

5.0 CARDIOVASCULAR DRUGS**5.1 RADIOACTIVE AGENTS****5.1.1 INOTROPIC AGENTS****5.1.1.1 Cardiac Glycoside**

DIGOXIN (2)
(also for supraventricular
tachycardia)

Oral: 250 mcg tablet
50 mg/mL elixir, 60 mL
Inj.: 250 mcg/mL, 2 mL ampul (IM, IV)

5.1.1.2 Adrenergic Agents

DOBUTAMINE (1, 2)

Inj.: 12.5 mg/mL, 20 mL vial
(IV) (as hydrochloride)
50 mg/mL, 5 mL ampul (concentrate)
(IV Infusion) (as hydrochloride)
250 mg vial (IV) (as hydrochloride)
250 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
500 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
1,000 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)

DOPAMINE (1, 2)

Inj.: 20 mg/mL, 10 mL ampul
(IV) (as hydrochloride)
40 mg/mL, 5 mL vial/ampul
(IV) (as hydrochloride)
80 mg/mL, 5 mL vial
(IV) (as hydrochloride)
200 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
400 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
800 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)

EPINEPHRINE (2)
(adrenaline)

Inj.: 1 mg/mL, 1 mL ampul (IM, SC)
(as hydrochloride)

NOREPINEPHRINE (1)

Inj.: 1 mg/mL, 2 mL ampul (IV Infusion)
(as bitartrate)

5.1.2 ANTI-ANGINAL AGENTS**5.1.2.1 Nitrates***GLYCERYL TRINITRATE*
(nitroglycerin)

Inj.: 1 mg/mL, 5 mL, 10 mL, 25 mL ampul
and 50 mL glass vial
(IV Infusion) (only for
unstable angina) (1, 2)

Ointment: 2%, 20 g and 30 g tube

Patch: 5 mg and 10 mg

Sublingual: 400 mcg tablet

ISOSORBIDE DINITRATE

Oral: 5 mg, 10 mg and 20 mg tablet
20 mg and 40 mg SR tablet/capsule

Sublingual: 5 mg tablet

Inj.: 1 mg/mL, 10 mL ampul (IV) (1)

*ISOSORBIDE - 5 -
MONONITRATE*

Oral: 10 mg, 20 mg and 40 mg tablet
30 mg SR tablet
60 mg SR tablet/capsule

5.1.2.2 Beta Adrenoceptor Blockers*ATENOLOL* (B)
(cardioselective/no ISA)

Oral: 50 mg and 100 mg tablet

METOPROLOL (B)
(cardioselective/no ISA)Oral: 50 mg and 100 mg tablet (as tartrate)
100 mg tablet (as succinate)*PROPRANOLOL* (B)
(non-cardioselective/no ISA)Oral: 10 mg, 20 mg, 40 mg and 80 mg
tablet (as hydrochloride)
40 mg and 80 mg CR capsule
(as hydrochloride)**5.1.2.3 Calcium Channel Blockers***DILTIAZEM* (B)Oral: 30 mg and 60 mg tablet
(as hydrochloride)
60 mg, 90mg, 120 mg, 180 mg,
200 mg and 240 mg SR capsule
(as hydrochloride)
90 mg, 120 mg and 180 mg SR tablet
(as hydrochloride)*verapamil* (B)Oral: 40 mg and 80 mg tablet
(as hydrochloride)
120 mg and 240 mg CR capsule
(as hydrochloride)
180 mg and 240 mg SR tablet
(as hydrochloride)

5.1.3 DRUGS FOR ACUTE CORONARY SYNDROMES

5.1.3.1 Nitrates (see 5.1.2.1)

5.1.3.2 Anticoagulants

HEPARIN

LOW MOLECULAR
WEIGHT HEPARIN

▼ ENOXAPARIN (1, 2)

Inj.: 20 mg/0.2 mL, 40 mg/0.4 mL,
60 mg/0.6 mL and 80 mg/0.8 mL
pre-filled syringe (SC)
(as sodium)
100 mg/mL, 1 mL vial (SC)
(as sodium)

UNFRACTIONATED
HEPARIN (1, 2)

