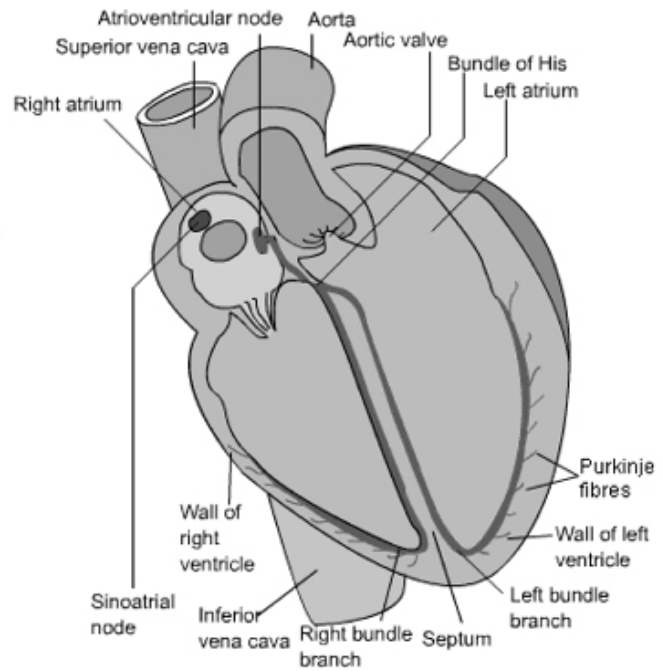
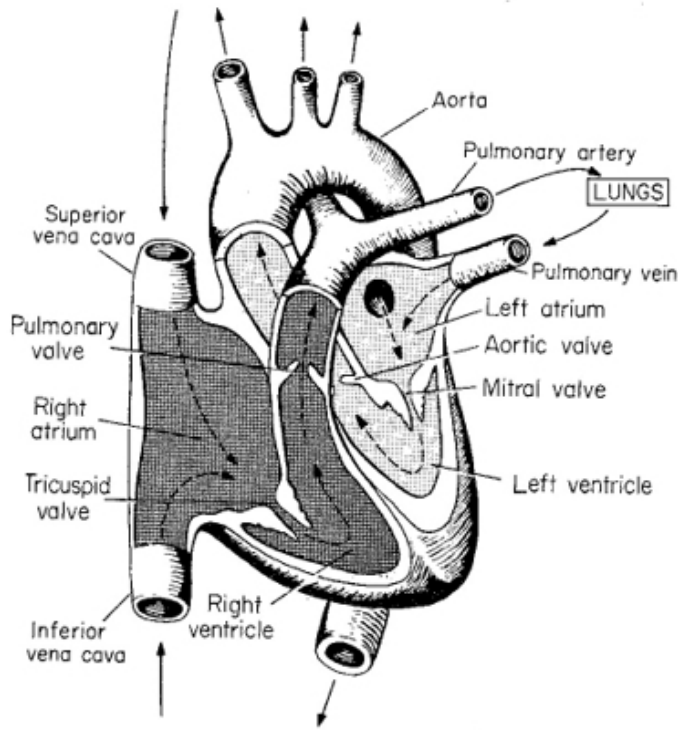
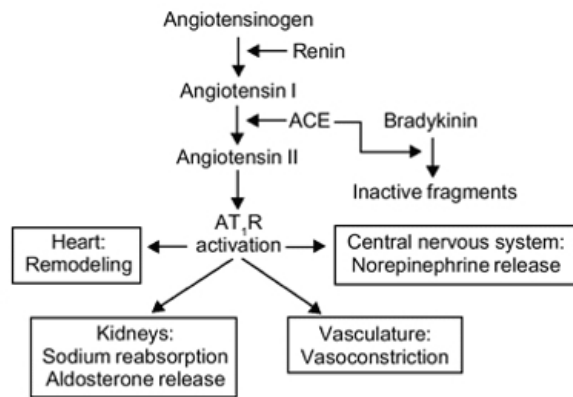
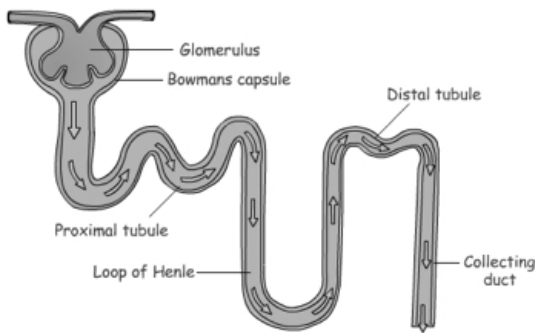


