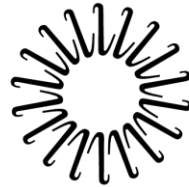


# CARDIAC TESTING



## **Lifespan Cardiovascular Institute**

**Rhode Island Hospital • The Miriam Hospital  
Newport Hospital**

*Delivering health with care.®*

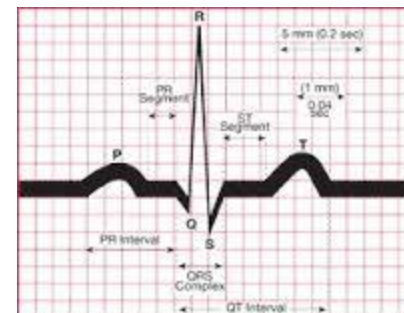
The Center for Cardiac fitness

Cardiac Rehab program

The Miriam Hospital

# EKG

- Electrical activity of the heart
- Rate rhythm
- Looks at changes – heart attack rate too fast, too slow, irregular



# Why do an EKG

Symptoms of

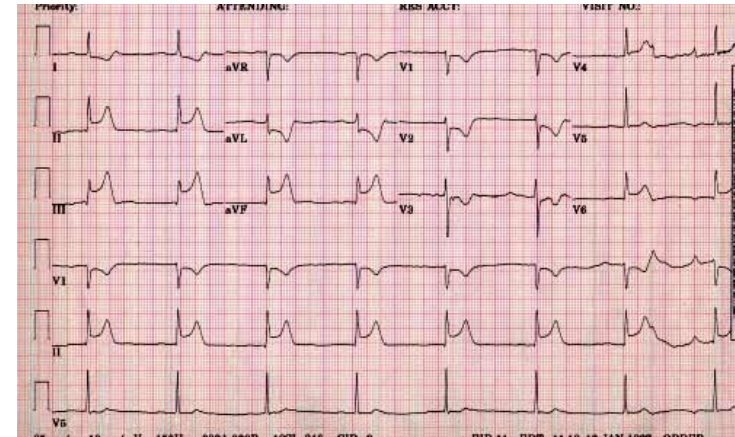
Chest pain

Palpitations

shortness of breath

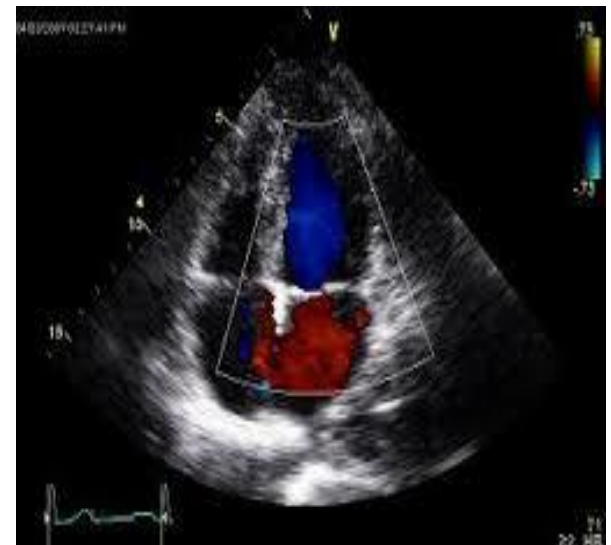
Fatigue, weak

Unusual heart sounds during exam by MD



# ECHOCARDIOGRAM

- Non-invasive using transducer (sound waves)
- Looks at heart's chambers and valves
- Size and shape of heart
- Pumping action/EF
- Wall motion abnormalities



# STRESS TESTING

- -provides information on how the heart performs under stress
- Uses 12 lead EKG with exercise
- Monitor vitals signs such as HR, rhythm, BP
- Look for changes in EKG (ischemia)
- Does patient have symptoms such as:
- Chest pain, discomfort, dizziness, shortness of breath
- Does the patient have orthopedic limitations
- Looks at functional capacity

# STRESS ECHOCARDIOGRAM

- Stress test + echocardiogram
- Looks at pictures of echocardiogram at rest vs pictures w/ activity
- NUCLEAR STRESS TEST
- Radioactive dye injected into bloodstream at peak exercise – looks at rest vs exercise
- DOBUTAMINE or NON-EXERCISE TEST
- Why would someone have this type of test

# HOLTER/EVENT MONITOR

- Records electrical activity 24-48 hours
- Used to detect arrhythmias
- EVENT MONITOR
- Does not continuously record
- Start the monitor when symptoms occur – see if symptoms match up with changes in EKG
- Used for patients who have symptoms of dizziness, palpitations, lightheadedness, fluttering