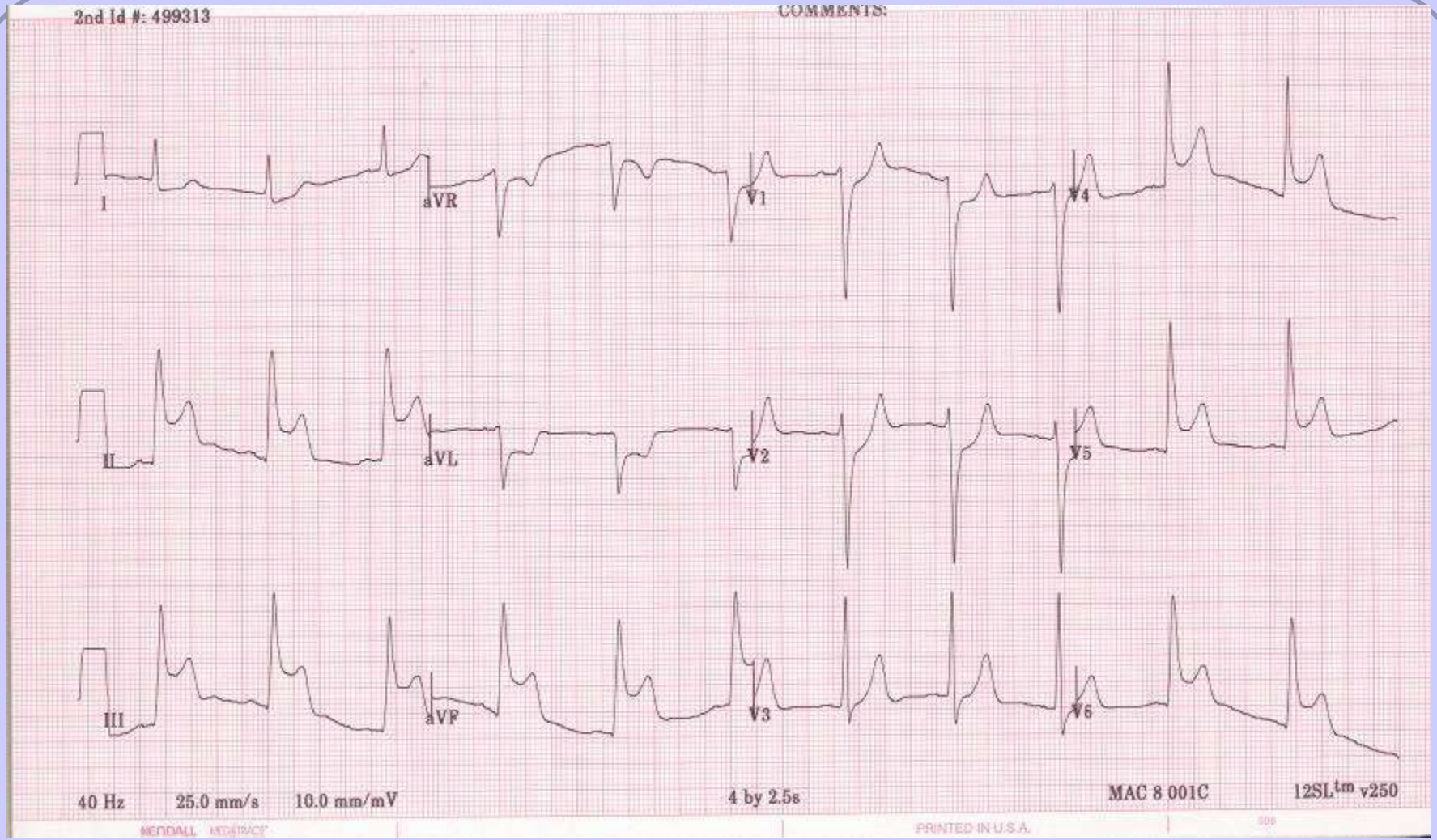
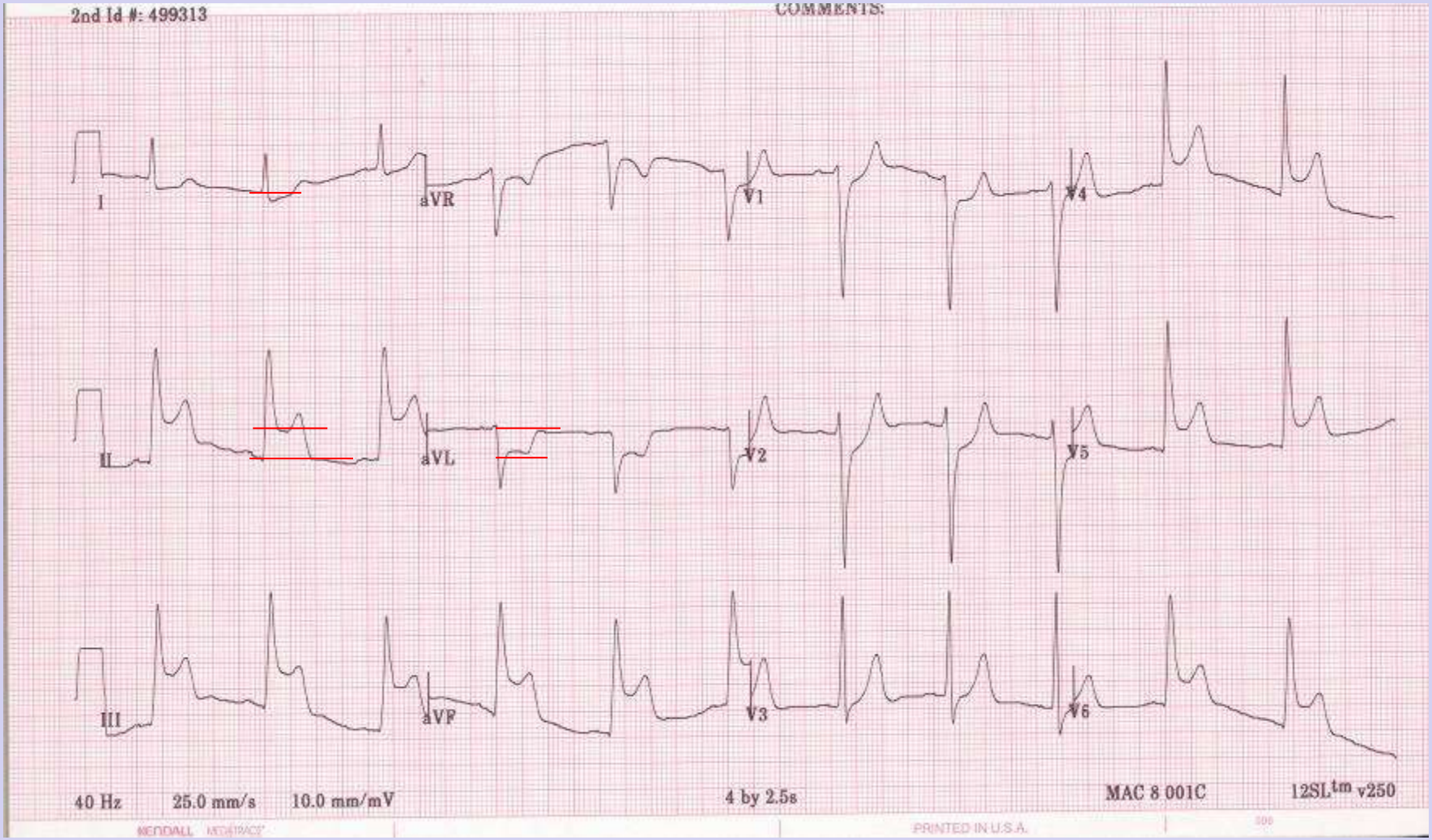
Example & Analysis Time

