



# Interesting Nuclear Cardiology Cases

By

*Prof. Dr Ahmed Abdelaty, MD, FASNC*

Prof. of Cardiology, Head of Nuclear Cardiology Lab.

Cardiology Dept. Faculty of Medicine

Alexandria University

# Myocardial Perfusion for Decision Making

## Case -1

### **A. M. A. A.M.**

54 y.old male 75 Kg. DM,HT,Smoker

Post MI 10Y.Recurrent ACS

ICM EF 35%

Referred for Viability study after 3  
coronary angios.2002,2007 and 2013

## **Last Coronary Angio.**

**4/2013**

LM:N

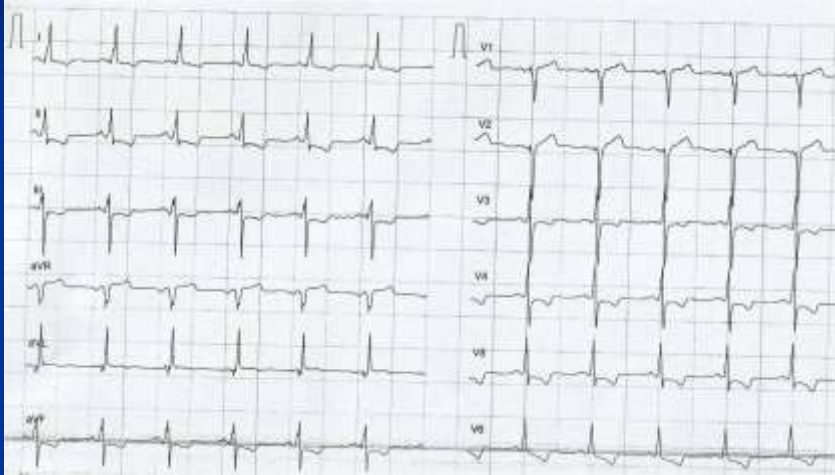
LAD: Subtotal occlusion at its origin with  
faint antegrade filling

CX: Large dominant;90% at origin of OM1  
and then distal 90% stenosis.

