

When you expect doing everything right ! and the patient goes wrong

**Dr. Alaa Etman, MD.
National Heart Institute
Egypt**

Clinical History:

A 80-year-old Female with multiple risk factors for CAD (HTN, DM),

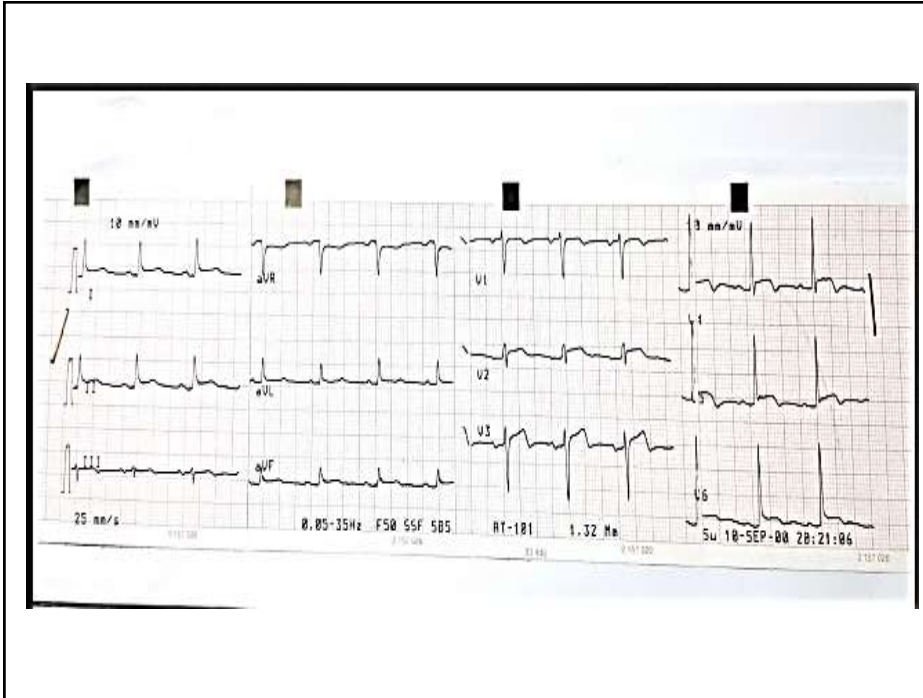
Presented on **AUG 28, 2017** with new-onset Crescendo over last two days, CCS class III angina ?! **Patient experience attacks of Dizziness and 2 attacks of presyncope?!**

ECG: Ant. ST elevation with biphasic T wave changes with dynamic ST T waves in inferopost. leads.

Bedside Echo: Normal apart from SWMA in the form of hypokinesia matching with LAD territory, ? Inferoposterior hypokinesia with diastolic impairment and 50% EF.

Coronary Angio; revealed Multi-vessel CAD and normal LV function; Syntax score was **>32**

PCI Decision taken and for Culprit vessels and intensive treatment -(with respecting patient well of refusing CABG and her family)



On Physical Examination

ABP 155/85 mmhg
 Pulse 90 Bpm regular equal on both arms
 Chest ex: Harsh vesicular breathing
 Normal S1 & S2
 RBS 140 mg per deciliter
 Hg 14.5 g per deciliter WBC 6000/ml
 INR: 1.1
 S.Creatinine level : 1.0 mg per deciliter
 GFRc 86 ml/min/1.73m²

Troponin I -ve
Low Frailty Score(looking younger and serving herself and her grandsons)

