# Advanced 12 Lead EKG Practice Strips



CARDIAC CLINICAL NURSE SPECIALIST

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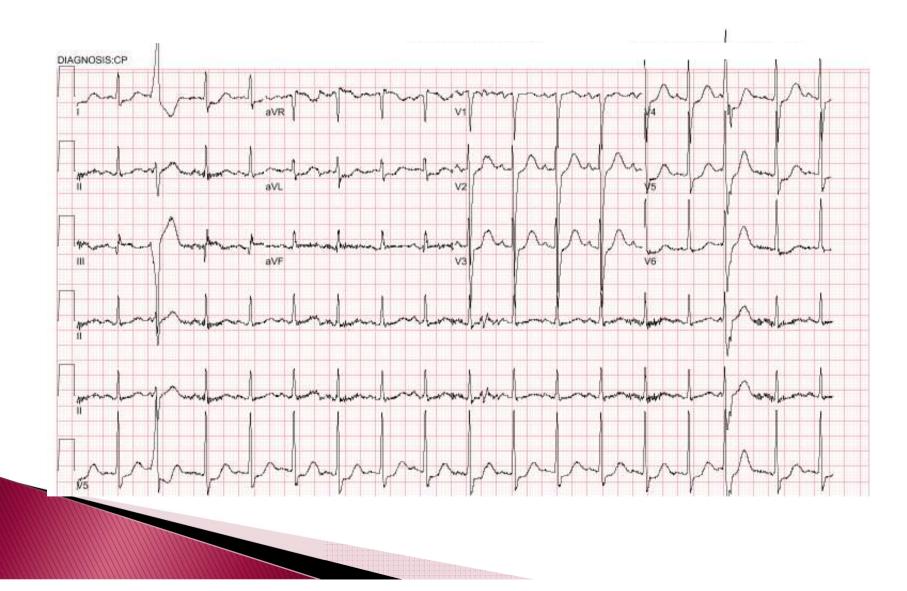
# For each EKG identify

- Axis deviation
- Bundle branch block
- Hemiblock
- Atrial enlargement
- Ventricular hypertrophy

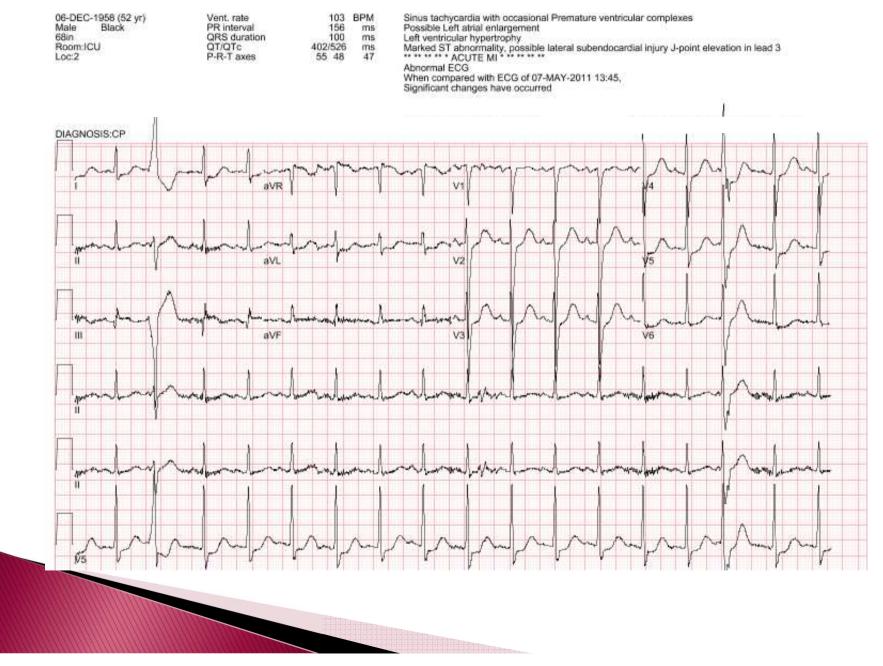


#### EKG 1

06-DEC-1958 (52 yr)	Vent. rate	103	BPM
Male Black	PR interval	156	ms
68in	QRS duration	100	ms
Room:ICU	QT/QTc	402/526	ms
Loc:2	P-R-T axes	55 48	47

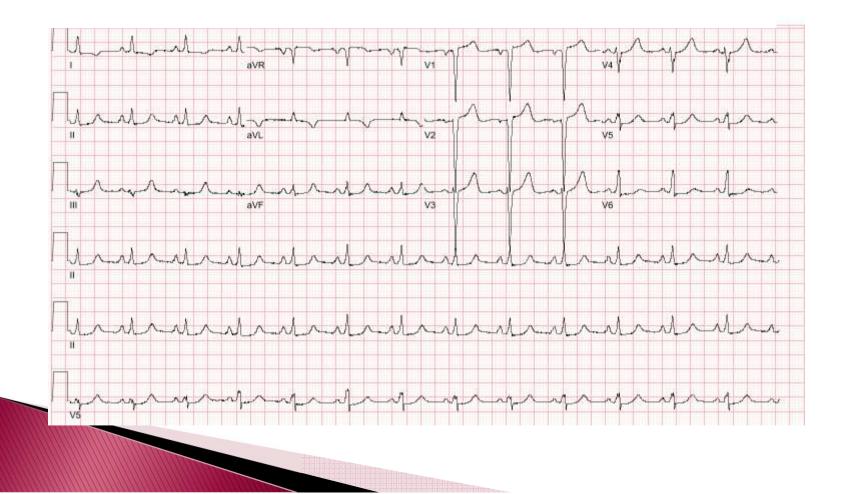


#### **EKG 1Answer**



#### EKG 2

17-FEB-1971 (40 yr)	Vent, rate	79	BPM
Female Caucasian	PR interval	144	ms
61in	QRS duration	96	ms.
Room:C512	QT/QTc	416/477	ms
Loc:2	P-R-T axes	56 28	107



