

# A man on the edge



Kareem Mahmoud, MD  
Cairo University

## Personal History



- ❧ 44 year old male
- ❧ Cigarette smoker
- ❧ Recently discovered, uncontrolled diabetic (5 mts)
- ❧ Not hypertensive

# History



- ☞ Recently discovered, uncontrolled diabetic (5 mts)
- ☞ Not hypertensive

# Complaint



Typical chest pain for 2 hours

**Chest pain**  
Severe, stabbing  
Retrosternal, not radiated  
Not relieved by rest

**15:00**  
Complaint



**Chest pain**  
Severe, stabbing  
Retrosternal, not radiated  
Not relieved by rest

**15:00**  
Complaint

**17:00**  
First Medical  
Contact

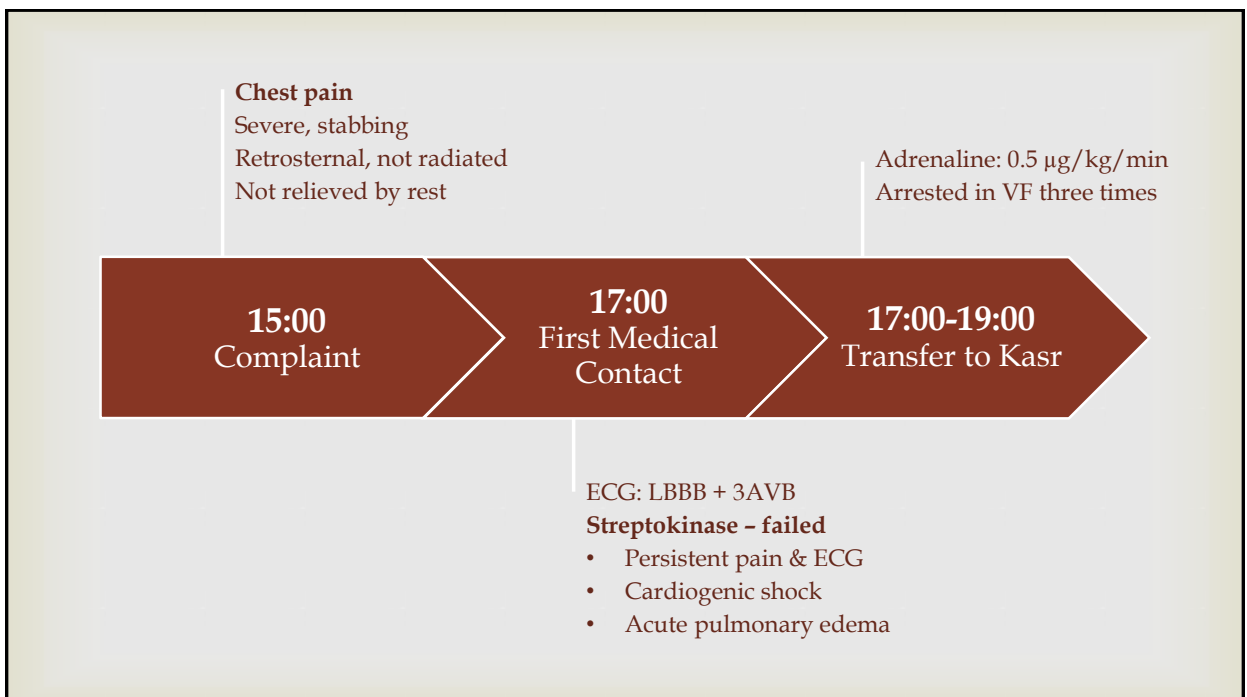
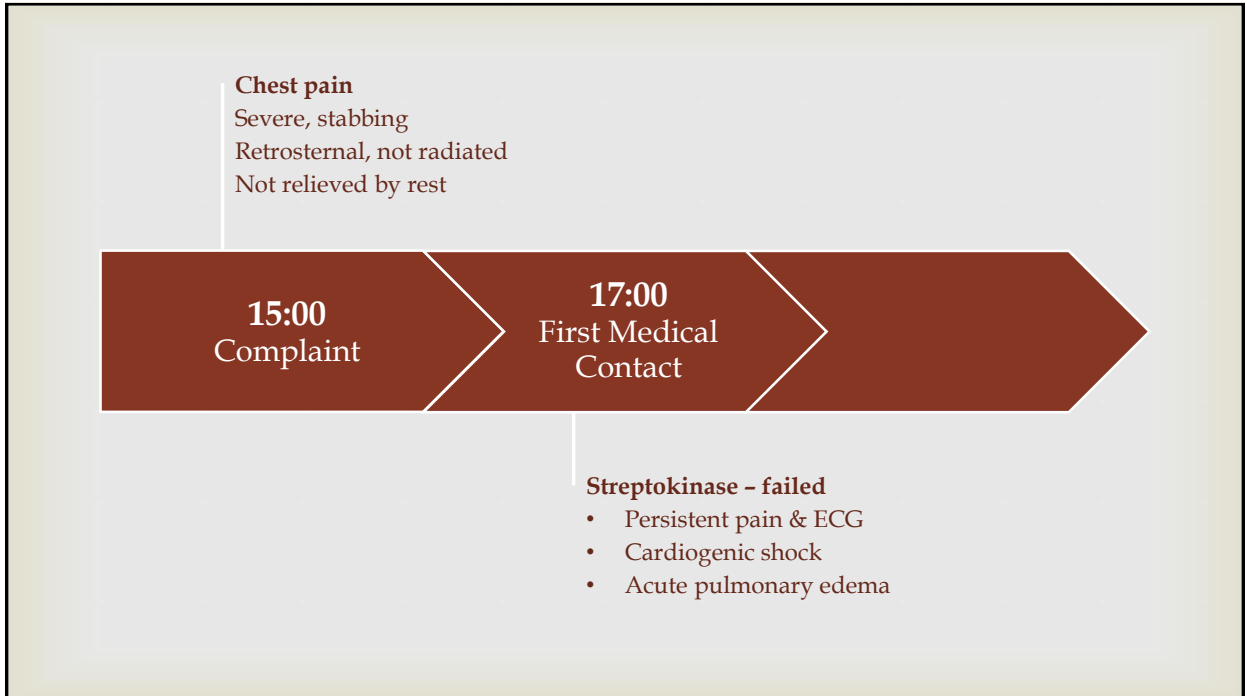




