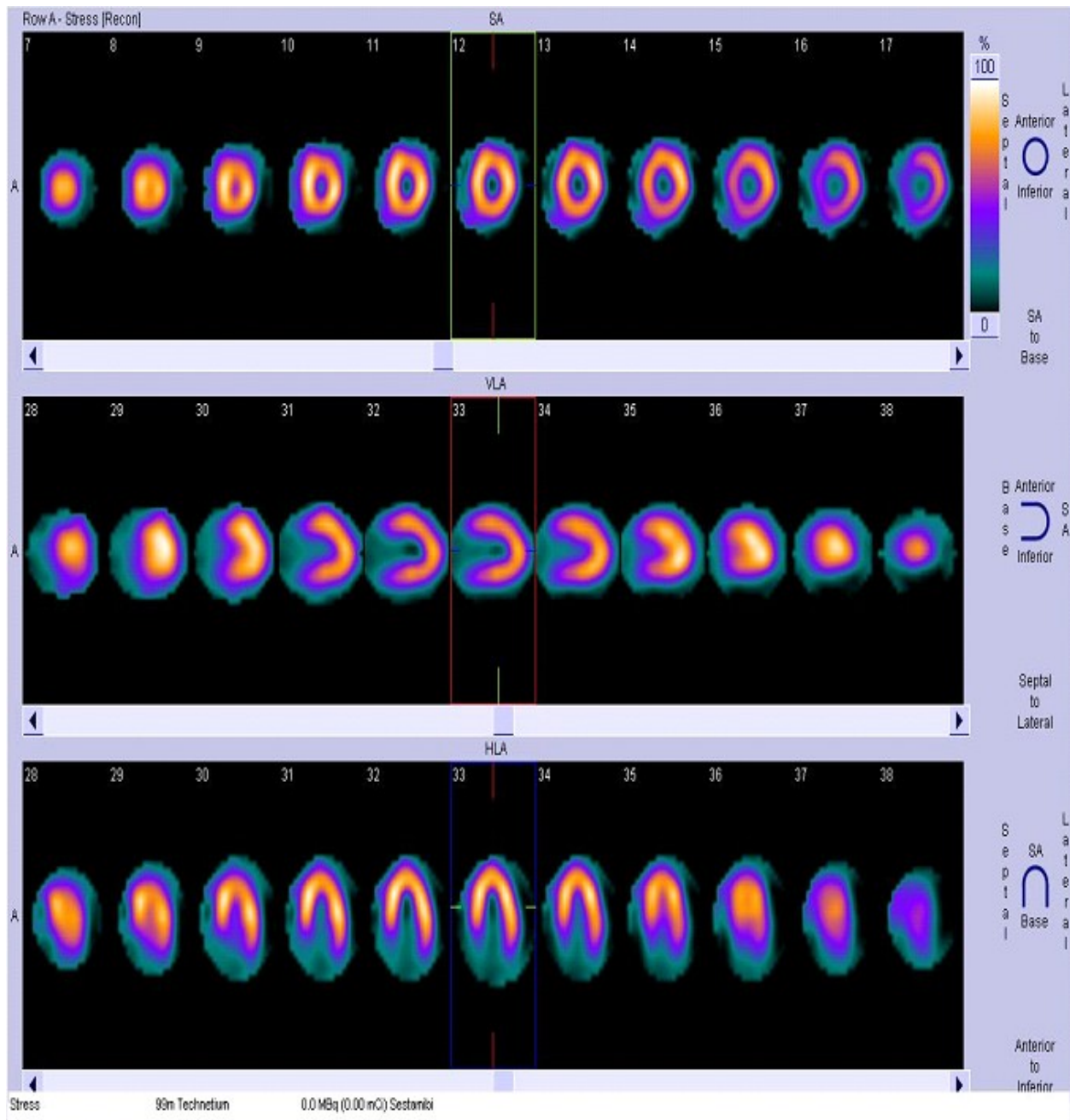
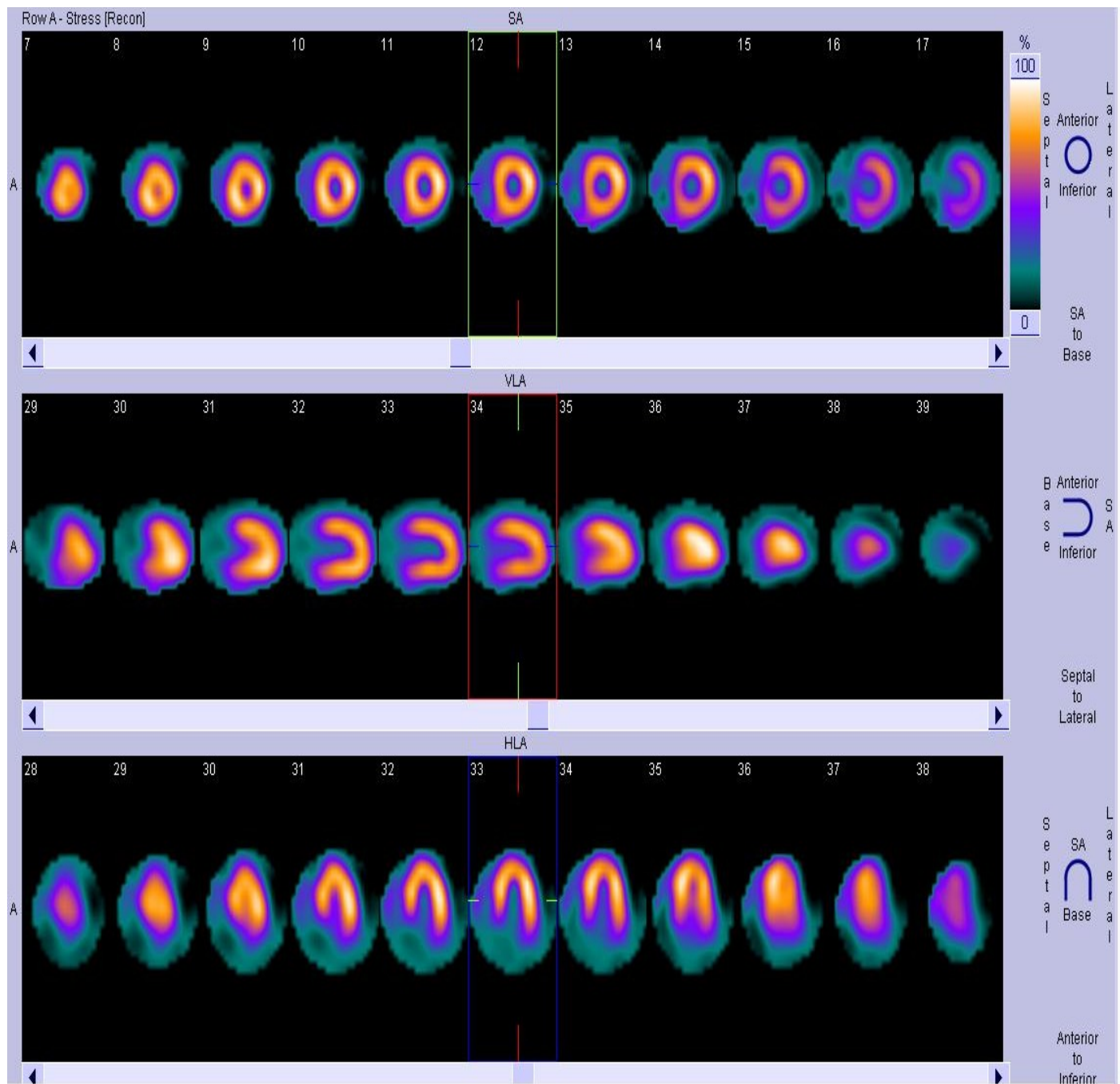