RCA non dominant subtotal occlusion

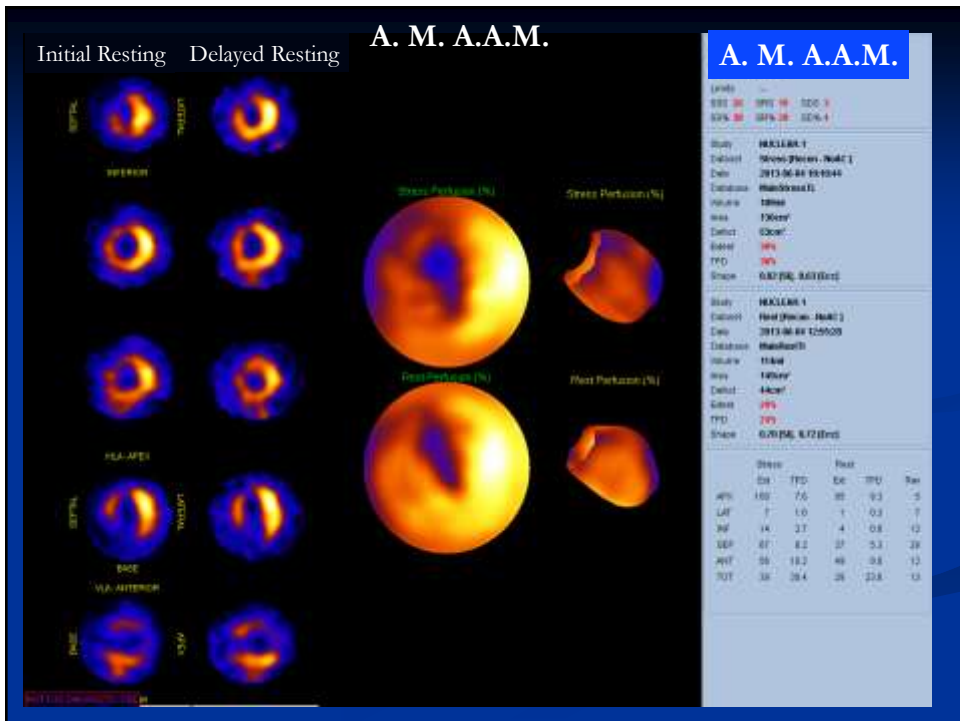
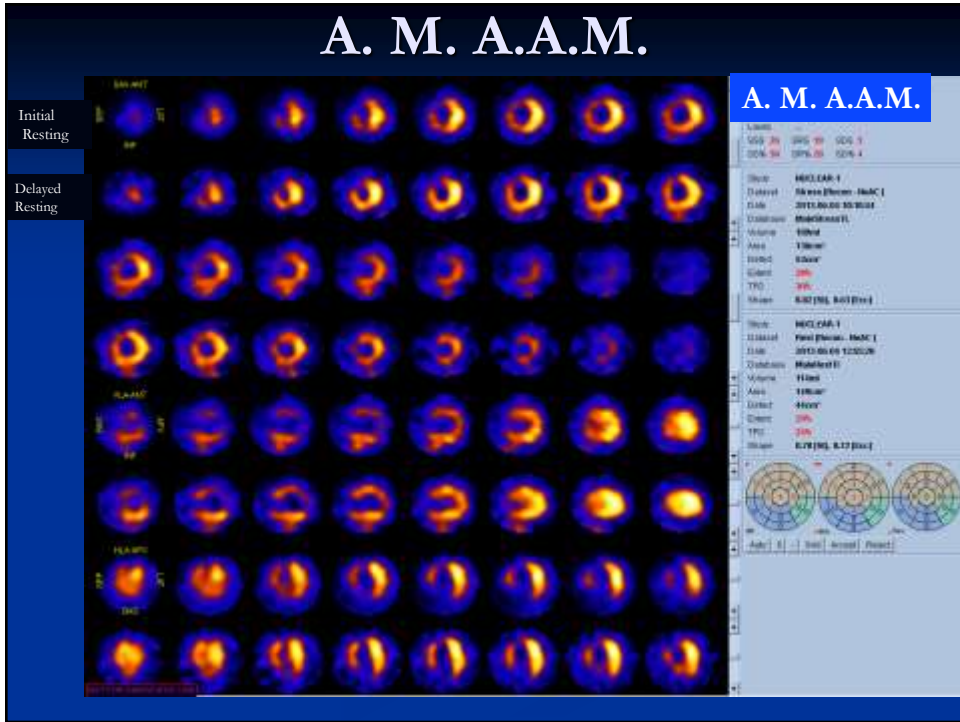
For PCI CX

## Resting ECG



## SPECT TL.Viability

Initial Resting TL and 4 H.Delayed Resting with  
Reinjection Protocol



## Last Coronary Angio.

4/2013

LM:N

LAD:Subtotal occlusion at its origin with faint antegrade filling

CX: Large dominant;90% at origin of OM1  
and then distal 90% stenosis.

RCA non dominant subtotal occlusion

For PCI CX

## Decision Post SPECT?

PCI LAD and CX

## Case-2

G.A. A.

58Y.Old Male 75Kg.

No DM

No HT

Post Ant.MI

ICM EF 40%

NYHA II-III

No Chest Pain

## Coronary Angio

LM:N

LAD : Mid total occlusion

CX : Proximal tight lesion after a sizable OM

RCA : Proximal chronic total occlusion with retrograde filling from Lt. system and tight lesion before its bifurcation.