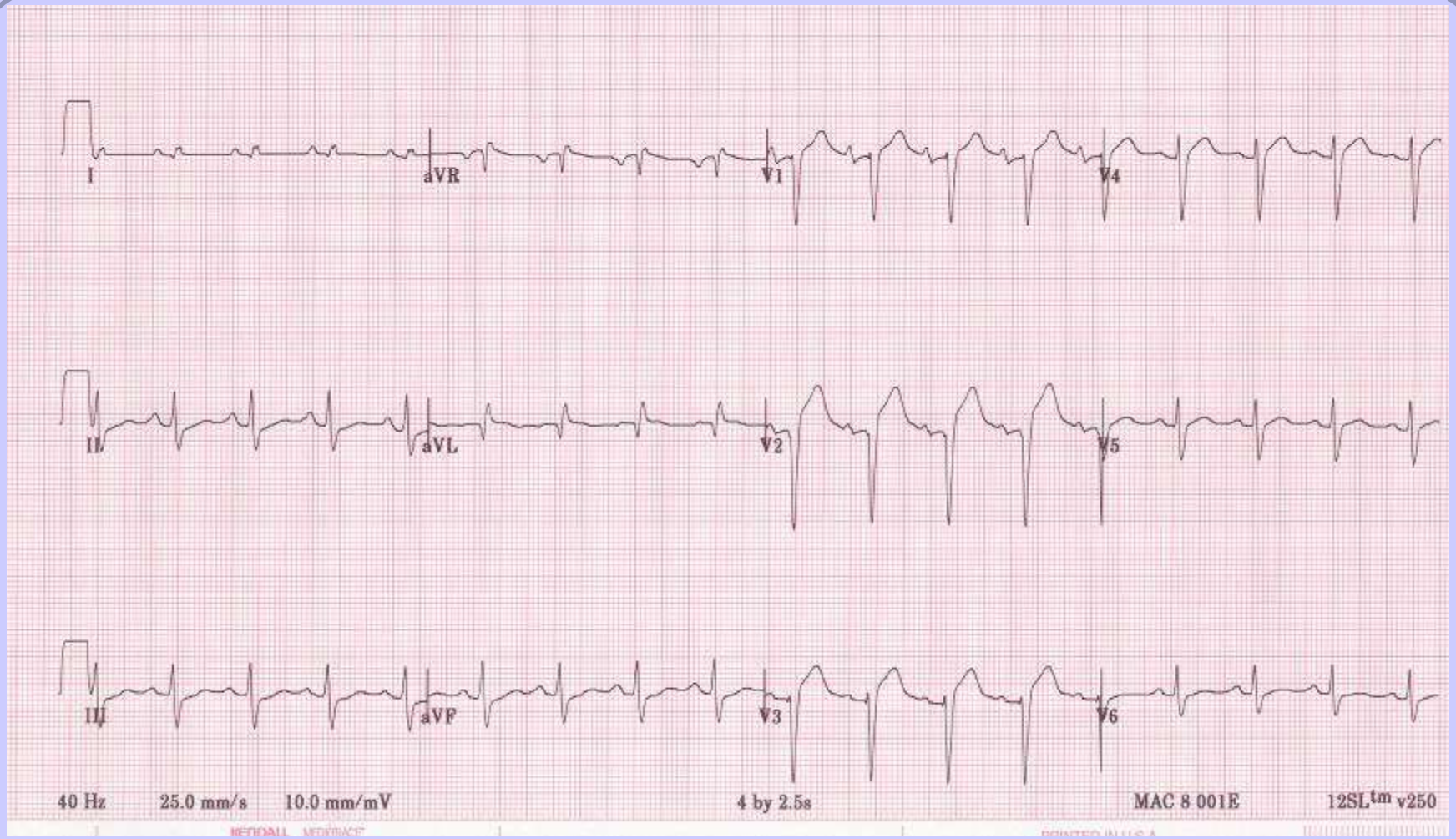
Peaked T waves
T Wave inversion
ST Depression
ST Elevation
Q waves
Type of AMI
Coronary Artery Involved



Inverted T	ST Depression	ST Elevation	Q wave	Peaked T wave	Normal

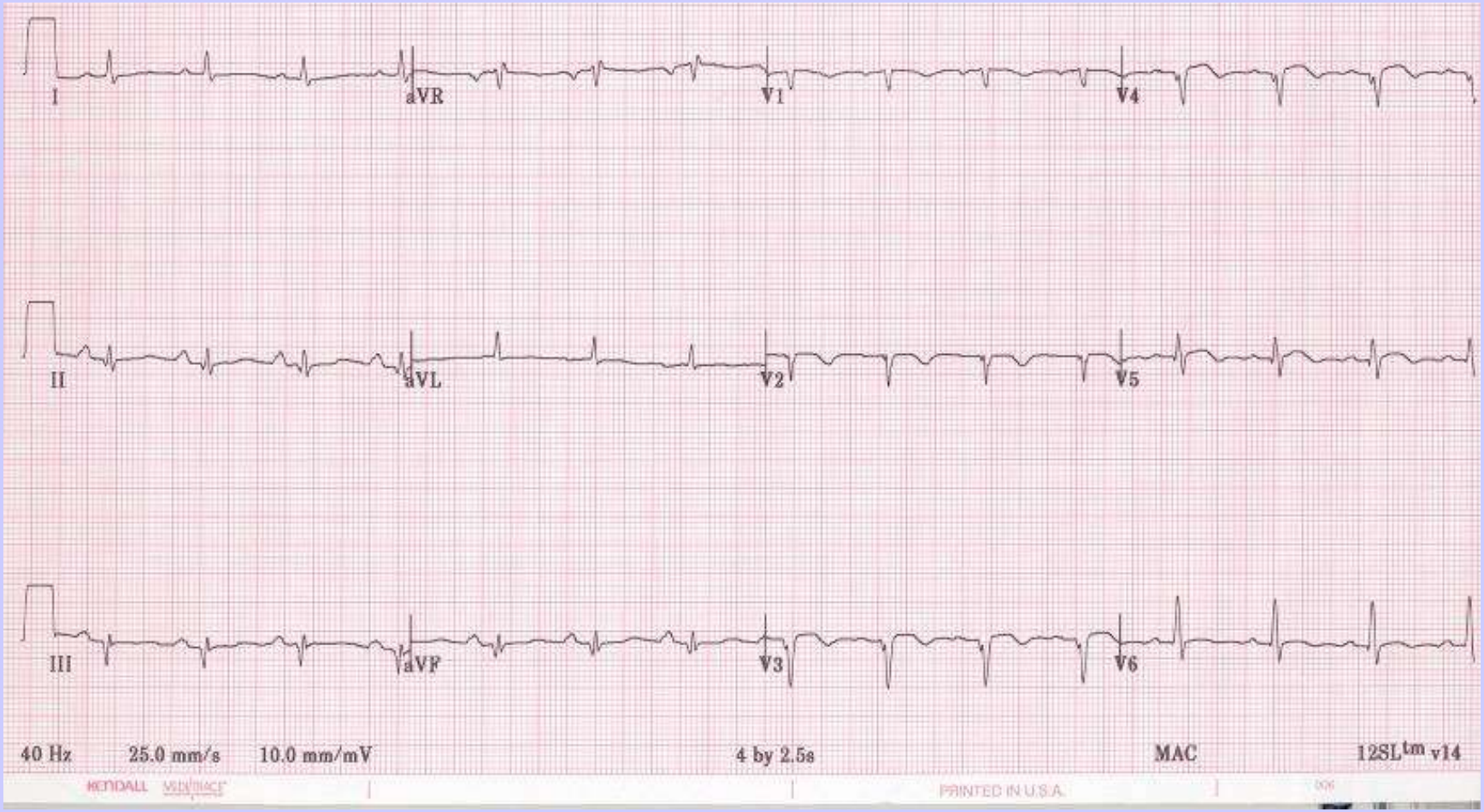

2nd Id #: 499313
COMMENTS:
I
aVR
V1
V4
II
aVL
V2
V5
III
aVF
V3
V6
40 Hz
25.0 mm/s
10.0 mm/mV
4 by 2.5s
MAC 8 001C
12SL tm v250
PRINTED IN U.S.A.