[illegible]

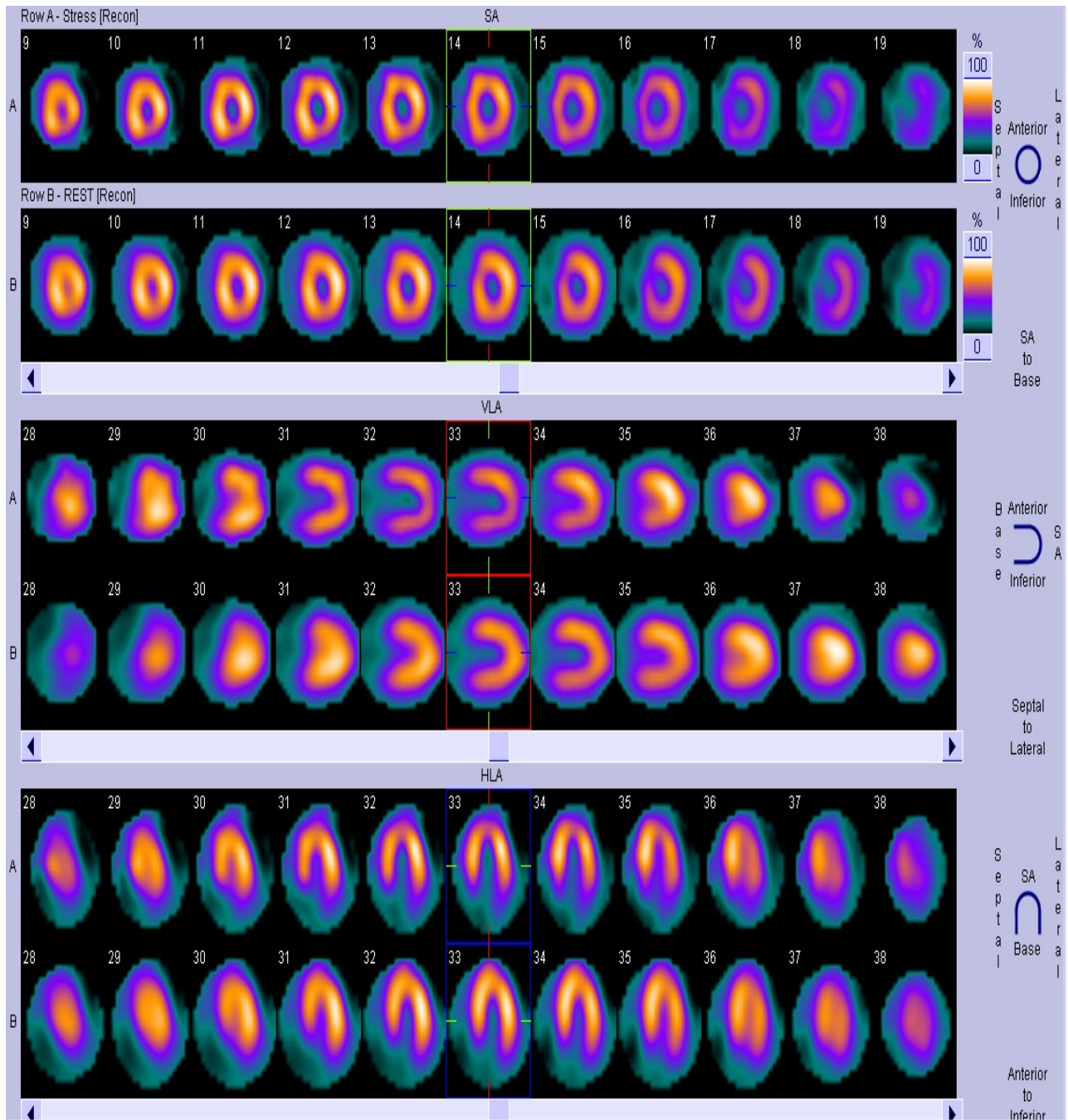
Normal stress myocardial perfusion SPECT scan by using ^{99m}Tc labeled with sestamibi (MIBI) and physical exercise by treadmill



