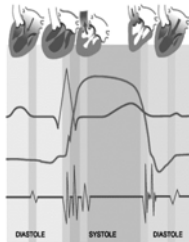


Ventricular Rhythms

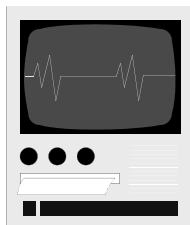
Characterized by a wide QRS
measuring > 0.12 sec.
Because normal pathway (bundle branches and
Purkinje fibers) is bypassed.

Ideoventricular Rhythm



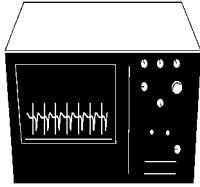
- Occurs when S/A or A/V junction fails to initiate an impulse.
- Or when rate of S/A node or A/V junction $<$ ventricular rate.
- Atrial rate not discernible.
- No P waves.
- Ventricular response 20-40, reg.
- QRS is wide and bizarre, > 0.12
- T wave opposite direction of QRS
- Impulses originate in ventricles.
- Bypasses normal conduction path.

Accelerated Idioventricular Rhythm



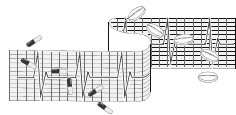
- Ectopic ventricular rhythm.
- Rate of 40-100 bpm
- Can be mistaken for ventricular tachycardia if ventricular rate isn't counted.
- Atrial rate not discernible
- Ventricular rate regular
- No P waves
- QRS- $> .12$
- T wave in opposite direction of QRS

Ventricular Tachycardia



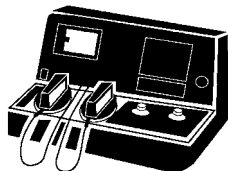
- When 3 or more PVC's occur in immediate succession at a rate greater than 100 bpm.
- Originates from an ectopic focus in either ventricle.
- QRS wide and bizarre.
- May occur < 30 sec. Or > 30 sec.
- Ventricular rhythm regular
- QRS same shape monomorphic VT
- QRS vary polymorphic VT.

Polymorphic Ventricular Tachycardia



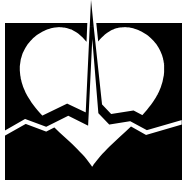
- More than one shape to QRS
- See overhead "Torsades de Pointes" French for twisting of the points.
- QRS changes in shape, amplitude, and width.
- QRS twists around isoelectric line.

Ventricular Fibrillation



- Chaotic rhythm originating in ventricles.
- Ventricles quiver
- No normal looking waveforms visible.
- Coarse V Fib. Waves >3mm
- Fine V Fib. Waves < 3mm
- Coarse - possible recent onset
- Fine- possible longer interval since patient collapse.

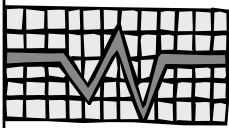
Premature Ventricular Complexes



- Occurs earlier than next expected sinus beat.
- Irritable site within either ventricle.
- Most common ventricular dys.
- QRS .12 or greater
- T wave usually in opposite direction of QRS.
- Rate is normal, depends on underlying rhythm.
- May occur in pairs (couplets), runs of 3 or > VT, bigeminal (qob), trigeminal q third beat, quadrigeminal q fourth beat.

More about PVC's

- Cartoon of EKG



- Identical PVC's called uniform.
- Different appearing called multiformed.
- Interpolated PVC's- squeezed between two regular complexes, rhythm undisturbed.
- R - ON - T PVC's- when R wave of PVC falls on T wave of preceding beat. Could precipitate V tach or V fib.



Asystole

- Total absence of ventricular electrical activity.
- No pulse is present.
- Some atrial electrical activity may be evident.

