



FMGE June '26

RECALL SESSION

A Mega Recall Session By
India's Top Educators

Pharmacology



Q.A patient with Pheochromocytoma is scheduled for surgical removal. Which of the following is the correct preoperative pharmacological management?

- a. Start Propranolol alone before surgery
- b. Start Phenoxybenzamine first, followed by Propranolol if needed
- c. Start Propranolol first, then Phenoxybenzamine
- d. No preoperative medication is required

Pharmacology



Q. A patient presents with hypotension associated with marked bradycardia (low heart rate). Which of the following is the most appropriate drug to increase both blood pressure and heart rate?

- a. Dopamine
- b. Adrenaline
- c. Noradrenaline
- d. Phenylephrine

Pharmacology



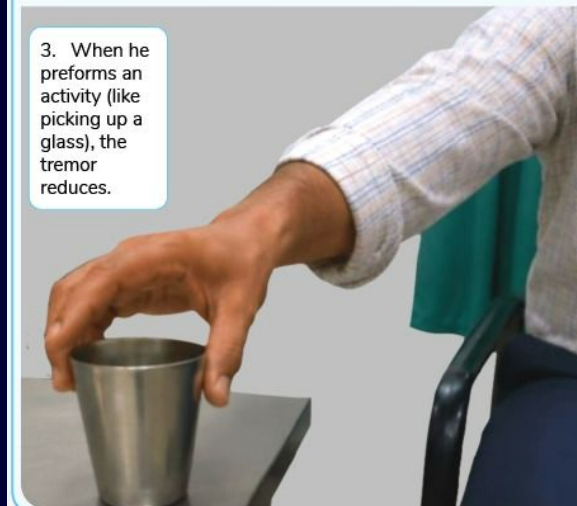
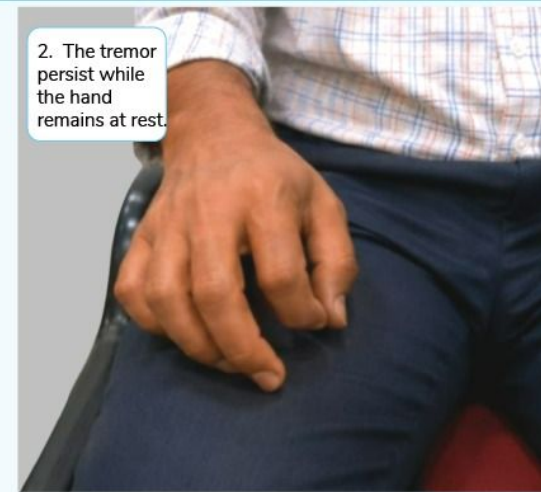
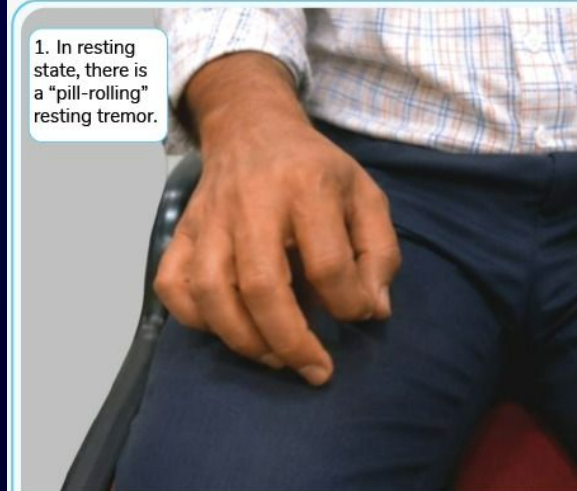
Q. A patient with chronic gout presents with an acute flare characterized by severe pain, swelling, and tenderness of the first metatarsophalangeal joint. His serum uric acid level is elevated. Following resolution of the acute attack, Which is the best drug for long term use in this patient?

- a. Allopurinol
- b. Colchicine
- c. Rasburicase
- d. Indomethacin

Pharmacology

Q. A 32-year-old man with a psychiatric illness was started on medication 3 weeks ago. He now develops resting tremor of both hands (As shown in video). Which class of drugs is most likely responsible for these symptoms?

- a. Typical antipsychotics
- b. SSRIs
- c. Atypical antipsychotics
- d. Benzodiazepines



Pharmacology



Q. A 35-year-old woman is diagnosed with Pulmonary arterial hypertension. Which of the following is the most appropriate drug for reducing pulmonary arterial pressure?