Review:

Cardiac Anatomy



Renal Anatomy



Cardiovascular Diseases

- CHF
- Arrhythmia
- Angina Pectoris / Coronary Artery Disease
- Hypertension
- Hyperlipidemia
- CVA
- MI

## Dental Implications of Cardiovascular Disease Contraindications To Treatment

### Cardiac Glycosides

Disease: CHF, (arrhythmias)

Effect:

ADR's

Mgmt.

Drugs for CHF: digoxin, **ACE-I**, ARB,  $\beta$ -blocker, vasodilators, diuretics, aldosterone antagonist

### Antiarrhythmic Agents

Disease: arrhythmia

Effect:

ADR's:

Drugs for arrhythmias: Table 15-1 pg 191, amiodarone (contains I), dronedarone

### Antianginal Drugs

Disease: angina pectoris

Effect:

ADR's

Drugs for angina: **nitroglycerine**, isosorbide dinitrate, additional drugs table 15-3 pg 192

### Antihypertensive agents (bold face = "big five")

Disease: hypertension

Drugs: (table 15-4 pg 196)

#### **Diuretics**

$K^+$ -sparing: triamterene, spironolactone  
effect:

ADR's

Thiazide: HCTZ  
effect:

ADR's **hypokalemia xerostomia**

Loop: furosemide (Lasix)  
effect:

ADR's **hypokalemia xerostomia**

ANS

**$\beta$ -blockers**

selective: atenolol  
metoprolol, (see *L.A.* box 10-7 pg 150)  
effect

ADR's

non-selective: propranolol, nadolol, sotalol, (see *L.A.* box 10-7 pg 150)  
effect:

ADR's

$\alpha$ - and  $\beta$ - adrenergic blocking agent labetalol  
effect:

ADR's

**Calcium Channel Blockers** diltiazem, verapamil, amlodipine, nifedipine  
effect:

ADR's **gingival enlargement**

**ACE inhibitors** lisinopril, enalapril, ramipril, benazepril  
effect:

ADR's

**AR blockers** valsartan, losartan, olmesartan, irbesartan  
effect:

ADR's

Rennin inhibitors aliskiren  
Effect

ADR's

$\alpha_1$ -blockers doxazosin, terazosin  
effect:

ADR's

CNS mediated (centrally acting) agents

clonidine  $\alpha_2$ -agonist, **xerostomia**

guanethidine

reserpine

Vasodilators

hydralazine

Antihyperlipidemic agents

HMG-Co-A (3-hydroxy-3-methylglutaryl Coenzyme A) reductase inhibitors: atorvastatin, simvastatin, rosuvastatin, pravastatin, lovastatin

Effect:

ADR's

Intestinal Absorption Inhibitors - ezetimibe

Effect

ADR's

Niacin (vitamin B<sub>3</sub>)

Effect

ADR's

Bile acid-binding resins

cholestyramine

colestipol

fibrates

gemfibrozil

fenofibrate

Anticoagulants

warfarin (Coumadin)

effect:

ADR's

Dental management

heparin (hospital drug)  
effect:

ADR's

clopidogrel (Plavix)  
effect:

ADR's

ticlopidine (Ticlid)  
effect:

ADR's

“clot busters” hospital drugs  
streptokinase  
ateplase

dipyridamole (Persantine)  
effect:

ADR's

pentoxifyline (Trental)  
effect:

ADR's