Inj.: 1,000 IU/mL and 5,000 IU/mL; 5 mL
vial (IV, SC) (as sodium salt)

WARFARIN (1, 2)

Oral: 1 mg, 2.5 mg and 5 mg tablet

5.1.3.3 Antithrombotics

ASPIRIN

Oral: 80 mg tablet

▼ clopidogrel

Oral: 75 mg tablet

tirofiban (1, 2)

Inj.: 250 mcg/mL concentrated solution
for dilution for IV Infusion, 50 mL
(as hydrochloride)

5.1.3.4 Thrombolytic (Fibrinolytic)

STREPTOKINASE (1, 2)

Inj.: 750,000 IU vial, IV Infusion
1,500,000 IU vial, IV Infusion

★ recombinant tissue
plasminogen
activator (rTPA)
(1, 2)

Inj.: 1 mg/mL 50 mL vial, IV Infusion

5.1.3.5 Angiotensin Converting Enzyme (ACE) Inhibitors

CAPTOPRIL

Oral: 25 mg and 50 mg tablet

ENALAPRIL

Oral: 5 mg, 10 mg and 20 mg tablet
(as maleate)

5.1.3.6 Beta Blockers

<i>ATENOLOL</i> (B) (cardioselective/no ISA)	Oral: 50 mg and 100 mg tablet
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<i>METOPROLOL</i> (B) (cardioselective/no ISA)	Oral: 50 mg and 100 mg tablet (as tartrate) 100 mg tablet (as succinate)
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<i>PROPRANOLOL</i> (B) (non-cardioselective/no ISA)	Oral: 10 mg, 20 mg, 40 mg and 80 mg tablet (as hydrochloride)
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5.1.3.7 Opioid Analgesic

<i>MORPHINE</i> (A1)	Inj.: 10 mg/mL, 1 mL ampul (IM, IV, SC) (as sulfate) 15 mg/mL, 1 mL ampul (IM, IV, SC) (as sulfate)
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5.1.4 FOR POST MYOCARDIAL INFARCTION MAINTENANCE DRUGS

5.1.4.1 Antithrombotic

<i>ASPIRIN</i>	Oral: 80 mg tablet
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5.1.4.2 Beta Adrenoceptor Blockers

<i>ATENOLOL</i> (B) (cardioselective/no ISA)	Oral: 50 mg and 100 mg tablet
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<i>METOPROLOL</i> (B) (cardioselective/no ISA)	Oral: 50 mg and 100 mg tablet (as tartrate) 100 mg tablet (as succinate)
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<i>PROPRANOLOL</i> (B) (non-cardioselective/no ISA)	Oral: 10 mg, 20 mg, 40 mg, and 80 mg tablet (as hydrochloride) 40 mg and 80 mg CR capsule (as hydrochloride)
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5.1.4.3 Angiotensin Converting Enzyme (ACE) Inhibitors

<i>CAPTOPRIL</i>	Oral: 25 mg and 50 mg tablet
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<i>ENALAPRIL</i>	Oral: 5 mg, 10 mg and 20 mg tablet (as maleate)
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5.1.5 Anti-Arrhythmic Agents

Ventricular

<i>AMIODARONE</i> (2)	Oral: 200 mg tablet (as hydrochloride) Inj.: 50 mg/mL, 3 mL ampul (IV) (as hydrochloride)
<i>LIDOCAINE</i> (1, 2)	Inj.: 20 mg/mL, 5 mL ampul/vial (IM, IV) (as hydrochloride) 100 mg/mL, 5 mL ampul (IV infusion) (as hydrochloride) 1 g/250 mL D5W (pre-mixed) (IV) (as hydrochloride)
<i>magnesium sulfate</i> (1, 2)	Inj.: 250 mg/mL, 2 mL and 10 mL ampul (IV) (as heptahydrate) 250 mg/mL, 20 mL and 50 mL vial (IV) (as heptahydrate) 500 mg/mL, 2 mL and 10 mL ampul (IV) (as heptahydrate)