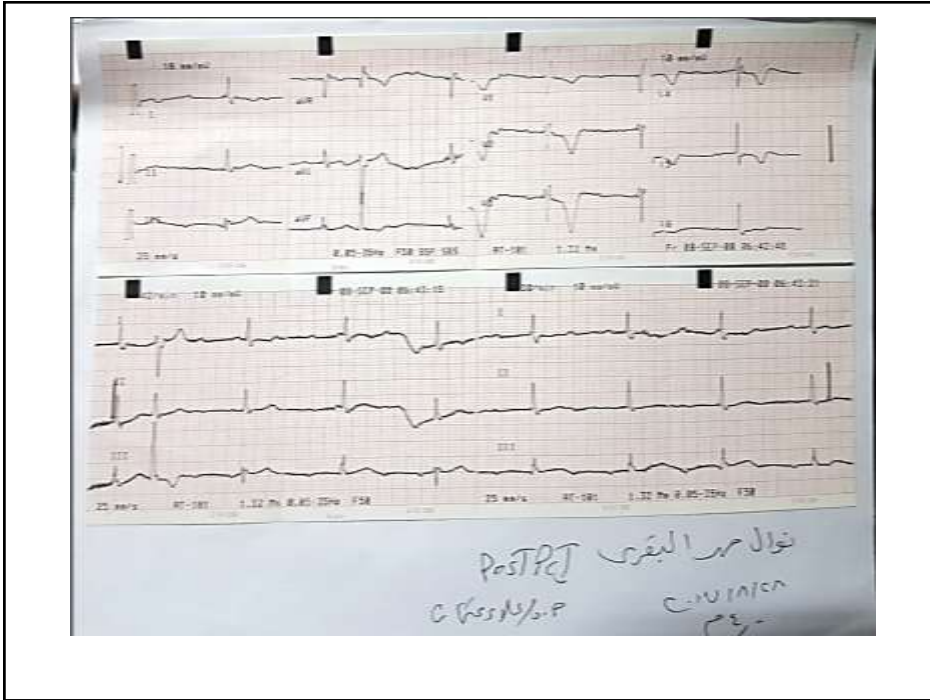
Procedure Step

- A radial approach using a left J 3.5 ,6f guiding catheter used to cannulate left coronary artery.
- Starting with pre-dilated Subtotal critical LAD with secured wire in D1 with successful Xience Xpedition(3.0x38)with prox.optimised post dilated by 3.5 NC balloon with no compromised D1 with TIMI III flow.
- Then attacking LCX (Xience Xpedition (2.75x23) successfully done.

