

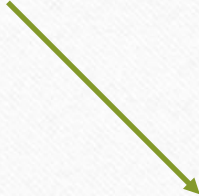
ANGINA PECTORIS

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PRACTICE OF MEDICINE

ISCHEMIC HEART DISEASE/ CORONARY ARTERY DISEASE.



- 1. ANGINA PECTORIS**
- 2. MYOCARDIAL INFARCTION**
- 3. SUDDEN CARDIAC DEATH**
- 4. CHRONIC ISCHEMIC HEART DISEASE.**

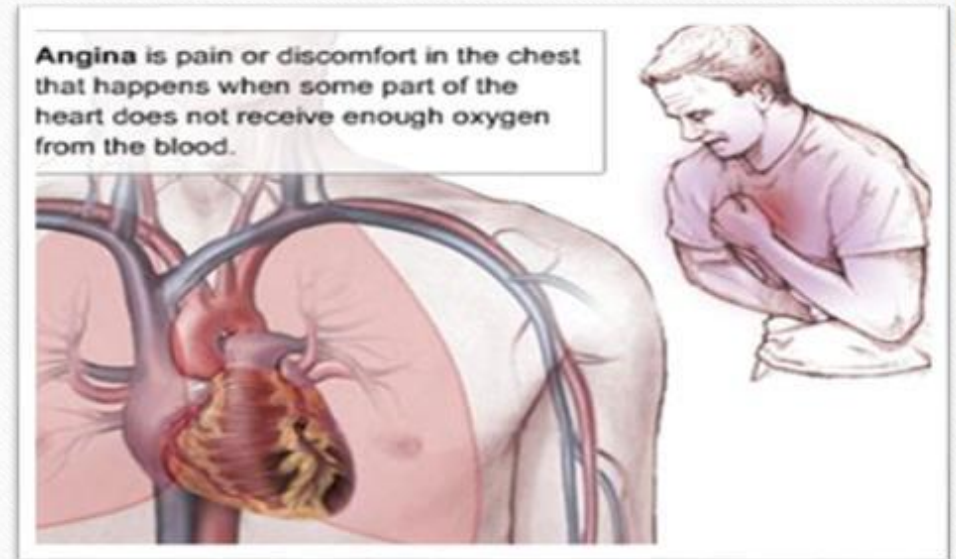


**A GROUP OF RELATED SYNDROMES
DUE TO IMBALANCE BETWEEN
MYOCARDIAL O₂ DEMAND AND
SUPPLY FROM CORONARY ARTERY.**

DEFINITION.

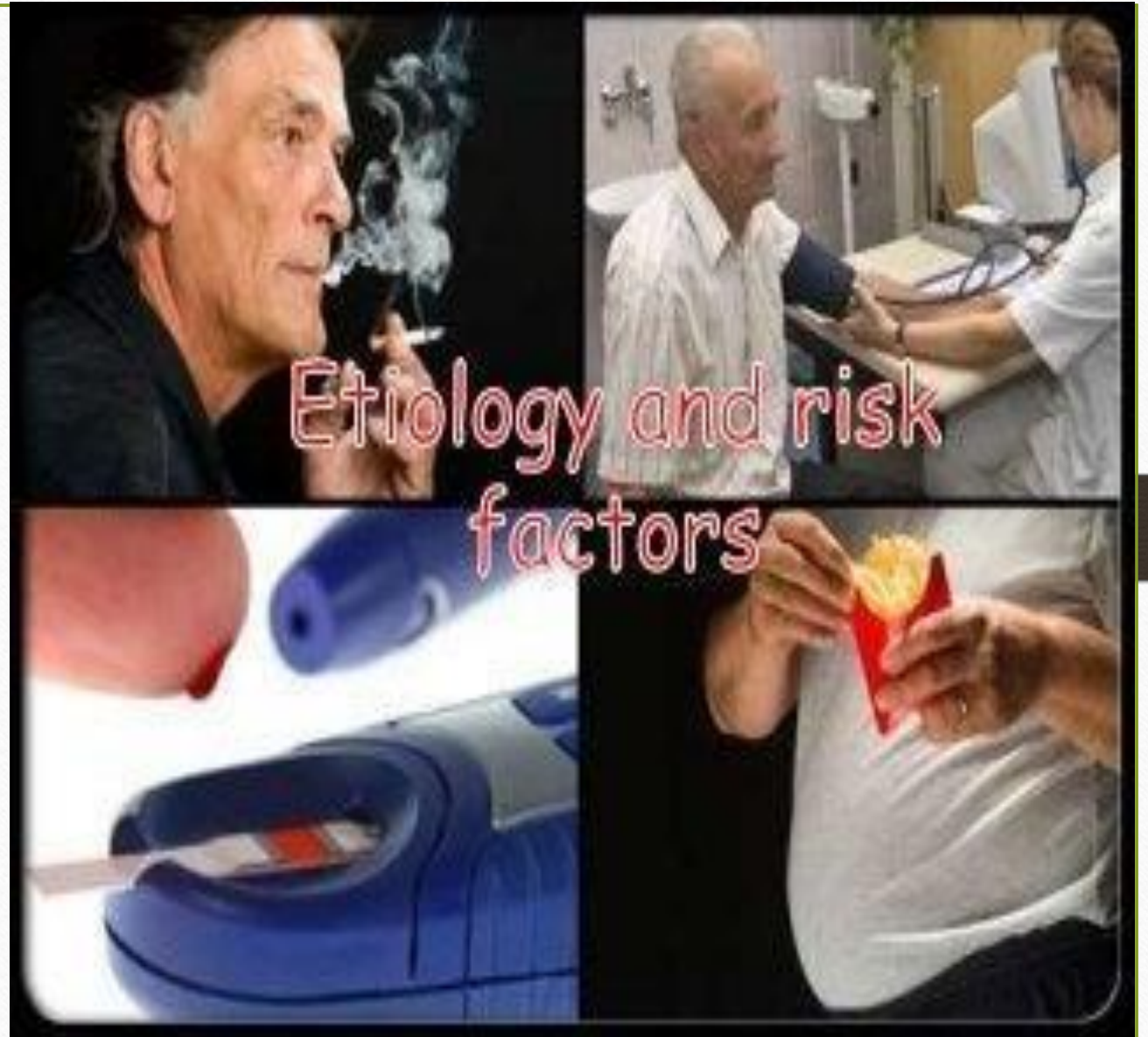
LATIN:STRANGLING OF CHEST

ANGINA PECTORIS IS THE SYMPTOM COMPLEX CAUSED BY TRANSIENT MYOCARDIAL ISCHEMIA AND CONSTITUTES THE CLINICAL SYNDROME RATHER THAN A DISEASE.



