

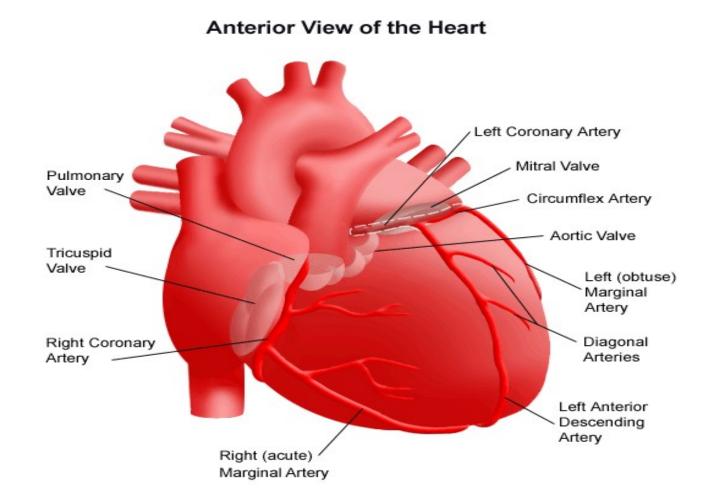
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FACULTY OF NURSING SCIENCES

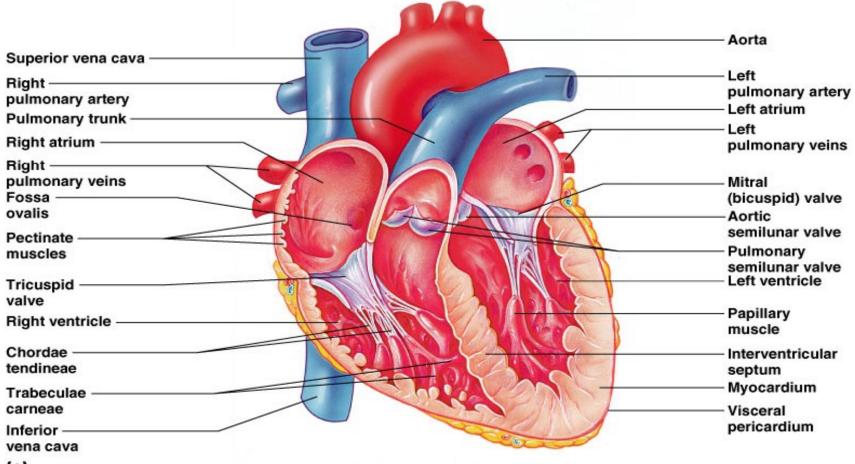
By- SUDHA BENJAMINI Associate Professor Faculty of Nursing ATRIAL FIBRILLATION, ATRIAL FLUTTER,

PAC, PVC.