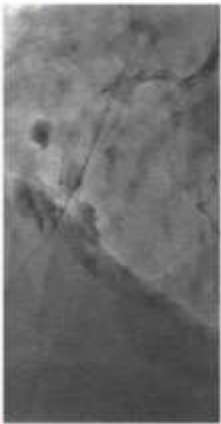

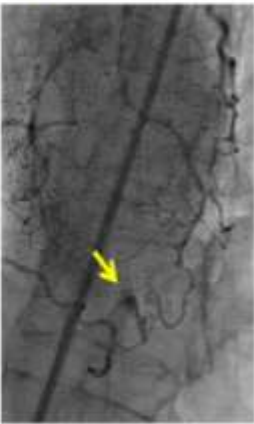
Thriller movie start to begin

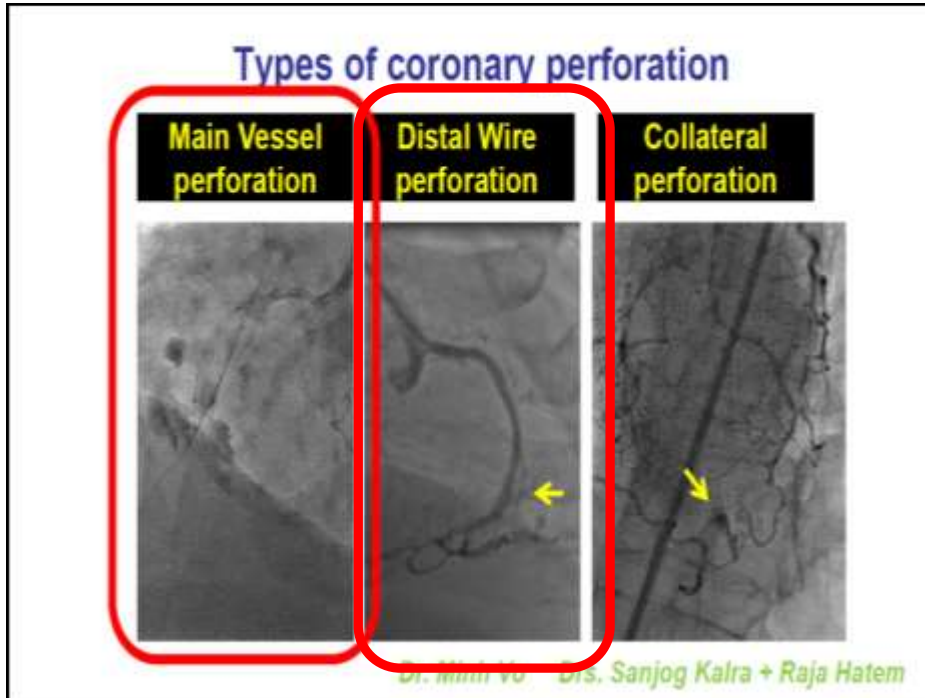
- At that moment,completely satisfied as procedure finished in minutes tackling culprit coronary artery,leaving that nasty calcific critical lesion in distal RCA non dominant artery,with ugly calcific prox.1/3
- !!!!! The unexpected happened??
- Patient start to collapse on table and **CHB** experienced?!!! **WHY?**
- Told to myself;it's ok lets start to struggle with heavy calcific RCA including change to femoral with the 2nd prox.stent and temporary pacemaker fixed,with final two stent deployment with accepted result!!?
- !? With under estimated localised perforation(from balloon or unintended libraly escape PDA wiring?
- Unfortunately,pateint start to deteriorate to shock,loss consciousness,,,especially after transefered to CCU not in Cath.table


Forunately enough bedside echo.document cardiac tamponade with RV collapse,Pericardiocentecis started even before repositioning big tail under flouroscopy to proper position for adequate drainage 6 unites washed packed RBCs needed with half correction dose of protamine sulfate(found by luck in CCU stock)