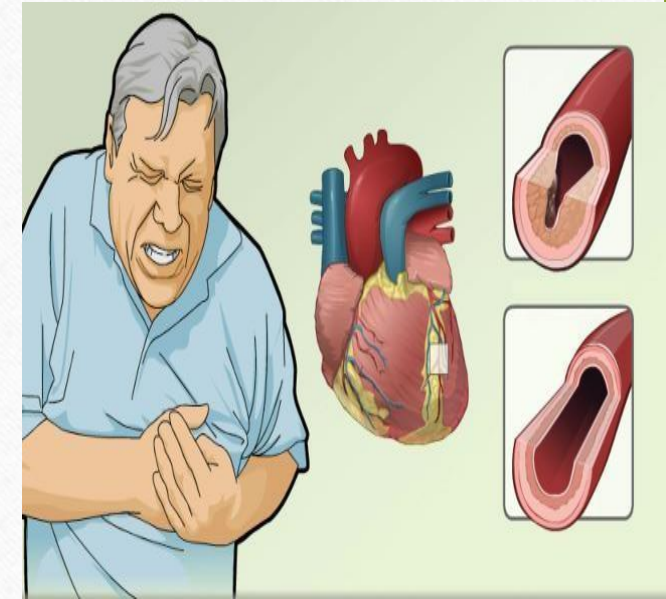
RISK FACTORS.

1. SMOKING
2. TOBACCO USE
3. HIGH BLOOD CHOLESTEROL OR TRIGLYCERIDES LEVEL
4. LACK OF EXERCISE
5. OBESITY
6. HIGH BLOOD PRESSURE
7. STRESS
8. DIABETES
9. FAMILY HISTORY
10. OLDER AGE

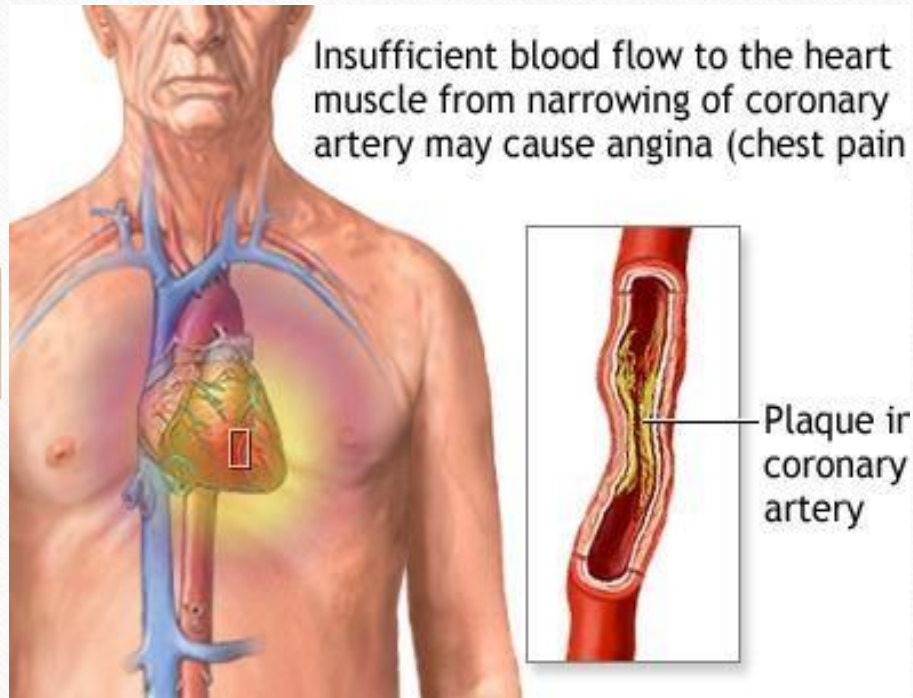


ETIOLOGY.

- 1. CARDIAC ATHEROMA IS THE MAJOR CAUSE OF ANGINA PECTORIS [ATHEROSCLEROSIS].**
- 2. THROMBUS IS DANGEROUS AS IT CAN OBSTRUCT BLOOD FLOW TO MAJOR ORGANS. IF THROMBUS NARROWS 1 OF MORE ARTERY OF HEART MUSCLE PAIN OCCURS.**
- 3. CAN ALSO BE CAUSED BY ANEMIA WHERE THE FLOW IS INADEQUATE AND THE BLOOD DOESN'T HAVE ENOUGH RBC TO CARRY O₂.**
- 4. EMBOLIC EVENTS CAN RESTRICT O₂ SUPPLY TO MYOCARDIUM.**



PATHOPHYSIOLOGY.