INTRODUCTION

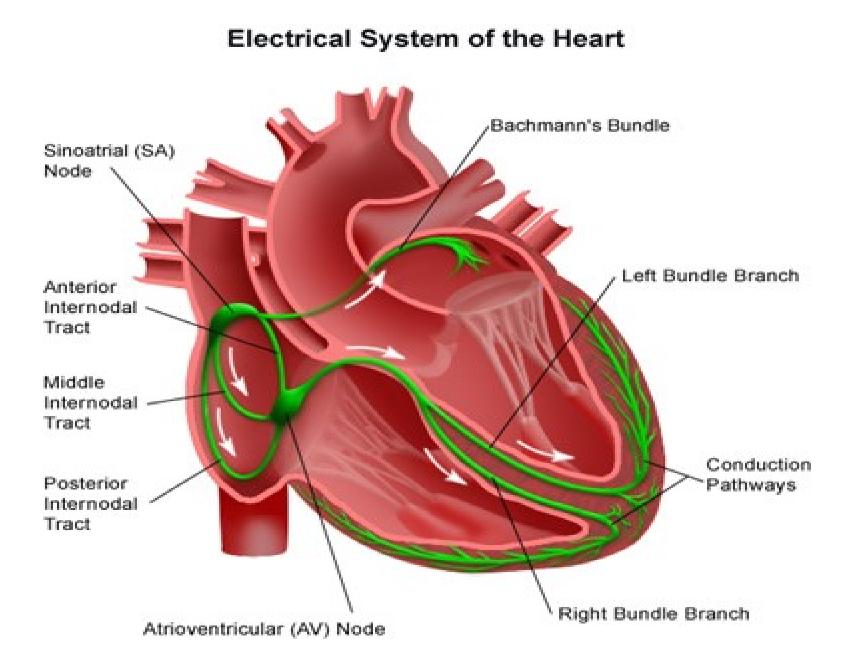


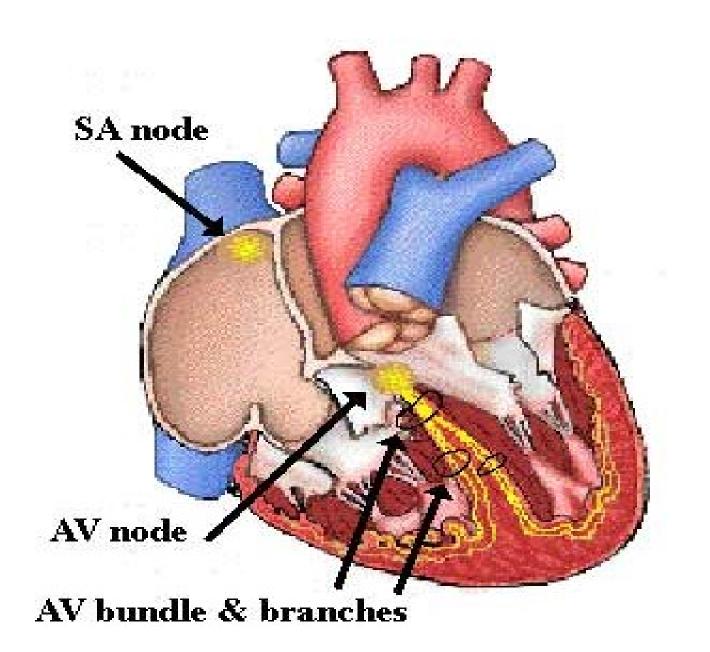
ANATOMY AND PHYSIOLOGY OF HEART

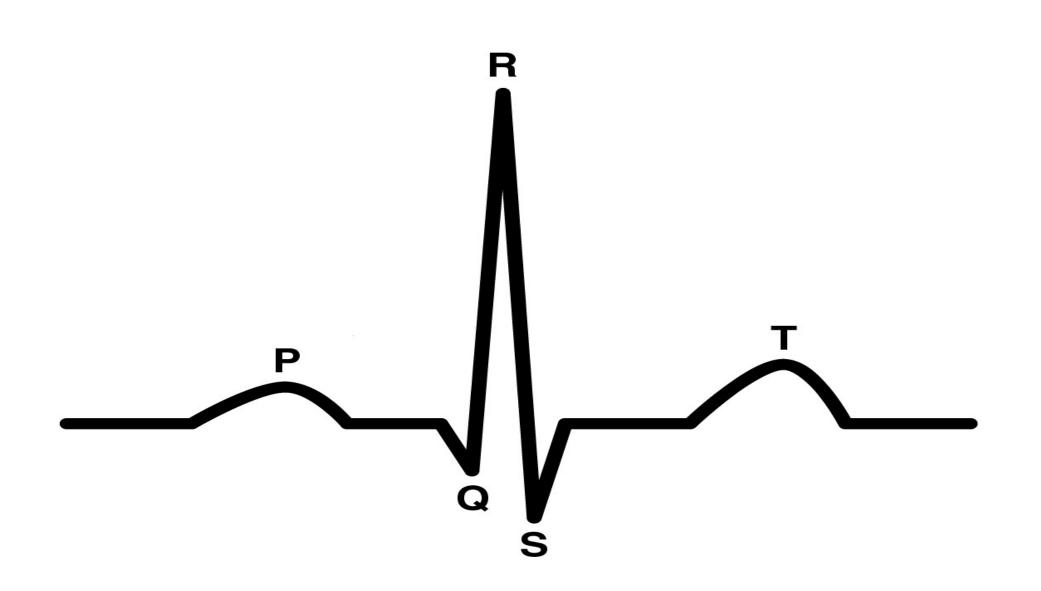