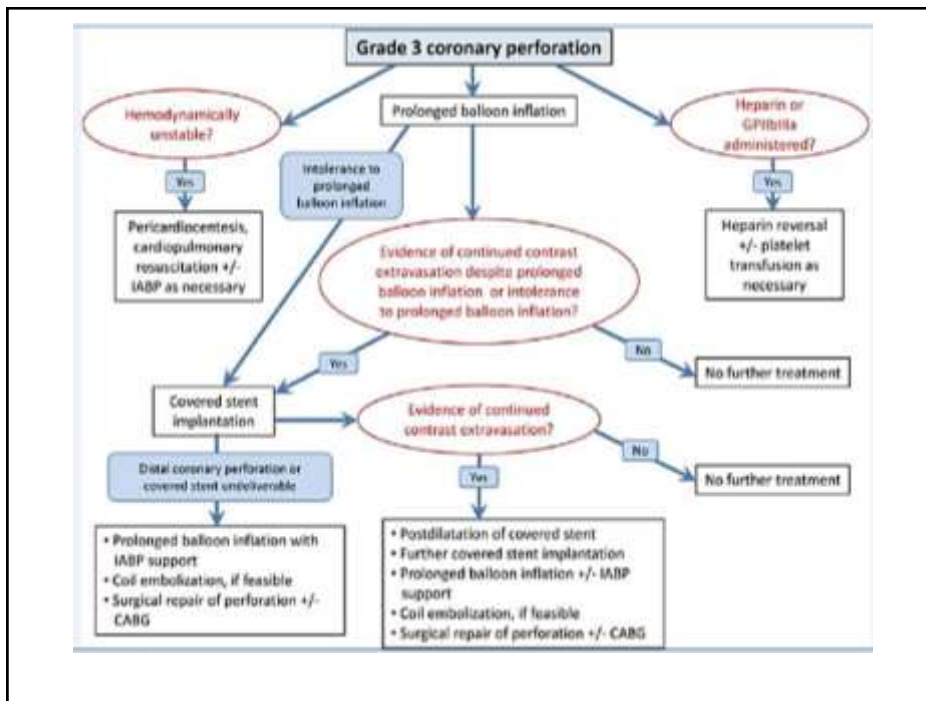
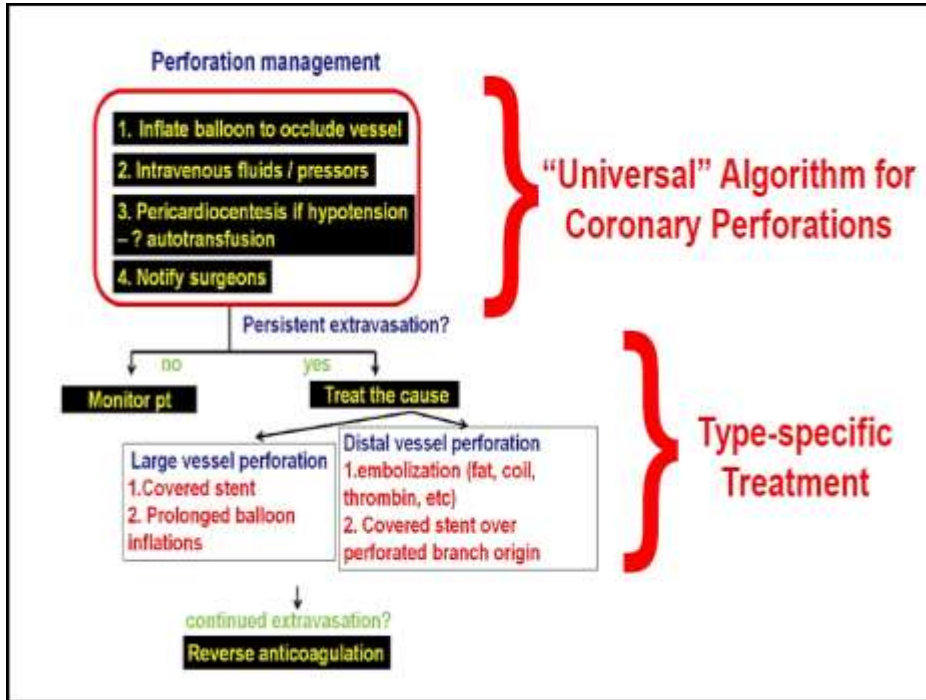
Types of coronary perforation

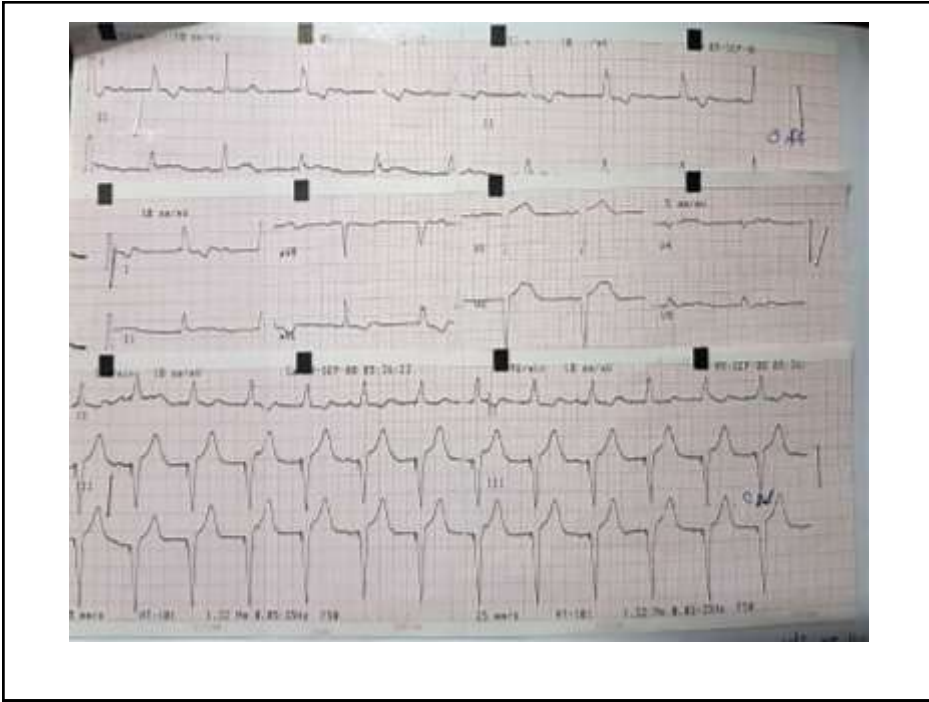
Main Vessel perforation	Distal Wire perforation	Collateral perforation
		