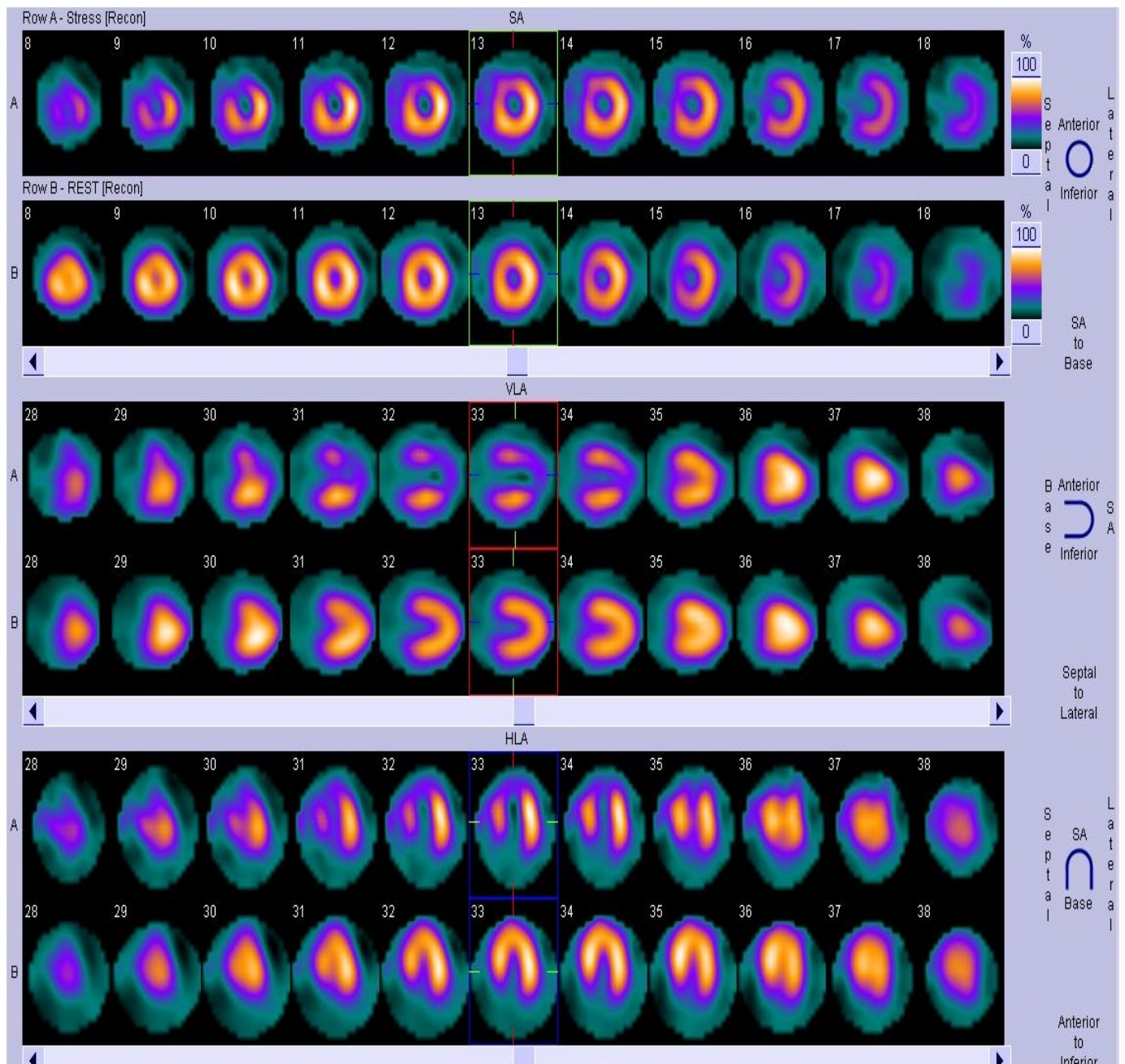
Normal stress myocardial perfusion SPECT scan by using ^{99m}Tc labeled with sestamibi (MIBI) and physical exercise by treadmill