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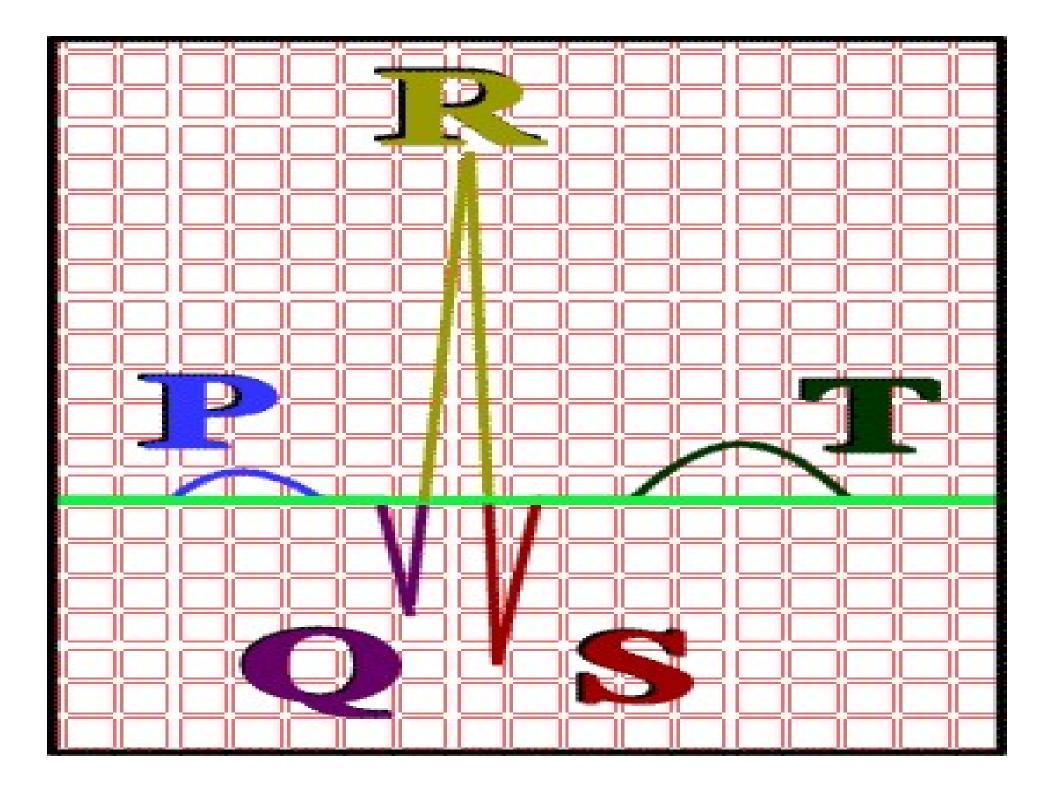
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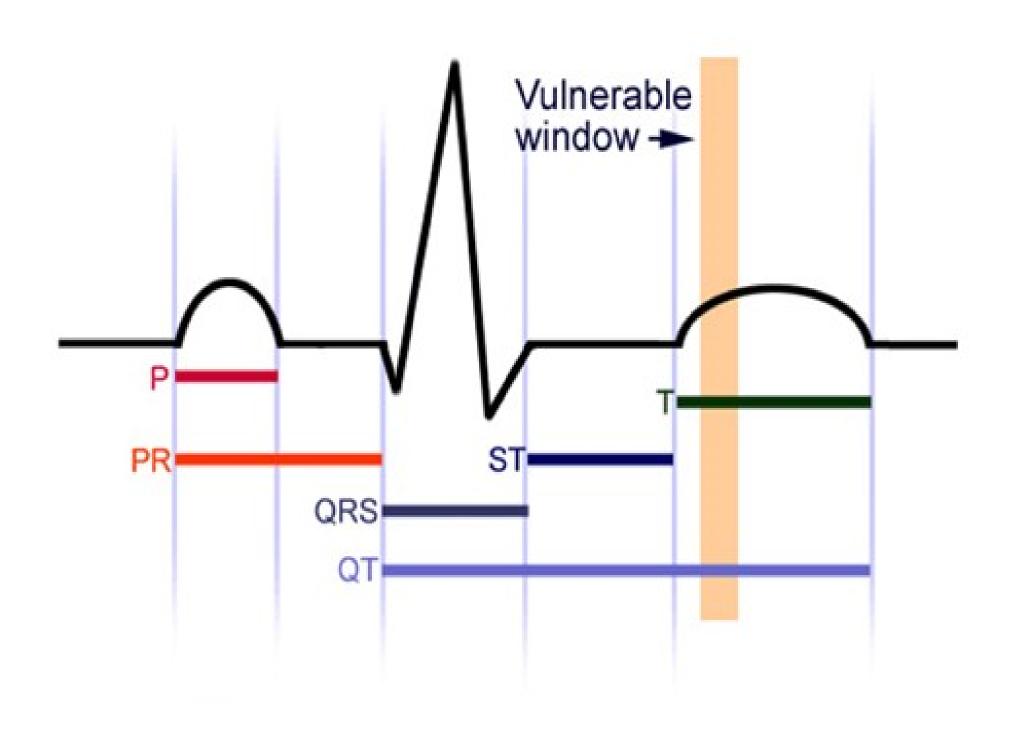