**Chest pain**  
Severe, stabbing  
Retrosternal, not radiated  
Not relieved by rest

15:00  
Complaint

17:00  
First Medical  
Contact



# On presentation



## ⌘ Cardiogenic shock:

- ⌘ very pale and sweaty
- ⌘ BP: **50/30** (right brachial, supine)
- ⌘ Pulse 130, regular, equal
- ⌘ SaO<sub>2</sub> 85% (room air)

## ⌘ Diabetic Ketoacidosis (foetor oris- RBS: 400 mg/dl)



# Problem list

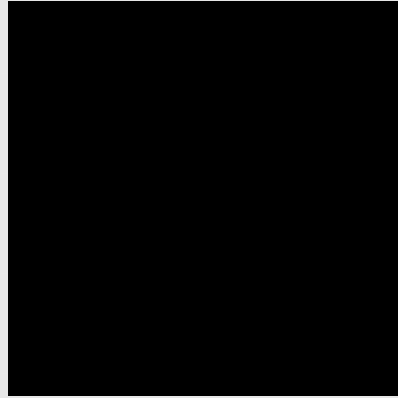
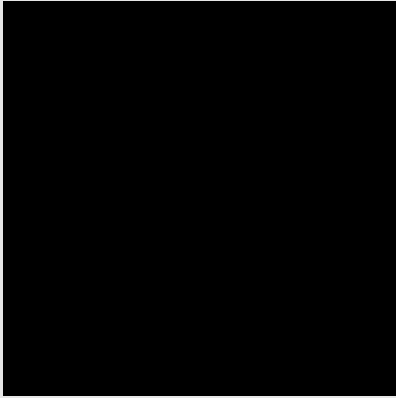


- ⌘ Acute extensive anterior STEMI for 4 hours
- ⌘ Failed SK thrombolysis 2 hours ago
- ⌘ S/P cardiac arrest in VF
- ⌘ Cardiogenic shock
- ⌘ Diabetic ketoacidosis (on top of Type 2 DM)
- ⌘ Prerenal injury