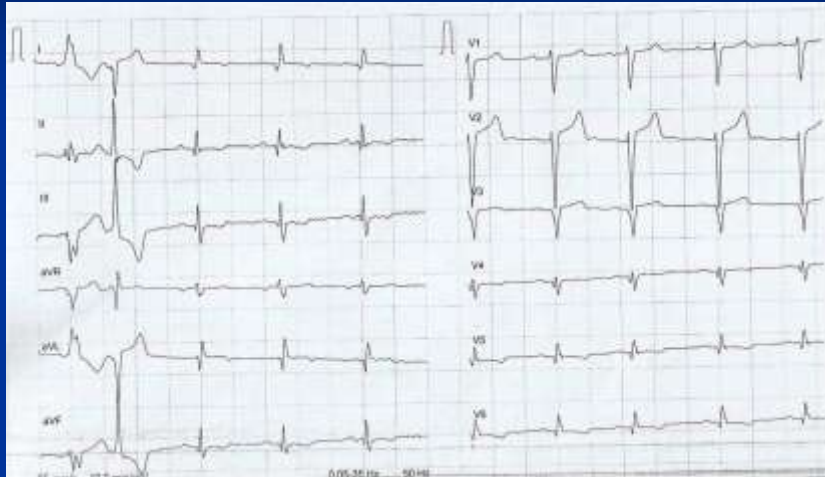
**Comment :For PCI CX only vs. CABG for MVD**