- a. Furosemide
- b. Amlodipine
- c. Bosentan
- d. Enalapril

Pharmacology



Q. Drug of choice for long-term management of Systemic lupus erythematosus (SLE) to reduce disease activity and flares is:

- a. Hydroxychloroquine
- b. Methotrexate
- c. Cyclophosphamide
- d. Ibuprofen

Pharmacology



Q. A 60-year-old man presents to the emergency department with a blood pressure of 230/110 mmHg, severe headache, blurred vision, and signs of end-organ damage. Which is the drug of choice for immediate blood pressure reduction?

- a. Hydrochlorothiazide
- b. Amlodipine
- c. Sodium nitroprusside
- d. Losartan

Pharmacology



Q. A 28-year-old man has recurrent episodes of mania and depression and is diagnosed with Bipolar disorder. He is currently stable and requires long-term therapy to prevent future mood episodes. Which is the drug of choice for maintenance treatment?

- a. Lithium
- b. Diazepam
- c. Fluoxetine
- d. Haloperidol

Pharmacology



Q. A patient with Migraine is treated with a triptan for an acute attack. Triptans exert their therapeutic effect by acting on which of the following receptors?

- a. 5-HT_{1A} receptor
- b. 5-HT_{1B}/5-HT_{1D} receptor
- c. 5-HT_{2A} receptor agonist
- d. 5-HT₃ receptor antagonist

Pharmacology



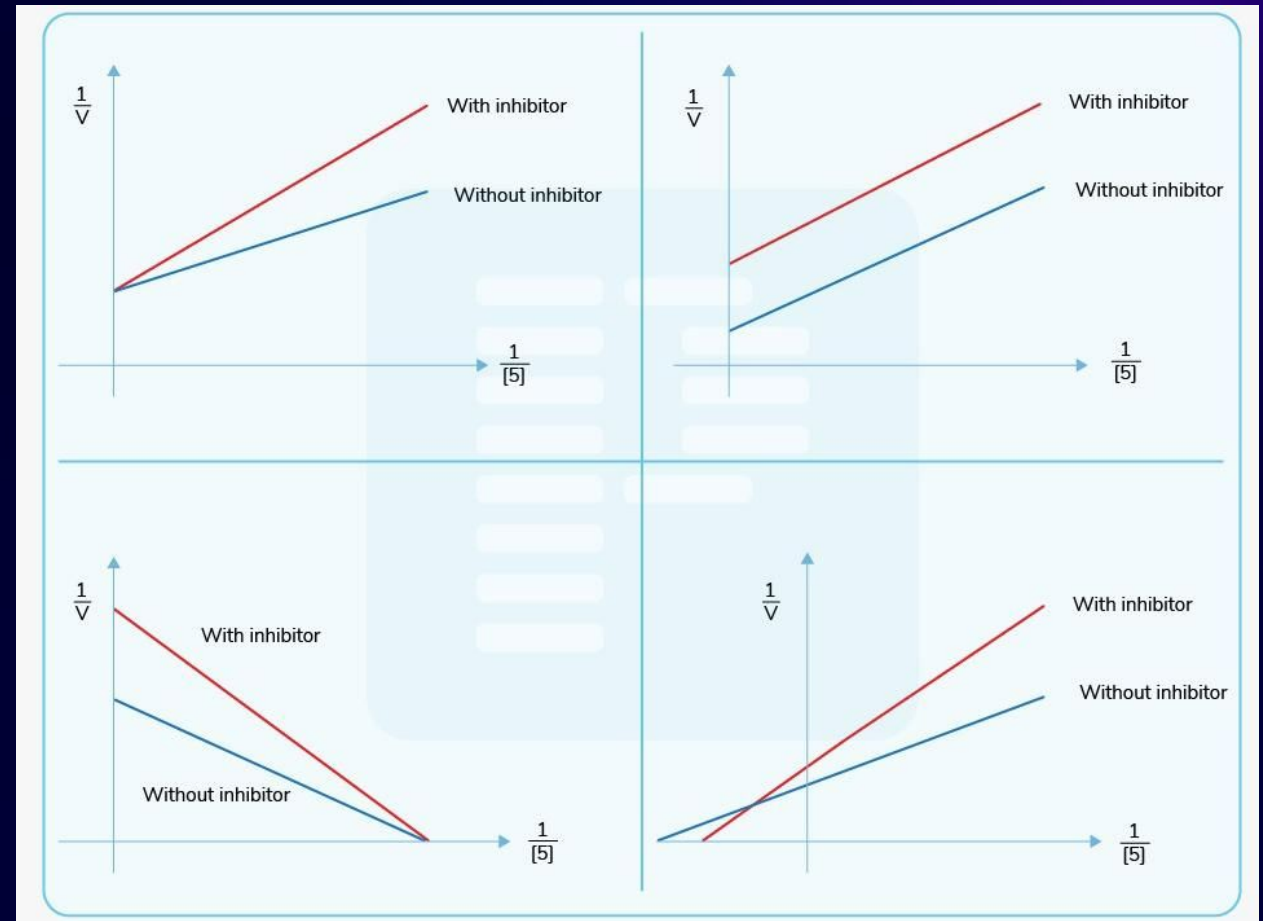
Q. A 35-year-old man presents with multiple hypopigmented anesthetic patches, thickened peripheral nerves, and positive slit-skin smear. He is diagnosed with – multibacillary Leprosy. Which of the following is the correct WHO multidrug therapy (MDT) regimen for an adult?