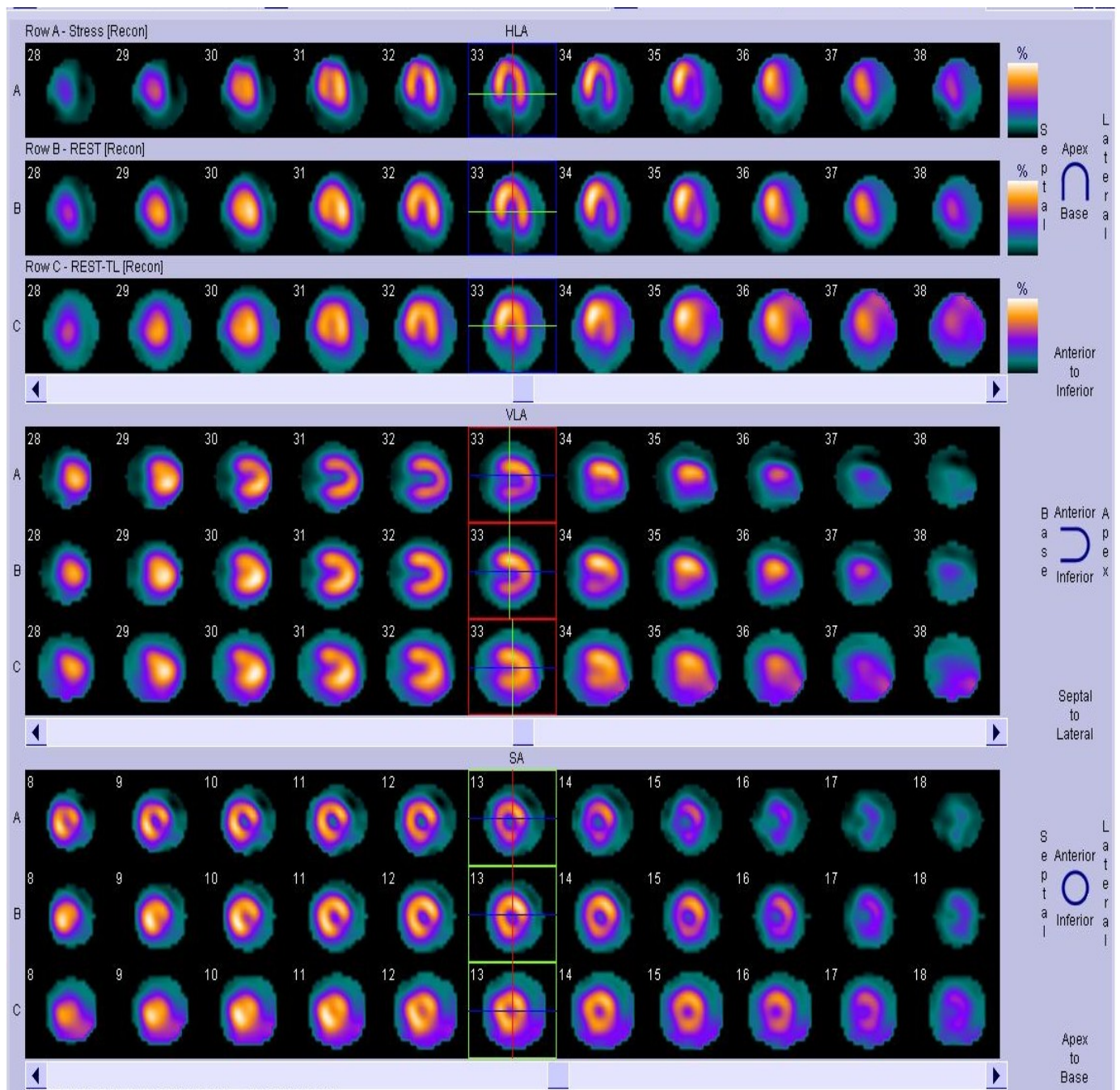
Normal stress myocardial perfusion SPECT scan ^{99m}TC -labeled with tetrofosmin (myoview) pharmacologic exercise