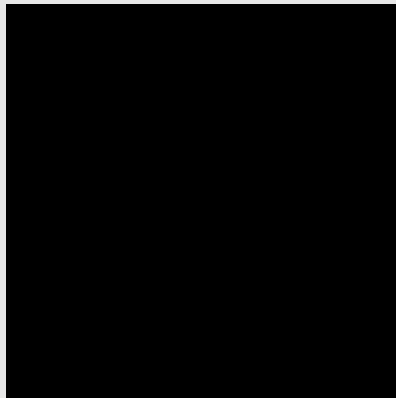
# Primary PCI



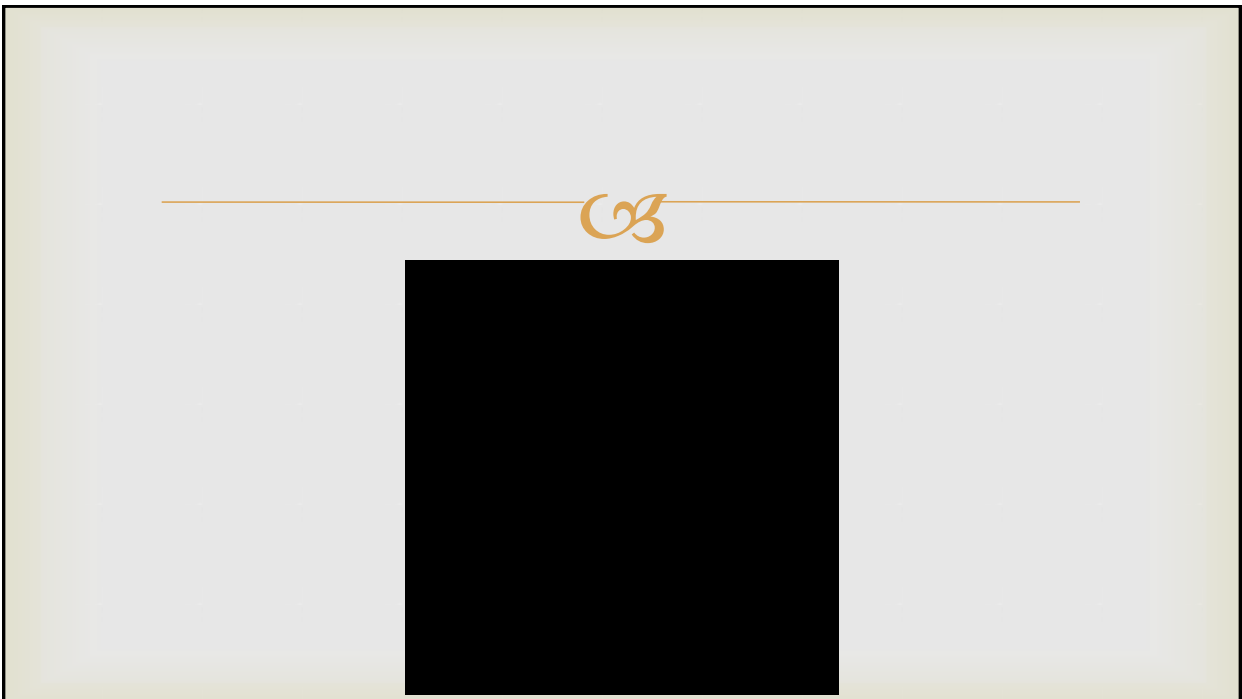
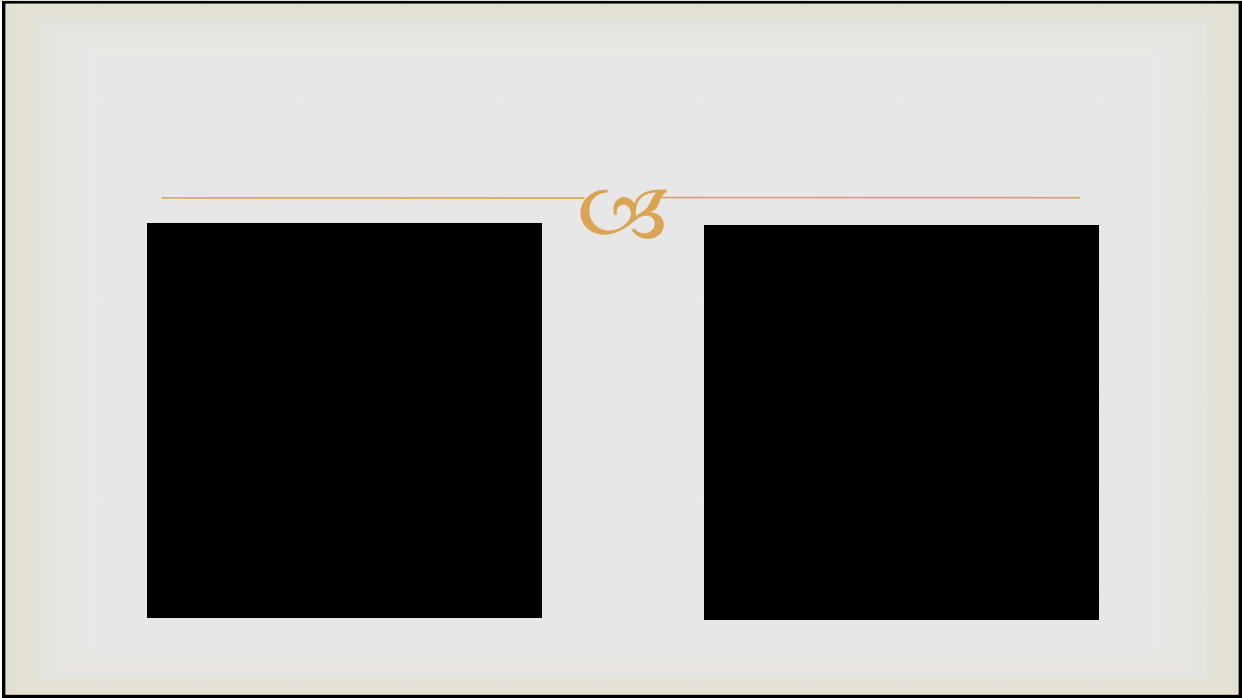
# Left coronary angiography