A



Inverted T	ST Depression	ST Elevation	Q wave	Peaked T wave	Abnormal R

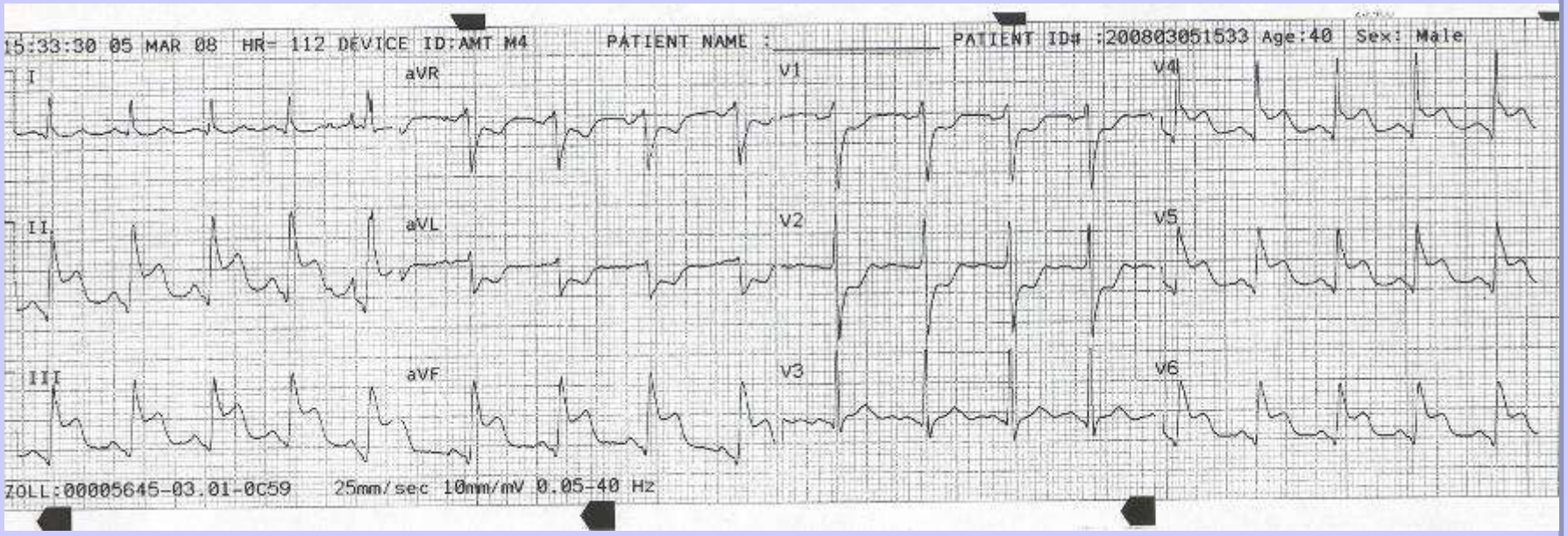
B



Inverted T	ST Depression	ST Elevation	Q wave	Peaked T wave	Normal

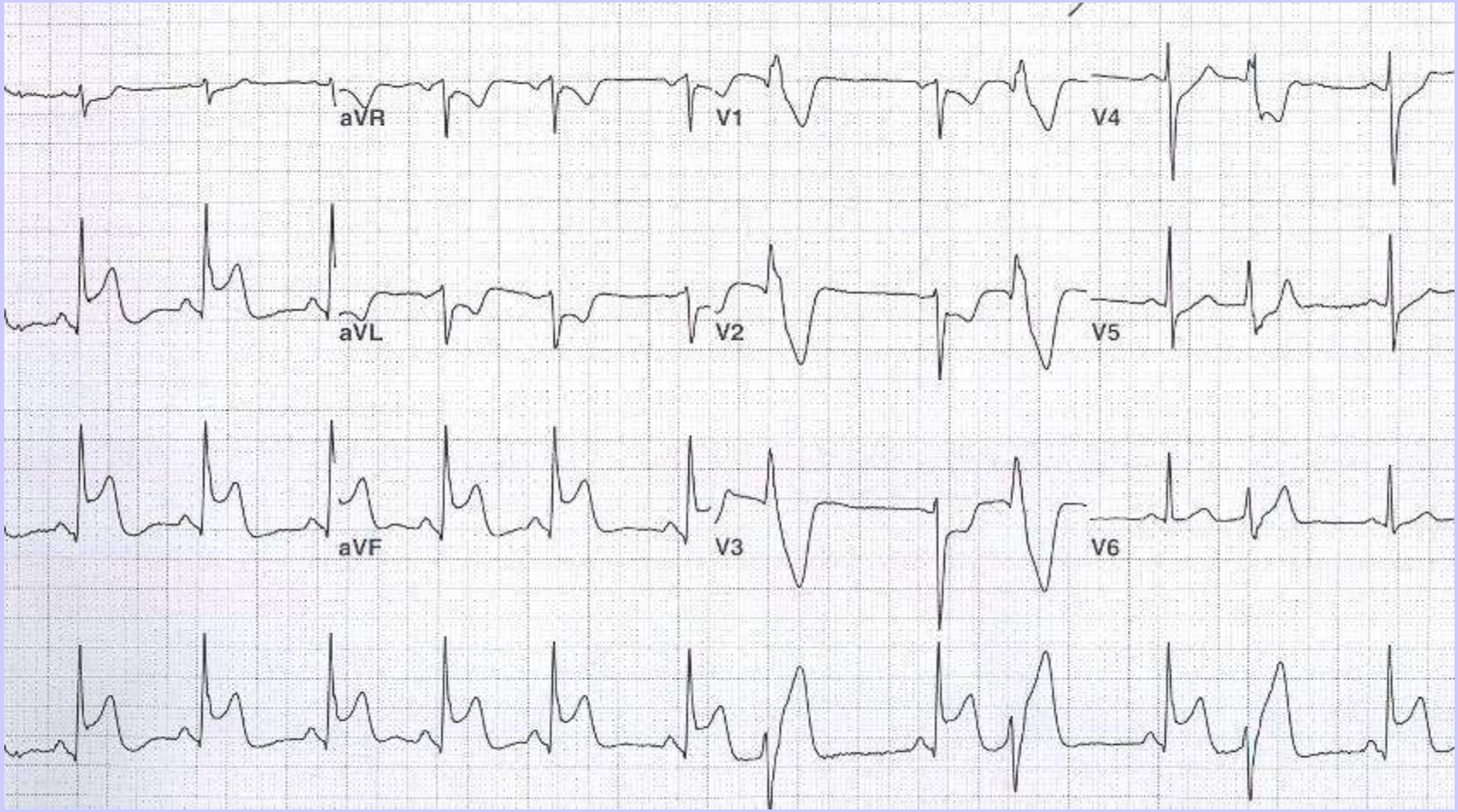
C

48 y/o male has crushing chest pain Calls 911



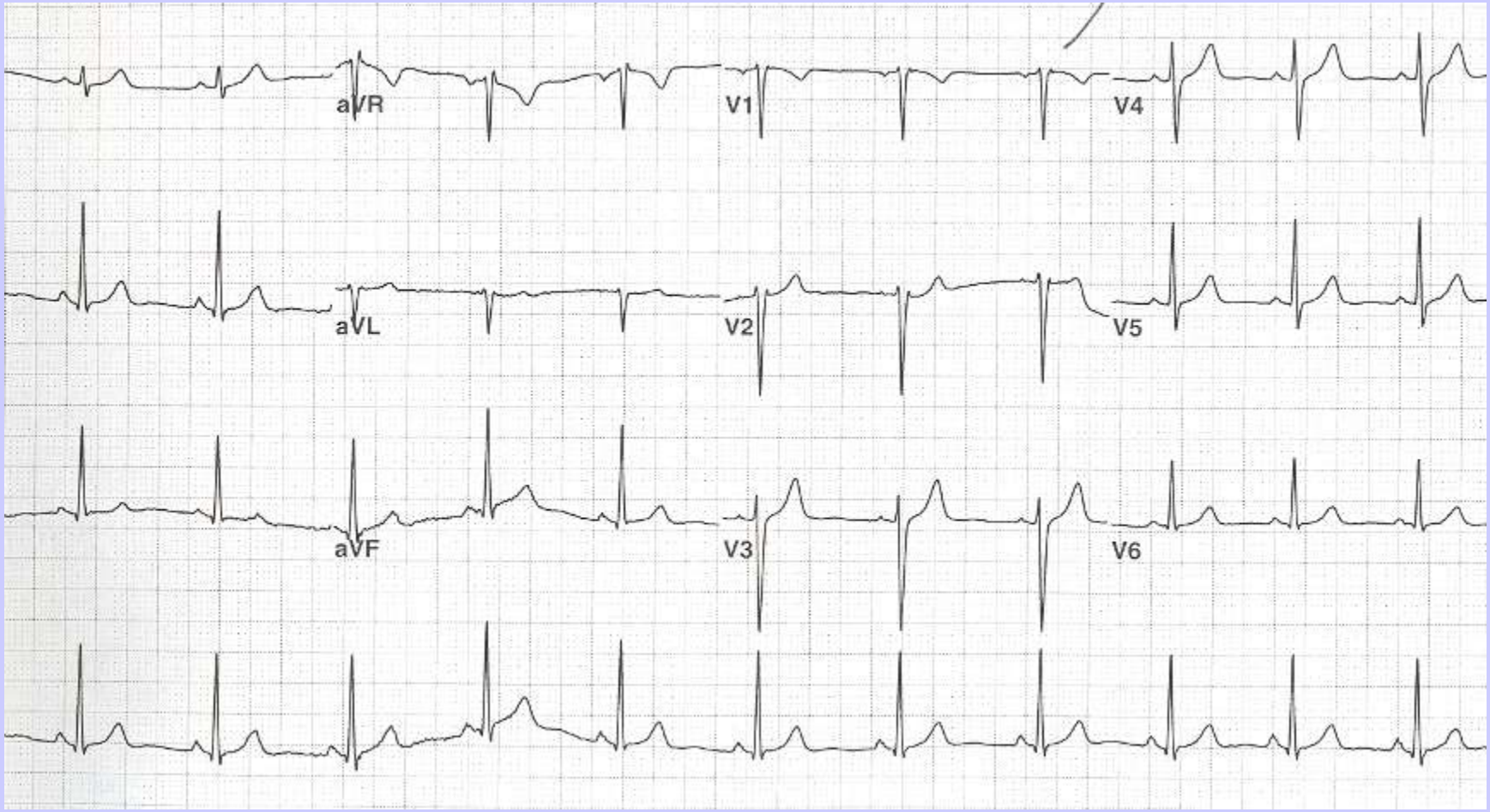
Inverted T	ST Depression	ST Elevation	Q wave	Peaked T wave	Normal

D



- **This 12 Lead was done when he was lying down and complaining of chest pain on Feb 24 at 1333.**
- **Patient is SOB & in severe pain at the time of the EKG.**
- **First time EKG done during chest pain**