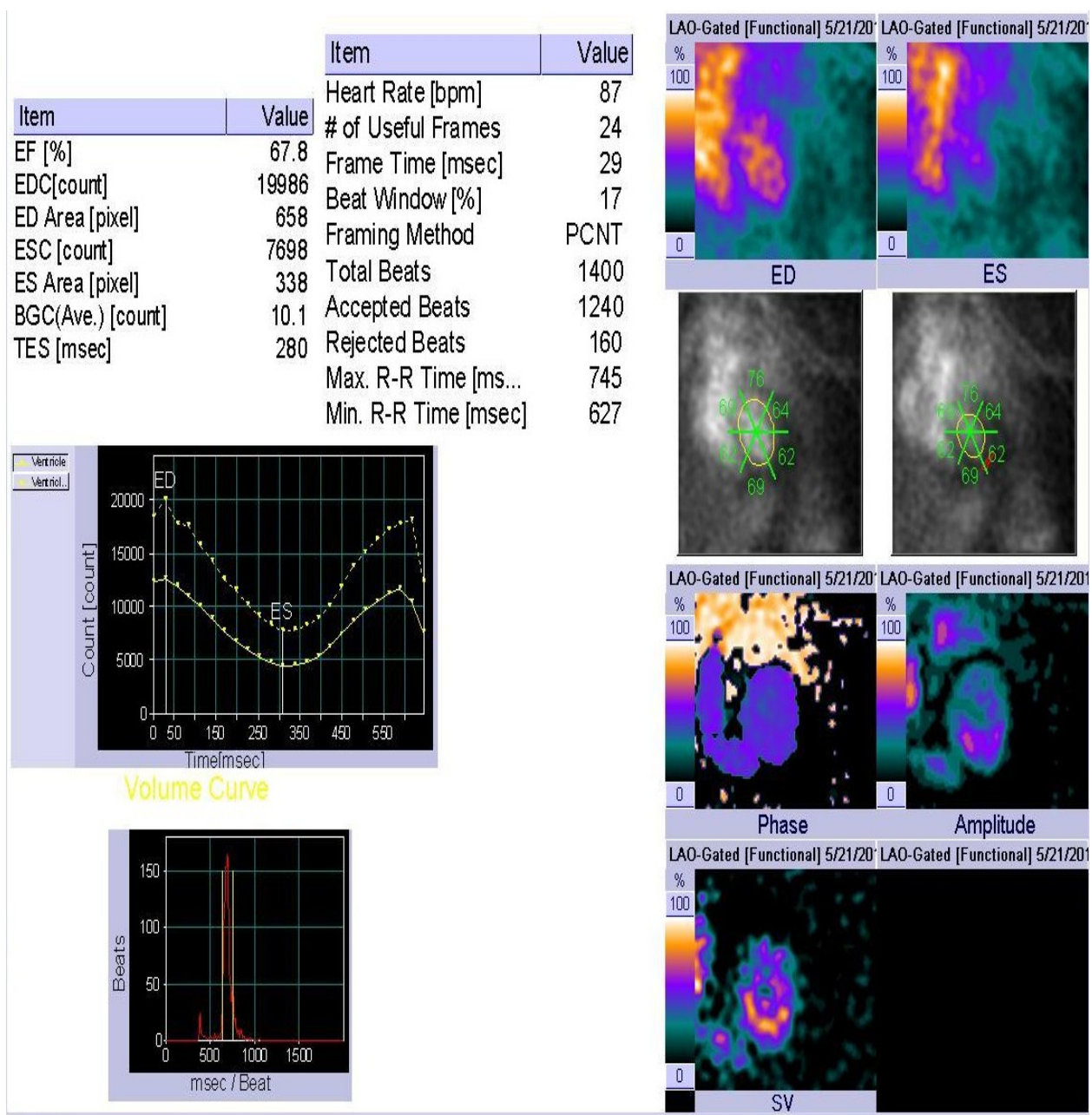
Stress / rest myocardial perfusion SPECT scan abnormal septal with low uptake at stress and normal uptake at rest (positive stress induced reversible ischemia)



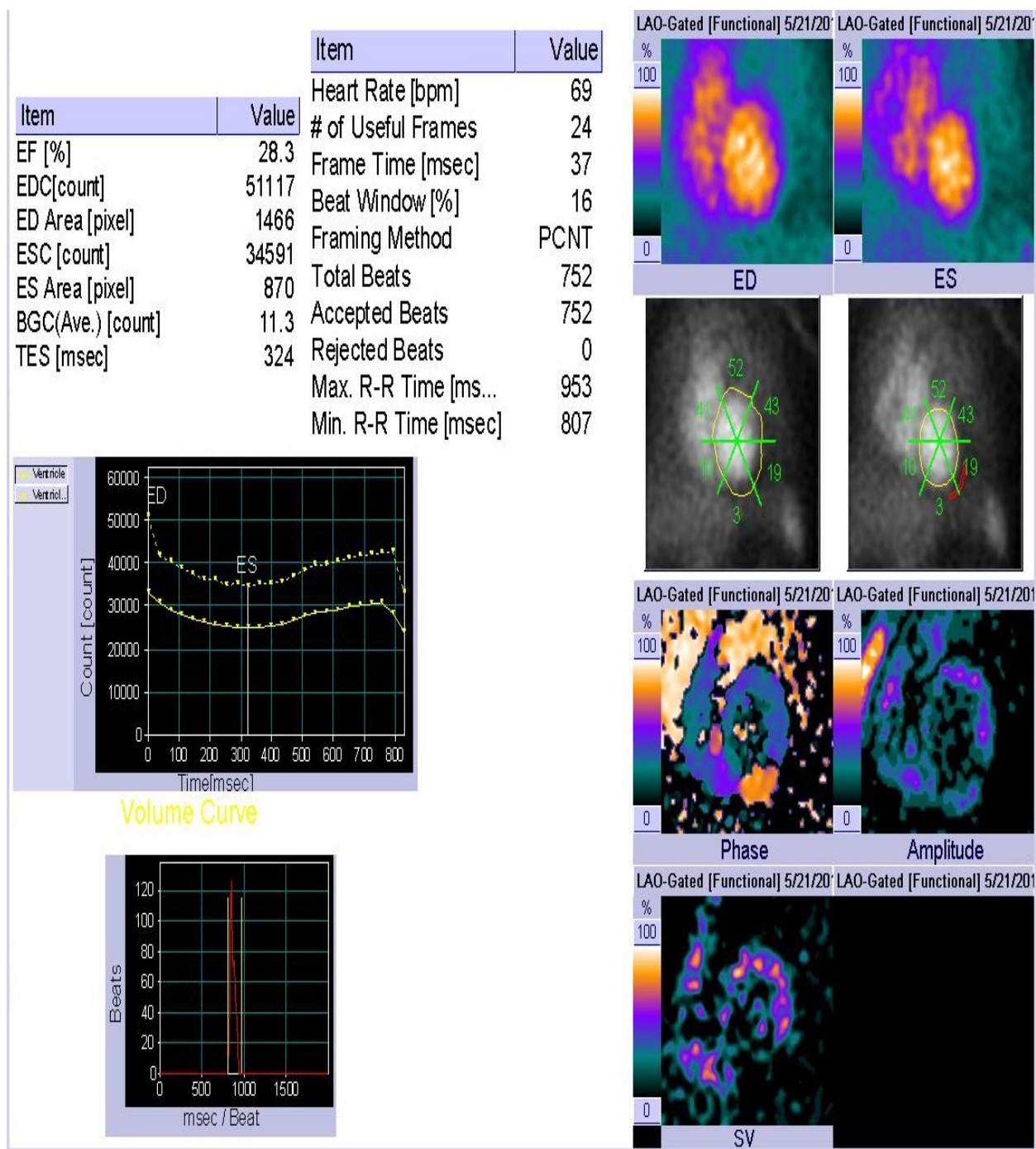
Stress / rest myocardial perfusion SPECT scan abnormal septal with low uptake at stress and normal uptake at rest (positive stress induce ischemia at rest)