DUE TO THE CAUSE



O2 DEMAND INCREASE IN BLOOD



HEART NEEDS MORE BLOOD SUPPLY



CORONARY ARTERY DILATE AND SUPPLY MORE BLOOD TO HEART



HEART NEED MORE BLOOD



O2 DECREASES IN HEART AND DEVELOP ISCHEMIA

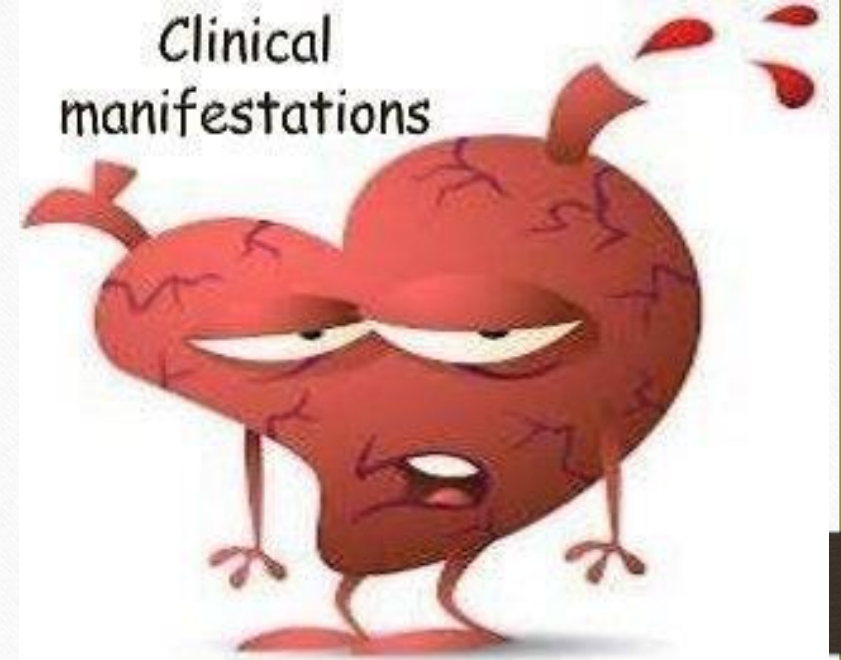


STARTS ANGINA [PAIN] IN PECTORIS [CHEST MUSCLE].

CARDIOVASCULAR

1. HISTORY IS BY FAR THE MOST IMPORTANT FACTOR IN MAKING DIAGNOSIS
2. SQUEEZING PAIN OR HEAVINESS IN CHEST, NECK, JAW, ARMS, SHOULDER AND BACK THAT OCCURS SUDDENLY
3. DECREASE PULSE RATE
4. BP INCREASES BECAUSE OF SYMPATHETIC STIMULATION AND MIGHT DECREASE BECAUSE OF DECREASE CONTRACTILITY IF CARDIogenic SHOCK DEVELOPS
5. DIAPHORESIS
6. DYSRHYTHMIA

Clinical manifestations



RESPIRATORY.

- 1. CHEST HEAVINESS**
- 2. SHORTNESS OF BREATH**
- 3. PULMONARY OEDEMA**

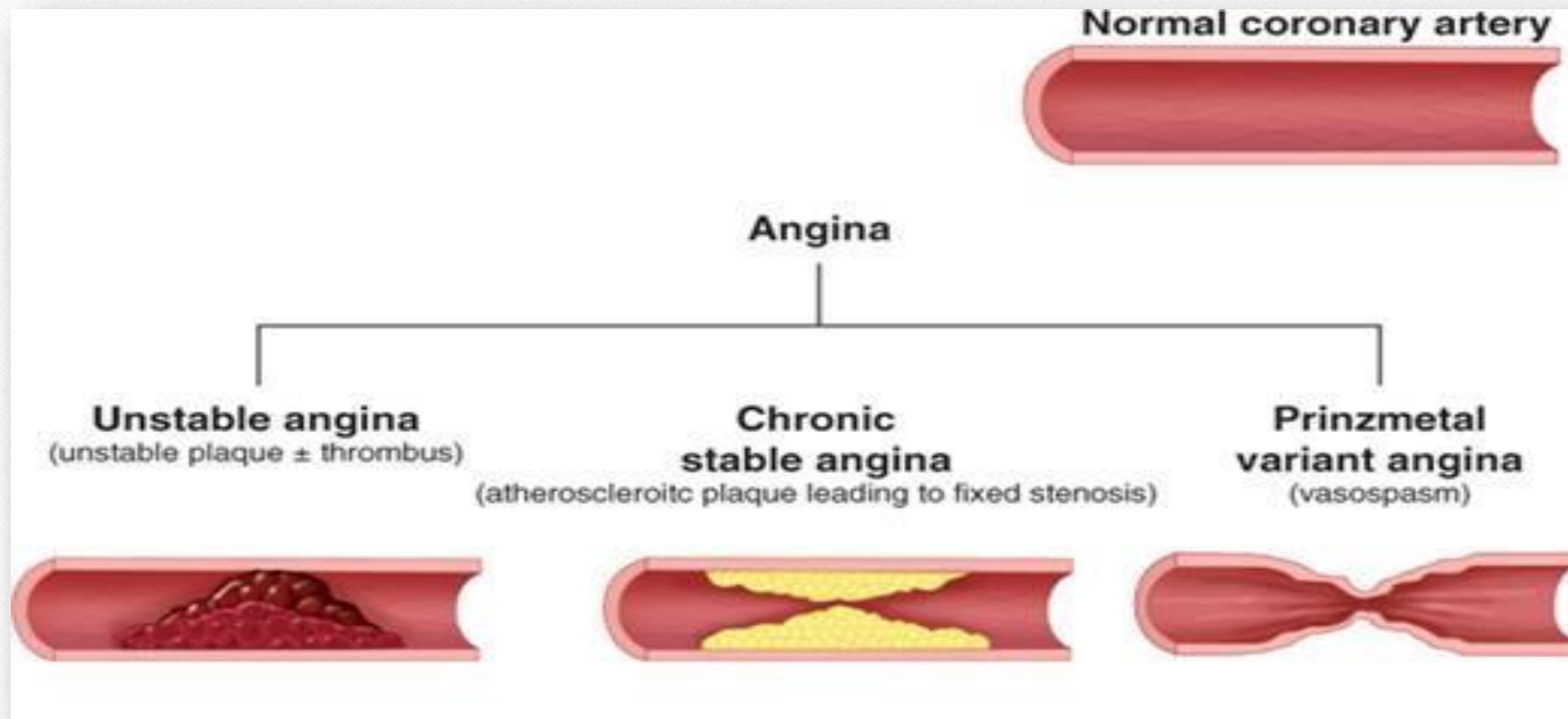
SKIN.

- 1. COOL AND CLAMMY SKIN**
- 2. DIAPHORETIC**
- 3. PALE**

GENITOURINARY.