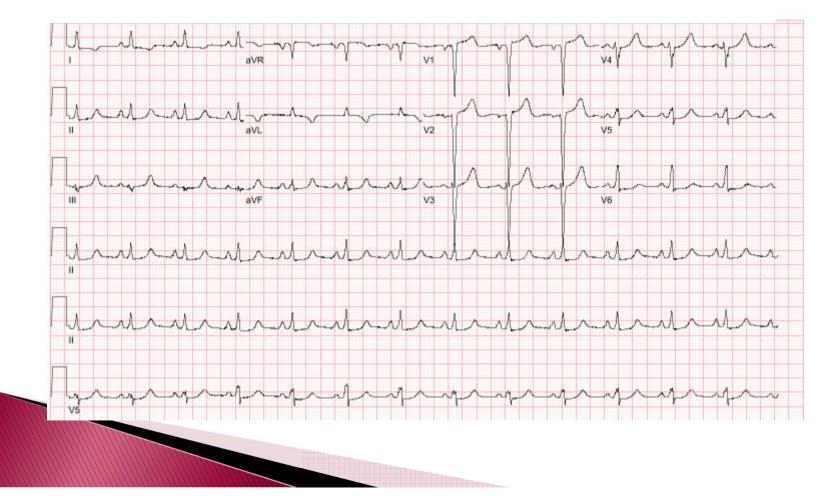
#### **EKG 2 Answer**

61in QRS duration 96 ms ST & T wave abn   Room:C512 QT/QTc 416/477 ms Prolonged QT   Loc:2 P-R-T axes 56 28 107 Abnormal ECG	atrial enlargement abnormality, conside T
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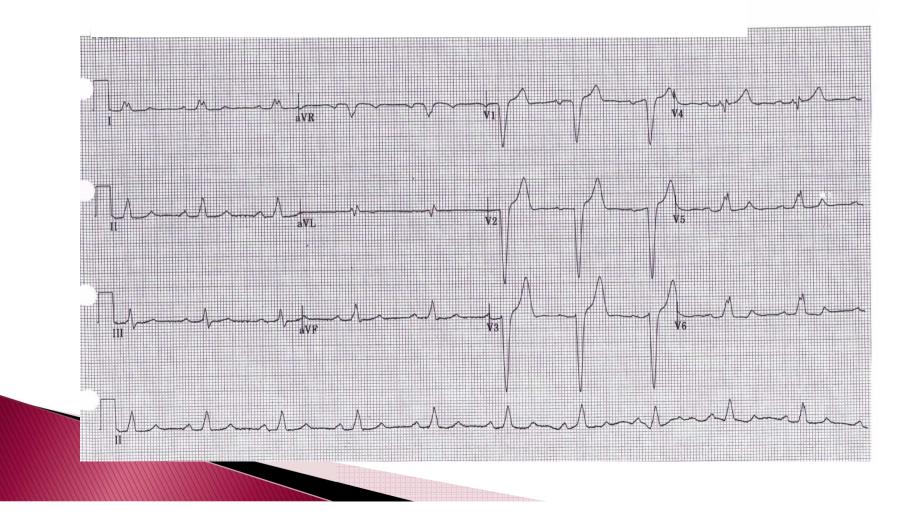
T wave abnormality, consider lateral ischemia wrged QT wrnal ECG

When compared with ECG of 06-JUN-2011 12:05, Nonspecific T wave abnormality no longer evident in Inferior leads T wave inversion less evident in Lateral leads

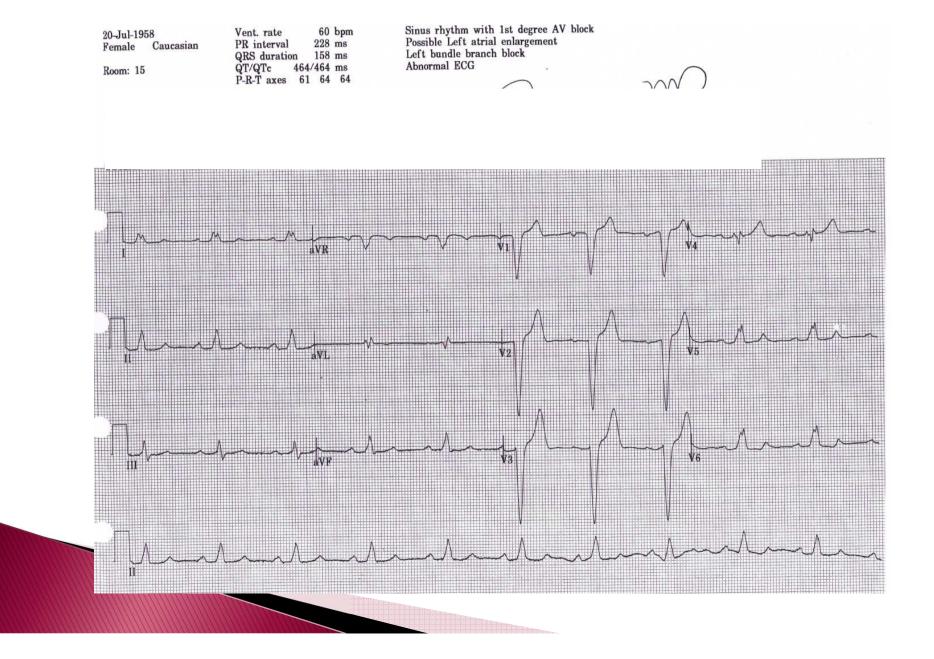




20-Jul-1958	Vent. rate	60	bpm
Female Caucasian	PR interval	228	ms
T children	QRS duration	158	ms
Room: 15	QT/QTc 46	4/464	ms
1000111. 10	P-R-T axes 6	1 64	64

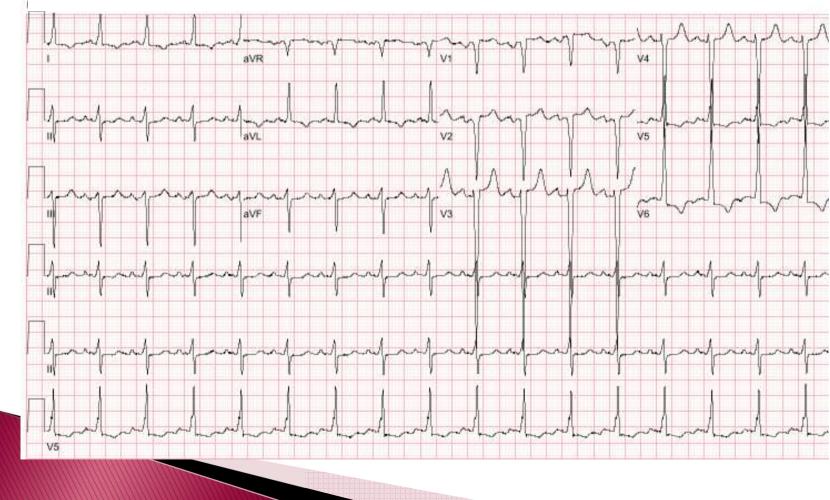


#### EKG #3 Answer



EKG #4

t. rate 100 BPM
interval 208 ms
3 duration 94 ms
QTc 370/477 ms
-Taxes 65 -42 134