## For Pharmacologic Stress My. Perfusion Study

He cannot Ex. due to L-S disc

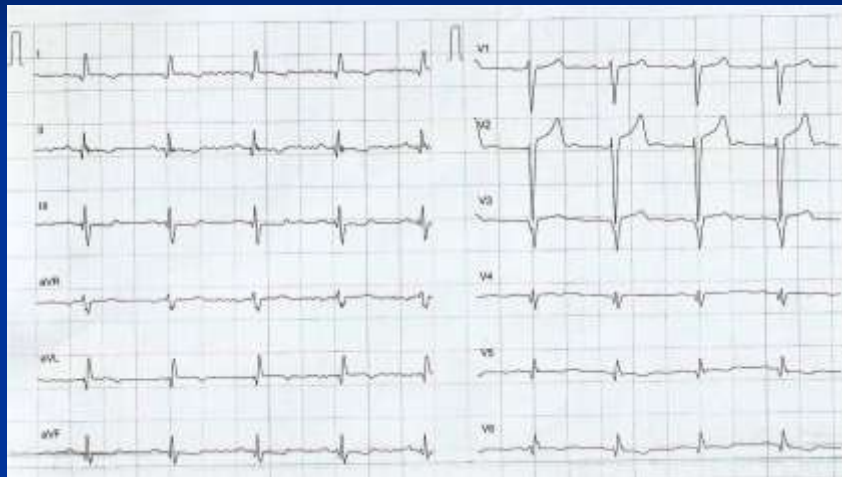
# Resting ECG

HR.58 b/min

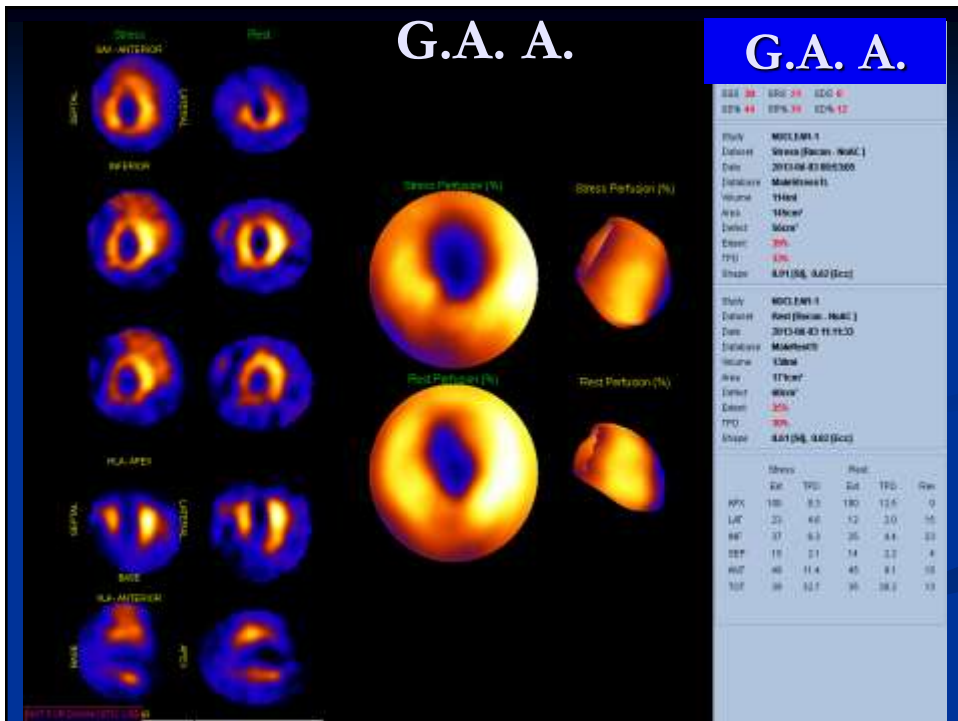
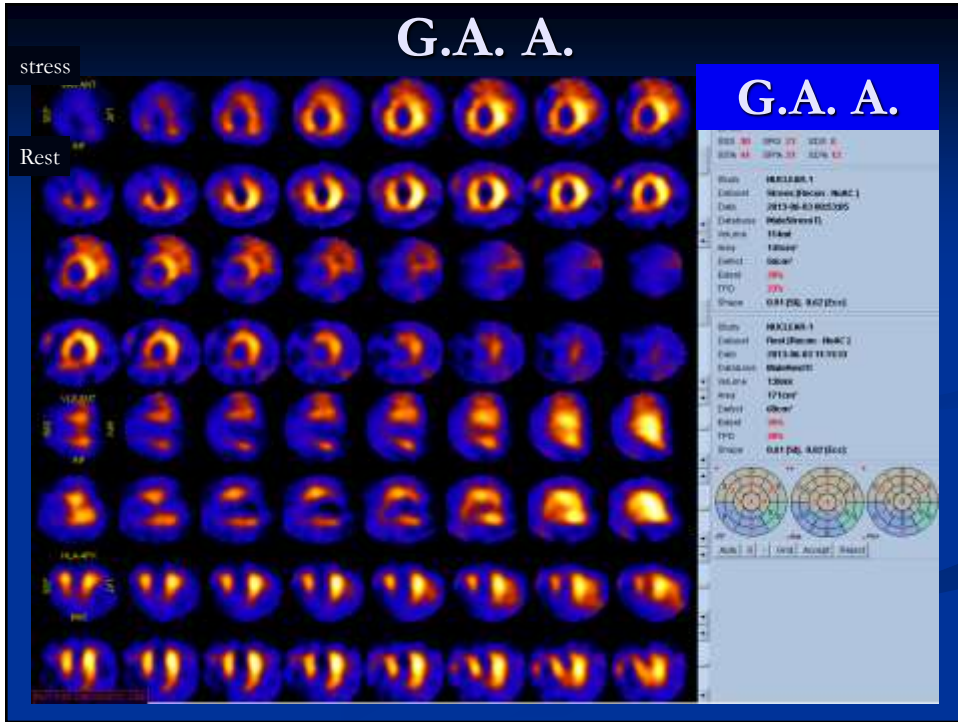


# ECG With Dipyridamol

HR.59 b/min









## Coronary Angio

LM:N

LAD : Mid total occlusion

CX : Proximal tight lesion after a sizable OM

RCA : Proximal chronic total occlusion with retrograde filling from Lt. system and tight lesion before its bifurcation.

Comment :For PCI CX only vs. CABG for MVD

Comment :

## Post SPECT Decision?

High risk scan for Urgent CABG for  
LAD,CX & RCA

## Take Home Message

*Myocardial perfusion SPECT studies could help you*

To risk stratify your pt. with CAD and to select the management modality.

