

Cardiovascular System (CVS)

Prototype Drugs Affecting The CVS

In this chapter we will discuss the prototype drugs used in major diseases of CVS.

Major Diseases Related To Cardiovascular System

1. Heart Failure
2. Arrhythmias
3. Angina
4. Hypertension

Now we will discuss prototype drugs of each disease.

Heart Failure

Heart is a unique organ that starts functioning before birth and continues till the death occurs. Heart acts as a pump to supply blood and thus oxygen and nutrients to all the body tissues. Heart failure is a complex, progressive disorder in which the heart is unable to pump sufficient blood to meet the needs of the body. HF is due to the impaired ability of the heart to properly fill with blood or eject blood. It is often due to abnormal increases in blood volume and interstitial fluid.

Prototype Drugs Used To Treat Heart Failure

Renin Angiotensin System Blockers

- Captopril (ACE inhibitor)
- Losartan (angiotensin receptor blockers)

B-Blockers

- Propranolol

Diuretics

(See in Genito Urinary System)

Direct Vasodilators

- Sodium nitroprusside

Inotropic Agents

- Digoxin/Digitalis

Available Brands in the Market

Capotein Tab. (Captopril)
 Losar-k, Tab. (Losartan)
 Losartan Tab. (Losartan)
 Inderal Tab. (Propranolol)
 Betanot Tab. (Propranolol)
 Spiromide Tab. (Spironolactone)
 Aldactone Tab. (Spironolactone)
 Digox Tab. (Digoxin)

Captopril (ACE Inhibitors)

Captopril is ACE inhibitors agents that block the ACE activity. As ACE convert angiotensin-I into angiotensin-II, which is a powerful vasoconstrictor. These agents also diminish the rate of bradykinin inactivation, which is a vasodilator.

Action On Heart

Captopril and other ACE inhibitors decrease vascular resistance and blood pressure.

Fundamentals Of Cardiovascular Pharmacology

JL Elias



Fundamentals Of Cardiovascular Pharmacology:

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