**Antianginal and vasodilation drugs**
The nitrates act by relaxing smooth muscle layer of the blood vessels
This increases the amount of blood flowing through the vessels

**Calcium channel blockers:**
Slowing the conduction of the cardiac impulse
Depressing myocardial contractility
Dilating coronary arteries

**Uses**
Relieve pain of acute angina attacks
Prevent angina attacks
Treat chronic or stable angina pectoris

**Adverse reactions**
Hypotension, severe or persistant headache

**Contraindications**
Severe anemia, closed angle glaucoma, postural hypotension, early MI(sub lingual), head trauma, cerebral hemorrhage

**Interactions**
**Asprin:** increase nitrate plasma concentration
**Calcium channel blockers:** increased orthostatic hypotension
**Benadryl:** increased risk HTN decrease effect of antiangial drug
**Heparin:** decreased effect of heparin
**Phosphodiesterase:** severe hypotension collapse may occur
*: severe hypotension and cardiovascular collapse may occur

**NURSING ALERT**
Sublingual nitroglycerin may be repeated every 5 minutes until pain is relieved up to 3x.
One -two sprays of translingual nitroglycerine may be used no more than 3 metered doses./15min
If the pain is not relived or worsens call the care provider immediately

Nitroglycérine ointment dosage is usually 2 1/2- 3 1/2 inches. Do not rub into the patients skin because it delivers a large dose. Check vitals frequently, if bp is applicable lower or the pulse is higher than baseline contact the primary care provider before administering ( hold the dose)
**NITRATES**

Isosorbide: isordil  
**Uses:** treatment and prevention of angina  
**Adverse reactions:** hypotension restlessness, rash (sublingual, chewable, oral)

Nitroglycerine: (parentéral form)  
**Uses:** angina, heart failure, perioperative hypertension, induce intraoperative hypotension  
**Adverse reactions:** hypotension

Nitroglycérine: (oral) nitrostat  
**Uses:** acute relief of heart attack, prophylaxis of angina  
**Adverse reactions:** hypotension

Nitroglycérine ointment:  
**Uses:** prevent and treat angina  
**Adverse reactions:** severe hypotension, use caution when rubbing on the pt and wear gloves

Nitroglycerine transdermal: intranet  
**Uses:** prevention and treatment of angina

**Calcium channel blockers (know antihypertensive list)**

Ranolazine: ranexa  
**Uses:** chronic angina  
**Adverse reactions:** constipation

**Peripheral vasodilator**

Hydralazine:  
**Uses:** primary hypertension (oral) lower bp (parentéral)  
**Adverse reactions:** palpitations, tachycardia, numbness and tingling in the legs

Minoxidil:  
**Uses:** severe hypertension  
**Adverse reactions:** hypotension, tachycardia, h2o and sodium retention, gynomastia, hair growth

Nitroprusside: nitropress  
**Uses:** hypertensive crisis  
**Adverse reactions:** palpitations, appréhension, sweating