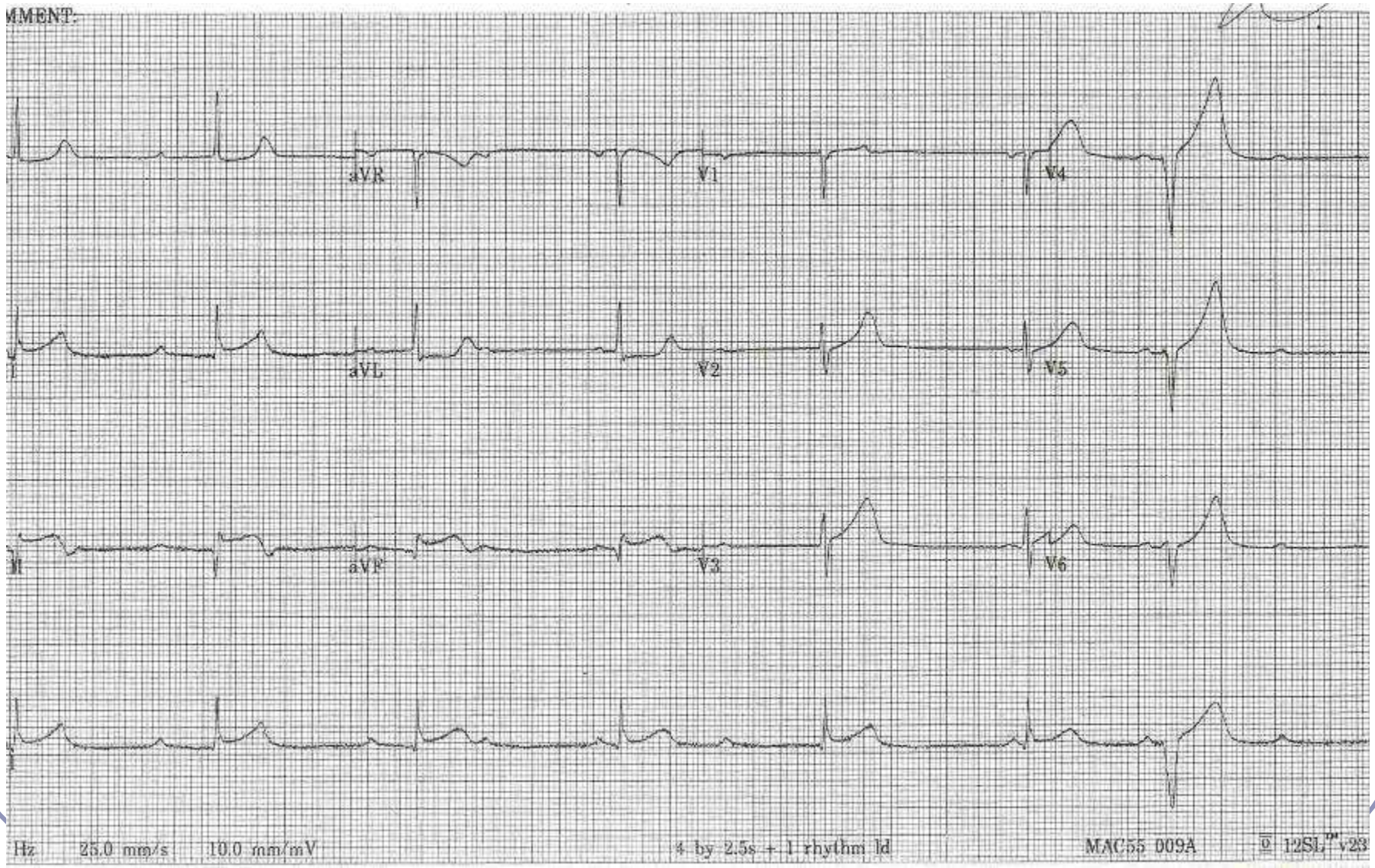
E



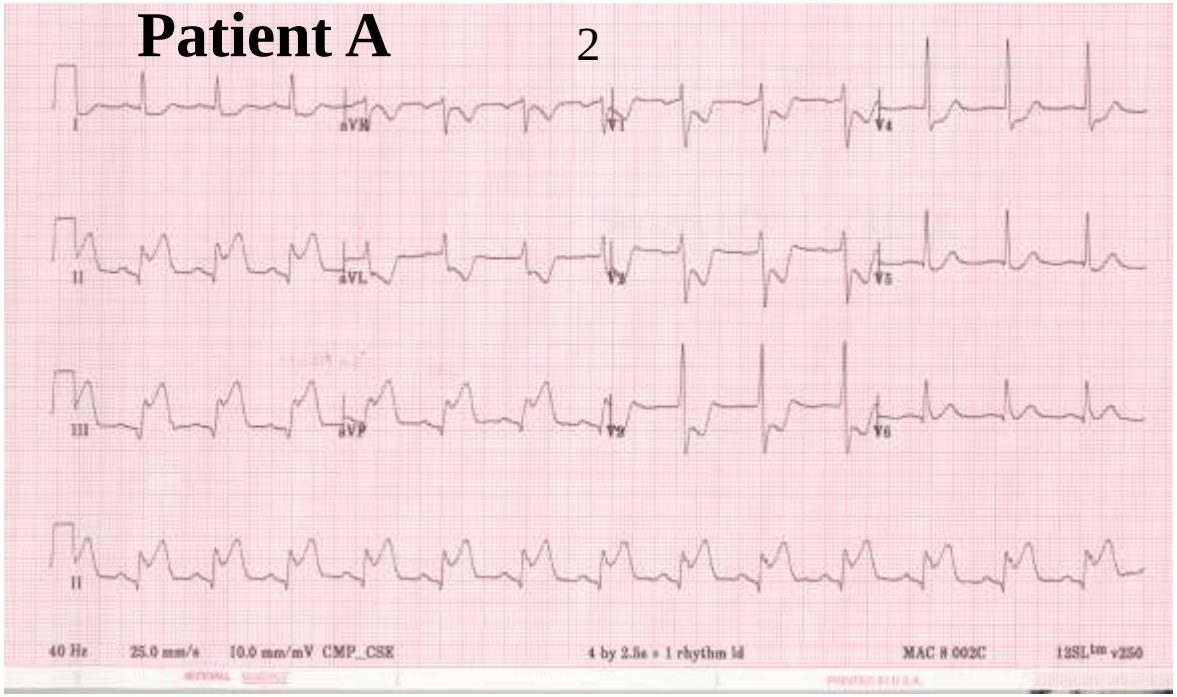
- **At 1339 on 2-24 (6 minutes later), the chest pain was gone. Pt was sitting up at the time. This is the 12 Lead EKG.**

