SNS COLLEGE OF PHARMACY

AND HEALTH SCIENCE

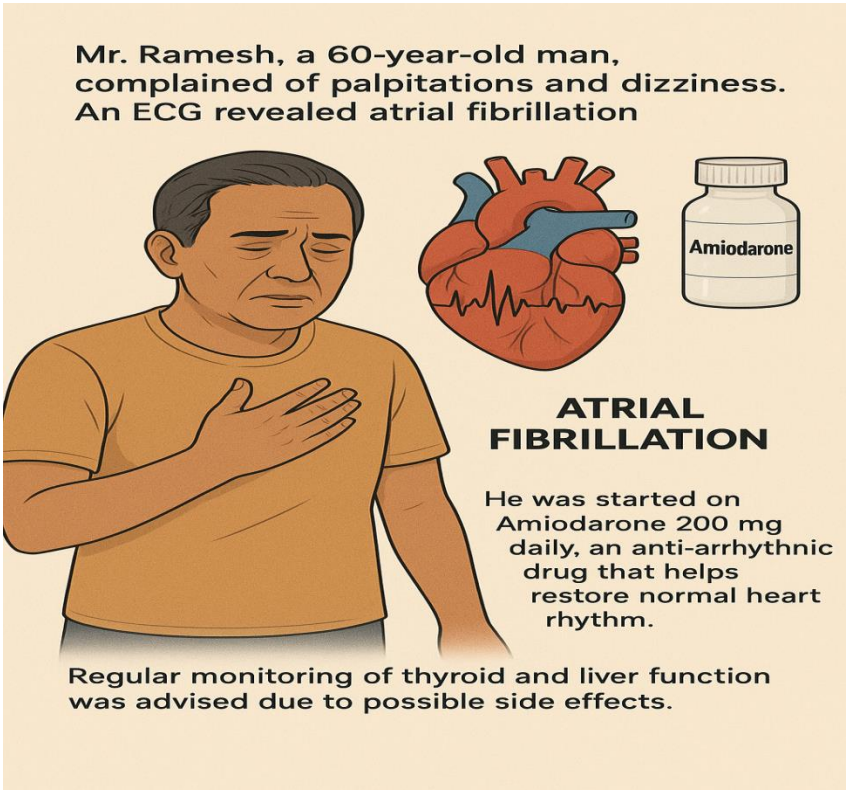
PHARMACOLOGY II **UNIT-1**

TOPIC:ANTI ARRYTHMIC DRUG

Case Study Puzzle Question:

Case Study 1:

Mr. Ramesh, a 60-year-old man, complained of palpitations and dizziness. An ECG revealed atrial fibrillation. He was started on Amiodarone 200 mg daily, an anti-arrhythmic drug that helps restore normal heart rhythm. After two weeks, his heart rhythm stabilized, and his symptoms improved. Regular monitoring of thyroid and liver function was advised due to possible side effects.