**DECREASE URINARY OUTPUT MAY INDICATE
CARDIOGENIC SHOCK**

TYPES OF ANGINA PECTORIS.



STABLE ANGINA.

- PREDICTABLE**
- FAMILIAR PAIN PATTERN**
- INJURY TO MYOCYTES IS REVERSIBLE**
- PROMPTED BY: PHYSICAL EXERTION , EMOTIONAL STRESS ,
HEAVY MEAL , LOW TEMPERATURE**
- CENTRAL CHEST PAIN , SWEATING , DISCOMFORT ,
BREATHLESSNESS**
- SUBSIDE WITH REST**
- RESPONSE WELL TO MEDICATION [NITROGLYCERIN RELIEF]**
- ST SEGMENT DEPRESSION**

UNSTABLE ANGINA

- UNPREDICTABLE , OCCURS EVEN AT REST**
- CHANGED PAIN PATTERN**
- INJURY IS REVERSIBLE IF TREATED ON TIME**
- MORE SEVERE , LASTS LONGER , OCCURS EVEN AT REST**
- RESPOND LESS TO MEDICATION**
- ST SEGMENT DEPRESSION**
- IS AN MEDICAL EMERGENCY AND OFTEN PROCEEDS HEART ATTACK.**

PRINZMETAL ANGINA / VARIANT ANGINA

- CAUSED BY VASCULAR SPASM OF CORONARY ARTERY THAT REDUCE BLOOD FLOW**
- CAN OCCUR AT REST , USUALLY OCCURS AT NIGHT OFTEN DURING DAY**
- EMOTIONAL STRESS , SMOKINGS , DRUGS SUCH AS COCAINE ARE TRIGGERS**
- OFTEN SEVERE**
- RESPONDS WELL TO MEDICATION**

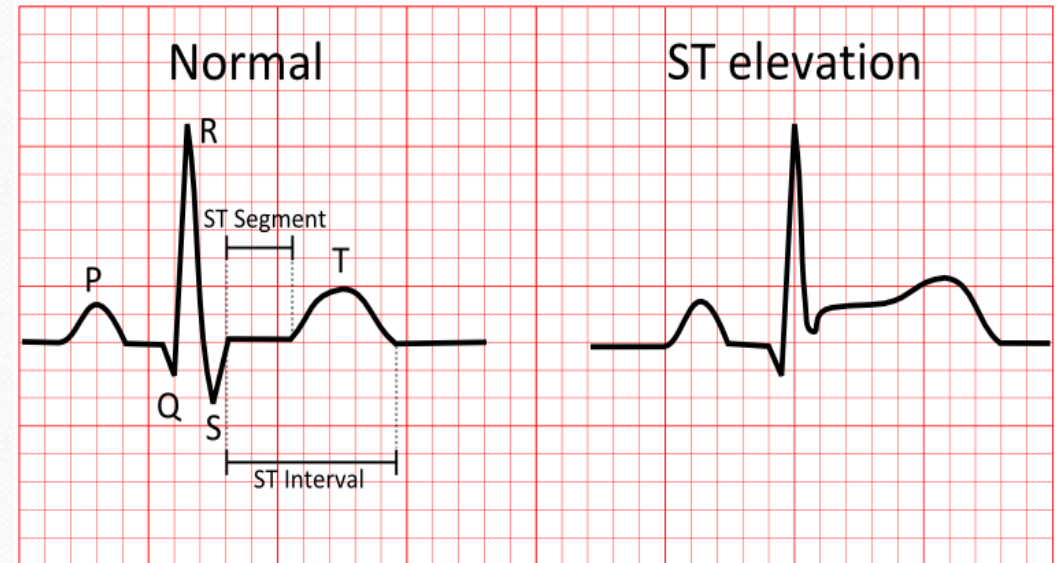
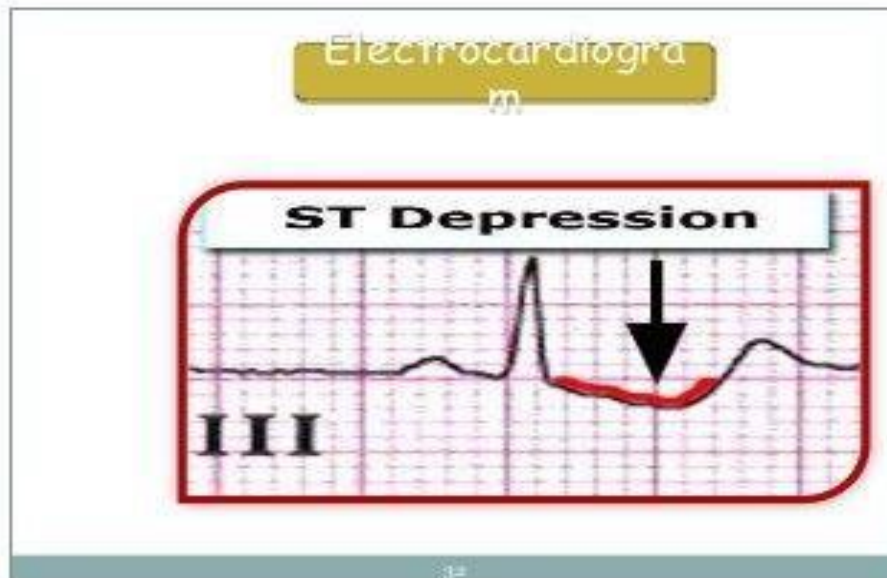
Diagnosis