F

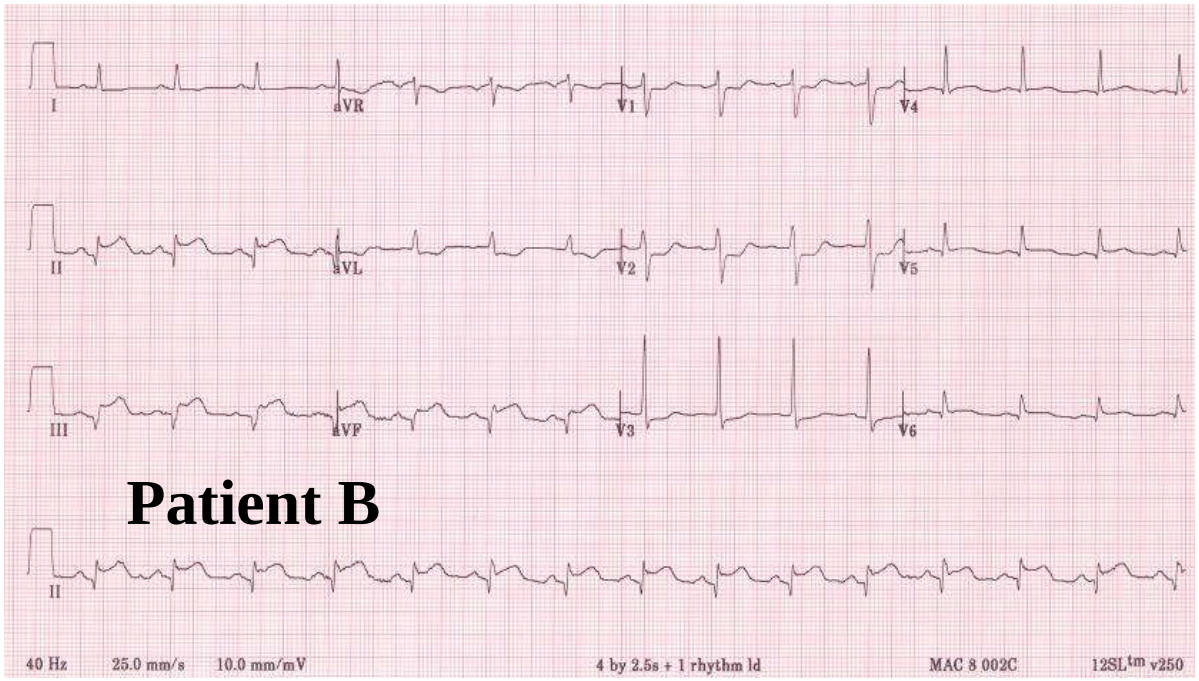
Initial 12 Lead EKG



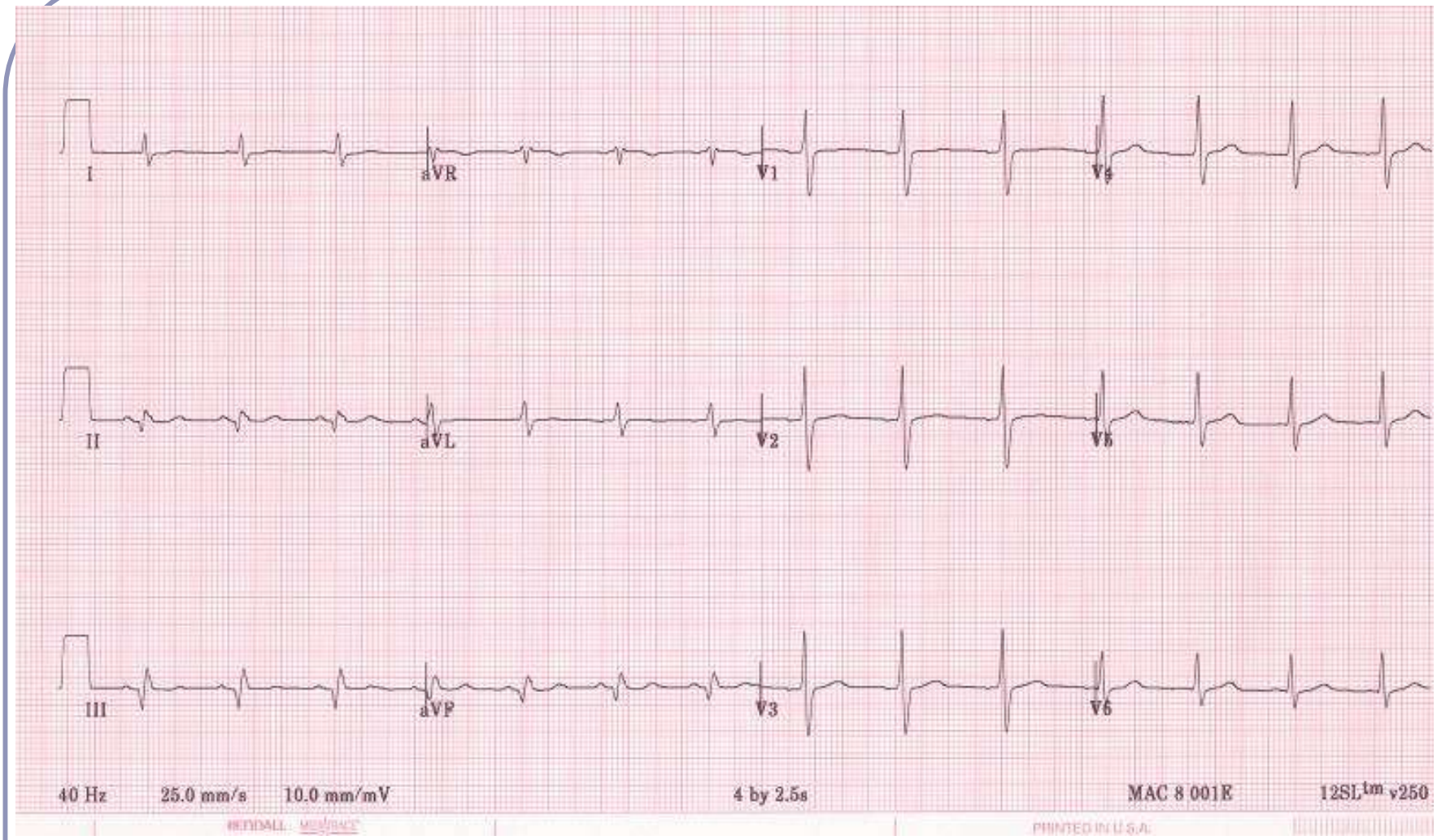
G



Which patient waited longer to come to the ED?

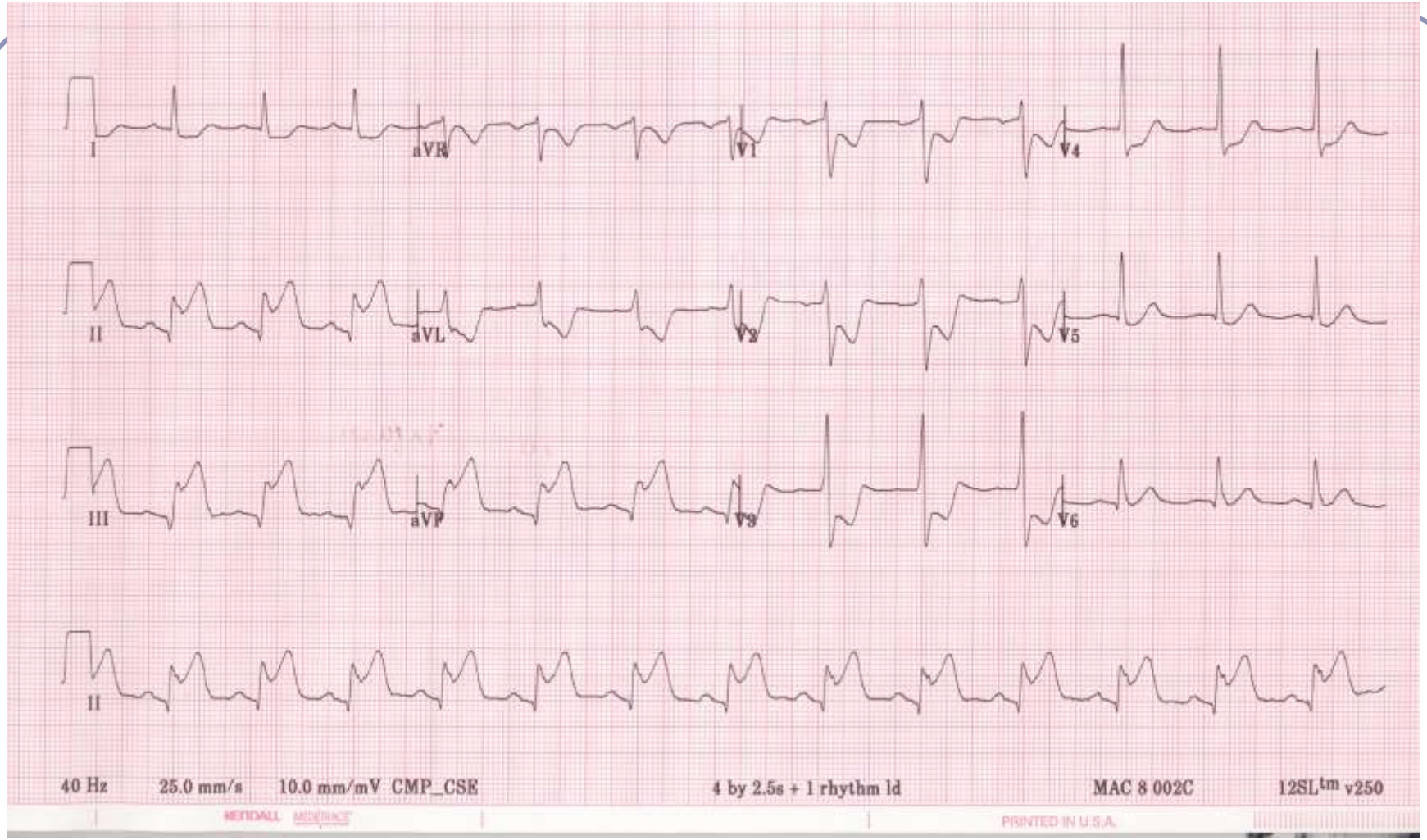


H



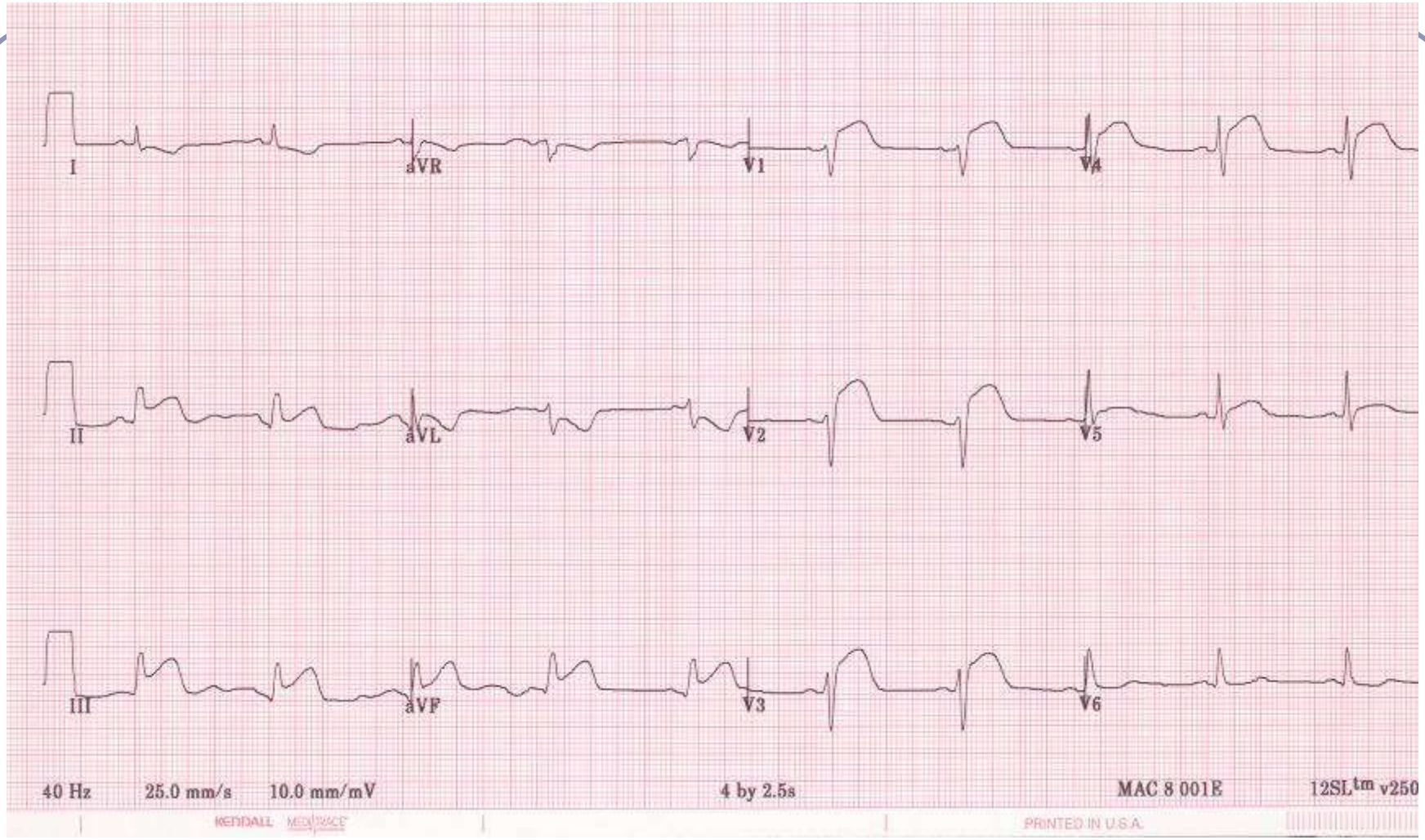
Inverted T	ST Depression	ST Elevation	Q wave	Peaked T wave	Tall R waves