Stress / Rest / Thallium myocardial perfusion SPECT scan their's abnormal uptake at stress and at rest but at thallium normal uptake that mean the myocardium muscle is viable

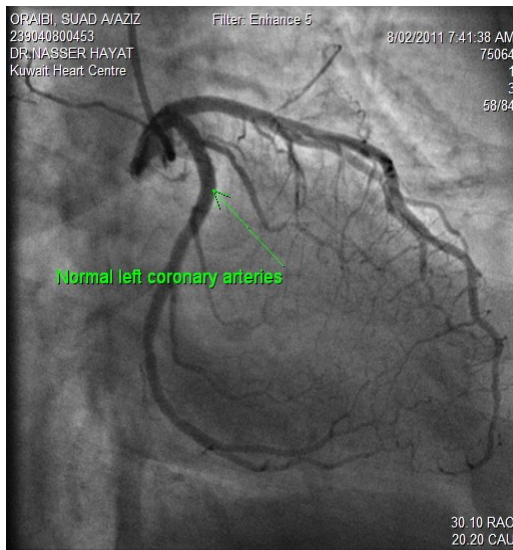


Normal LVEF 67%

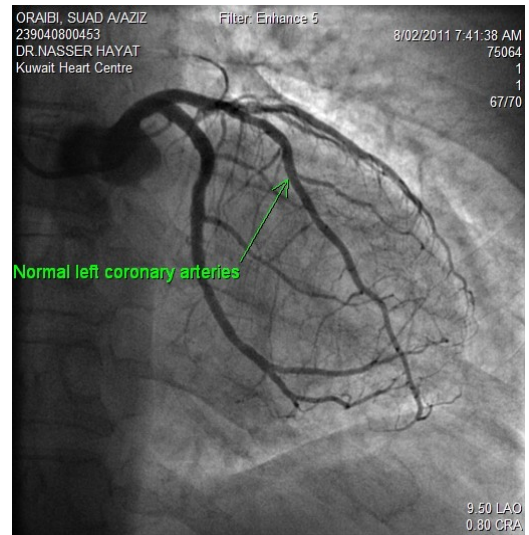


Abnormal LVEF 28%

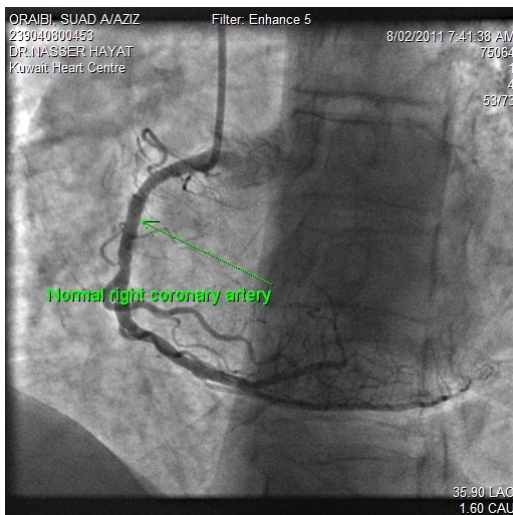