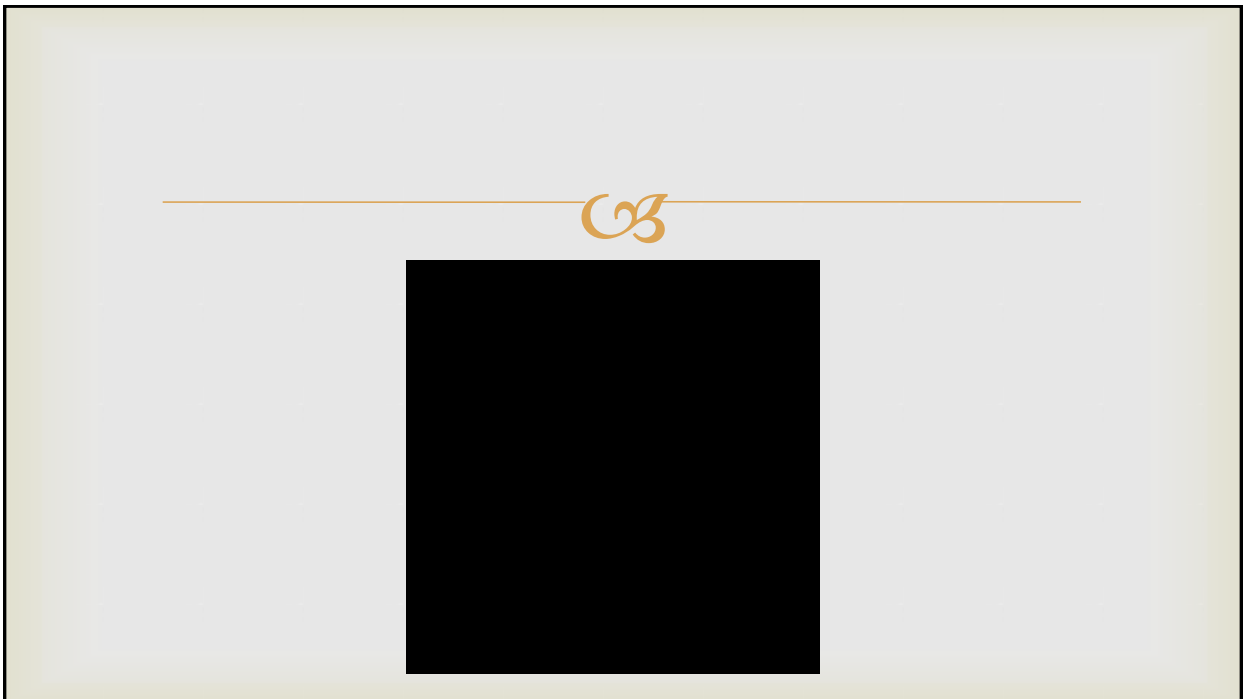
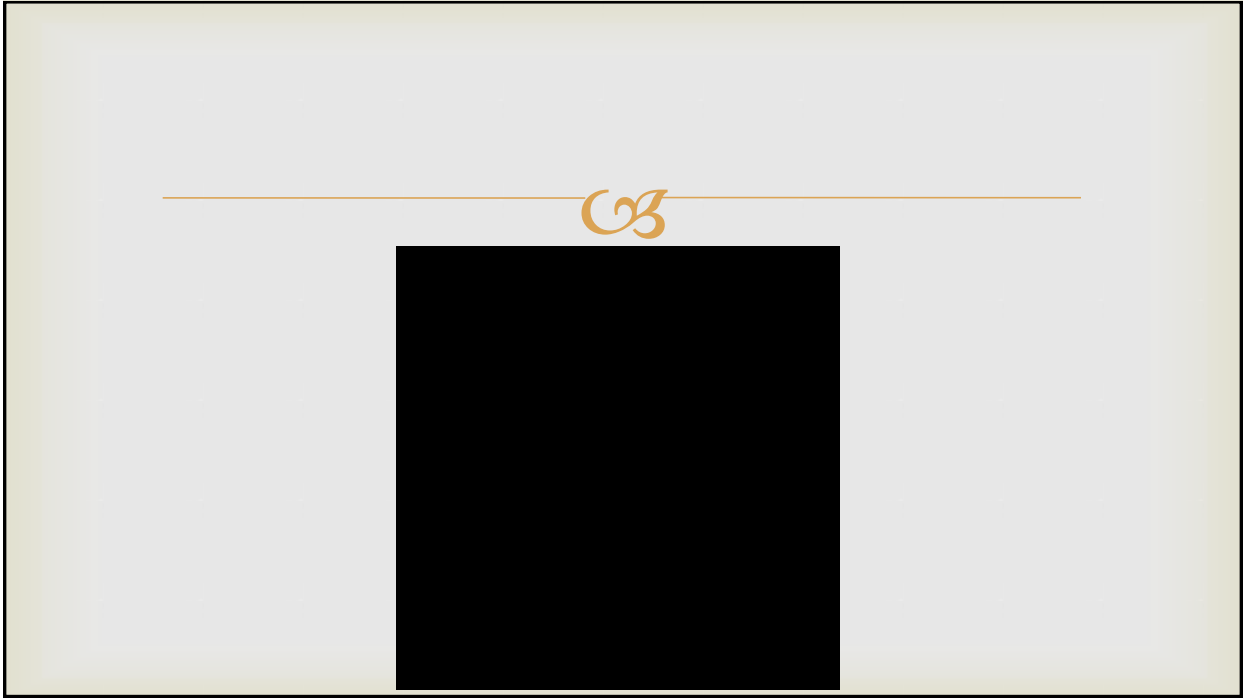
# Right coronary artery

