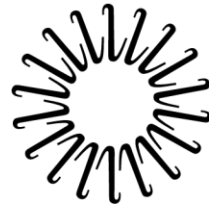


Treatment for Chest Pain



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**

Chest Pain Treatment

- Medical
 - Beta-blockers
 - Calcium channel blockers
 - Nitrates
- Mechanical
 - PCI
 - CABG

Medical Therapy

- Goals – supply vs. demand
 - Decrease resting/exercise heart rate
 - Medications
 - Training effect
 - Stress reduction
 - Knowledge
 - Increase blood flow
 - Medications
 - Nitrates
 - Cholesterol reduction
 - Collateral development

Medical Therapy

Acute vs. Chronic

- Acute
 - Multiple causes of pain
 - GERD, muscles/bones, lung disease
 - Angina
 - Nitrates, Aspirin, Blood Thinners
- Chronic
 - Medications
 - Beta blockers, Ca^{++} channel blockers, ACE/ARB, Nitrates, Cholesterol lowering, Anti-platelet agents
 - Mechanical interventions

Mechanical Therapy

- No effect on demand only on supply
- Increase blood flow
 - PCI – “Percutaneous Coronary Intervention”
 - Stents
 - Bare metal
 - Drug-eluting
 - POBA
 - Rotational atherectomy or “roto”
 - Thrombectomy (clot removal)

Mechanical Therapy

- Increase supply
 - CABG
 - Arterial conduits
 - Venous conduits
 - Off pump/beating heart

Medical Therapy after Mechanical Intervention

- Control of risk factors
 - Hypertension
 - Increased cholesterol
 - Diabetes
- Prevent re-occlusion
 - Aspirin
 - Plavix/clopidogrel