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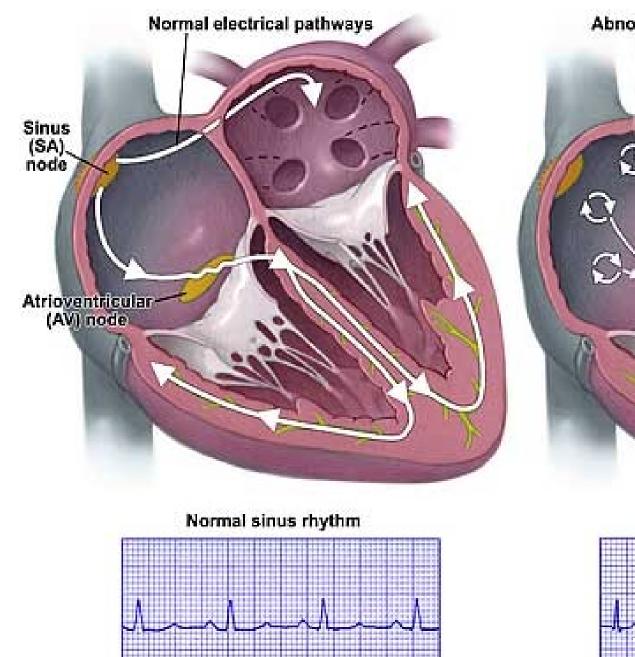


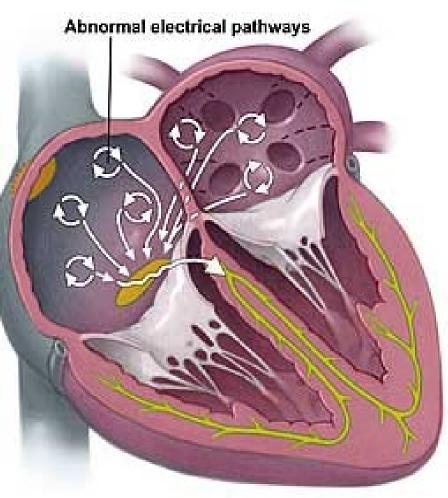
ATRIAL FIBRILLATION

DEFINITION

Atrial fibrillation is characterized by rapid, chaotic atrial depolarization from a reentry disorder.

Ectopic atrial foci produces impulses between 400 and 700 beats/min.