Supraventricular

<i>AMIODARONE</i> (2)	Oral: 200 mg tablet (as hydrochloride) Inj.: 50 mg/mL, 3 mL ampul (IV) (as hydrochloride) (2)
<i>ATENOLOL</i> (B) (cardioselective/no ISA)	Oral: 50 mg and 100 mg tablet
<i>METOPROLOL</i> (B) (cardioselective/no ISA)	Oral: 50 mg and 100 mg tablet (as tartrate) 100 mg tablet (as succinate)
<i>PROPRANOLOL</i> (B) (non-cardioselective/no ISA)	Oral: 10 mg, 20mg, 40 mg and 80 mg tablet (as hydrochloride) 40 mg and 80 mg CR capsule (as hydrochloride) (for maintenance therapy)
<i>DIGOXIN</i> (2)	Oral: 250 mcg tablet 50 mg/mL elixir, 60 mL Inj.: 250 mcg/mL, 2 mL ampul (IM, IV)
<i>adenosine</i> (1, 2)	Inj.: 3 mg/mL, 2 mL vial (IV) (For SVT)
<i>diltiazem</i> (B)	Oral: 30 mg and 60 mg tablet (as hydrochloride)

60 mg, 90 mg, 120 mg, 180 mg,
200 mg and 240 mg SR capsule
(as hydrochloride)
(for maintenance therapy)
90 mg, 120 mg and 180 mg SR tablet
(as hydrochloride)
(for maintenance therapy)

esmolol (1, 2, B)

Inj.: 10 mg/mL, 10 mL vial (IV)
(as hydrochloride)

verapamil (B)

Oral: 40 mg and 80 mg tablet
(as hydrochloride)
120 mg and 240 mg CR capsule
(as hydrochloride)
(for maintenance therapy)
180 mg and 240 mg SR tablet
(as hydrochloride)
(for maintenance therapy)
Inj.: 2.5 mg/mL, 2 mL ampul (IV)
(as hydrochloride) (1, 2)

5.1.6 ANTI-CONGESTIVE HEART FAILURE

5.1.6.1 Anti-Aldosterone / Renin Angiotensin (RAA) Modulator

SPIRONOLACTONE

Oral: 25 mg, 50 mg and 100 mg tablet

5.1.6.2 Diuretics

FUROSEMIDE

Oral: 20 mg, 40 mg and 80 mg tablet
Inj.: 10 mg/mL, 2 mL ampul (IM, IV)
10 mg/mL, 25 mL ampul (IV Infusion)

bumetanide

Oral: 1 mg tablet
Inj.: 500 mcg/mL, 4 mL ampul (IM, IV)

5.1.6.3 Digitalis

DIGOXIN (2)

Oral: 250 mcg tablet
50 mcg/mL elixir, 60 mL
Inj.: 250 mcg/mL, 2 mL ampul (IM, IV)

5.1.6.4 Angiotensin Converting Enzyme (ACE) Inhibitor

CAPTOPRIL

Oral: 25 mg and 50 mg tablet

ENALAPRIL

Oral: 5 mg, 10 mg and 20-mg tablet
(as maleate)

5.1.6.5 Combined Alpha And Beta Blocker*CARVEDILOL*Oral: 6.25 mg tablet
25 mg tablet**5.1.6.6 Beta Blockers***METOPROLOL* (B)
(cardioselective/no ISA)Oral: 10 mg, 50 mg and 100 mg tablet
(as tartrate)
100 mg tablet (as succinate)*bisoprolol*Oral: 2.5 mg and 5 mg tablet
(as fumarate)**5.2 ANTI-HYPERTENSIVES****5.2.1 Diuretics**★ *HYDROCHLOROTHIAZIDE*

Oral: 25 mg and 50 mg tablet

*indapamide*Oral: 1.5 mg SR tablet
2.5 mg tablet**5.2.2 ANTI-ADRENERGICS****5.2.2.1 Adrenoceptor Blockers****5.2.2.1.1 Alpha Adrenoceptor Blockers***prazosin*

Oral: 1 mg tablet (as hydrochloride)

*terazosin*Oral: 1 mg, 2 mg and 5 mg tablet
(as hydrochloride)**5.2.2.1.2 Beta Adrenoceptor Blockers***ATENOLOL* (B)
(cardioselective/no ISA)