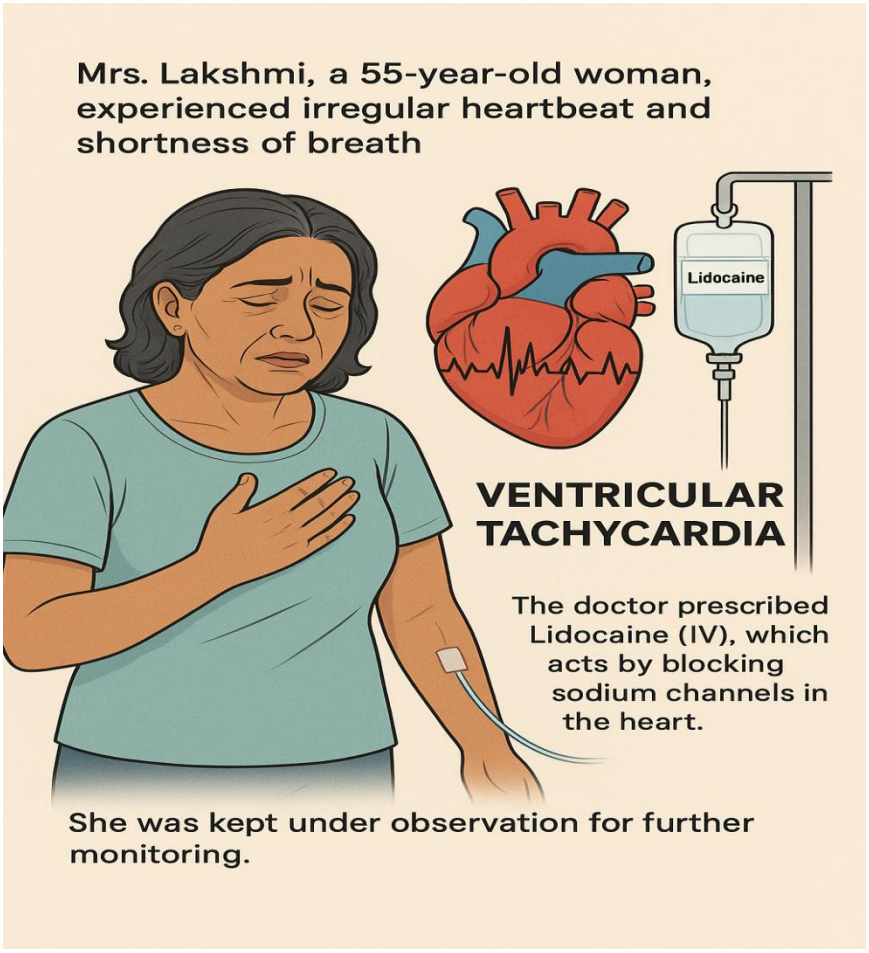
SNS COLLEGE OF PHARMACY

AND HEALTH SCIENCE

Puzzle:Which anti-arrhythmic drug helps control atrial fibrillation but needs regular thyroid and liver tests?

Case Study 2:

Mrs. Lakshmi, a 55-year-old woman, experienced irregular heartbeat and shortness of breath. She was diagnosed with ventricular tachycardia. The doctor prescribed Lidocaine (IV), which acts by blocking sodium channels in the heart. Her heart rate returned to normal within minutes of administration. She was kept under observation for further monitoring



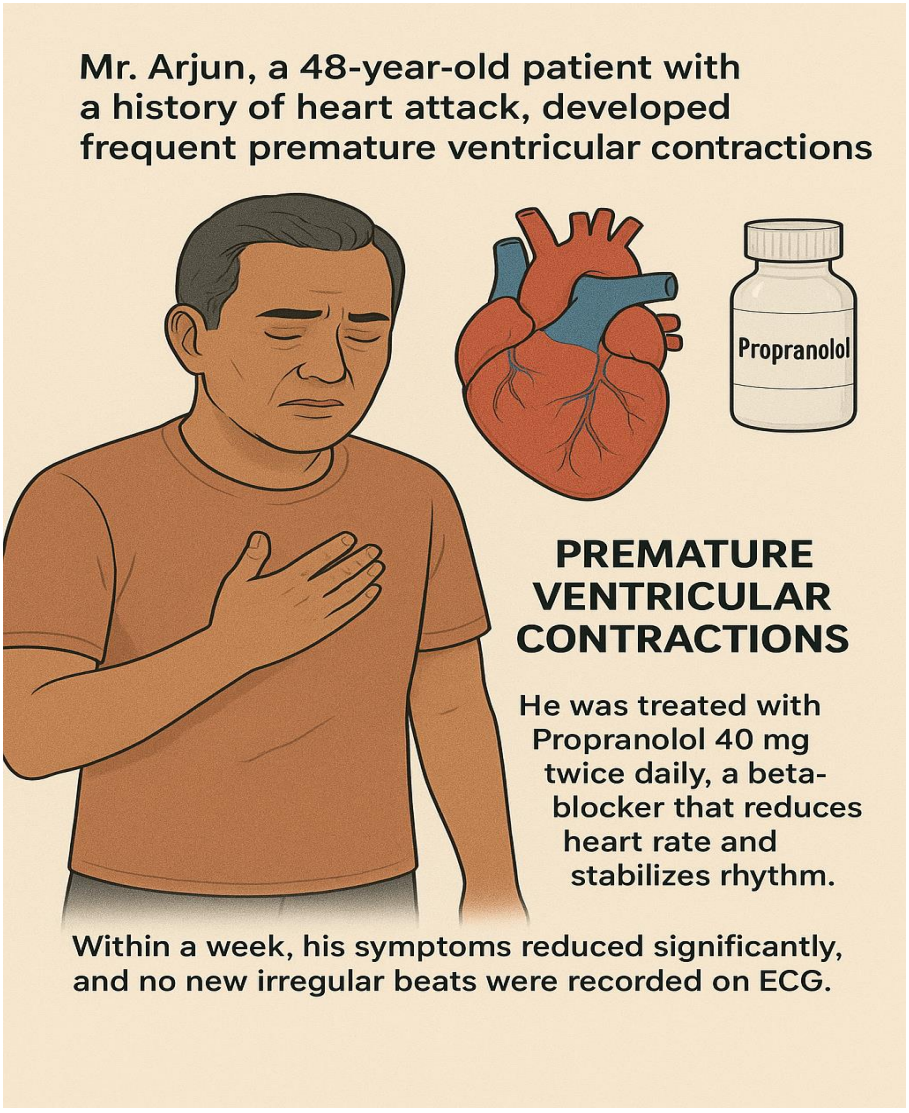
Puzzle: Which IV drug blocks sodium channels and quickly restores rhythm in ventricular tachycardia?