Dr. Minh Vo Drs. Sanjog Kalra + Raja Hatem		



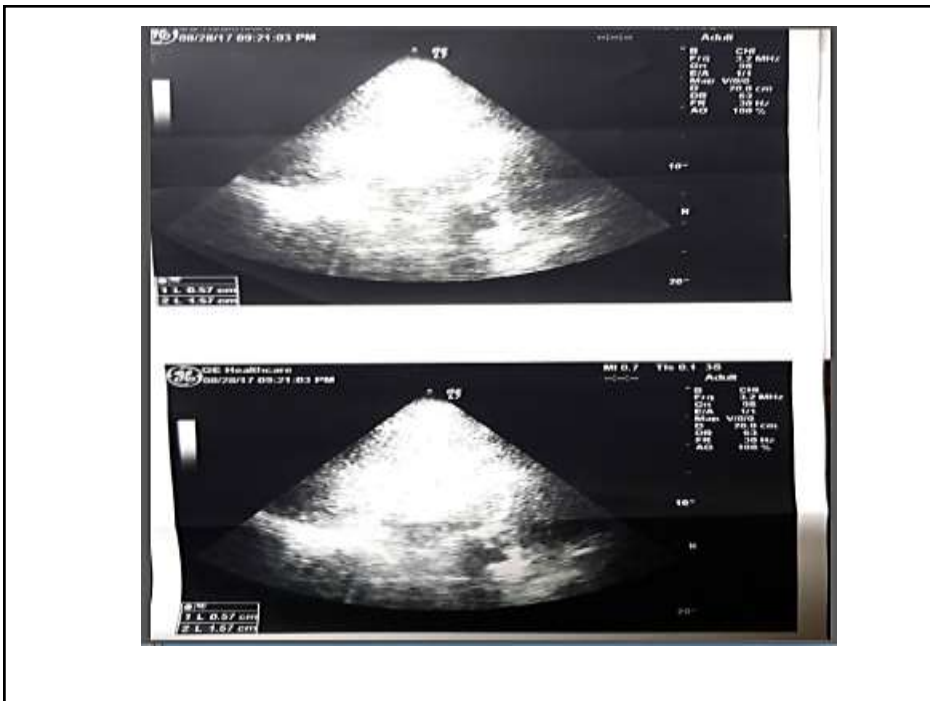
Type I	Extraluminal crater without extravasation	
Type II	Pericardial or myocardial blush without contrast jet extravasation	
Type III	Extravasation through frank (>1 mm) perforation	
*Type III cavity spilling (CS)	Perforation into an anatomic cavity, chamber, coronary sinus, etc.	