I



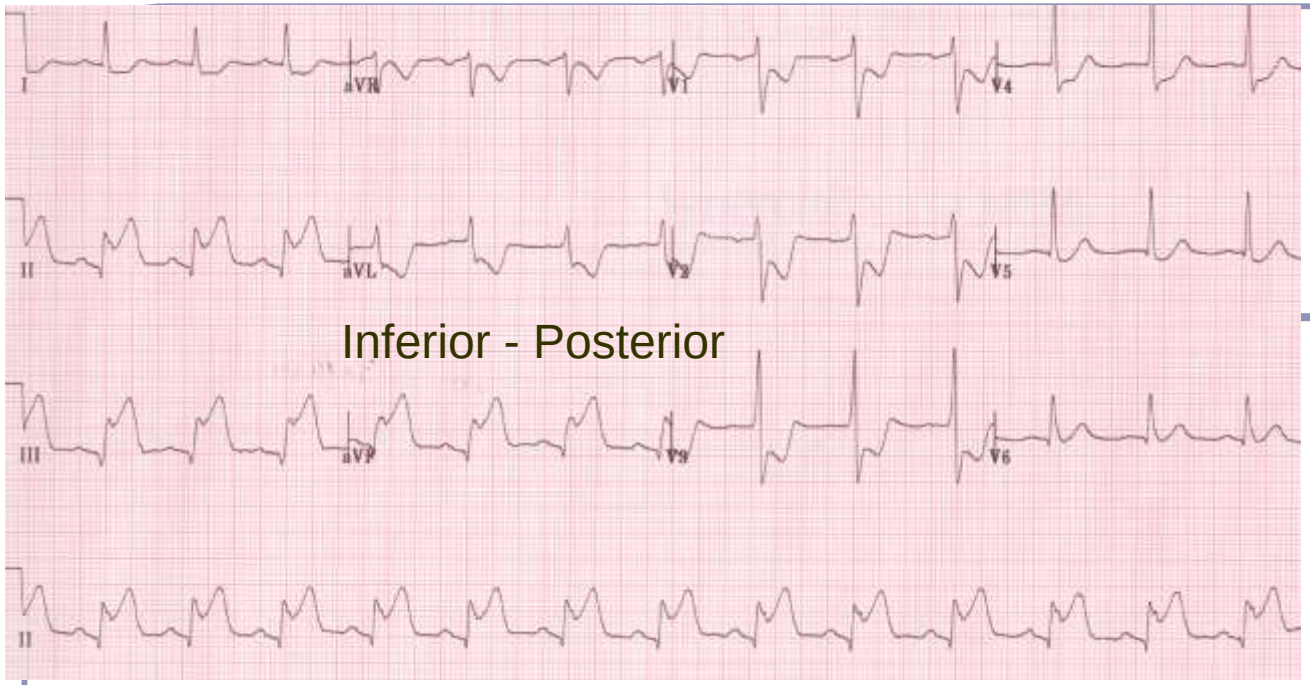
Inverted T	ST Depression	ST Elevation	Q wave	Peaked T wave	Normal

