

Practical Pharmacology

Prescriptions

Prescription 1 : Myasthenia gravis

A young female patient with severe muscle weakness and ptosis. She was diagnosed as myasthenia gravis. Her physician prescribed her mono-therapy of an anti-cholinesterase drug (X) 60 mg tablets which is the drug of choice. She was instructed to take 2 tablets every 12 hours for 10 days till the next visit for follow up.

- 1- Write prescription for this case.
- 2- Why this drug X could be given alone?

Prescription 1 : Myathenia gravis

Answer

R/ Pyridostigmine 60 mg tablet

Dispense: 40 tablets

Sig: Take 2 tablet every 12 hours for 10 days

- Its action is more specific on skeletal muscles with weak action on GIT and it has a longer duration of action. There is no need to add atropine due to its specific action on skeletal muscles

Prescription 2 : Motion sickness

A 20 year old girl experiences vomiting whenever she travels to hilly area or by sea. Her doctor prescribed one of the anti-histaminic drugs X (of choice) 50 mg tablets to be taken 2 times daily for 10 days.

- 1- Write the prescription written by the doctor.
- 2- One of the anti-histaminic drugs is also prescribed for this case. Mention it.

Prescription 2 : Motion sickness

Answer

R/ Dimenhydrinate (dramenex) 50 mg tablet

Dispense: 20 tablets

Sig: Take 1 tablet 2 times daily for 10 days

- Hyoscine (scopolamine)

Prescription 3 : Allergic rhinitis

A driver male patient complained of running nose during seasonal exchange. The physician diagnosed as seasonal allergic rhinitis. The physician prescribed fexofenadine 120 mg tablets to be taken orally once QD for 10 days.

- 1- Write the prescription written by the doctor.
- 2- Classify fexofenadine. Is it suitable for this case? Explain why?

Prescription 3 : Allergic rhinitis

Answer

R/ fexofenadine 120 mg tablet

Dispense: 10 tablets

Sig: Take 1 tablet once daily for 10 days

- Fexofenadine is 2nd generation anti-histaminic
- Yes, it is suitable as it can't pass BBB so no sedation occurs and the patient is driver.

Prescription 4 : Osteoarthritis

Female obese patient aged 45 years old presented to the outpatient clinic complaining of pain in her knee joints. She was diagnosed as osteoarthritis. Her physician her one of the NSIADs (drug X) (characterized by its concentration in the synovial fluid is 4-5 times as its concentration in the plasma) 75 mg S.R capsules to be taken as 1 capsule every 12 hours after meal for 15 days.

- Write the prescription written by the doctor.

Prescription 4 : Osteoarthritis

Answer

R/ Diclofenac 75 mg S.R capsule

Dispense: 30 tablets

Sig: Take 1 tablet every 12 hours after meal for 15 days

Prescription 5 : Simple headache

A child aged 12 years presented to outpatient clinic complaining of mild headache for 2 days. There is no fever or any significant medical history. Examination showed no clinical abnormalities. His doctor prescribed him drug X 500 mg tablets to be taken orally as one tablet when needed.

- 1- The best drug for this case is (aspirin-Paracetamol)
- 2- Write the prescription formula written by the doctor.
- 3- what is the strength of the drug ? What is the toxic dose for a child?

Prescription 5 : Simple headache

Answer

R/ Paracetamol 500 mg tablet

Dispense: 20 tablets

Sig: Take 1 tablet when needed

- Paracetamol
- 500 mg strength
- 4 g is the toxic dose for children.