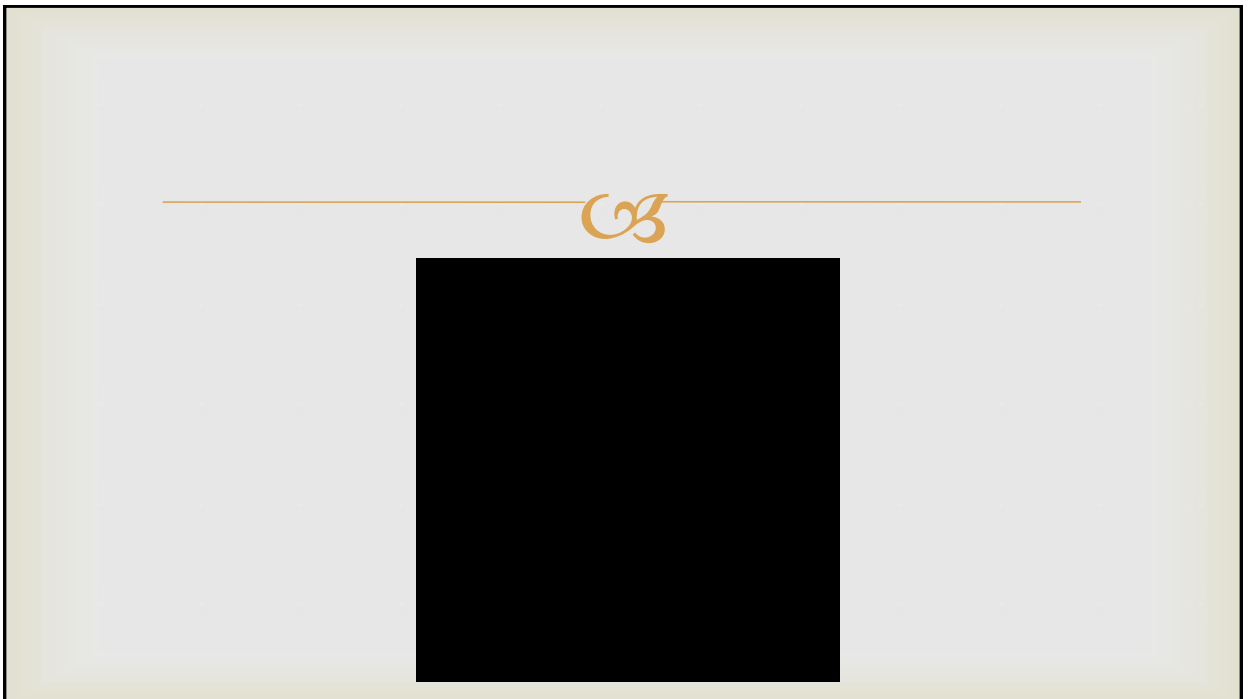
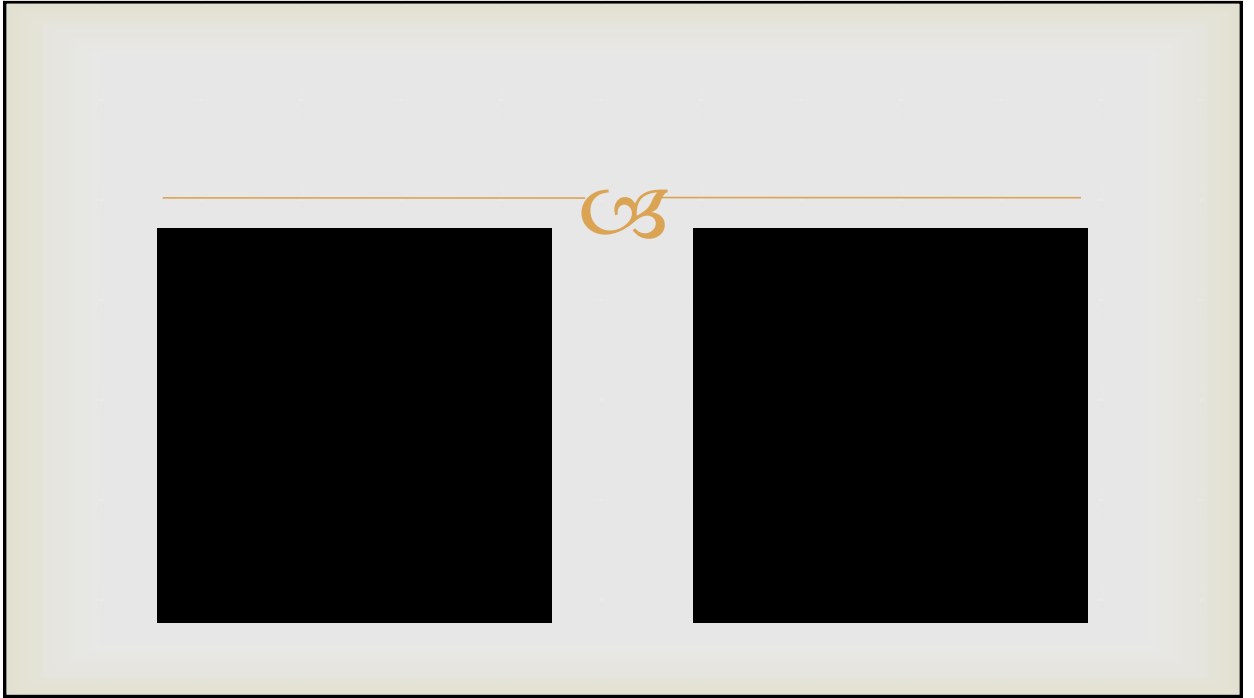


