

~~Anti-arrhythmic drugs~~

* Anti-arrhythmic drugs *

The drugs are used to treat Arrhythmia
are called Anti-Arrhythmic drugs.

Classification -

① Sodium channel blocker - Quinidine, Procainamide, Lidocaine, Phenytoin.

② beta blockers - Atenolol, Propranolol

③ Potassium channel blockers - Amiodarone, bretylium.

④ Ca⁺⁺ channel blockers - Verapamil, Nifedipine

① Sodium channel blockers -

Quinidine

Procainamide

Lidocaine

Phenytoin

Pharmacological Action -

- They block myocardial Na^+ channels.
- They slow down heart rate

Quinidine

Indication →

They are used to treat:

- Arrhythmia
- Quinidine is used to treat malaria.

Contraindications →

They are contraindicated in

- ① Hypersensitivity
- ② Coronary artery disease.
- ③ Cardiogenic shock
- ④ severe hepatic disorder

Doses -

- Quinidine : (100-200mg/tds) oral
- Procainamide : (0.5-1gm/d) oral

② Potassium channel blockers

- Amiodaron
- Bretylium

Pharmacological Action -

- ① They prolong the duration of action potential
- ② They decrease heart rate
- ③ They block Potassium channel in myocardium

Indications -

They are used to treat:

- ① Atrial fibrillation (Irregular or Rapid heart rate)
- ② Ventricular fibrillation.

Contraindications →

- ① Bradycardia (↓BP)
- ② Congestive heart failure
- ③ Bronchospasm. (spasm in lung)

Doses

Amiodaron 1000-600 mg/d orally.

Sotalol 100-80 mg/d orally.