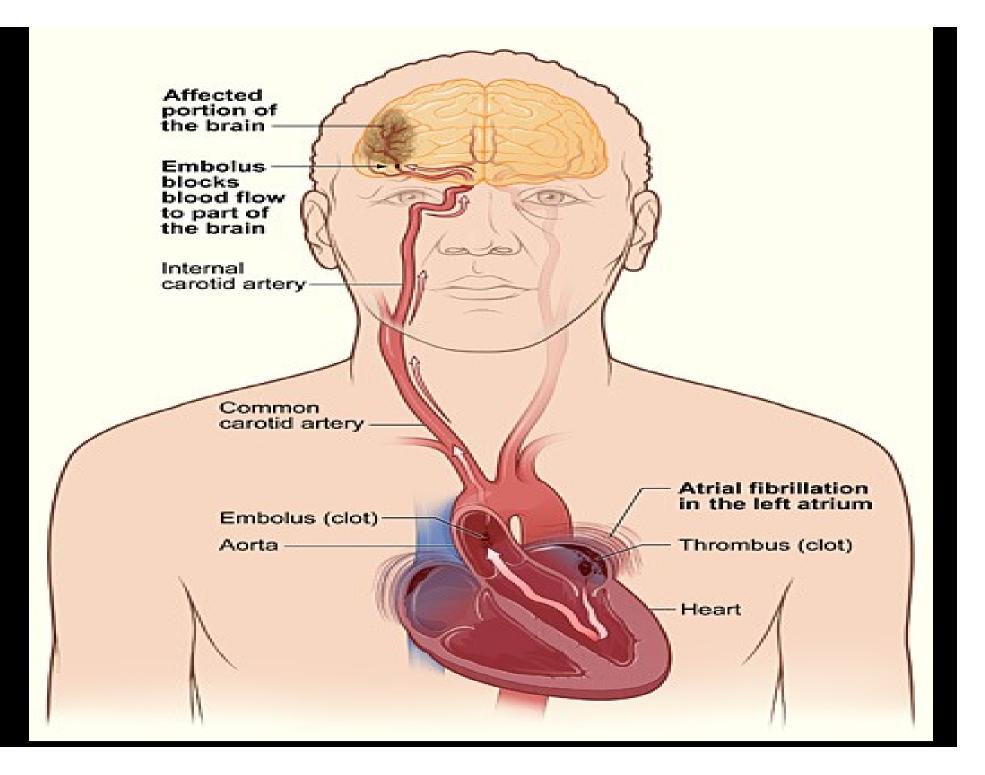


Atrial fibrillation



ETIOLOGY

- Fibrotic changes associated with the aging process , acute MI, vulvular disease and digoxin preparation may cause atrial fibrillation
- CHD , heart valve problem and heart failure
- The conduction of a QRS complex is so random that the rhythm is extremely irregular



ANALYSIS

- **RATE:** atrial fibrillation is usually immeasurable
- **RHYTHM :** 'Irregular Irregularity'
- P WAVE: Sometimes called 'little F waves'
- PR interval: Not measurable
- QRS Complex: normally conducted complex
- **T Waves:** Normally conducted

SIGNS AND SYMPTOMS

- Dizziness
- Anxiety
- Generalized weakness
- Mild short of breath
- Chest pain
- Severe shortness of breath

DIAGNOSTIC EVALUATION

- Electrocardiogram
- Physical examination
- Chest radiography
- TSH test
- CBC Blood Test

MANAGEMENT

- Beta-adrenergic blocker or calcium channel blockers
- Digoxin
- Cardio version
- Anticoagulation therapy
- Antiarythymic drug
- Pacemakers

SURGICAL MANAGEMENT

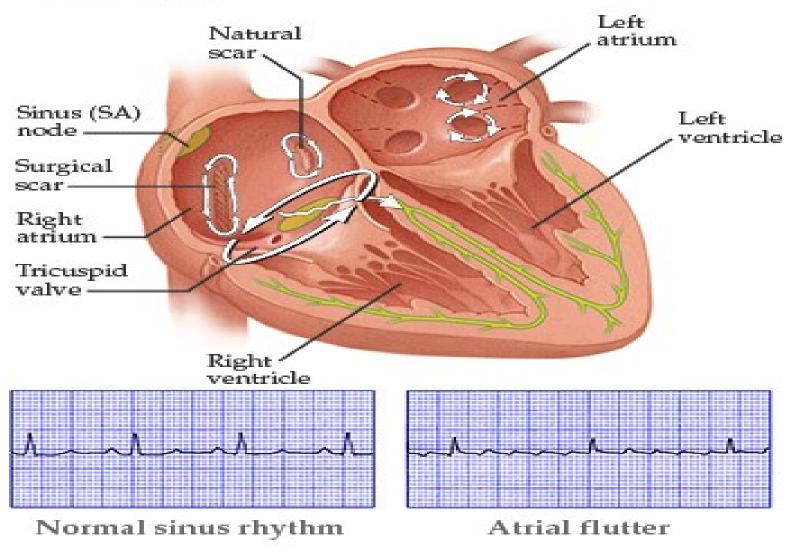
- Chemical ablation
- Mechanical ablation

ATRIAL FLUTTER

• **DEFINITION**:

Atrial flutter is a dysarhythmia arising is an ectopic pace maker or the site of a rapid reentry circuit in the atria characterized by rapid 'saw-toothed' atrial wave formation and usually by a slower , regular ventricular response.