J

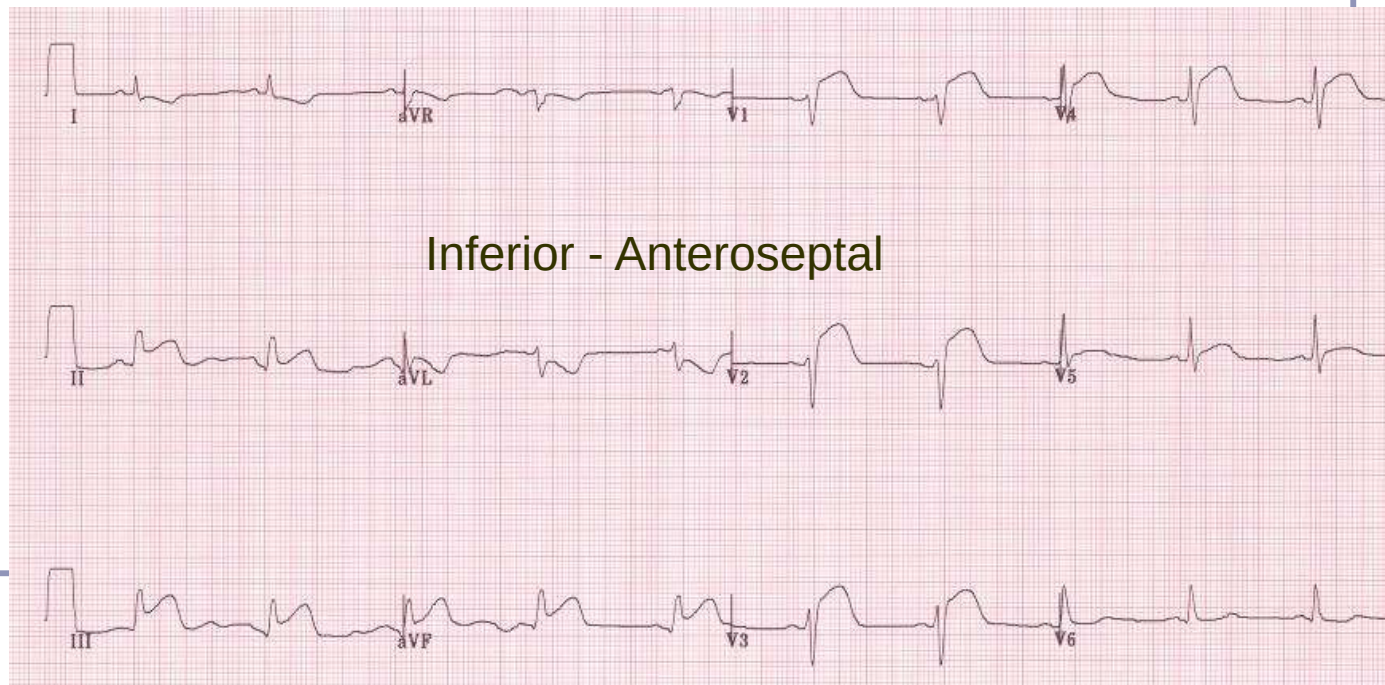


Poor R wave	ST Depression	ST Elevation	Q wave	Peaked T wave	Poor R Wave

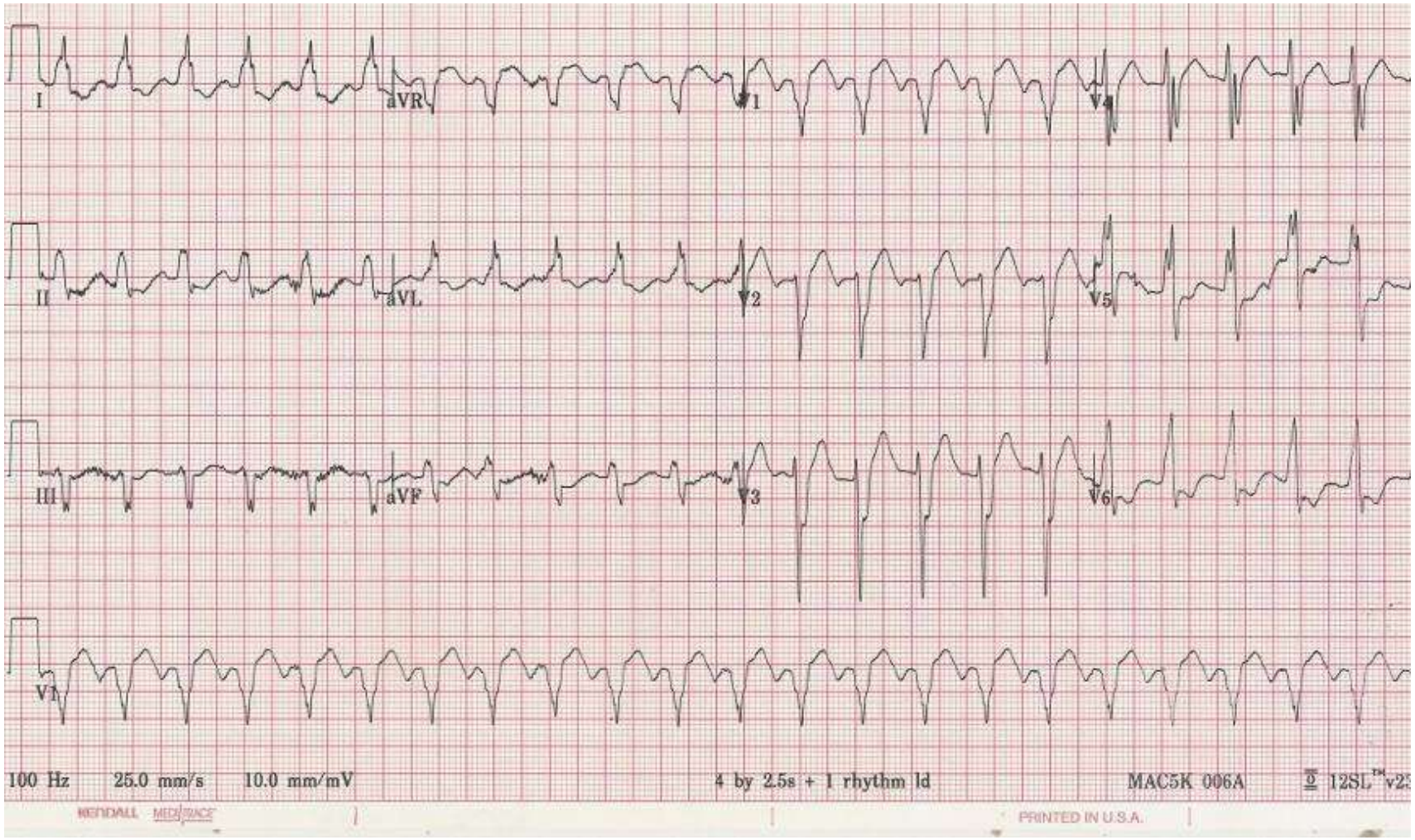
K



Inferior - Posterior

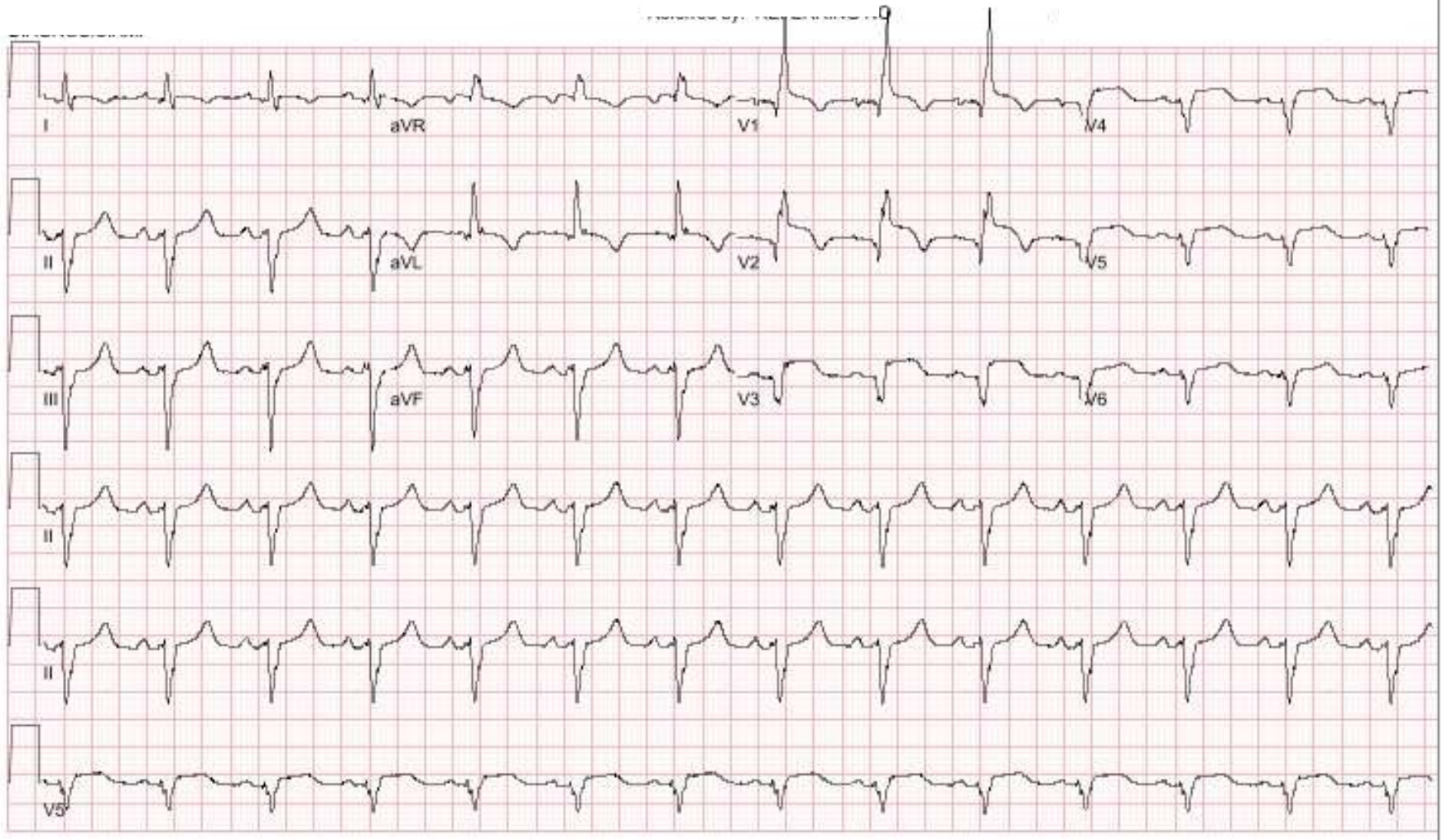


Inferior - Anteroseptal

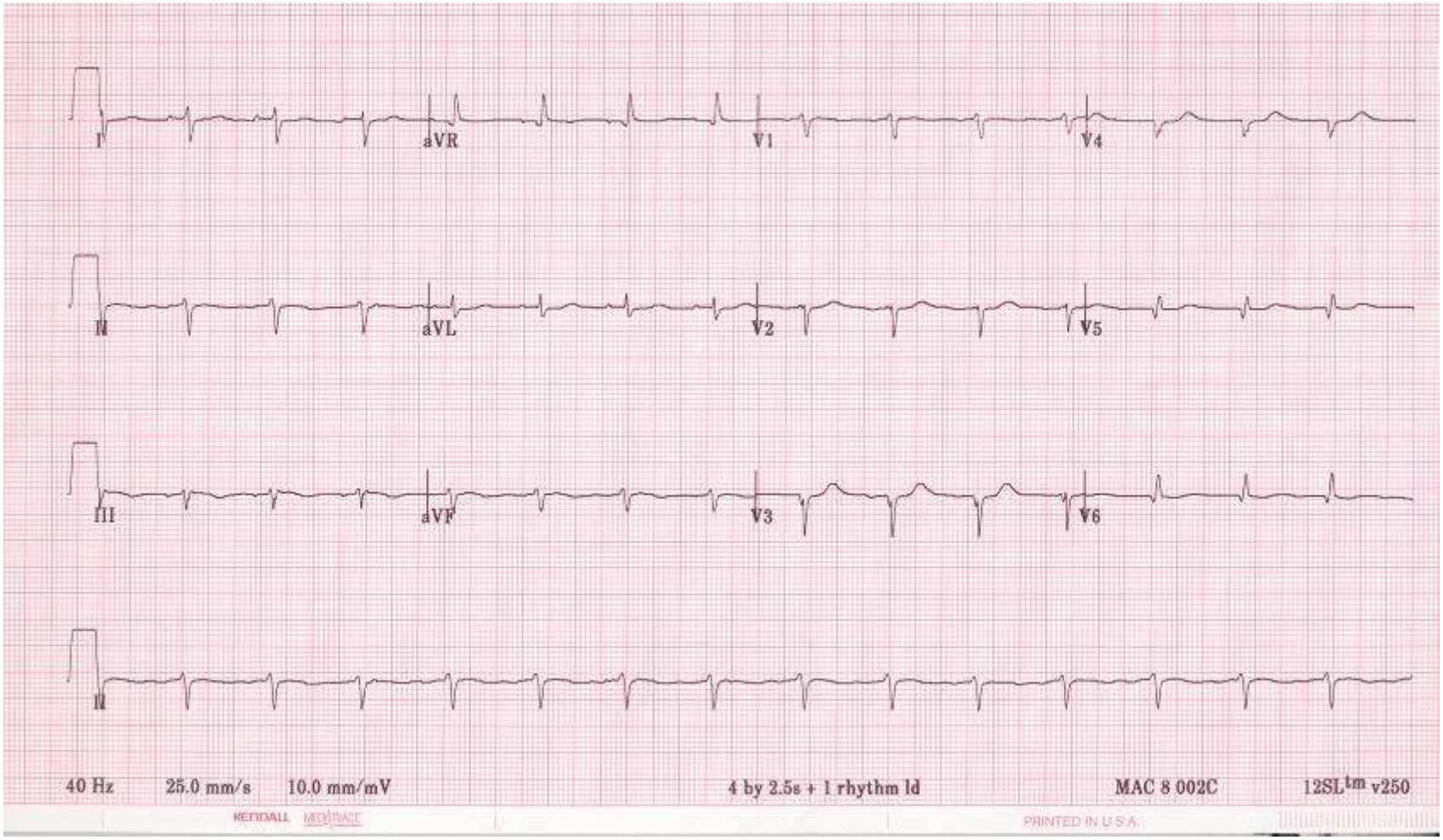

I
aVR
V1
V4
II
aVL
V2
V5
III
aVF
V3
V6
V1
100 Hz
25.0 mm/s
10.0 mm/mV
4 by 2.5s + 1 rhythm ld
MAC5K 006A
12SL™v2
KENDALL MEDI-TRACE
PRINTED IN U.S.A.