*Sometimes referred to as Type IV









Name : NAWAL M
Date : 02/10/2017

Five weeks later

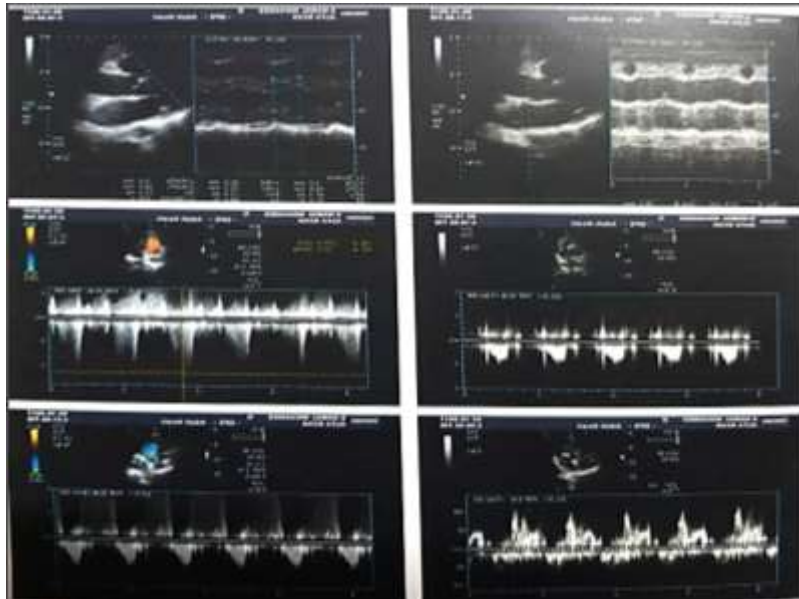
Transthoracic Echocardiography

LVED	4.6	(3.5 - 5.7 cm)	Ao	3.3	(1.9 - 3.7 cm)
LVES	2.6	(2.2 - 4.0 cm)	LA	3.8	(2.0 - 4.0 cm)
SWT	0.9	(0.7 - 1.1 cm)	RV	2.2	(1.6 - 2.6 cm)
PWT	0.9	(0.7 - 1.1 cm)	MVA		(2.0 - 4.0 cm ²)
FS	-44%	(25 - 45 %)	EF	76%	

Comment:

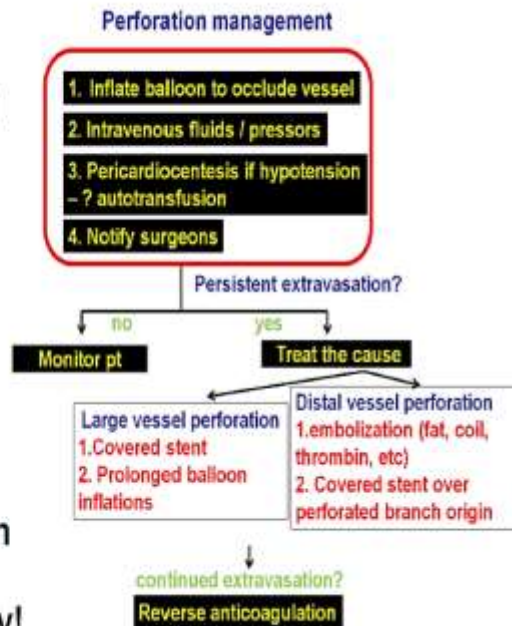
- Normal left ventricular internal dimensions with normal overall systolic function.
- Type I antegrade diastolic mitral flow denoting impaired LV relaxation.
- SWMAx: not detected at rest.
- Normal left atrium. Normal aortic root dimensions.
- Sclerotic aortic valve without significant gradient across. mild aortic regurg.
- Normal other valvular aspect, structure and functions.
- Mild tricuspid regurg. Estimated PASP=20+CVP. No indirect signs suggestive of pulmonary hypertension with normal right sided chambers dimensions and contractility.
- No intracardiac masses or thrombi.
- Normal pericardium.

THANKS GOD; With completely normal ECG ,and Doing whatever she used to do before,never touched again!



Lessons

1. Perforation: Universal algorithm
2. Know your covered stents
3. Prolonged balloon inflations
4. Do not reverse heparin
5. Prior CABG: treat early!



Thank You