

2016/17 Batch
Pharmacology Tutorial
Pharmacodynamics
30.10.2019 – 1.15 p.m. – 3.15 p.m.

1. Explain the basis of the following clinical situations

- 1.1 A patient receiving morphine tablets twice a day for three months for cancer-related pain notices that the pain relief becomes progressively inadequate.
- 1.2 A 60-year-old male commenced on prazosin (α adrenoceptor antagonist) for the treatment of hypertension develops dizziness on standing.
- 1.3 A 70-year-old male commenced on aspirin (cyclo-oxygenase inhibitor) for transient ischaemic attacks develops an upper gastrointestinal haemorrhage.

2. Draw semi-logarithmic dose-response curves for the following situations

- 2.1 Full agonist
- 2.2 Partial agonist
- 2.3 Inverse agonist
- 2.4 Full agonist in the presence of a fixed amount of competitive antagonist
- 2.5 Full agonist in the presence of a fixed amount of non-competitive antagonist
- 2.6 Full agonist in the presence of a fixed amount of partial agonist
- 2.7 Full agonist in the presence of a fixed amount of inverse agonist