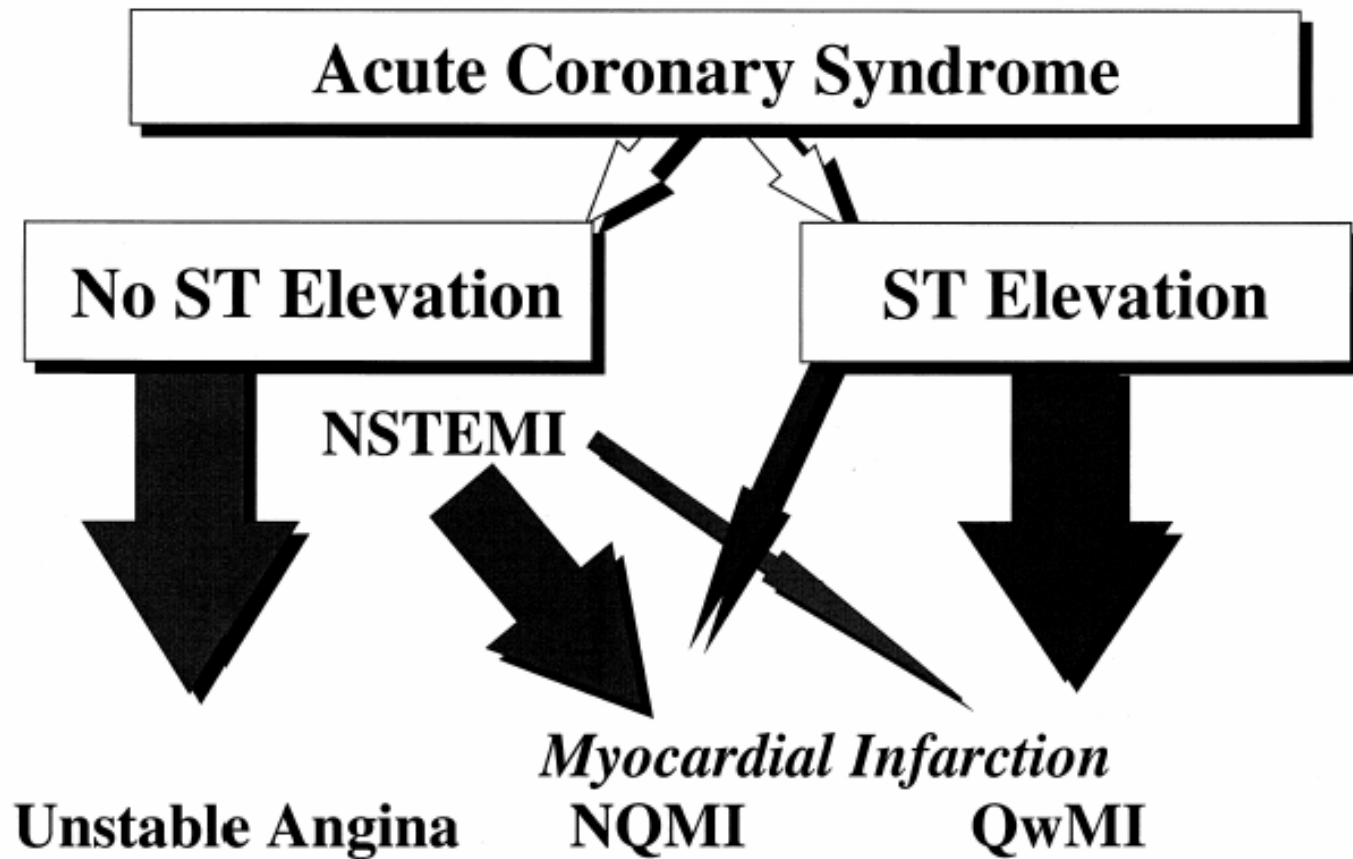




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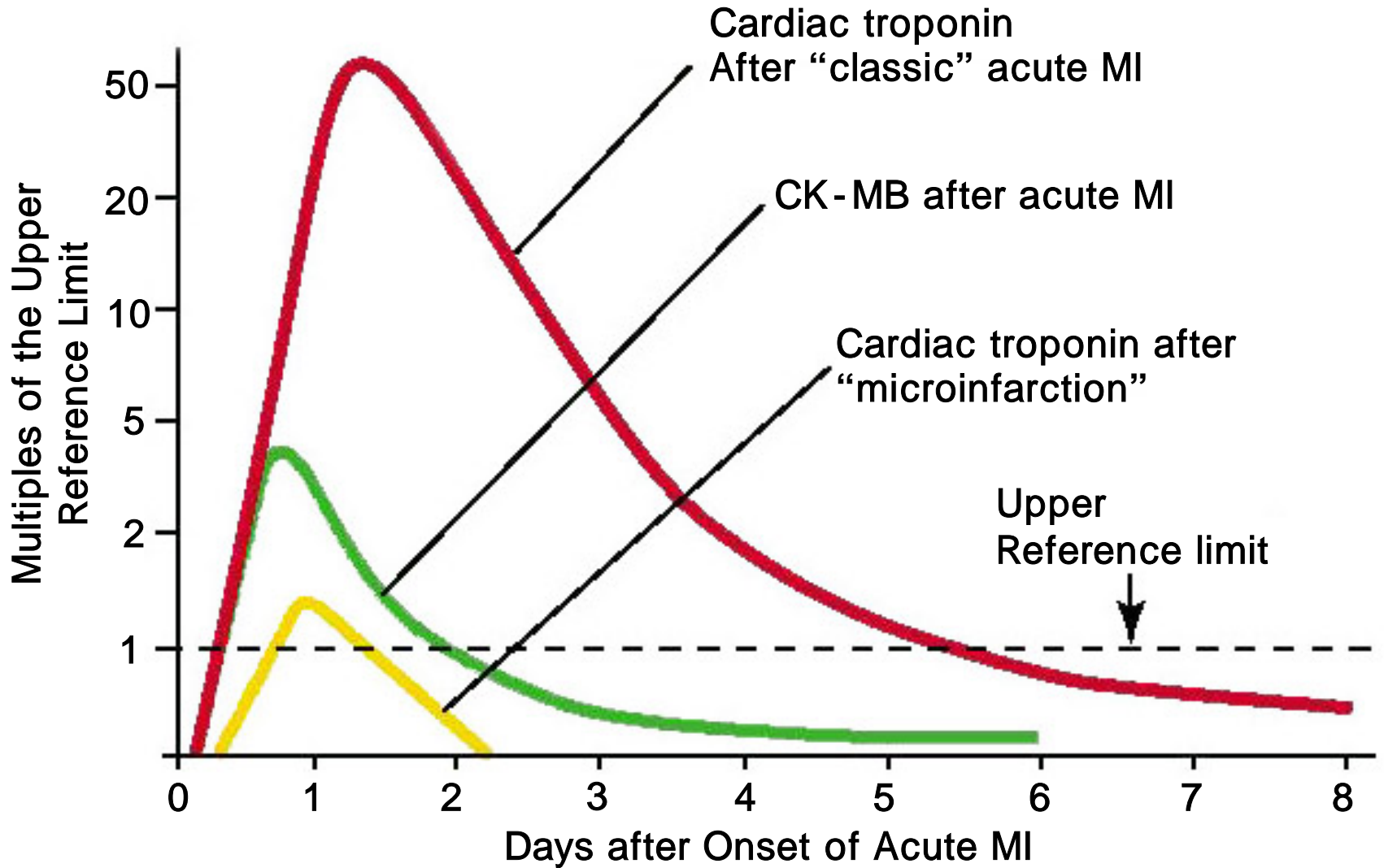
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3.

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(ESC/ACC)



Troponin/CK-MB

1)

2)

Q

3)

ST

4)





ESC/ACC



Troponin

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Troponin

cut - off

❖ Troponin I Troponin T

❖ Troponin I









Sex	Symptoms
Women	Non - Chest Pain Dizziness/Syncope Dyspnea Fatigue Loss of appetite Nausea/vomiting/Indigestion Palpitations
Men	Chest pain Diaphoresis





	Women % with ACS	Men % with ACS
Typical chest pain/discomfort		
Present	41*	49
Absent	28	38
Dyspnea		
Present	45	47
Absent	32	44
Diaphoresis		
Present	53*	44
Absent	32	45
Neck or jaw pain		
Present	41	53
Absent	36	44





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ST elevation in III > II &
ST depression in I, aVL, or both (>1

mm)

Yes

No

RCA
Sensitivity 90%
Specificity 71%
Positive predictive value 94%
Negative predictive value 70%