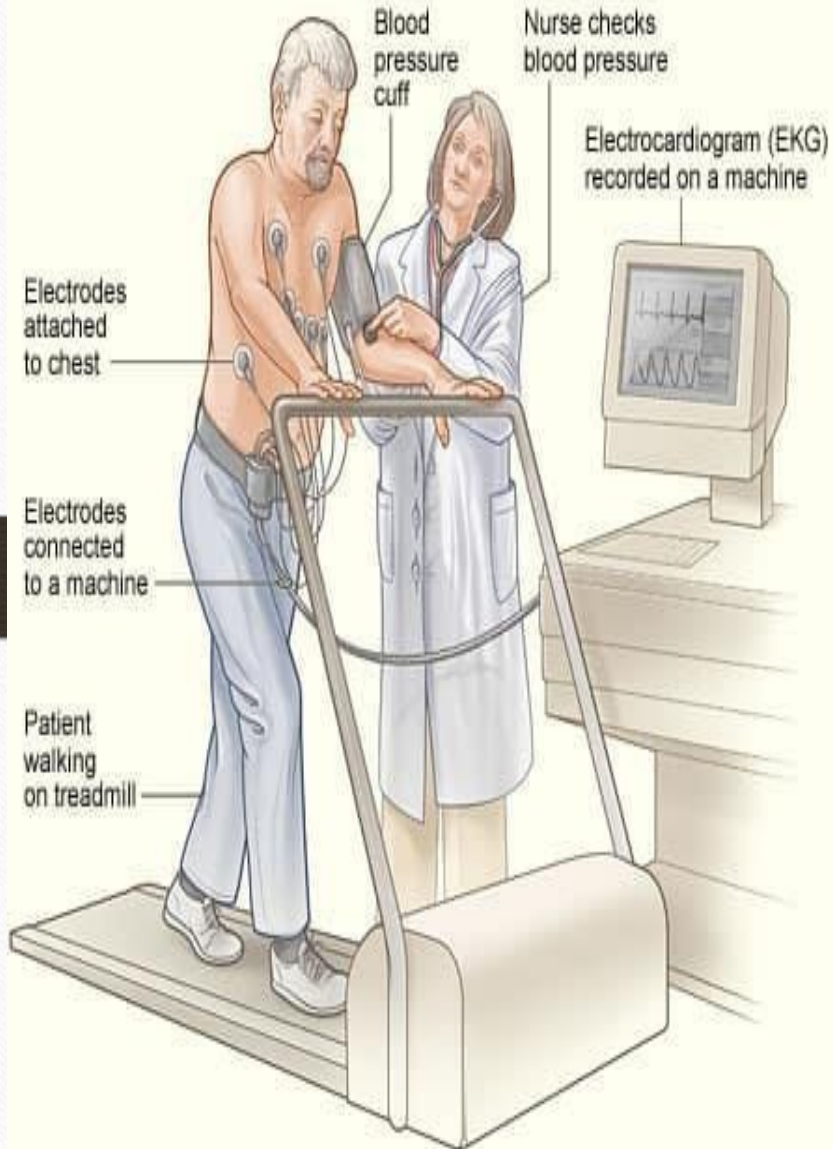
1.ELECTROCARDIOGRAM.

ECG OF PATIENT WITH OBSTURUCTIVE ANGINA SHOW ST SEGMENT DEPRESSION DURING ATTACKS.

WHILE IN VARIANT ANGINA THERE IS ST SEGMENT ELEVATION.