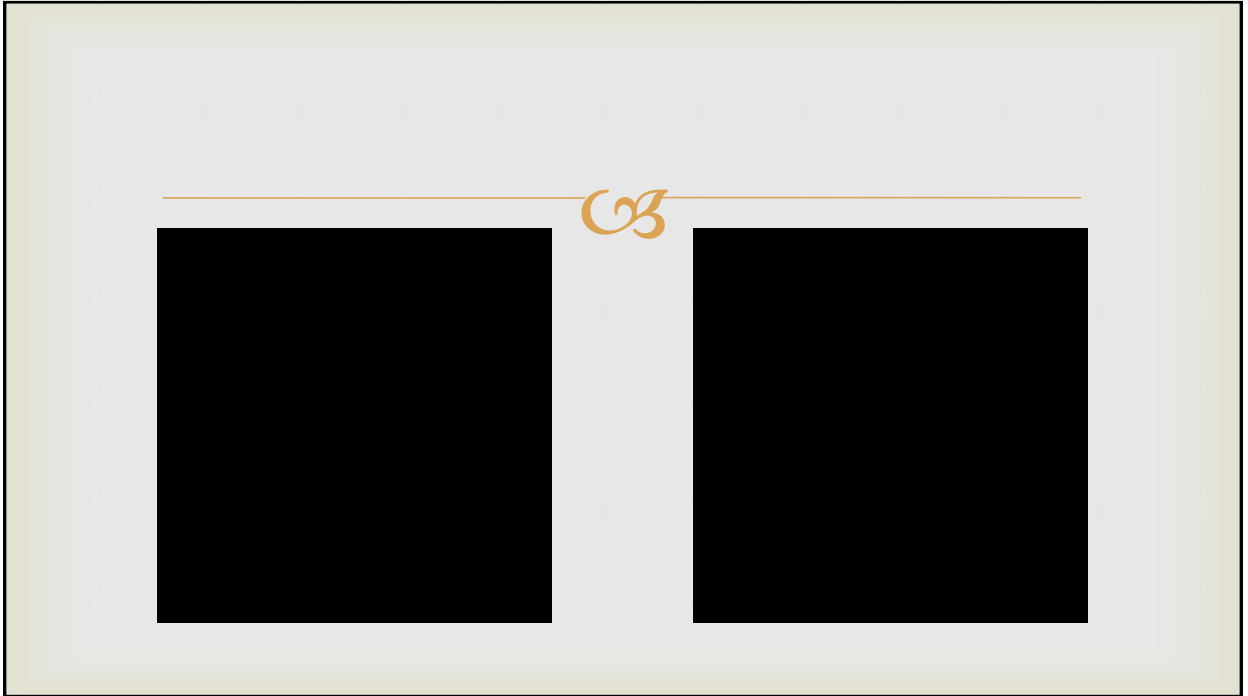












## Intracath course

- Arrested 5 times in VT, ROSC in < 1 min
- 300 mg Amiodarone
- Insulin infusion
- DES to proximal LAD and dominant LCx

# Post-cath course



- ∞ Chest pain did not recur; ECG: LBBB
- ∞ Ventricular arrhythmias/3AVB did not recur
- ∞ Inotrope doses fixed 24 h
- ∞ SaO2 kept above 90%
- ∞ Prophylactic pantoprazole infusion