Oral: 50 mg and 100 mg tablet

METOPROLOL (B)
(cardioselective/no ISA)Oral: 50 mg and 100 mg tablet
(as tartrate)
100 mg tablet (as succinate)*PROPRANOLOL* (B)
(non-cardioselective/no ISA)Oral: 10 mg, 20 mg, 40 mg and 80 mg
tablet (as hydrochloride)
40 mg and 80 mg CR capsule
(as hydrochloride)

5.2.2.2 Adrenergic Neuron Blocker*reserpine*

Oral: 125 mcg tablet

5.2.2.3 Centrally Acting Anti-Hypertensives (Alpha-2 Agonist)*clonidine*Oral: 75 mcg and 150 mcg tablet
(as hydrochloride)Inj.: 150 mcg/mL, 1 mL ampul (IV)
(as hydrochloride)*methyldopa*

Oral: 125 mg and 250 mg tablet

5.2.3 Direct Vasodilators*GLYCERYL TRINITRATE* (1)
(*nitroglycerin*)Inj.: 1 mg/mL, 5 mL, 10 mL and 25 mL
ampul (IV)
50 mL vial (IV Infusion)
(especially with unstable angina)*HYDRALAZINE*Oral: 10 mg, 25 mg and 50 mg tablet
(as hydrochloride)Inj.: 20 mg/mL, 1 mL ampul (IM, IV)
(as hydrochloride)★ *SODIUM NITROPRUSSIDE* (1, 2)

Inj.: 50 mg powder ampul (IV Infusion)

5.2.4 Calcium Channel Blockers*NIFEDIPINE* (B)

Oral: 20 mg and 30 mg SR tablet

*amlodipine*Oral: 5 mg, 10 mg and 20 mg tablet
(as besylate)*felodipine* (B)

Oral: 2.5 mg, 5 mg and 10 mg ER tablet

*nicardipine*Oral: 10 mg and 20 mg tablet
(as hydrochloride)
40 mg SR capsule (as hydrochloride)▼ Inj.: 1 mg/mL, 2 mL and 10 mL ampul (IV)
(as hydrochloride) (1)*nifedipine* (B)Oral: 5 mg and 10 mg capsule
(restricted use for acute
hypertensive emergencies in
patients less than 18 years
old with extreme caution due
to rapid and prolonged fall in
blood pressure)

nimodipine

▼ Oral: 30 mg tablet
 Inj.: 200 mcg/mL, 50 mL vial (IV Infusion)
 10 mg solution, 50 mL vial
 for IV Infusion (1, 2)

5.2.5 Angiotensin Converting Enzyme (ACE) Inhibitors*CAPTOPRIL*

Oral: 25 mg and 50 mg tablet

*ENALAPRIL*Oral: 5 mg, 10 mg and 20 mg tablet
(as maleate)**5.2.6 Angiotensin 2 Receptor Blockers (ARB)***irbesartan*

Oral: 75 mg, 150 mg and 300 mg tablet

*losartan*Oral: 50 mg and 100 mg tablet
(as potassium salt)**Fixed-Dose Combinations***enalapril + hydrochlorothiazide*Oral: 20 mg enalapril + 12.5 mg
hydrochlorothiazide tablet*irbesartan + hydrochlorothiazide*Oral: 150 mg irbesartan + 12.5 mg
hydrochlorothiazide tablet
300 mg irbesartan + 12.5 mg
hydrochlorothiazide tablet*losartan + hydrochlorothiazide*Oral: 50 mg losartan + 12.5 mg
hydrochlorothiazide tablet
100 mg losartan + 25 mg
hydrochlorothiazide tablet**5.3 DRUGS FOR BLOOD LIPID DISORDERS****Mixed Dyslipidemia***PRAVASTATIN* (1)Oral: 10 mg and 20 mg tablet
(as sodium salt)*SIMVASTATIN* (1)

Oral: 10 mg, 20 mg and 40 mg tablet

Hypertriglyceridemia*fenofibrate* (1)