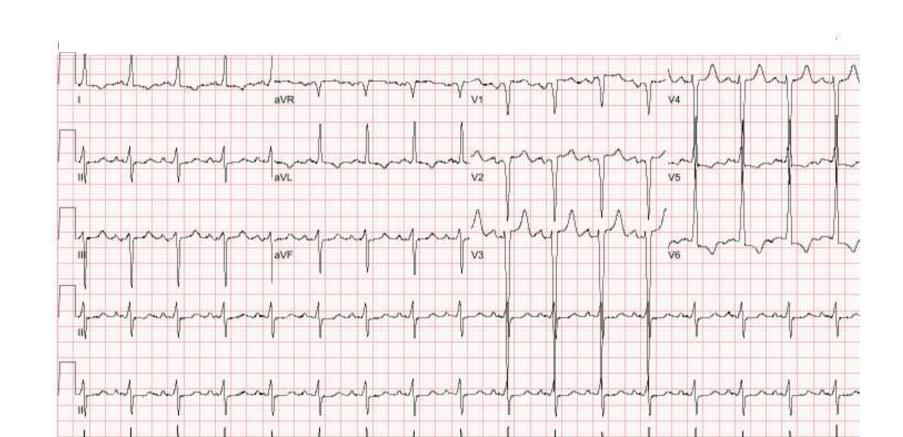


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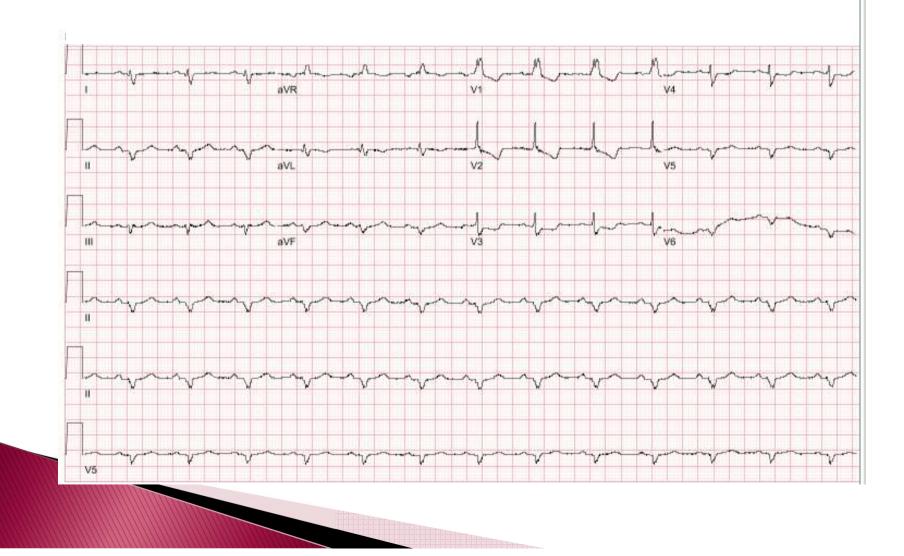
#### EKG #4 Answer

V5

24-JUL-1967 (43 yr)	Vent. rate	208	BPM	Normal sinus rhythm
Male Caucasian	PR interval		ms	Possible Left atrial enlargement
Room:CVIC Loc:8	QRS duration QT/QTc P-R-T axes	94 370/477 65 -42	ms 134	Left axis deviation Left ventricular hypertrophy with repolarization abnormality Cannot rule out Septal infarct (cited on or before 05-APR-2011) When compared with ECG of 05-APR-2011 00:20, Nonspecific T wave abnormality no longer evident in Inferior leads



22-DEC-1953 (57 yr) Female Caucasian 87in Room:CVIC Loc:5	Vent. rate PR interval QRS duration QT/QTc P-R-T axes	80 158 124 412/475 54 236	BPM ms ms 82
LOG:5	P-PC-1 axes	04 200	04



#### EKG #5 Answer

22-DEC-1953 (57 yr)	Vent. rate	80 E	31
Female Caucasian	PR interval	158	
87in	QRS duration	124	
Room:CVIC	QT/QTc	412/475	
Loc:5	P-R-T axes	54 236	

80	BPM	No
158	ms	Rid
124	ms	La
412/475	ms	W
54 236	82	No

- Normal sinus rhythm Right bundle branch block Lateral infarct (cited on or before 25-APR-2011) When compared with ECG of 26-APR-2011 06:00, No significant change was found
- h: ¥4 aVR Vi 1 11 aVL V2 V5 10 aVF V3 V6 11 H V V ν V5

20-JUL-1958 (52 yr)	Vent. rate	54	BPM
Female Caucasian	PR interval	202	ms
95in	QRS duration	160	ms
Room:	QT/QTc	496/470	ms
Loc:59	P-R-T axes	105 76	53

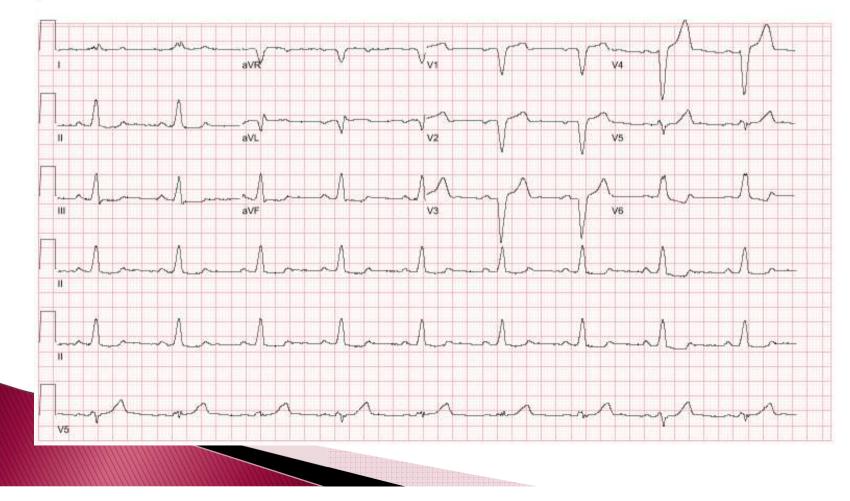
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### EKG #6 Answer

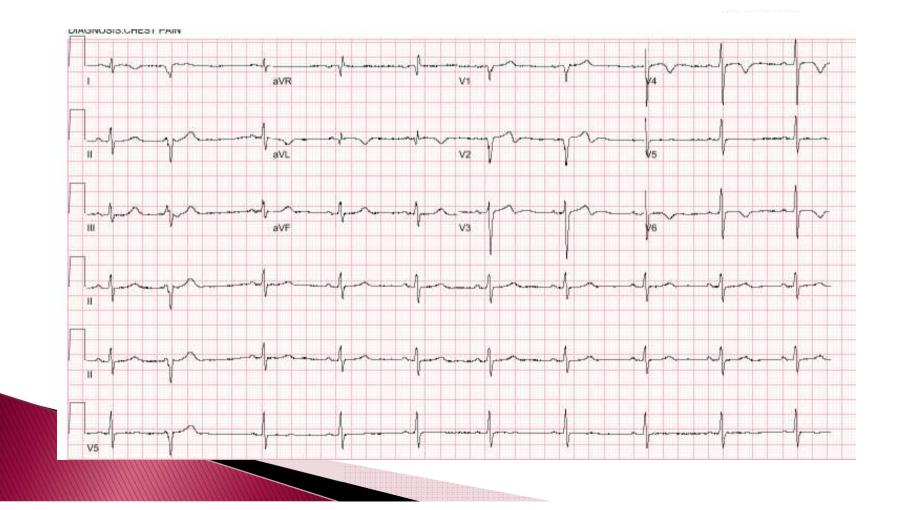
20-JUL-1958 (52 yr)	Vent. rate	54	BPM	3
Female Caucasian	PR interval	202	ms	Sinus bradycardia
95in	QRS duration	160	ms	Left bundle branch block
Room:	QT/QTc	496/470	ms	Abnormal ECG
Loc:59	P-R-T axes	105 76	53	No previous ECGs available