(B) coronary angiogram



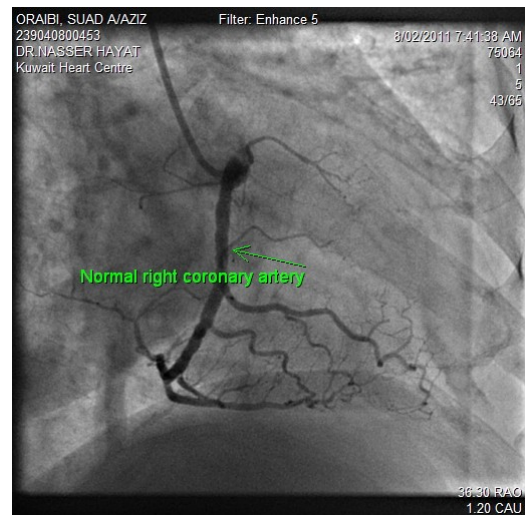
Normal left coronary arteries



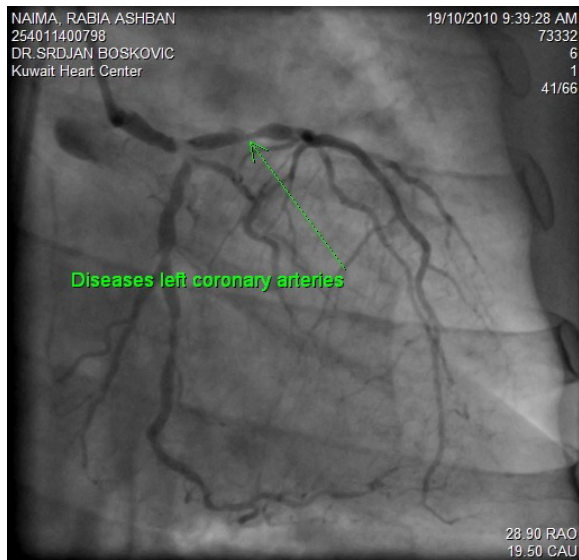
Normal left coronary arteries



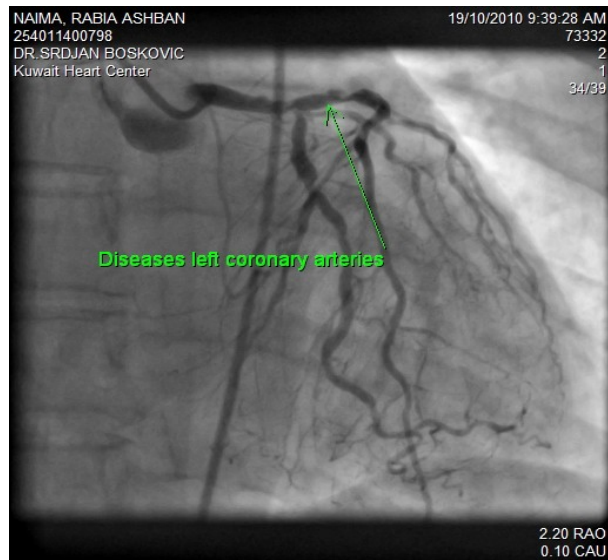
Normal right coronary arteries
coronary arteries



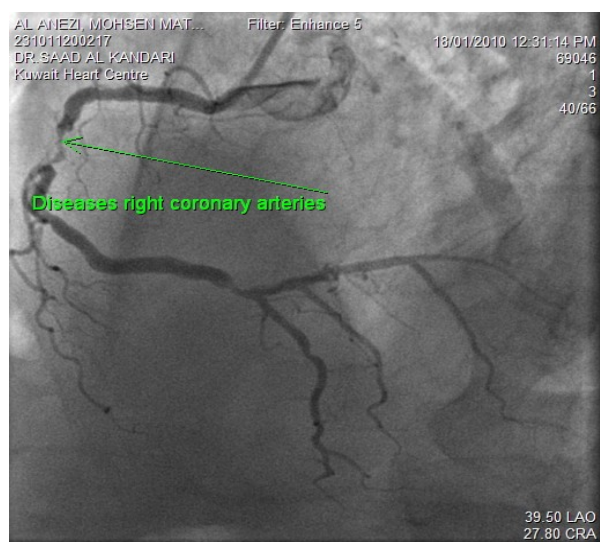
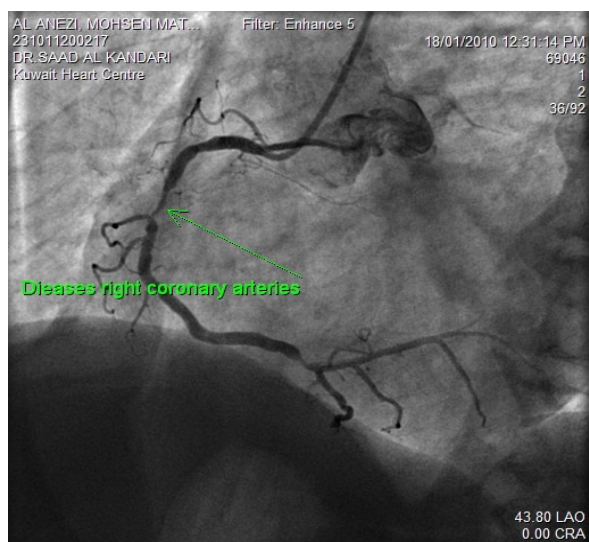
Normal right