Oral: 67 mg, 100 mg and 200 mg capsule

gemfibrozil (1, B)

Oral: 300 mg, 600 mg and 900 mg capsule

5.4 DRUGS USED IN SHOCK**5.4.1 Anaphylactic Shock**

CORTICOSTEROIDS (parenteral)
(See 8.3)

EPINEPHRINE (1, 2)
(adrenaline)

Inj.: 1 mg/mL, 1 mL ampul (IM, SC)
(as hydrochloride)

H1 RECEPTOR ANTAGONISTS
(ANTIHISTAMINES)
(parenteral) (See 8.1)

H2 RECEPTOR ANTAGONISTS
(See 8.2)

5.4.2 Cardiogenic / Vascular Shock

DOBUTAMINE (1, 2)

Inj.: 12.5 mg/mL, 20 mL vial (IV)
(as hydrochloride)
50 mg/mL, 5 mL ampul (concentrate)
(IV Infusion) (as hydrochloride)
250 mg vial (IV) (as hydrochloride)
250 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
500 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
1000 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)

DOPAMINE (1, 2)

Inj.: 20 mg/mL, 5 mL and 10 mL ampul
(IV) (as hydrochloride)
40 mg/mL, 5 mL vial/ampul
(IV) (as hydrochloride)
80 mg/mL, 5 mL vial
(IV) (as hydrochloride)
200 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
400 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)
800 mg/250 mL D5W (pre-mixed)
(IV) (as hydrochloride)

EPINEPHRINE (1, 2)
(adrenaline)

Inj.: 1 mg/mL, 1 mL ampul (IM, SC)
(as hydrochloride)

NOREPINEPHRINE (1, 2)

Inj.: 1 mg/mL, 2 mL ampul (IV Infusion)
(as bitartrate)

5.4.3 Hemorrhagic / Hypovolemic Shock

*BLOOD PRODUCTS AND
BLOOD SUBSTITUTES*
(See 11.0)

IV FLUIDS
(also used in other forms of shock)
(See 16.0)

PLASMA EXPANDERS
(See 11.1)

5.4.4 Septic Shock

ANTIMICROBIALS
(See 3.0)

5.5 CHRONOTROPIC AGENTS

ATROPINE (1, 2)

Inj.: 1 mg/mL, 1 mL ampul (IM, IV, SC)
(as sulfate)

5.6 DRUGS FOR PERIPHERAL ARTERY OCCLUSIVE DISEASE

ASPIRIN

Oral: 80 mg tablet

▼ *CLOPIDOGREL*

Oral: 75 mg tablet

HEPARIN

*LOW MOLECULAR WEIGHT
HEPARIN*

▼ *ENOXAPARIN* (1, 2)

Inj.: 20 mg/0.2 mL, 40 mg/0.4 mL,
60 mg/0.6 mL and 80 mg/0.8 mL
pre-filled syringe (SC)
(as sodium)
100 mg/mL, 1 mL vial (SC)
(as sodium)

*UNFRACTIONATED
HEPARIN* (1, 2)

Inj.: 1,000 IU/mL; 5,000 IU/mL, 5 mL vial
(IV, IV Infusion, SC)
(as sodium salt)

WARFARIN (1, 2)

Oral: 1 mg, 2.5 mg and 5 mg tablet

5.7 DRUGS FOR VENOUS THROMBOSIS/THROMBOEMBOLISM (ANTICOAGULANT)*HEPARIN**LOW MOLECULAR WEIGHT
HEPARIN*▼ *ENOXAPARIN* (1, 2)

Inj.: 20 mg/0.2 mL, 40 mg/0.4 mL,
60 mg/0.6 mL and 80 mg/0.8 mL
pre-filled syringe (SC)
(as sodium)
100 mg/mL, 1 mL vial (SC)
(as sodium)

*UNFRACTIONATED
HEPARIN* (1, 2)

Inj.: 1,000 IU/mL; 5,000 IU/mL, 5 mL vial
(IV, IV Infusion, SC)
(as sodium salt)

WARFARIN (1, 2)

Oral: 1 mg, 2.5 mg and 5 mg tablet