

# CARDIOVASCULAR PHARMACOLOGY

## Hypertension – SVR, CO, Reduce Blood Volume

### VASODILATORS

#### ACE inhibitors ("pri")

- First line therapy.
- Protects against diabetic nephropathy.
- Contraindications: asthma, pregnancy, bilateral renal stenosis.



#### Angiotensin II receptor blockers (ARBs) ("partan")

- Contraindications: Pregnancy, bilateral renal stenosis.

#### Ca<sup>2+</sup> blockers ("pine")

- Dihydropyridines are first line therapy.
- Elderly, Af, American.

#### Hydralazine

- Use in severe hypertension.



## REDUCE CARDIAC OUTPUT

### β-blockers ("lol")

- Contraindications: bradycardia, AV nodal block; use caution in diabetic patients.
- Don't use non-selective β-blockers in asthma, COPD.

## INC. URINE OUTPUT

### Thiazide diuretics ("ide")

- First line therapy.
- Contraindications: sulfa allergies.

### Aldosterone antagonists ("one")

- Use in resistant hypertension.
- Contraindications: pregnancy.



## Hypertensive Emergency:

- Nitrates (nitroprusside, nitroglycerine)
- Ca<sup>2+</sup> blockers (clevidipine, nicardipine)
- Dopamine-β agonist (fenoldopam)
- Adrenergic-blockers (labetalol)

## Safe for Pregnancy:

- Methyldopa
- Labetalol
- Nifedipine
- Hydralazine



## Hypotension – Increase SVR, CO

### VASOCONSTRICTORS

#### α<sub>1</sub>-agonists



### Cardiostimulatory β-agonists



## Myocardial Infarction – Reduce O<sub>2</sub> Demand/Supply Ratio

### RESTORE CORONARY BLOOD FLOW

- Thrombolytic, anti-platelet drugs



- Vasodilators (nitroglycerine)



## Heart Failure Reduced EF

### IMPROVE CARDIAC FUNCTION, RELIEVE SYMPTOMS

### INC. URINE OUTPUT

- Diuretics
- Aldosterone antagonists



### VASODILATORS

- ACE inhibitors
- ARBs



### CARDIOINHIBITORY

- β-blockers (when stable)
- Ivabradine (Persistent HR >70bpm)



### INOTROPIC

- Digitalis
- Contraindications: hypokalemic, AV block, Reduced renal function.



## Angina

### REDUCE O<sub>2</sub> DEMAND/SUPPLY RATIO

### VASODILATORS

- Nitroglycerine



### CARDIOINHIBITORY DRUGS

- β-blockers
- Ca<sup>2+</sup> blockers (non-dihydropyridine)



### SODIUM CURRENT BLOCKER

- Ranolazine
- Reduce wall tension; Improve coronary blood flow



### ANTI-THROMBOTIC DRUGS

- Anti-platelets
- Anti-coagulants



### OTHERS

- Morphine
- Anti-arrhythmias
- Diuretics

# Cardiovascular Pharmacology

**CO Houle**



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