#### EKG #7 CS #1

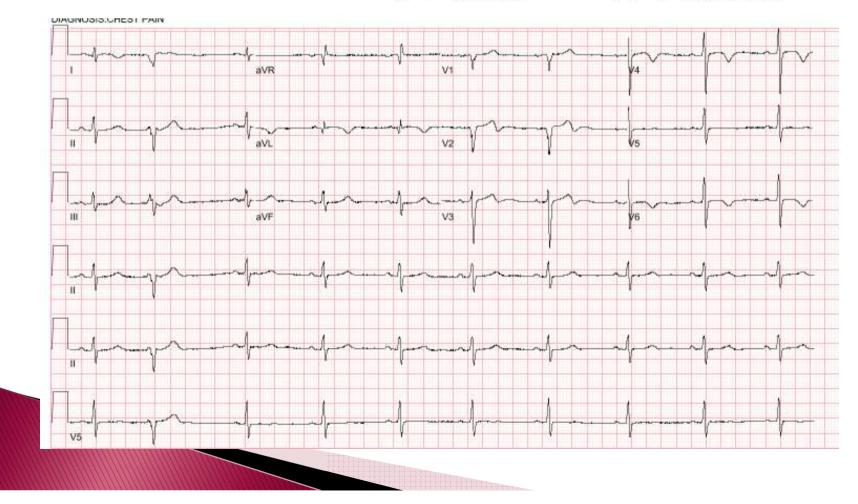
10-MAR-1964 (47 yr)	Vent. rate	59	BPM
Male Caucasian	PR interval	162	ms
	QRS duration	100	ms
Room:CVIC	QT/QTc	450/445	ms
Loc:5	P-R-T axes	41 116	113



### EKG #7 CS #1Answer

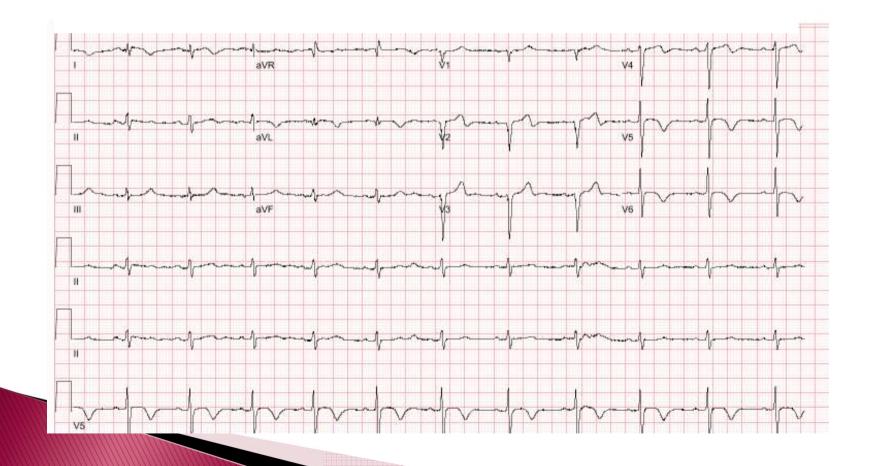
10-MAR-1964 (47 yr) Male Caucasian	Vent. rate PR interval	59 162	BPM ms	Sinus bradycardia with occasional Premature ventricular complexes Right axis deviation
Room:CVIC Loc:5	QRS duration QT/QTc P-R-T axes	100 450/445 41 116	ms ms 113	Pulmonary disease pattern Septal infarct (cited on or before 17-JUN-2011) T wave abnormality, consider lateral ischemia
				Abnormal ECG When compared with ECG of 17-JUN-2011 11:29, Premature vertricular complexes are now Present

Left anterior fascicular block is no longer Present Serial changes of Septal infarct Present



### EKG #8 CS #2

10-MAR-1964 (47 yr)	Vent. rate	68	BPM
Male Caucasian	PR interval	168	ms
	QRS duration	98	ms
Room:CVIC	QT/QTc	450/478	ms
Loc:5	P-R-T axes	44 170	118



### EKG #8 CS #2 Answer

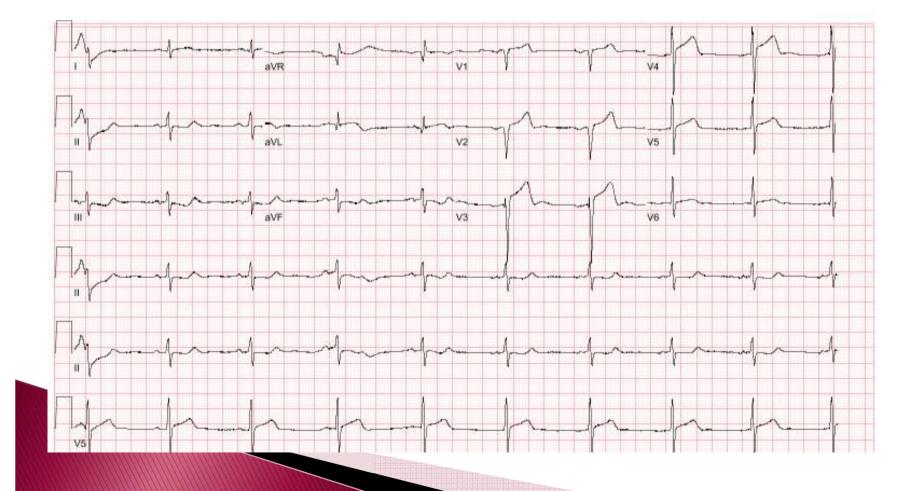
10-MAR-1964 (47 yr)	Vent. rate	68	BPM	Normal sinus rhythm
Male Caucasian	PR interval	168		Right axis deviation
Room:CVIC Loc:5	QRS duration QT/QTc P-R-T axes	98 450/478 44 170	10.000	Septal infarct (cited on or before 17-JUN-2011) T.wave abnormality, consider lateral ischemia Abnormal ECG When compared with ECG of 17-JUN-2011 16:17, No significant change was found