Case Study 3:

Mr. Arjun, a 48-year-old patient with a history of heart attack, developed frequent premature ventricular contractions. He was treated with Propranolol 40 mg twice daily, a beta-blocker that reduces heart rate and stabilizes rhythm. Within a week, his symptoms reduced significantly, and no new irregular beats were recorded on ECG.

SNS COLLEGE OF PHARMACY

AND HEALTH SCIENCE

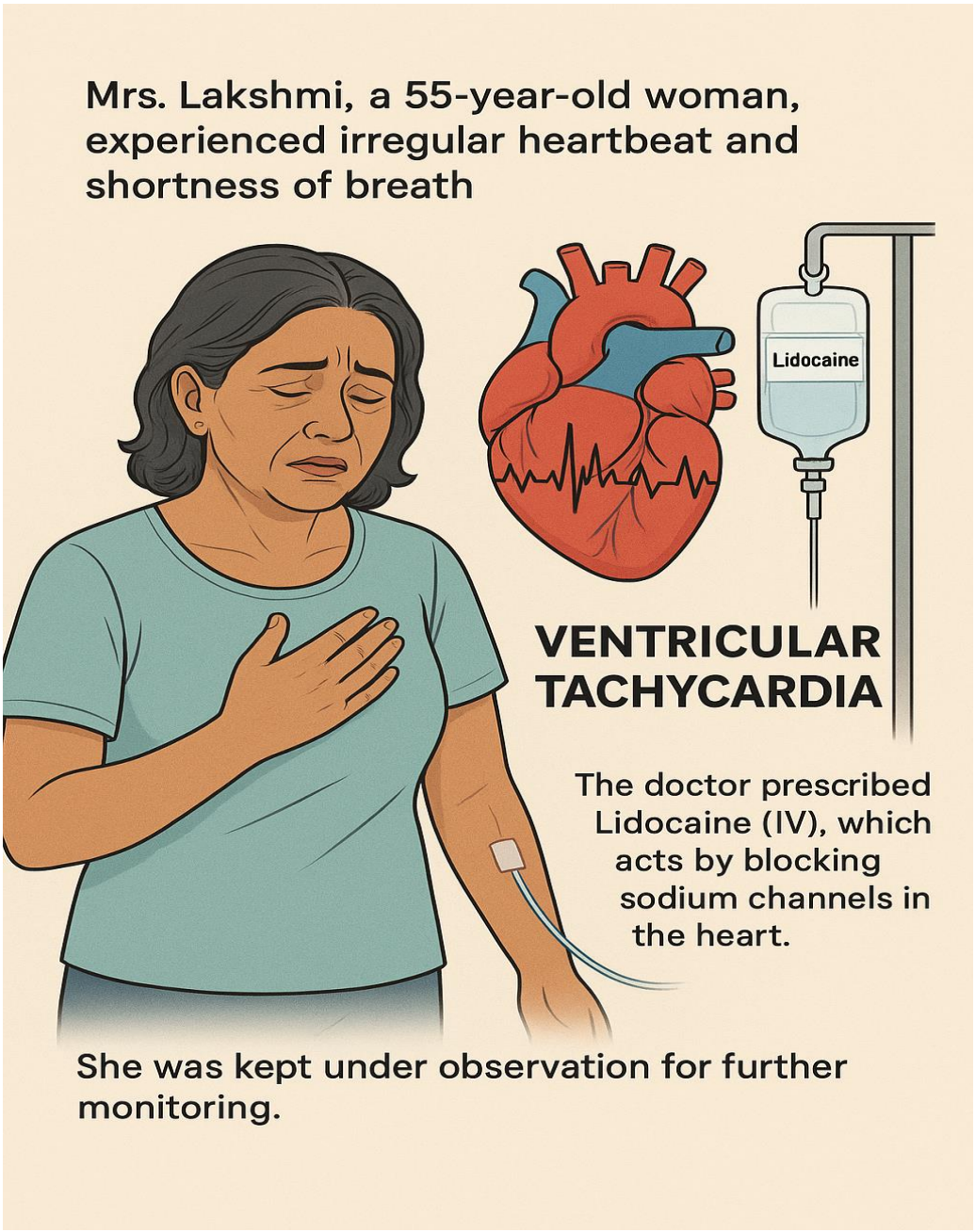


Puzzle :Which beta-blocker controls irregular heartbeat by slowing the heart rate after a heart attack?