ST elevation in I, aVL, V5, and V6
&
ST depression in V1, V2, and V3

ST elevation in V1, V4R, or both

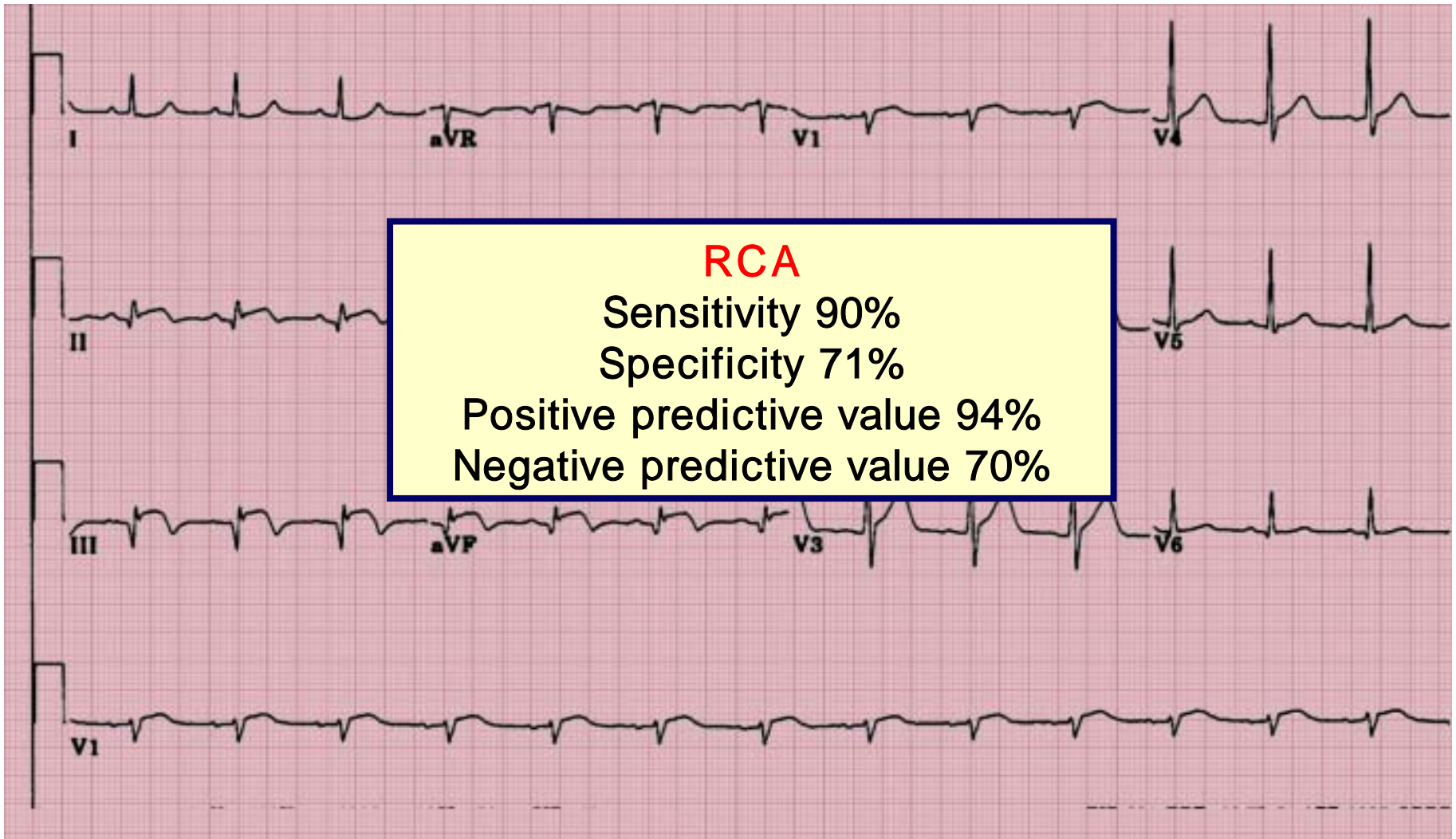
LCX
Sensitivity 83%
Specificity 96%
Positive predictive value 91%
Negative predictive value

Prox RCA with RV infarction
Sensitivity 79%
Specificity 100%
Positive predictive value 100%

93%



ST elevation in III > II &
ST depression in I, aVL, or both (>1
mm)



ST elevation in V1, V4R, or both

mm)