- a. Rifampicin 600 mg once monthly, Dapsone 100 mg daily, Duration: 6 months
- b. Rifampicin 600 mg once monthly (supervised), Clofazimine 300 mg once monthly (supervised) + 50 mg daily, Dapsone 100 mg daily, Duration: 12 months
- c. Rifampicin 600 mg daily, Clofazimine 100 mg daily, Dapsone 100 mg daily
- d. Dapsone 100 mg daily, Clofazimine 50 mg daily

Pharmacology



Q. An enzyme is incubated with a substrate in the presence and absence of an xanthine oxidase inhibitor and Lineweaver–Burk plots are obtained as shown in the graphs below. Which of the following graphs represents uncompetitive inhibition?



Pharmacology



Q.A 24-year-old female is brought to the emergency department 3 hours after ingesting a large quantity of Aspirin tablets. She complains of ringing in the ears, rapid breathing, and agitation. Arterial blood gas analysis demonstrates a mixed respiratory alkalosis and metabolic acidosis. What is the most appropriate initial treatment to enhance aspirin elimination from body?

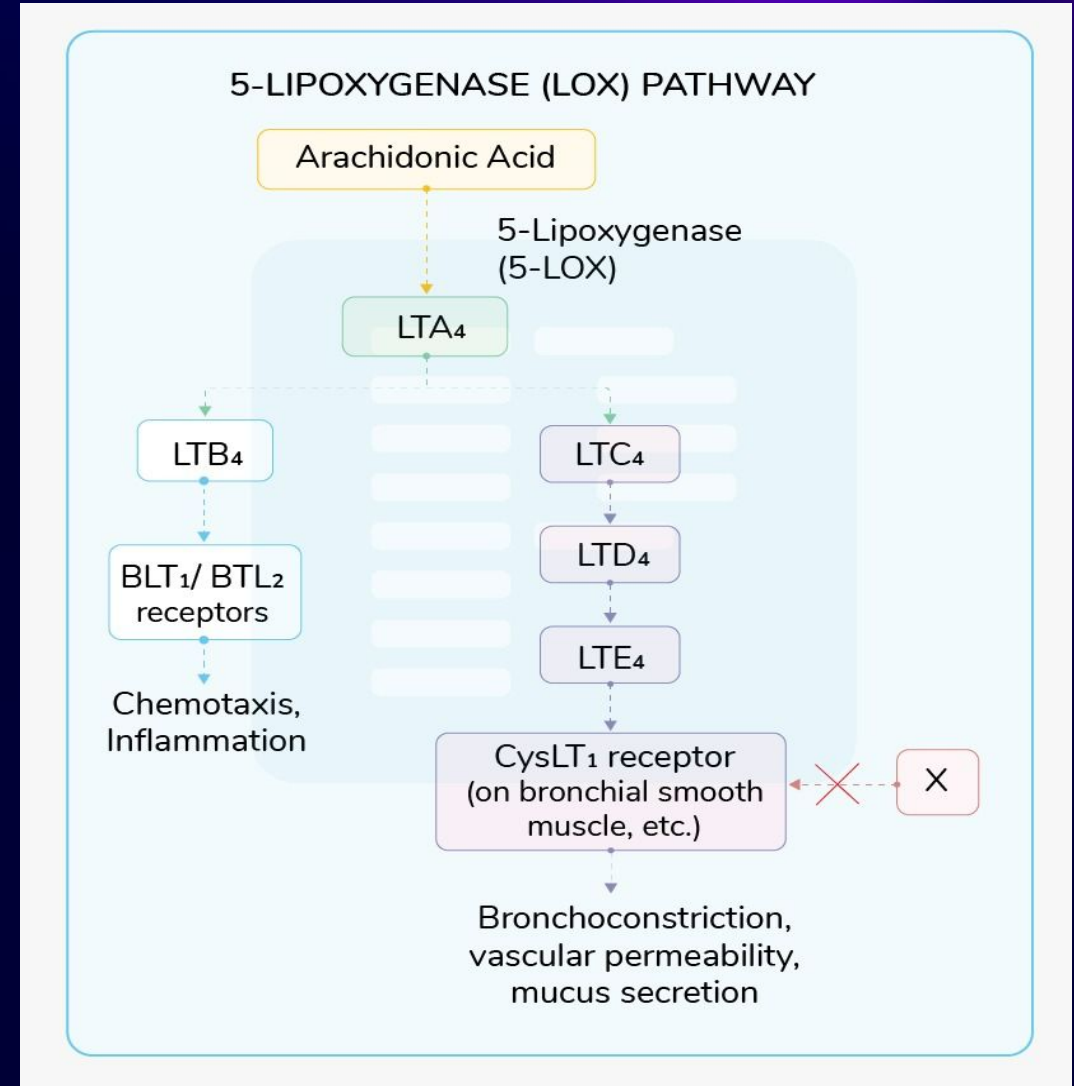
- a. Gastric lavage followed by activated charcoal
- b. Intravenous sodium bicarbonate to achieve urinary alkalization
- c. Intravenous N-acetylcysteine infusion
- d. Intravenous ammonium chloride administration