V. V4 aVR 1 11 aVL ¥5 12 ш V6 aVF 1/3 11 11 V5

> Admitted for Chest pain. Plan for angio. Signed out AMA

### EKG #9 CS #3

10-MAR-1964 (47 yr)	Vent, rate	55 BPM	
Male Caucasian	PR interval	176 ms	
78in	QRS duration	96 ms	
Room:TRB	QT/QTc	410/392 ms	
Loc:2	P-R-T axes	-41 -40 -30	



### EKG #9 CS #3 Answer

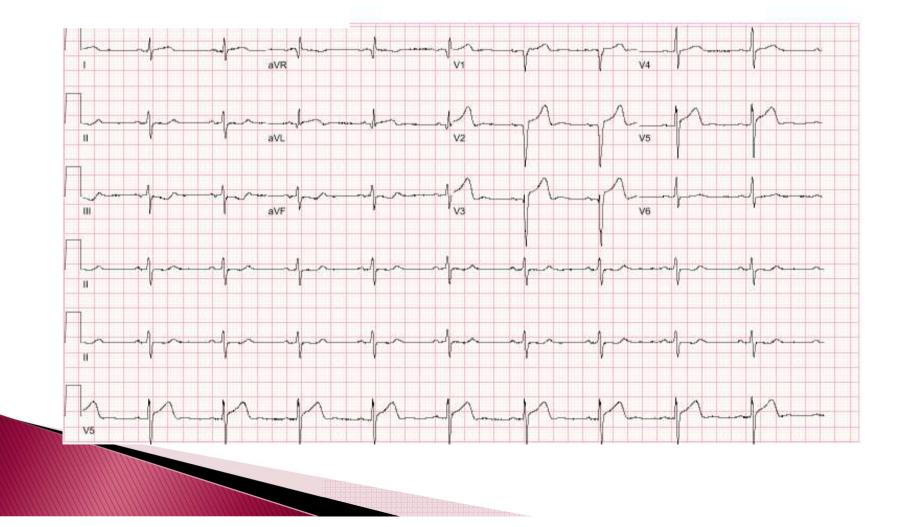
10-MAR-1964 (47 yr) Male Caucasian 78in Room:TRB Loc:2	Vent. rate PR Interval QRS duration QT/QTc P-R-T axes	55 176 96 410/392 -41 -40	BPM ms ms -30	Unusual P axis, possible ectopic atrial bradycardia Left axis deviation Anteroseptal infarct (cited on or before 17-JUN-2011) ACUTE MI Abnormal ECG When compared with ECG of 18-JUN-2011 05:02,
				Significant changes have occurred

V1 aVR V4 aVL 11 V2 V5 aVF V6 111 V3 II. 11 Readmitted 3 hours later. Stent to LAD 

### EKG #10 CS #4

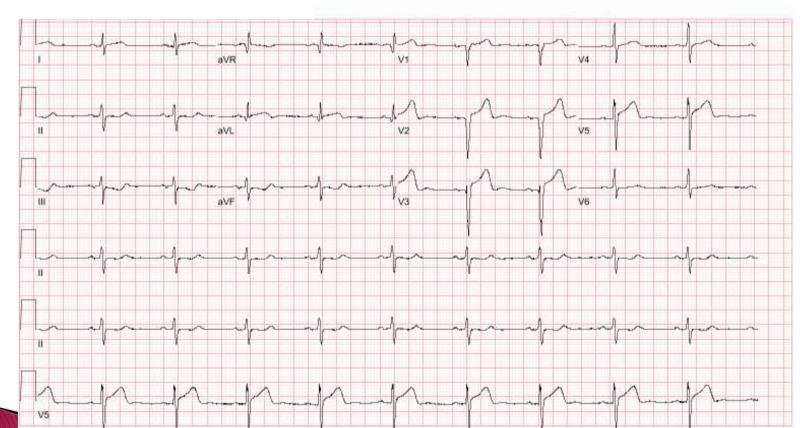
47 yr Male		Vent. rate	59	BPM
Male	Caucasian	PR interval	164	ms
78in		QRS duration	100	ms
Room:B		QT/QTc	408/403	ms
Loc:2		P-R-T axes	39 -63	-23
			00 00	

이는 것 같아요. 이렇는 것 같아요. 물건을 가지 않는 것 같아요. 물건



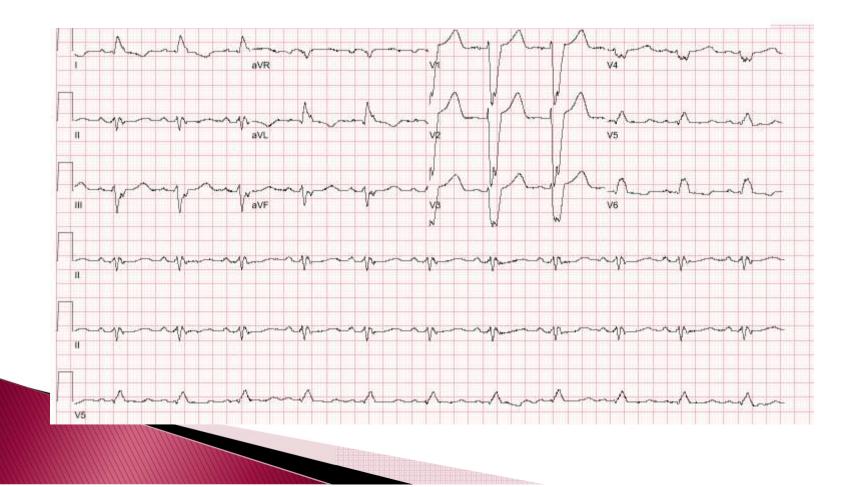
### EKG #10 CS #4 Answer

47 yr Male 78in Room:B Loc:2	Caucasian	Vent. rate PR interval QRS duration QT/QTc P-R-T axes	59 164 100 408/403 39 -63	BPM ms ms -23	Sinus bradycardia Left anterior fascicular block Anteroseptal infarct (cited on or before 17-JUN-2011) ****** ACUTE MI******* Abnormal ECG When compared with ECG of 22-JUN-2011 23:02, Sinus mythm has replaced Ectopic atrial mythm Serial changes of Anteroseptal infarct Present
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D/C two days ago after stent to LAD. Then presented to ED with chest pain and this EKG. Angio: subacute stent thrombosis. Aspiration thrombectomy and stenting of LAD

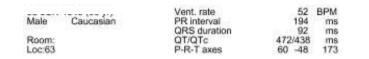
05-SEP-1942 (68 yr)	Vent. rate	68 BPM
Male Caucasian	PR interval	190 ms
113in	QRS duration	206 ms
Room:CVIC	QT/QTc	574/610 ms
Loc:5	P-R-T axes	56 -39 121