Right-Sided Chest Leads

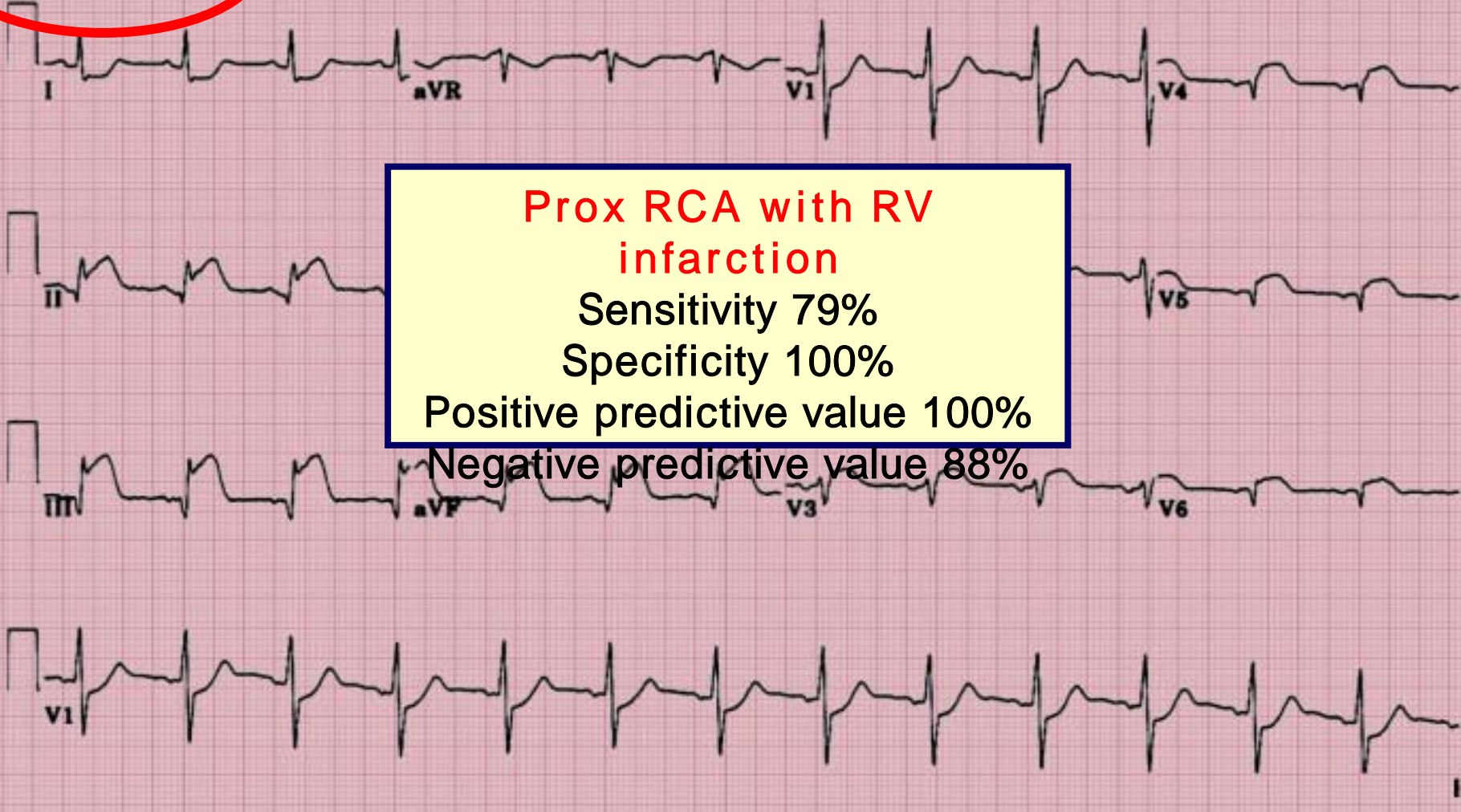
**Prox RCA with RV
infarction**

Sensitivity 79%

Specificity 100%

Positive predictive value 100%

Negative predictive value 88%

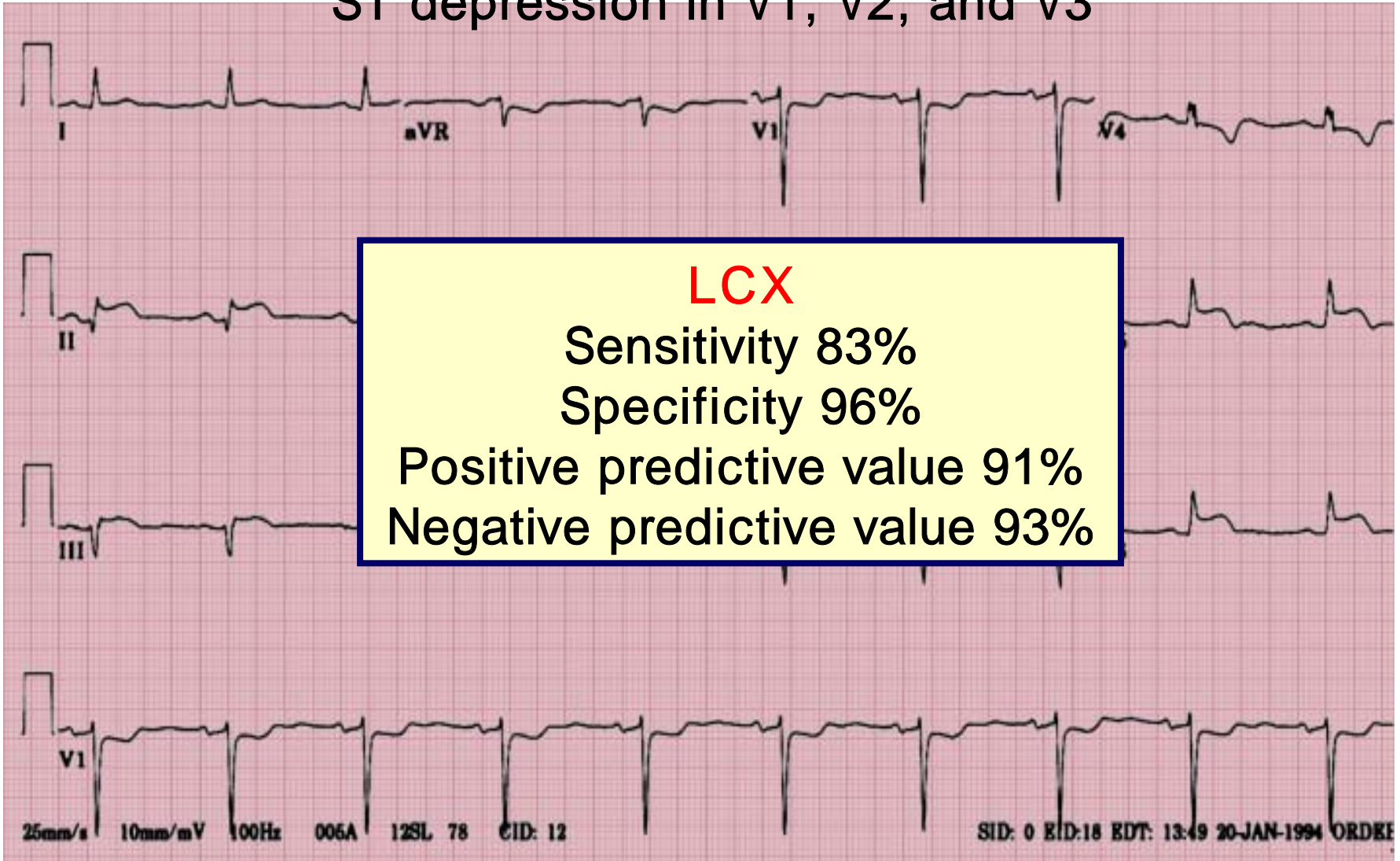




ST elevation in I, aVL, V5, and V6
&



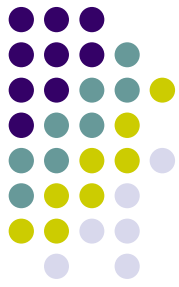
ST depression in V1, V2, and V3



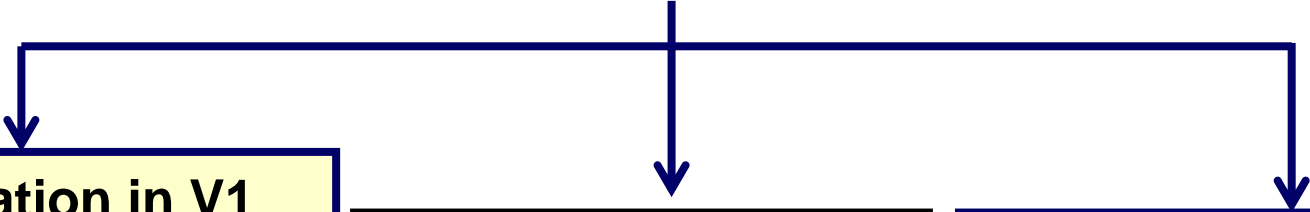


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ST elevation in V1, V2, and V3