L

Vent. rate	82
PR interval	152
QRS duration	146
QT/QTc	452/528
P-R-T axes	61 -74

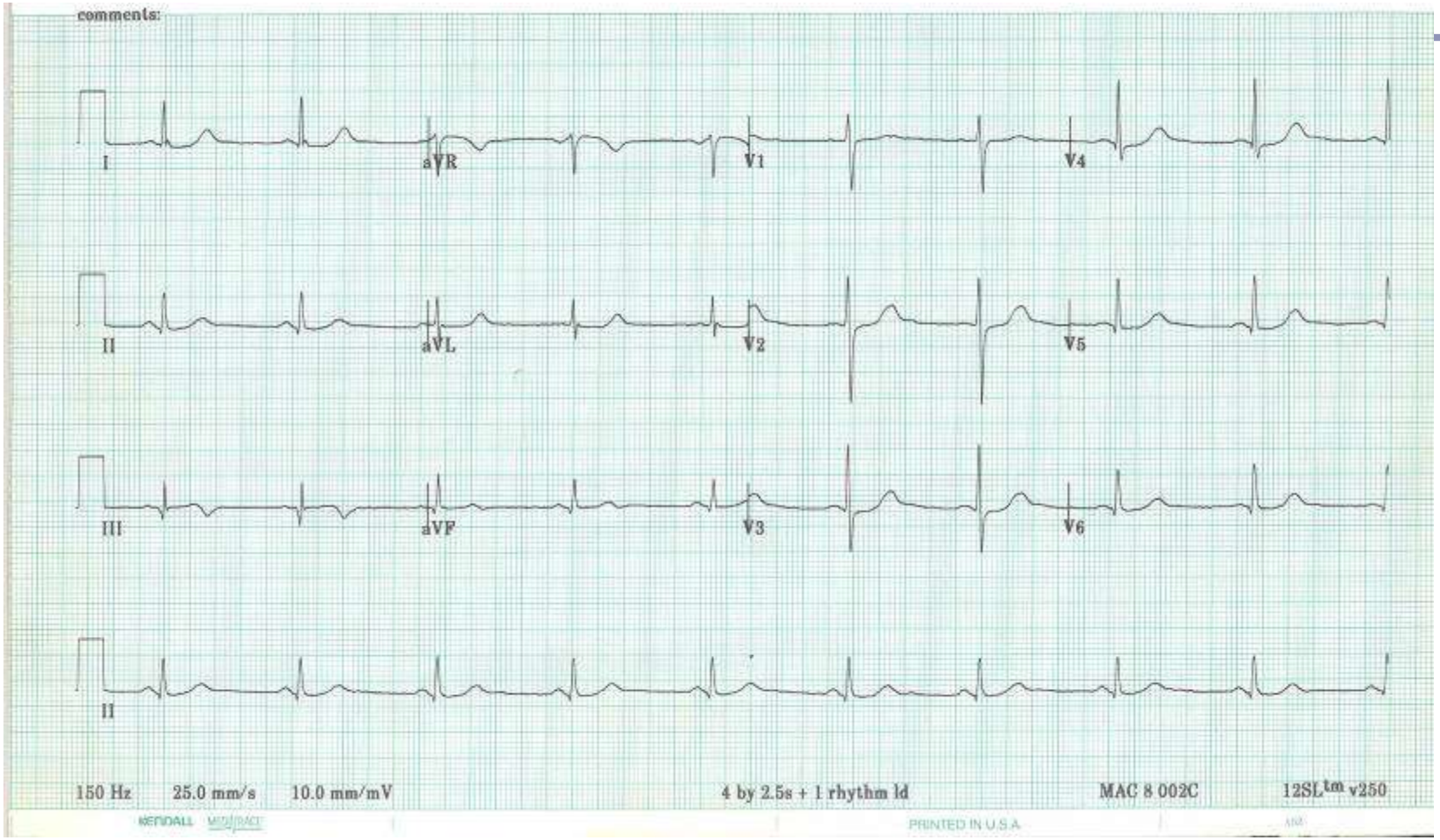


M


I
aVR
V1
V4
II
aVL
V2
V5
III
aVF
V3
V6
II
40 Hz
25.0 mm/s
10.0 mm/mV
4 by 2.5s + 1 rhythm ld
MAC 8 002C
12SL tm v250
KENDALL MEDITRACE
PRINTED IN U.S.A.

N

70 y/o female ED for chest pain Initial EKG March 15 at 20:00

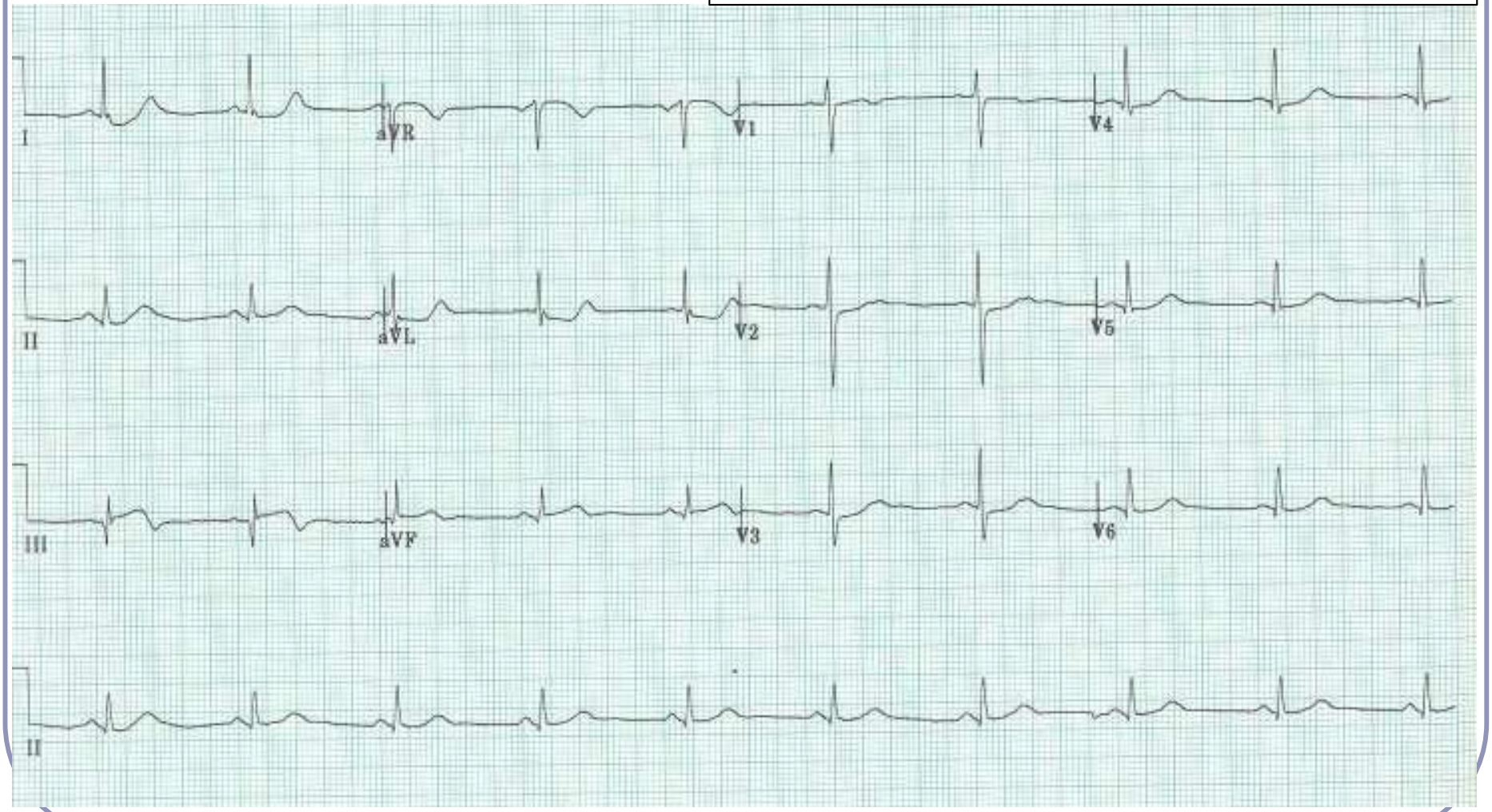


O

2nd EKG @ 21:41

AHA/ACC NSTEMI 2014 Guidelines Chest Pain – no Specific EKG Changes

- EKG on admission and every 15 – 30 minutes 1st hour
- Troponin on admission and then every 3- 6 hours
- Risk stratify



P