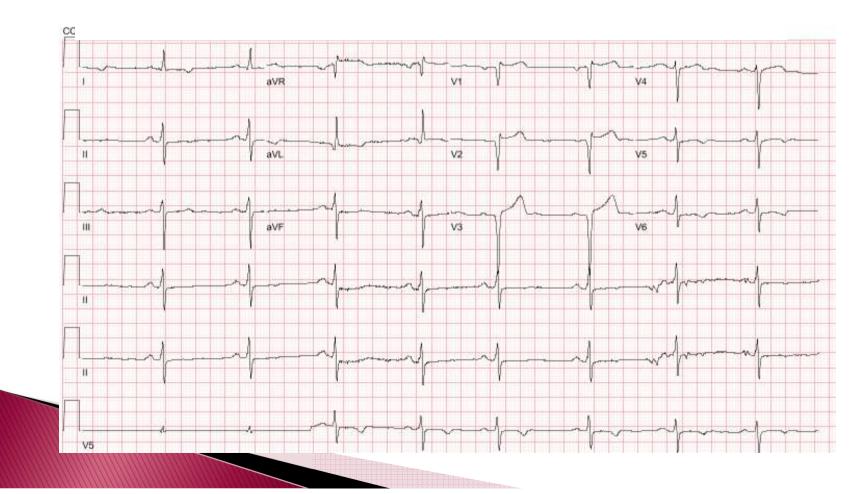
#### EKG #11Answer

05-SEP-1942 (68 yr) Male Caucasian 113in Room:CVIC Loc:5	Vent. rate PR interval QRS duration QT/QTc P-R-T axes	68 190 206 574/610 56 -39	ms ms	Normal sinus rhythm Left axis deviation Left bundle branch block Abnormal ECG When compared with ECG of 05-JUL-2011 13:44, No significant change was found	
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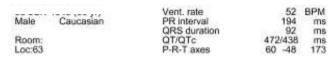




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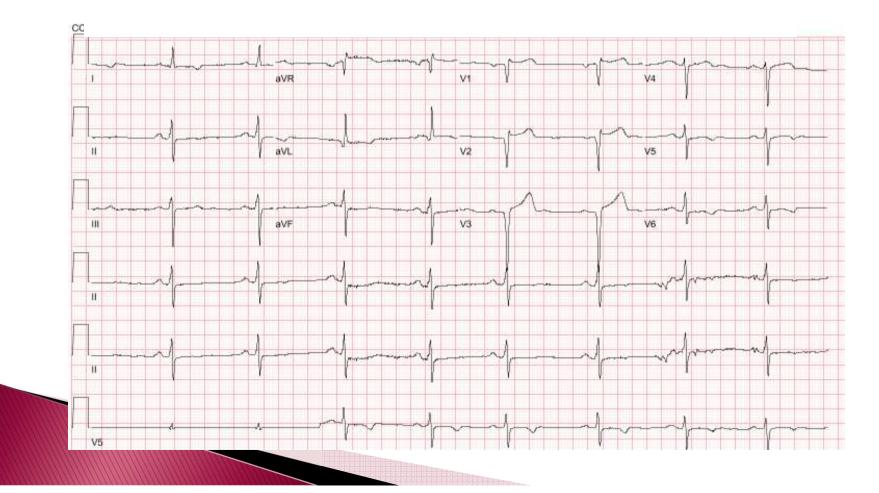


### EKG #12 Answer

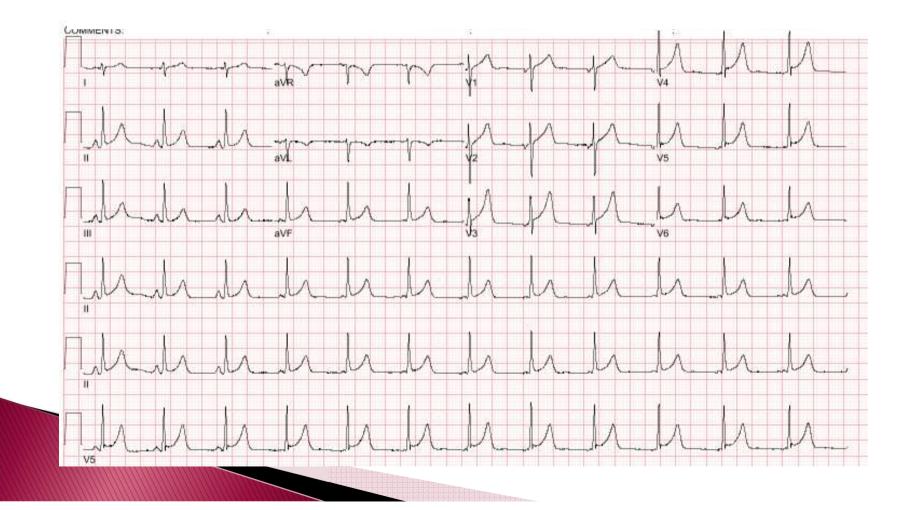


\*\*\* Poor data quality, interpretation may be adversely affected Sinus bradycardia Possible Left atrial enlargement Left anterior fascicular block Left ventricular hypertrophy Anteroseptal infarct (cited on or before 30-JUN-2003) ST & T wave abnormality, consider lateral ischemia Abnormal ECG



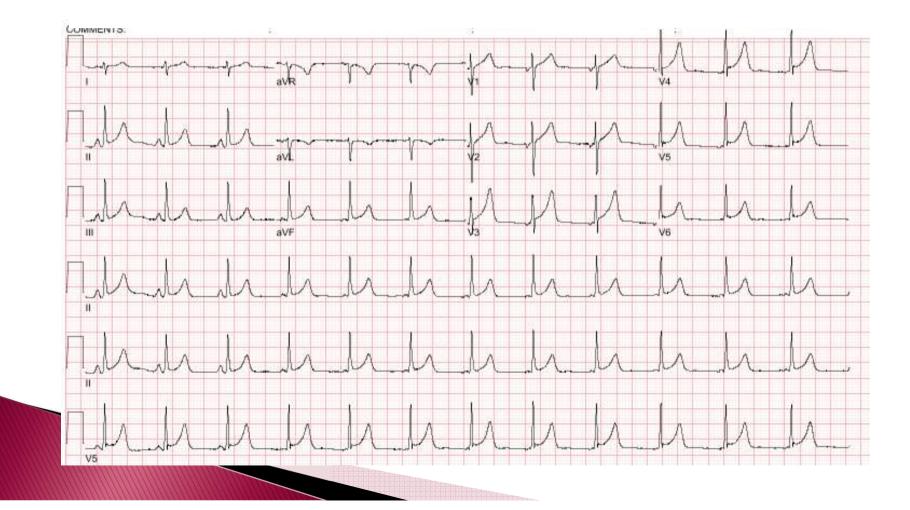


	Vent. rate	73 8	BPM
Female Caucasian	PR interval	80	ms
	QRS duration	66	ms
Room:ICU14	QT/QTc	370/407	ms
Loc:1	P-R-T axes	85 92	74

