. He felt slight muscle pain, which improved after adjusting the dose. Statins help lower cholesterol by blocking its production in the liver.



**Puzzle:**This drug lowered Mr. Ramesh's cholesterol by stopping its production in the liver. What is the drug?

## **Case Study 2: Ezetimibe Combination Therapy**

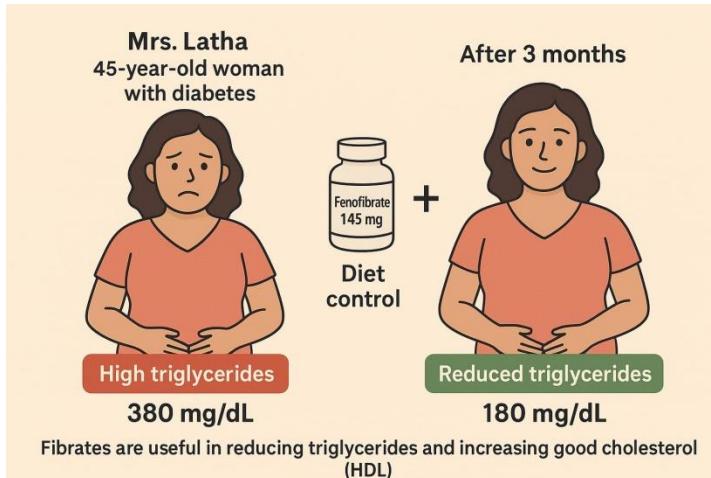
Mr. Daniel, a 58-year-old man, was taking Atorvastatin 20 mg daily, but his LDL level remained high. His doctor added Ezetimibe 10 mg once daily to his treatment. After six weeks, his LDL level came down to 110 mg/dL. Ezetimibe works by reducing the absorption of cholesterol in the intestine and is effective when used with statins.



Puzzle: Mr. Daniel's LDL reduced only after adding a drug that blocks cholesterol absorption in the intestine. Guess the drug!

## Case Study 3: Fibrate for High Triglycerides

Mrs. Latha, a 45-year-old woman with diabetes, had high triglyceride levels of 380 mg/dL. She was advised to take Fenofibrate 145 mg daily along with diet control. After three months, her triglycerides reduced to 180 mg/dL. Fibrates are useful in reducing triglycerides and increasing good cholesterol (HDL).



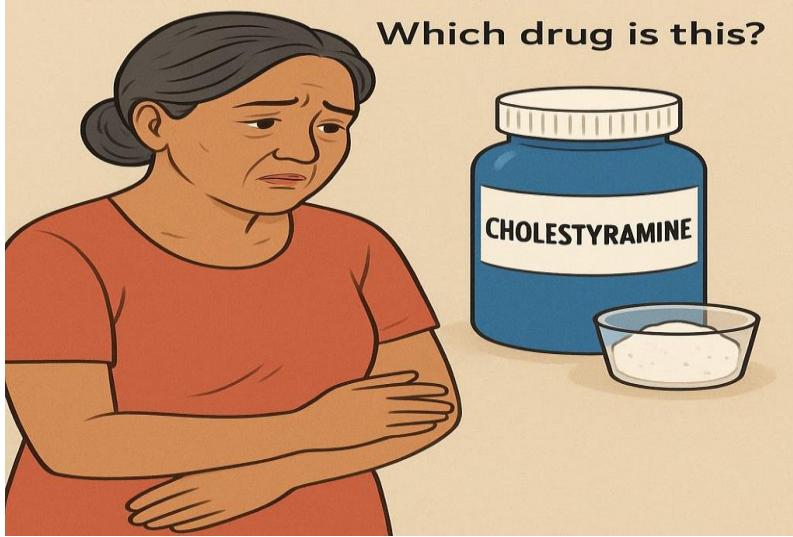
Puzzle: Mrs. Latha's triglycerides dropped after taking a drug that also raised her HDL. Can you name it?

## Case Study 4: Bile Acid Sequestrant for Statin Intolerance

Mrs. Priya, a 60-year-old woman, could not tolerate statins because they caused muscle pain. Her LDL level was 220 mg/dL. She was started on Cholestyramine 4 g twice daily. After two months, her cholesterol level dropped to 180 mg/dL. Bile acid sequestrants like Cholestyramine are safe options for people who cannot take statins.

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**Which drug is this?**



**Puzzle:** Mrs. Priya couldn't take statins due to muscle pain, so she was given a powder that binds bile acids. Which drug is this?

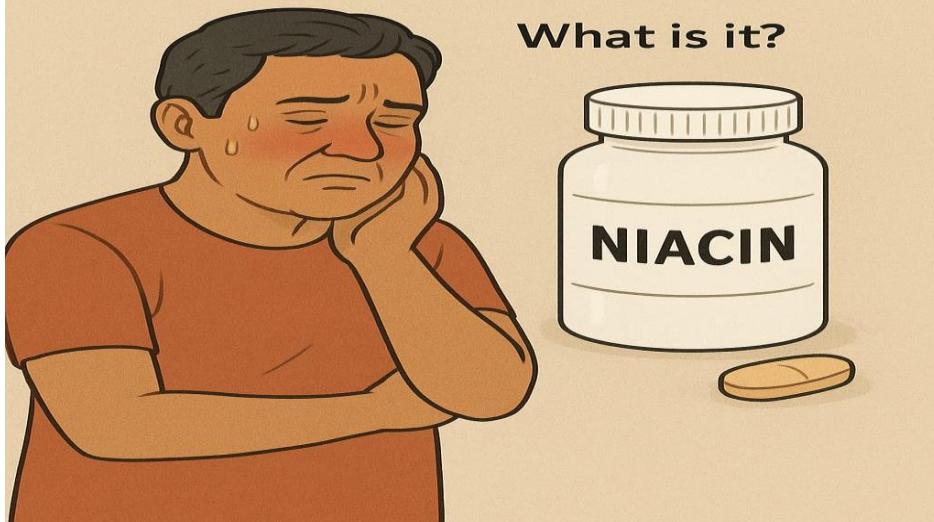
### **Case Study 3: Niacin for Low HDL**

Mr. Arjun, a 55-year-old man and smoker, had low HDL and high LDL levels. He was prescribed Niacin 500 mg daily, and the dose was slowly increased. After a few weeks, his HDL level improved from 32 to 44 mg/dL. He felt facial flushing, which was managed by taking the medicine after food. Niacin helps raise HDL and lower bad cholesterol.

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**What is it?**



puzzle: Mr. Arjun's HDL increased, but he felt facial flushing after taking this vitamin-like medicine. What is it?

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