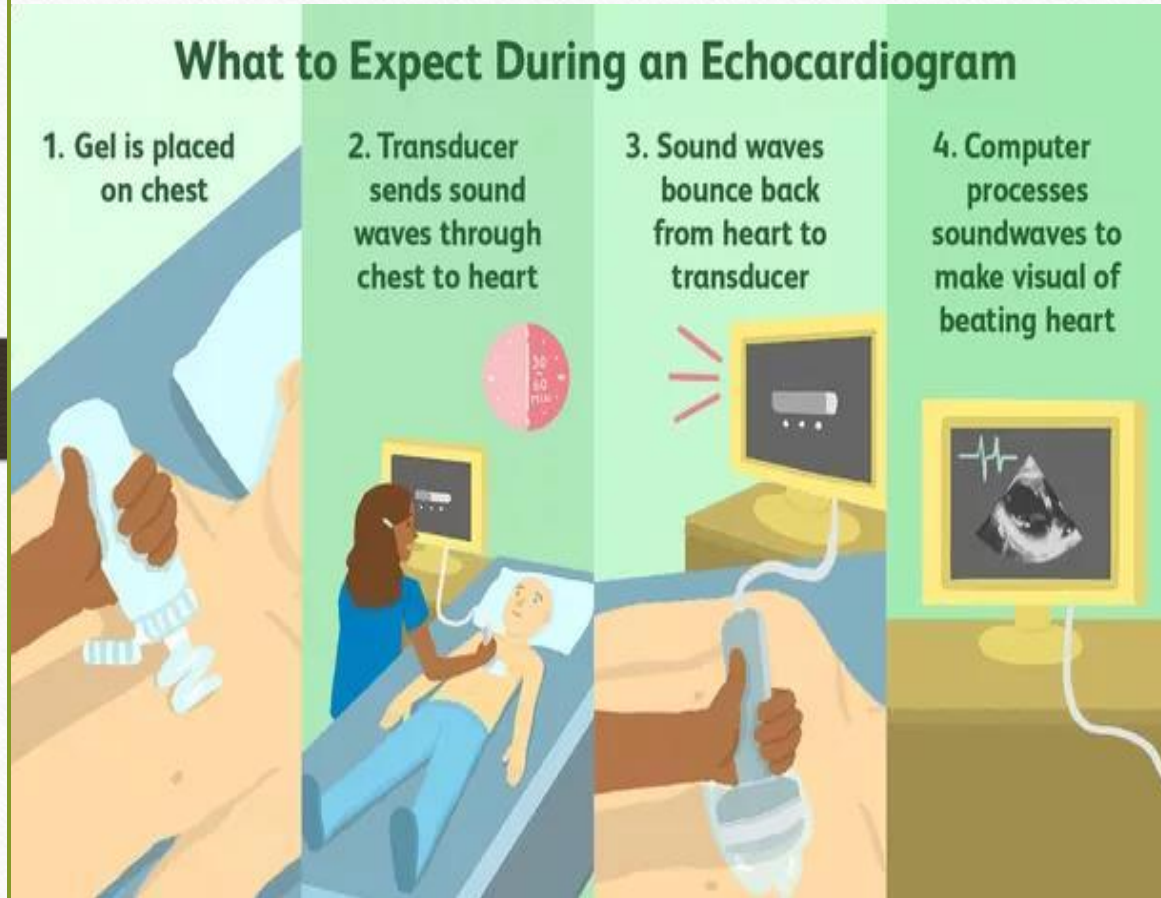


EXERCISE TOLERANCE TEST



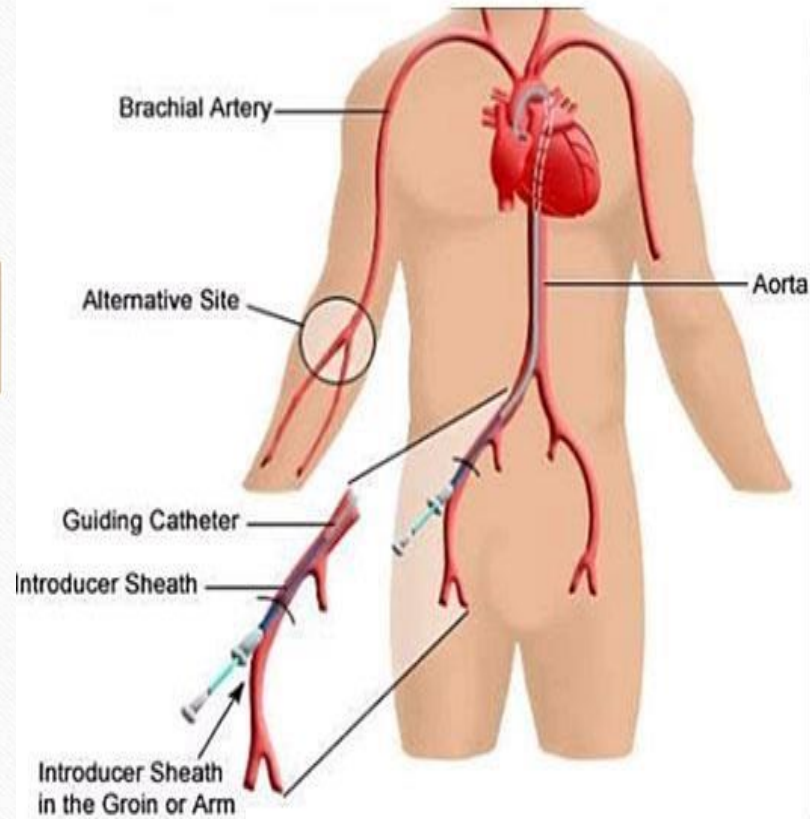
- IS PERFORMED USING STANDARD TREADMIL OR BICYCLE
- WHILE MONITORING PATIENTS ECG,BP AND GENERAL CONDITION
- PLANAR OR DOWN SLOPING ST SEGMENT DEPRESSION IS INDICATIVE OF ISCHEMIA
- UP SLOPING ST DEPRESSION IS LESS SPECIFIC AND OFTEN OCCURS IN NORMAL INDIVIDUALS.
- ALSO USEFUL IN ASSESSING SEVERITY OF CORONARY DISEASE AND IDENTIFYING HIGH RISK INDIVIDUALS.

ECHOCARDIOGRAM



- IT IS A TYPE OF ULTRASOUND SCAN USED TO LOOK AT HEART AND NEARBY BLOOD VESSELS
- IT USES TRANSTHORACIC ECHOCARDIOGRAPHY TO IDENTIFY ISCHAEMIC SEGMENTS OF MYOCARDIUM AND AREAS OF INFARCTION.
- IT PROVIDES INFORMATION ABOUT HEART SIZE, APPEARANCE OF HEART VALVE AND THICKNESS OF HEART MUSCLE

ANGIOGRAPHY.

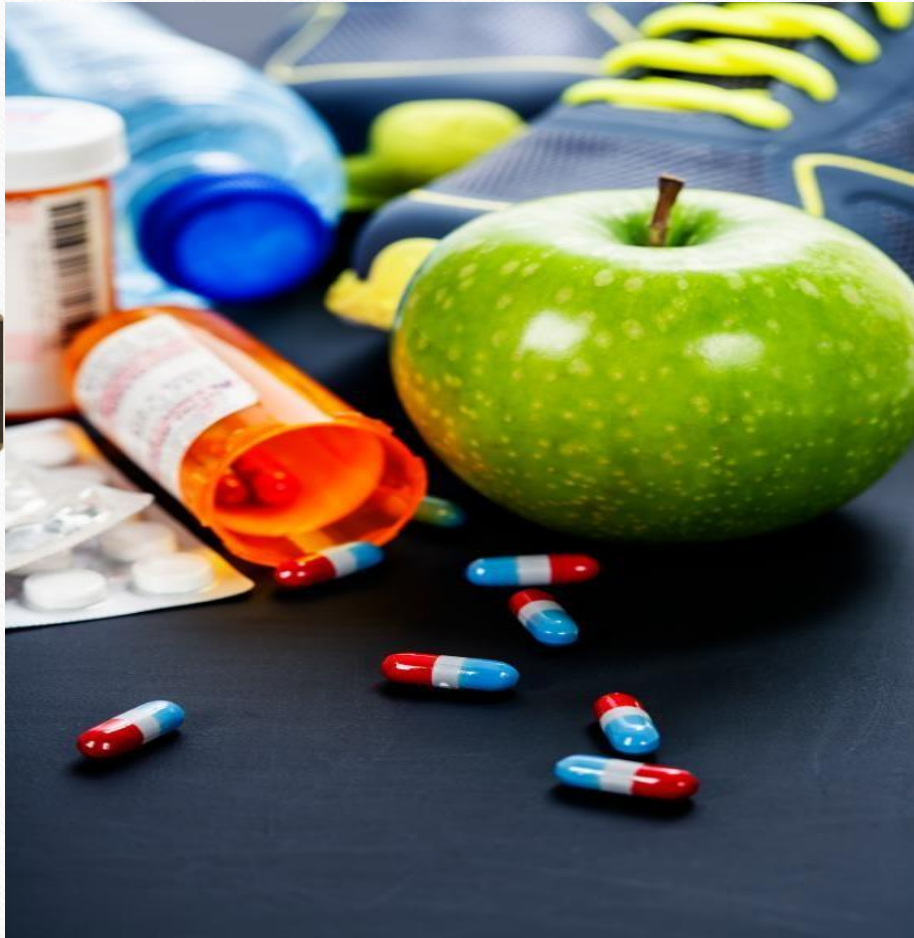


-THE PROCEDURE IS PERFORMED UNDER LOCAL ANAESTHESIA AND REQUIRE SPECIALISED RADIOLOGICAL EQUIPMENT , CARDIAC MONITORING AND AN EXPERIENCED OPERATING TEAM.