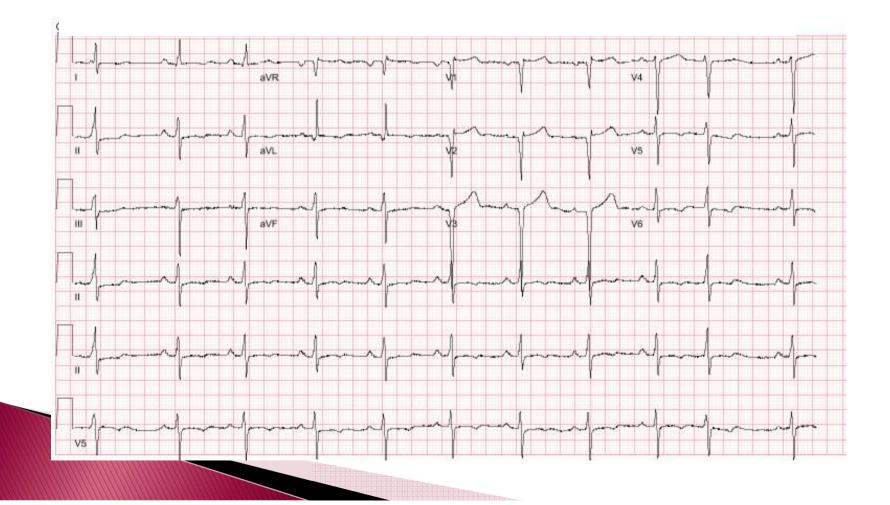


### EKG # 13 Answer

Female Caucasian	Vent. rate PR interval	73	BPM	Sinus rhythm with short PR Rightward axis
Room:ICU14	QRS duration QT/QTc	66 370/407	ms ms	Consider Pericarditis When compared with ECG of 09-OCT-1992 11:17,
Loc:1	P-R-T axes	85 92	74	Diffuse ST elevation is noted

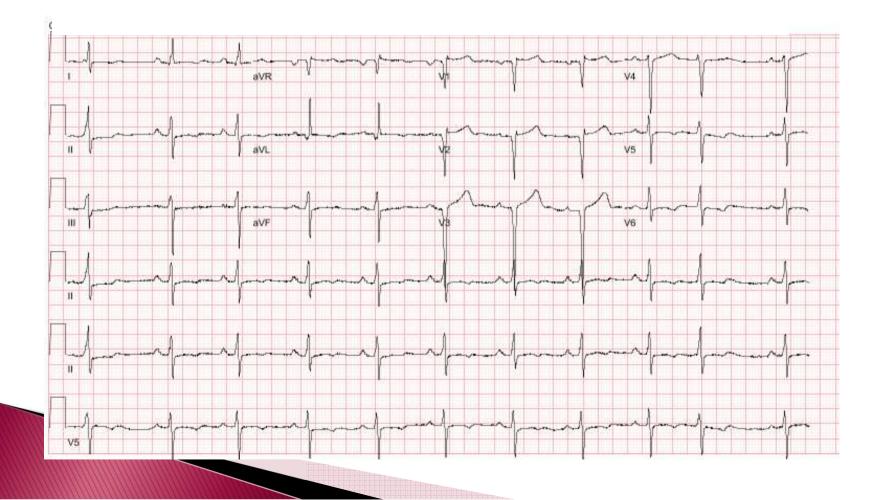


1		Vent, rate	64	BPM	
Male	Caucasian	PR interval	200	ms	
		QRS duration	104	ms	
Room:G		QT/QTc	462/476	ms	
Loc:63		P-R-T axes	42 -34	67	

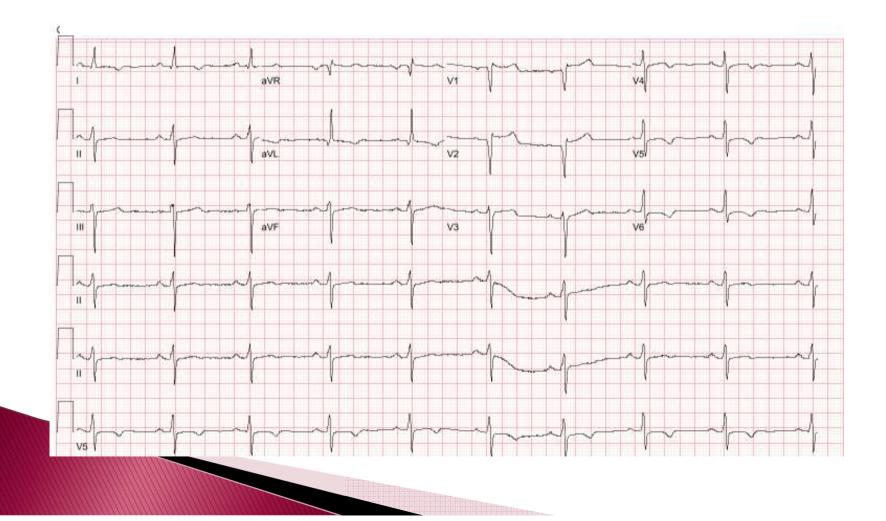


### EKG #14 Answer

(	Vent. rate	64	BPM	Sinus mythm with Premature supraventricular complexes
Male Caucasian	PR interval	200		Left axis deviation
Room:G Loc:63	QRS duration QT/QTc P-R-T axes	104 462/476 42 -34	ms ms 67	Incomplete right bundle branch block Anteroseptal infarct (cited on or before 30-JUN-2003) ST & T wave abnormality, consider lateral ischemia Abnormal ECG



		Vent. rate	55	BPM
Male	Caucasian	PR interval	192	ms
		QRS duration	96	ms
Room:		QT/QTc	468/447	ms.
Loc:63		P-R-T axes	53 -58	138