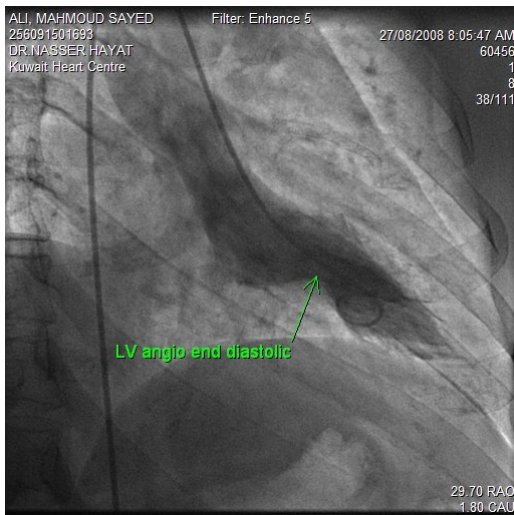
Disease left coronary arteries



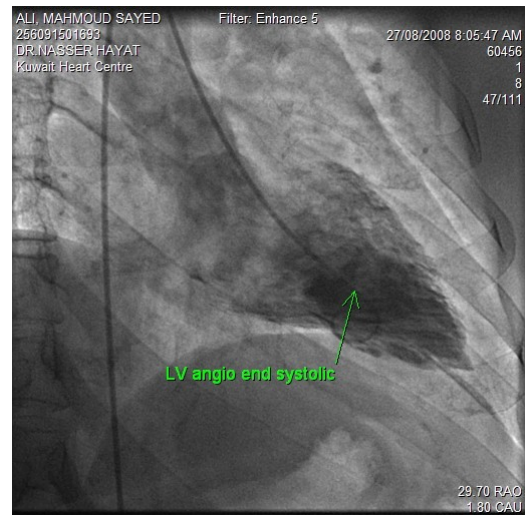
Disease left coronary arteries



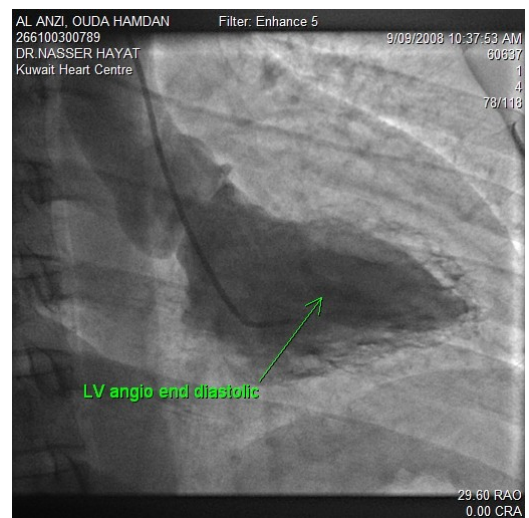
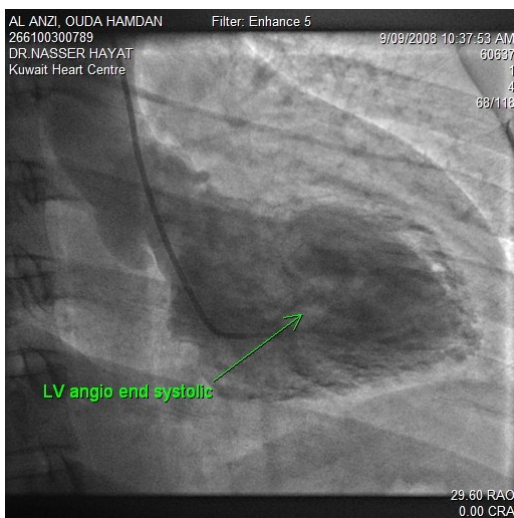
Disease right coronary arteries



Normal diastole of LV (normal LVEF) 73%



Normal systole of LV (normal LVEF) 73%



Abnormal systole of LV (abnormal LVEF) 25%

Abnormal diastole of LV (abnormal LVEF) 25%

(C) Tables

Table (5.1) Represent the average percentage of left ventricle ejection fraction (LVEF) by cath and SPECT

Method of exam	LVEF/SPECT	LVEF/Cath
Average of LVEF	50.8%	55.3%
Standard Deviation	10.6	10.7

Table (5.2) represent percentage of diseases and normal patients of CHDs in all population by using coronary angiography

	Population
Diseases	75%
Normal	25%

Table (5.3) represented the percentage of sensitivity, specificity and accuracy of MPSPECT scan in population

	Population
Sensitivity	93%
Specificity	87%
Accuracy	92%

Table (5.4) represented percentage of sensitivity, specificity and accuracy of MPSPECT scan in males and females

	Male	Female
Sensitivity	94%	91%
Specificity	81%	93%

Accuracy	91%	92%
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(5.5)Percentage of sensitivity, specificity and accuracy of myocardial perfusion SPECT scan in physical and pharmacological exercise

	physical	pharm
sensitivity	87%	98%
specificity	86%	87%
accuracy	87%	98%

Table (5.6) Percentage of diseases and normal patients of CHDs in male &female in all population using cardiac catheterization

	Male	Female
Diseases	83%	49%
Normal	17%	51%

Table (5.7) percentage of risks factor of CHDs in male and female

		Male %		Female %
MI	113	37%	29	33%
Smoking	209	69%	17	19%
hypercholostrole mia	129	42%	41	46%
HTN	193	63%	52	58%
DM	174	57%	39	43%
Chest pain	107	35%	22	25%
postive ECG	92	30%	15	17%

(5.8) table show TP, TN, FP, FN meaning

TP = Detected +ve by SPECT and Catheter
TN = Detected -ve by SPECT and Catheter
FP = Detected +ve by SPECT and -ve by Catheter
FN = Detected -ve by SPECT and +ve by Catheter

Data collection sheet

1-Gender A- Male B- Female

2- Age

3- HTN 4- DMS 5-Hyperlipidemia

6- Positive ECG 7- Chest pain

8-Myocardial perfusion SPECT:-

1-Stress :-

a-pharmacological exercise

b- treadmill exercise

2-Rest :-

3-LVEF %

4-Perfusion: - A-Normal uptake B-low uptake

C-No uptake

I-Anterior ii-inferior

iii-Lateral iv-Apical v-Septal

5-Movement of LV wall:- A-Kinetic B-A kinetic

C-Hypokinesia D- Global hypokinesia

i-Anterior ii-inferior iii-Lateral

6- Viability :- i- Viable ii- Non viable

Finding:-

1- positive 2- negative

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10-Complication:-

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11-Coronary angio :-

1- LVEF %

2- Normal 3-Disease i-1vessel ii-2vessels ii-
3vessels- Stenosis % length

Supply :-i- Ant ii- Inf iii- Lat iv-Sep vii-Apic

4- Movement of the wall :- A-Kinetic B- A kinetic

C-Hypokinezia D- Gloplhypokinezia

i- Ant ii- Inf iii- Lat

finding :-

1-positive 2- negative

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5- Complication:-

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