Atrial Flutter



ETIOLOGY

- CAD
- Mitral valve diseases
- Pulmonary embolus
- MI
- Heart valve disease
- Hyperthyroidism
- Ischemic heart diseases
- Pericardial diseases

ANALYSIS

- Rate: Atrial rate between 250 to 400 beats/min.
- **Rhythm:** The atrial rhythm is regular the ventricular rhythm is usually regular but may be irregular
- QRS Shape and Duration: Usually normal but may be abnormal or absence
- PR interval: Not measurable
- T wave: present

SIGNS AND SYMPTOMS

- Chest pain
- Shortness of breath
- Low blood pressure

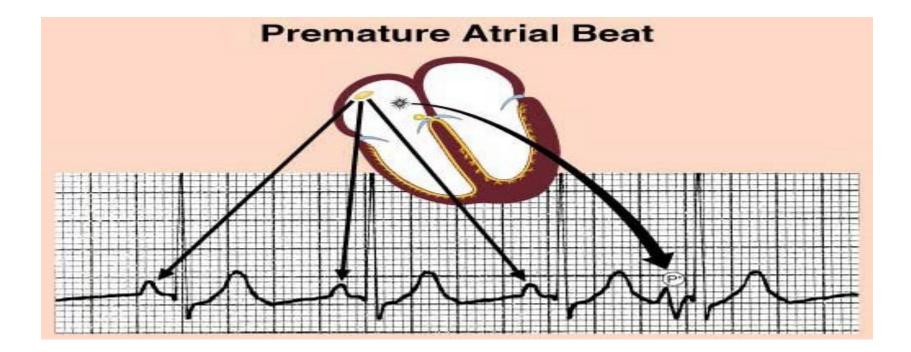
MANAGEMENT

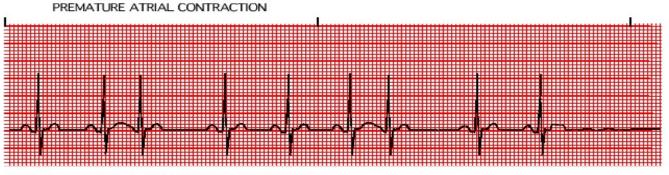
- Cardio version
- Digoxin
- Beta adrenergic blocker such as esmolol

PREMATURE ATRIAL CONTRACTION

• **DEFINITION**:

premature atrial contractions are early beats arising from ectopic atrial foci, interrupting the normal rhythm





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ETIOLOGY

- Stress, Alcohol
- Heart failure
- MI
- Valvular disease
- Coronary artery diseases
- chronic lung disease
- Electrolyte abnormalities
- hyperthyroidism

ANALYSIS

- Rate : may be slow or fast
- Rhythm: will be irregular
- P-wave: will be present for premature contraction will be distorted in shape
- PR Interval: may be normal but also be shortened
- QRS complex: normal limits because all conduction below the atrial is normal
- T wave: normally conducted



• Generally requires no treatment

• PACs should be monitored for increasing

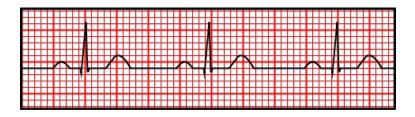
frequency

PREMATURE VENTRICULAR CONTRACTION

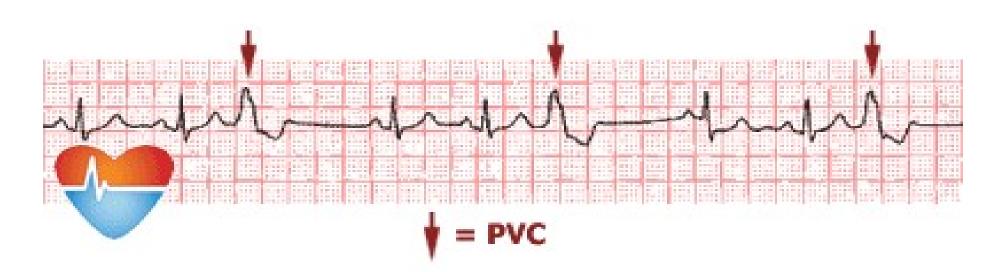
• **DEFINITION**:

A ventricular impulses form the next expected

from the SA node and take place of the normal beat



Trigeminal PVCs



ETIOLOGY

- Heart diseases
- Pulmonary diseases
- Electrolyte disturbance
- Metabolic instability
- Drug abuse

ANALYSIS

- Rate: may be slow or fast
- Rhythm: will be irregular
- P-wave: will be absent
- PR Interval: not measurable
- QRS complex: will be widened greater than 0.12 sec , bizarre in appearance when compared with normal QRS complex

MANAGEMENT

- Anti-dysrhythmic
- Short term therapy
- Long term therapy
- Pharmacological therapy

NURSING MANAGEMENT

NURSING DIAGNOSIS

SUMMARY

CONCLUSION

THEORY APPLICATION

ASSIGNMENT

JOURNAL ABSTRACT

BIBLIOGRAPHY