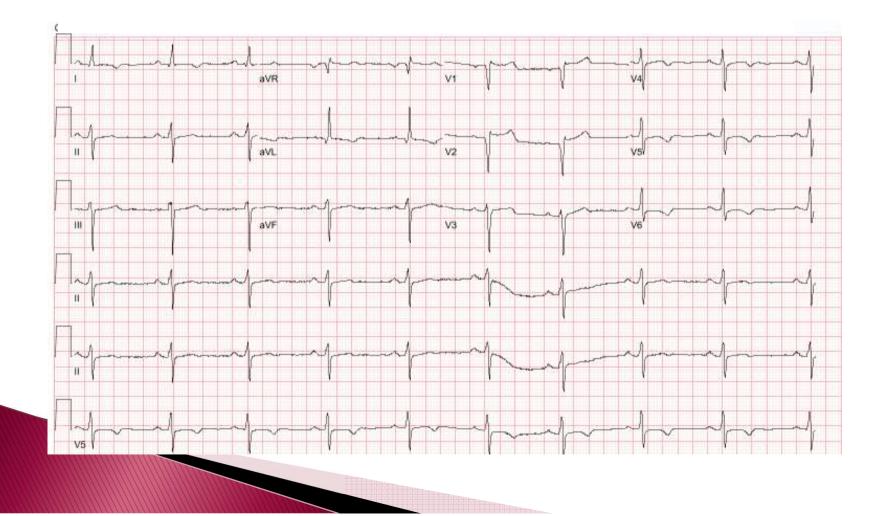


### EKG #15 Answer

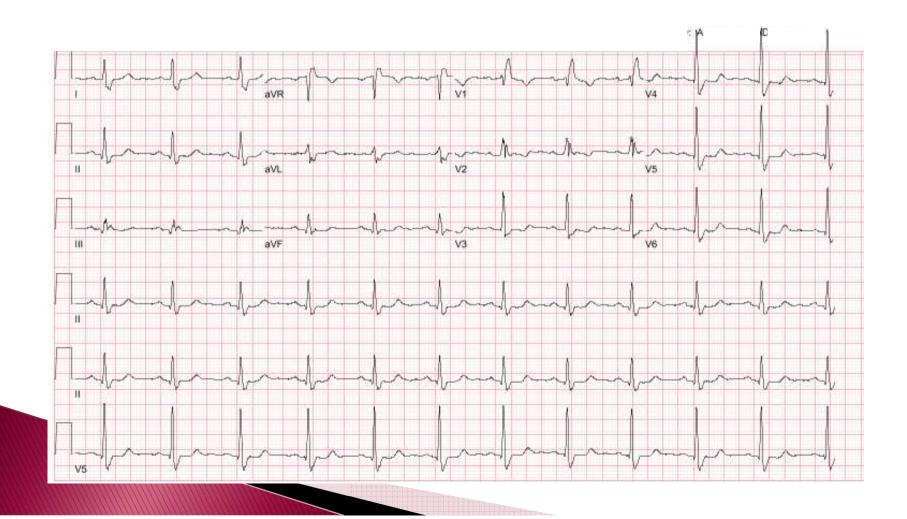
Male Caucasian	Vent. rate PR interval	55 BPM 192 ms	Sinus bradycardia Left anterior fasci
mane costation	ORS duration	96 ms	Minimal voltage c
Room:	QT/QTc	468/447 ms	Septal infarct, ag
Loc:63	P-R-T axes	53 -58 138	ST & T wave abn Abnormal ECG

ia.

cicular block age undetermined onormality, consider lateral ischemia

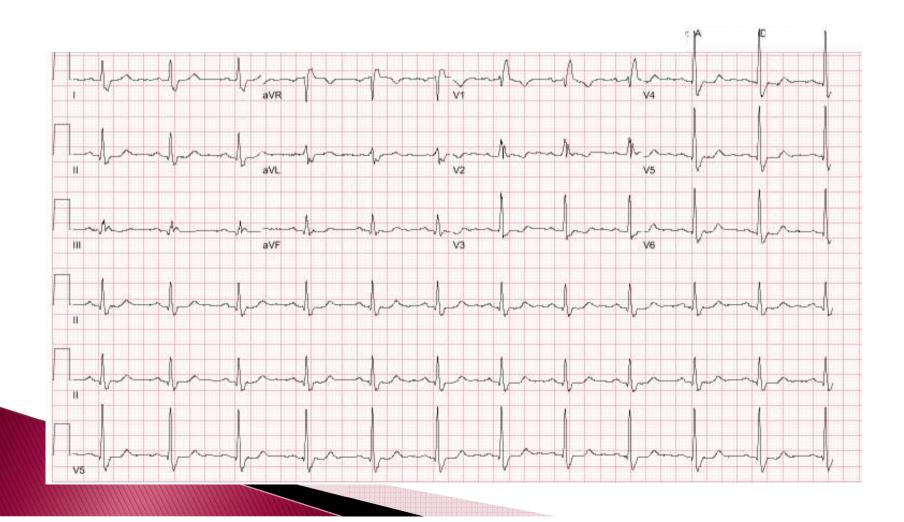


68 yr	Caucasian	Vent. rate	69	BPM
Male		PR interval	182	ms
Room: Loc:99		QRS duration QT/QTc P-R-T axes	150 440/471 59 55	ms ms 34

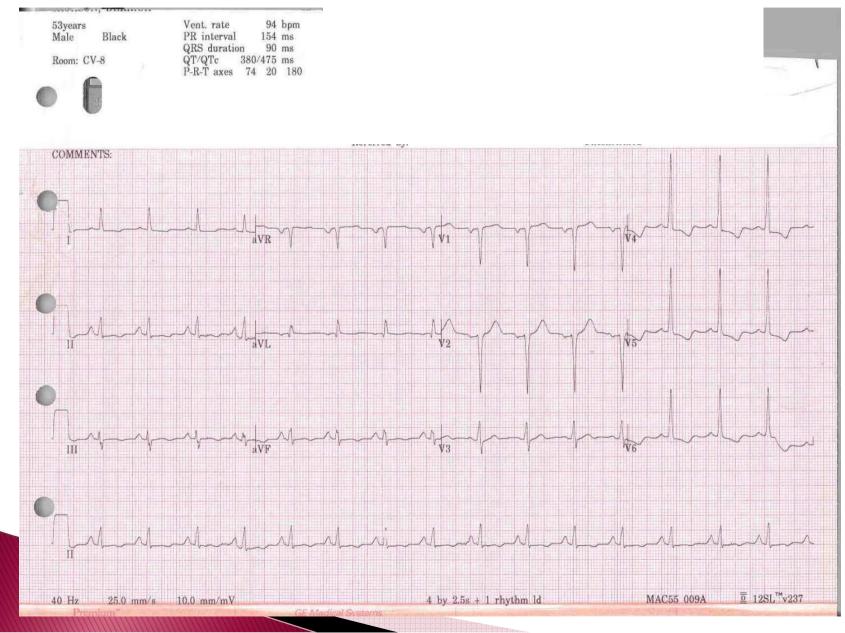


# EKG #16 Answer

68 yr Male Ca	lucasian	Vent. rate PR interval	69 182	BPM ms	Normal sinus rhythm Right bundle branch block
Room:		QRS duration OT/OTc	150	ms	Abnormal ECG No change From 2/14/97
Loc:99		P-R-T axes	59 55	34	the change i former have







# EKG #17 Answer

