

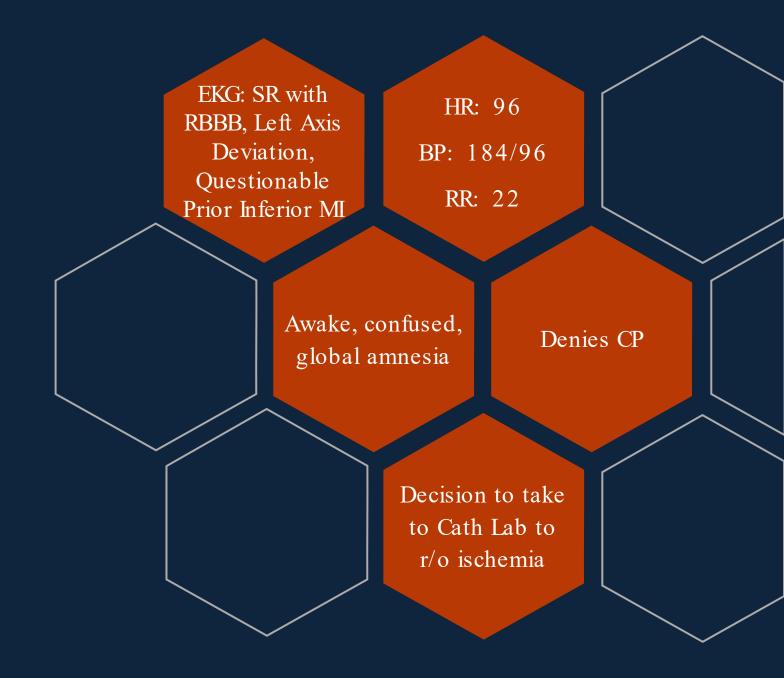
The Background

- A 70-year-old white male has a witnessed outside hospital cardiac arrest while playing tennis
 - No past medical history or present medications
- EMS reports the patient was pulseless with agonal breathing for several minutes
 - AED was applied
 - CPR initiated
 - Single shock administered for wide complex tachycardiac, possibly Torsades
 - No intubation required





Arrival to St. Dominic's Emergency Department





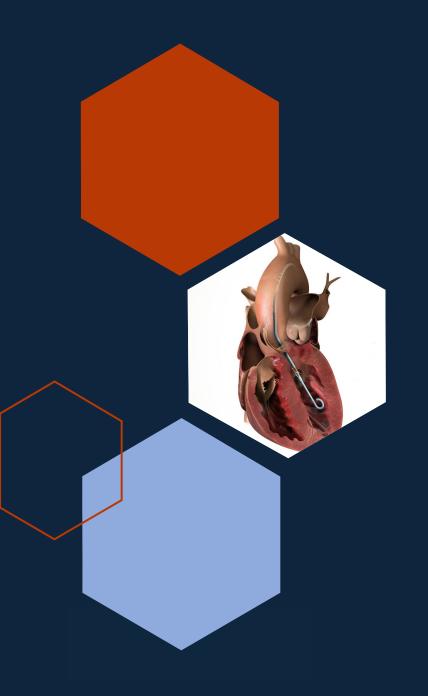
Cardiac Cath Lab Findings

- Multivessel CAD
 - Proximally Occluded Left Circumflex
 - Ostial Occluded RCA
 - Critical Ostial Diagonal
- Not Amenable to PCl
- Consult CV Surgery for Possible CABG
- Ejection Fraction: 25%

CV Surgery (48 hours Post OHCA Event)

- CABG x 3
 - LIMA to LAD, SVG to OM1, SVG to OM2
 - Severe intraoperative vasoplegia following initial separation from cardiopulmonary bypass
 - Continued to develop progressive hypotension resistant to vasopressor support
 - ECMO support?
 - Left ventricular support device?





Left Ventricular Support Device

Indications:

- Cardiogenic shock immediately (< 48 hours) following acute myocardial infarction or open heart surgery
- Persistent hypotension >30 minutes and unresponsive to optimal medical management and conventional treatment

Course of Action:

- 3.5 CP Impella inserted by interventional cardiology and cath lab team via RCFA
- Immediate stabilization of BP allowed flow rate to be reduced from 3.5 L/min to 2.5 L/min

Post- Op Events

24 hours

Renal Insufficiency

Encephalopathy

Continued post-op supportive care

48 Hours

Extubated

Left Ventricular Assist Device removed

EF improved to 45% per Echo

Days 4-5

Post-Op Afib with RVR

Pleural effusion, s/p thoracentesis

Day 12: Discharge

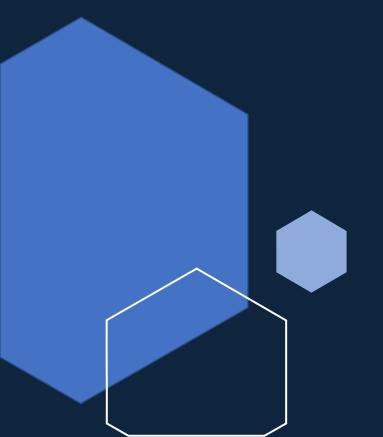
EF 45%

Plavix, Beta Blocker, Statin, ASA, Amiodarone

Home PT/OT

Swing Bed

Post Discharge





Return to Hospital

- Shortness of breath with bilateral lower extremity edema
- Pulmonary edema and moderate left pleural effusion
- Thoracentesis and diuretic therapy
- Acute on chronic heart failure



CHF Clinic Referral

• Timely management of CHF by a specialized CHF team



Jackson Heart Clinic: Two Month Follow-Up

- No dyspnea, orthopnea, irregular heartbeat, edema
- Now at home
- Exercising
- Medication therapy includes: Beta-blocker, loop diuretic, and antiplatelet

Collaboration



Cardiogenic Shock: Miracle Patient

Department

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