Case Study 4:

Mrs. Meena, a 70-year-old lady, presented with rapid heartbeats and mild chest discomfort. ECG showed supraventricular tachycardia. She was

administered Verapamil 80 mg, a calcium channel blocker that slows down the conduction through the AV node. Her heart rate gradually normalized, and she was advised to continue the medication under supervision



SNS COLLEGE OF PHARMACY

AND HEALTH SCIENCE

Puzzle:

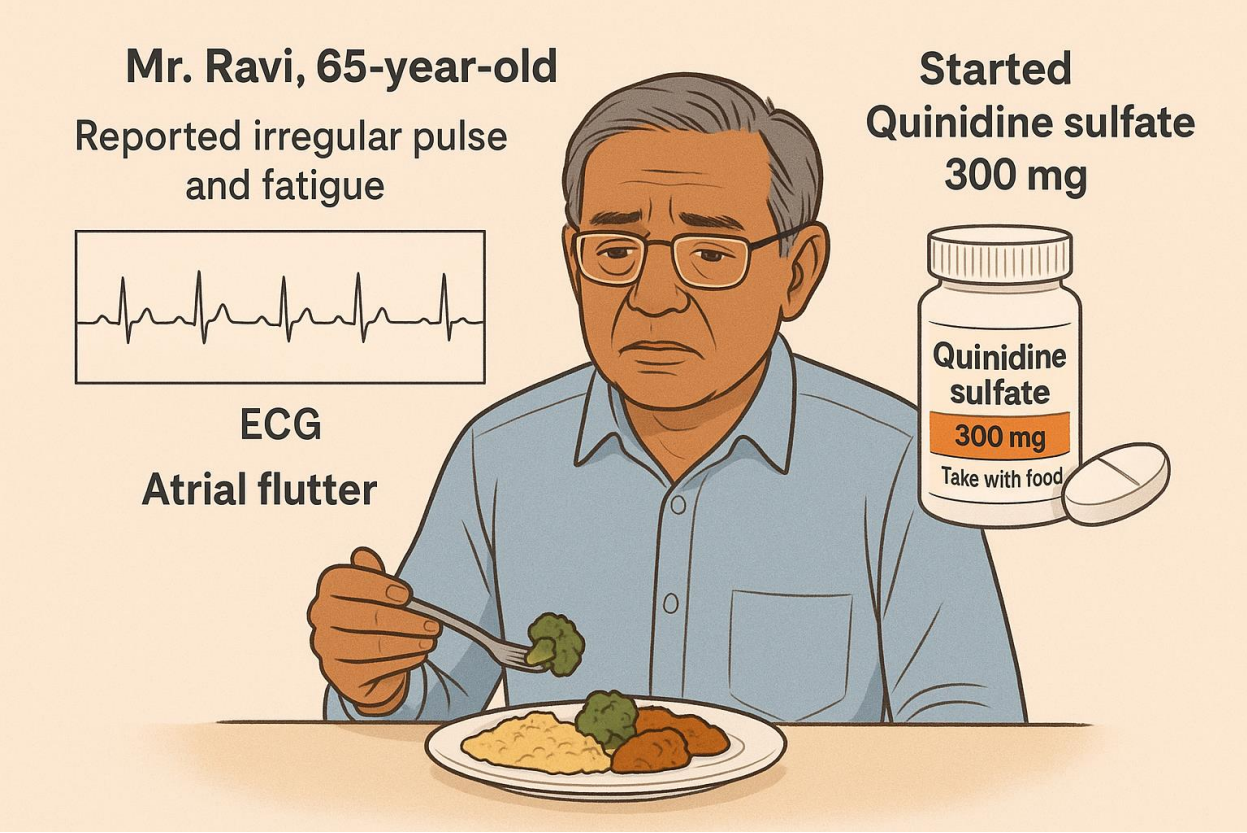
Which calcium channel blocker slows AV node conduction to manage supraventricular tachycardia

Case Study 5:

Mr. Ravi, a 65-year-old man, reported irregular pulse and fatigue. ECG confirmed atrial flutter. He was started on Quinidine sulfate 300 mg, an anti-arrhythmic that works by prolonging the cardiac action potential. After treatment, his rhythm converted to normal sinus rhythm. He was instructed to take the medicine with food to reduce gastric irritation

SNS COLLEGE OF PHARMACY

AND HEALTH SCIENCE



Puzzle:

Which drug converts atrial flutter to normal rhythm but should be taken with food to avoid gastric irritation?

SNS COLLEGE OF PHARMACY

AND HEALTH SCIENCE