## Post-cath course

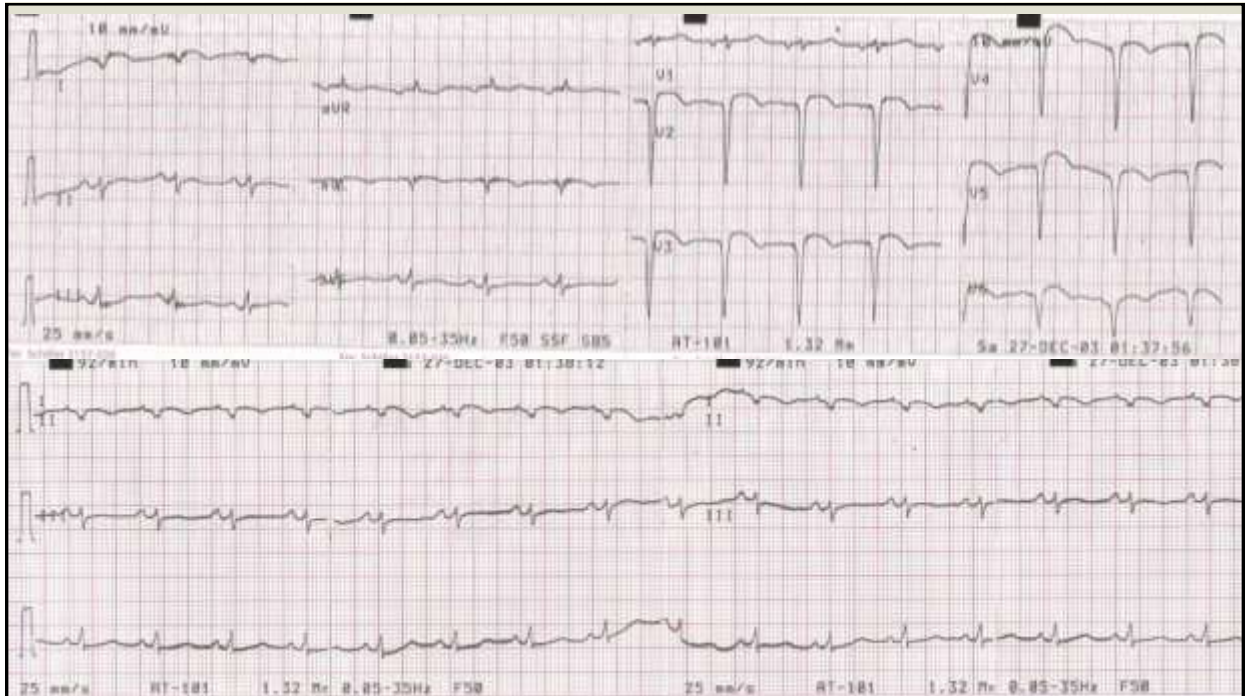


- ∞ RBS < 200, ABG normalized
- ∞ Electrolytes corrected as needed
- ∞ Weaned off inotropes, BP 90/60
- ∞ Introduced Bisoprolol, Ramipril, Furosemide, MRA
- ∞ Introduced Enoxaparin-Warfarin

## Post-cath course



- ∞ SaO<sub>2</sub> rose to 95% on room air
- ∞ Chest became clear, orthopnea disappeared
- ∞ UOP ~2500-3000/d, (net balance: -2000/d)
- ∞ Renal functions normalized
- ∞ QRS complex became narrower



—  —  
 ⌘ Immediate post-cath echocardiography:

- ⌘ Dilated LV dimensions- EF: 22%
- ⌘ Mild MR
- ⌘ LV apical mural thrombus

⌘ Follow up after 10 days: EF: 35%- resolution of LV thrombus



# Discharge medications



- ASA 150 mg od
- Bisoprolol 5 mg od
- Clopidogrel 75 mg od
- Ramipril 2.5 mg od
- Warfarin 4 mg od
- Spiroinolactone 50 mg od
- Atorvastatin 80 mg od
- Torse mide 10 mg od
- Insulin Mixtard 50/25
- Ivabradine 5 mg q12h

# Cardiogenic shock



- Associated with extreme hemodynamic deterioration
- Poor outcome
- Early revascularization is associated with better outcomes

Thank You