Pharmacology



Q. In the LOX pathway shown, drug 'X' selectively blocks the receptor for cysteinyl leukotrienes (LTC₄, LTD₄, LTE₄), thereby preventing bronchoconstriction. Identify drug 'X'.

- a. Zileuton
- b. Montelukast
- c. Indomethacin
- d. Prednisolone



Pharmacology



Q. A 58-year-old man with hypertension and type 2 diabetes mellitus is started on chlorthalidone. At his follow-up visit, his blood glucose levels are found to be significantly elevated despite adherence to antidiabetic therapy. Which of the following best explains the mechanism responsible for this adverse effect?

- a. Chlorthalidone causes hypokalemia, which reduces insulin secretion from pancreatic β -cells.
- b. Chlorthalidone directly stimulates hepatic gluconeogenesis by activating glucagon receptors.
- c. Chlorthalidone increases insulin secretion, leading to receptor downregulation and hyperglycemia.
- d. Chlorthalidone inhibits GLUT-4 translocation in skeletal muscle, causing insulin resistance.
- e.

Pharmacology



Q. 2. A 28-year-old man is brought to the emergency department after a road traffic accident. He is pale, diaphoretic, and hypotensive (BP 75/50 mmHg) with tachycardia. Tests done reveals a ruptured spleen with massive hemoperitoneum. He is taken for emergency exploratory laparotomy. Which of the following induction agents is the most appropriate in this patient?

- a. Sevoflurane
- b. Propofol
- c. Thiopentone sodium
- d. Ketamine

Pharmacology



Q. A 68-year-old man presents with persistent back pain, fatigue, recurrent infections, and anemia. Investigations reveal hypercalcemia, multiple osteolytic lesions on X-ray, and an M-protein spike on serum protein electrophoresis. Bone marrow examination confirms multiple myeloma. Which of the following drugs is a proteasome inhibitor used in the treatment of this condition?

- a. Bortezomib
- b. Busulfan
- c. Melphalan
- d. Cyclophosphamide

Pharmacology



Q. A 15-year-old adolescent with newly diagnosed acute lymphoblastic leukemia (ALL) is started on intensive induction chemotherapy. Two days later, he develops reduced urine output, nausea, and vomiting. Laboratory evaluation shows marked hyperuricemia, hyperkalemia, hyperphosphatemia, hypocalcemia, and worsening renal function, indicating tumor lysis syndrome. Which of the following agents is most effective for rapidly lowering the serum uric acid concentration?

- a. Allopurinol
- b. Pegloticase
- c. Febuxostat
- d. Probenecid

Pharmacology



Q. A 30-year-old man with a history of Bipolar disorder has been taking medication for the past 6 months. He now complains of fine tremors of both hands, excessive thirst, increased frequency of urination, weight gain, hypothyroidism and fatigue. Which of the following drugs is the most likely cause of these adverse effects?

- a. Haloperidol
- b. Fluoxetine
- c. Lithium
- d. Clonazepam



THANK YOU