-IT IS A MEDICAL IMAGING TECHNIQUE

-IT IS A PROCEDURES THAT USES X-RAY CONTRAST TO LOOK AT THE BLOOD VESSELS TO SEE HOW BLOOD FLOWS THROUGH ARTERIES.

MANAGEMENT

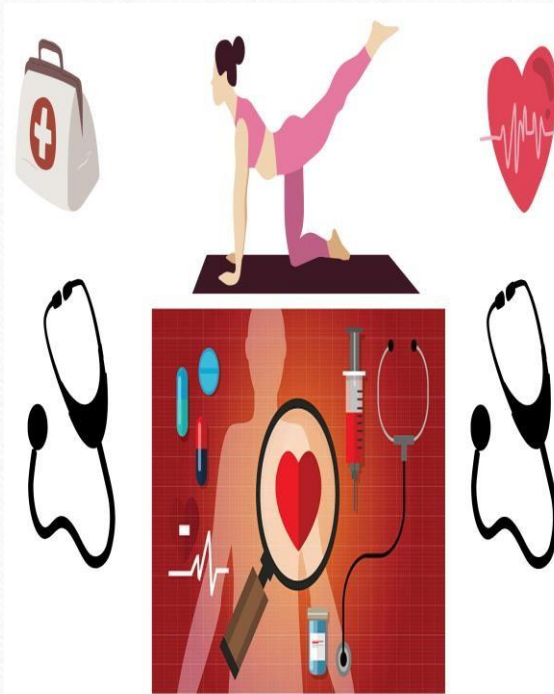


AIM:

- RELIEVE SYMPTOMS
- REDUCE FREQUENCY OF FUTURE ANGINA
- IDENTIFICATION AND CONTROL OF RISK FACTOR
- REDUCE RISK FACTOR OF HEART ATTACK

1. LIFESTYLE MODIFICATION

- STOP SMOKING AND ALCOHOL
- REGULAR EXERCISE BUT AVOID OVER-EXERTION.
- AVOID STRESS
- AVOID LARGE MEDICATIONS

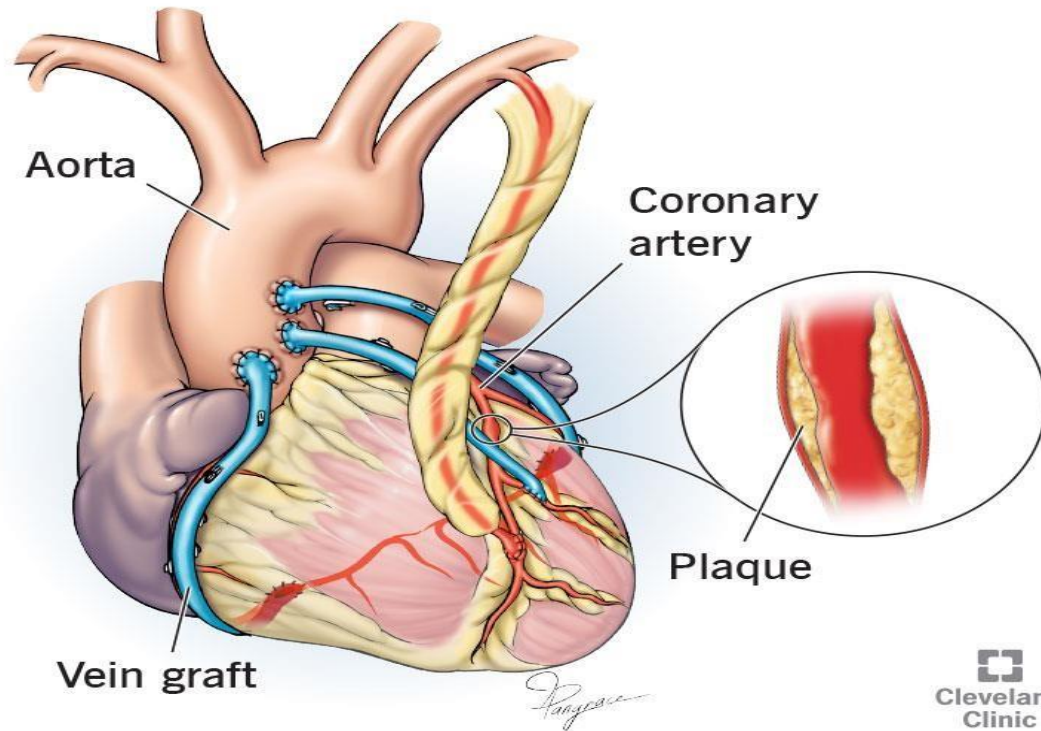


2. MEDICATIONS.

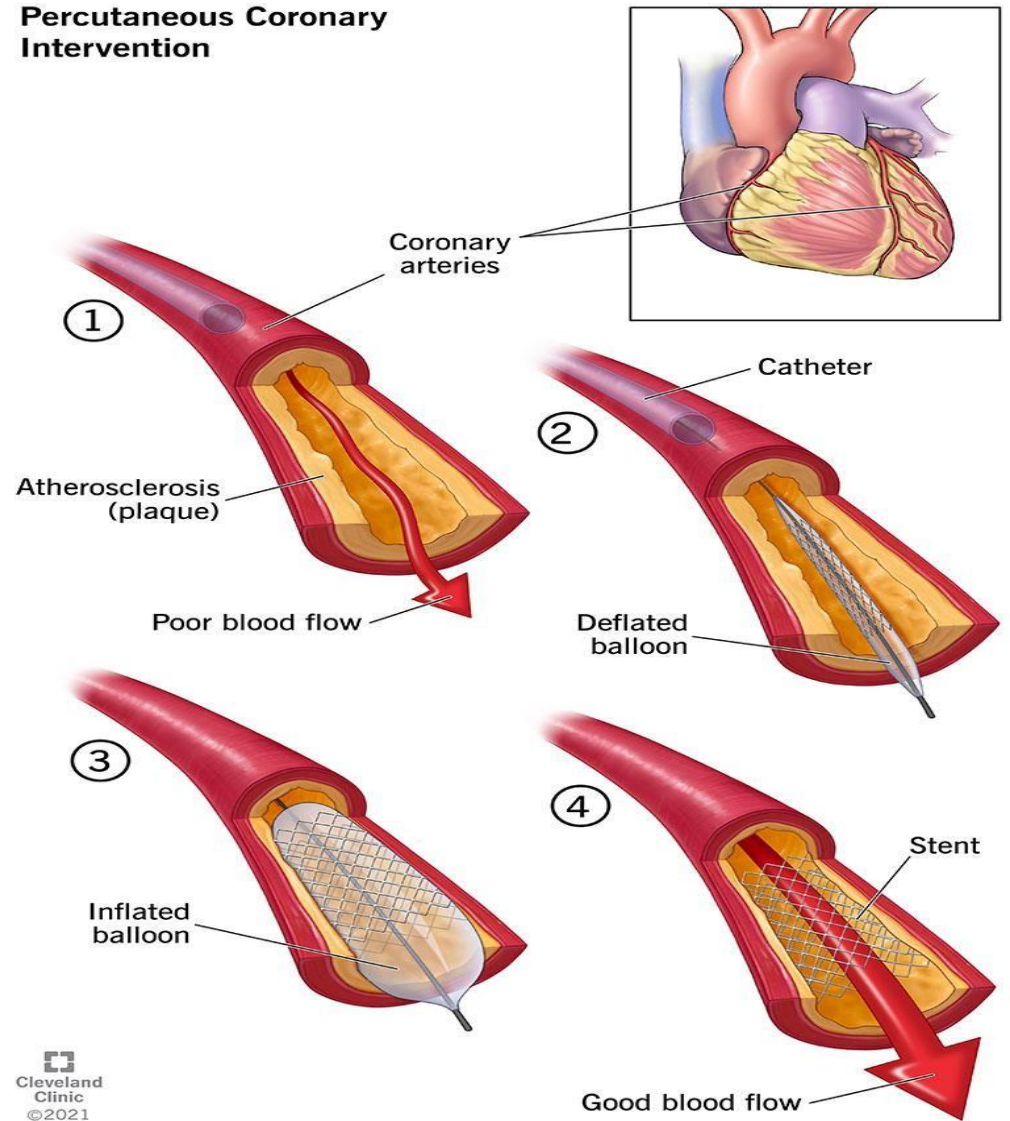
- NITROGLYCERINE [UNDER TONGUE] USED FOR ACUTE ANGINA ATTACK
- BETA BLOCKERS
- CA CHANNEL BLOCKERS PREVENT RECURRENT ANGINA
- K CHANNEL ACTIVATORS.

SURGICAL PROCEDURES.

Coronary artery bypass grafting (CABG)



Percutaneous Coronary Intervention



Homoeopathic Therapeutics.

1. CACTUS GRANDIFLORUS

- SENSATION OF CONSTRICTION IN HEART CLASPED AND UNCLASPED AN IRON BAND AND THERE IS NO ROOM TO BEAT
- PAIN ARE OF PRICKING NATURE, IMPEDING BREATHING AND MOVEMENTS OF BODY, OPPRESSION OF CHEST, DYSPNEA FROM LEAST EXERTION
- THERE MAY BE DULL HEAVY PAIN AGG BY PRESSURE
- AGG:BY WALKING,NIGHT,LYING ON LEFT SIDE
- AMEL:AFTER SLEEP,REST,OPEN AIR
- CONC. BLUENESS OF FACE,HOT HEAD AND ICY COLD COLD FEETS

2. AMYLENUM NITROSUM

- GREAT REMEDY FOR ANGINA PECTORIS
- THERE IS PRECORDIAL ANXIETY,CARDIAC OPPRESSION, STITCHING PAIN,FEELING OF CONSTRICTION IN CARDIAC REGION.
- PULSATION FELT OVER ENTIRE BODY
- INTENSE THROBBING OF CAROTIDS ALSO NOTICED
- SENSATION OF SWELLING IN FRONT OF CHEST AND BURSTING OUT FEELING IN EARS.

3. DIGITALIS

PURPUREA

- HEART C/O CAUSED BY ALCOHOL, TOBACCO OR HIGH LIVING**
- SUDDEN SENSATION AS HEART WOULD STOP BEATING OF PATIENT MOVE**
- UNEASINESS IN REGION OF HEART. IRREGULAR INTERMITTENT PULSE GENERALLY OCCURING IN CLIMETRIC AGE**
- FRIGHTFUL STITCHES IN REGION OF HEART, COMING ON EVERY 15 MIN LASTING ONLY 5 OR 6 SEC EACH (ANGINA PECTORIS).**

4. CRATAEGUS

- EXTREME DYSPNEA ON LEAST EXERTION WITHOUT MUCH RISE OF PULSE.**
- PAIN IN REGION OF HEART AND UNDER LEFT CLAVICLE. IRREGULAR, FEEBLE, INTERMITTENT PULSE.**
- THERE MAY BE EXTREME WEAKNESS, GENERAL ANASARCA, INSOMNIA, ANAEMIA, CUTANEOUS CHILLINESS WITH HEART DISEASE.**
- AGG: EXERTION, IN WARM ROOM AND EXCITEMENT**
- AMEL: REST, FRESH AIR**



Thank You