ST elevation in V1 (>2.5mm) or RBBB with Q wave or both

ST depression (>1 mm) in II, III, and aVF

ST depression (1 mm) or ST elevation in II, III, aVF

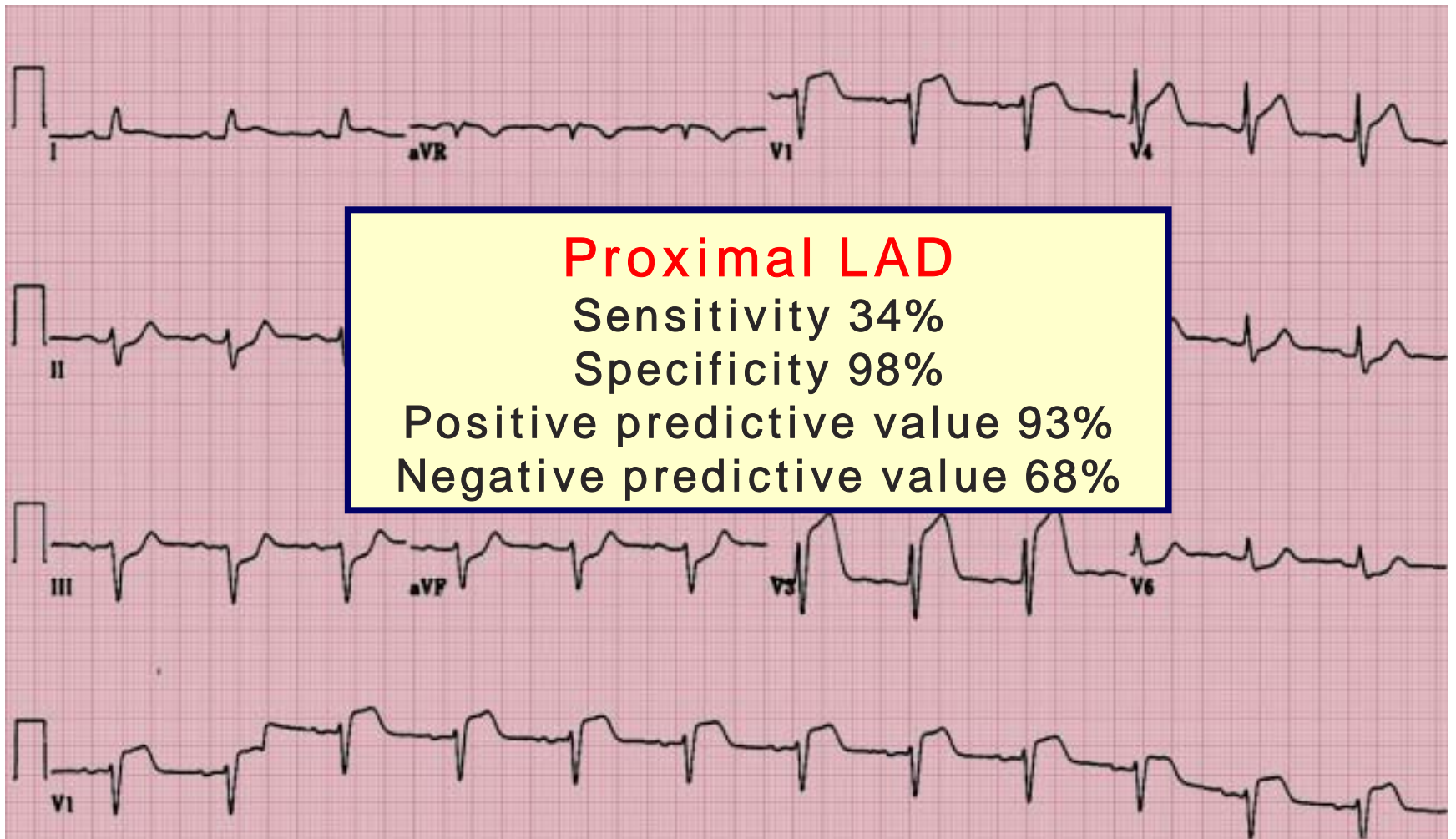
Proximal LAD
Sensitivity 12%
Specificity 100%
Positive predictive value 100%
Negative predictive value 61%

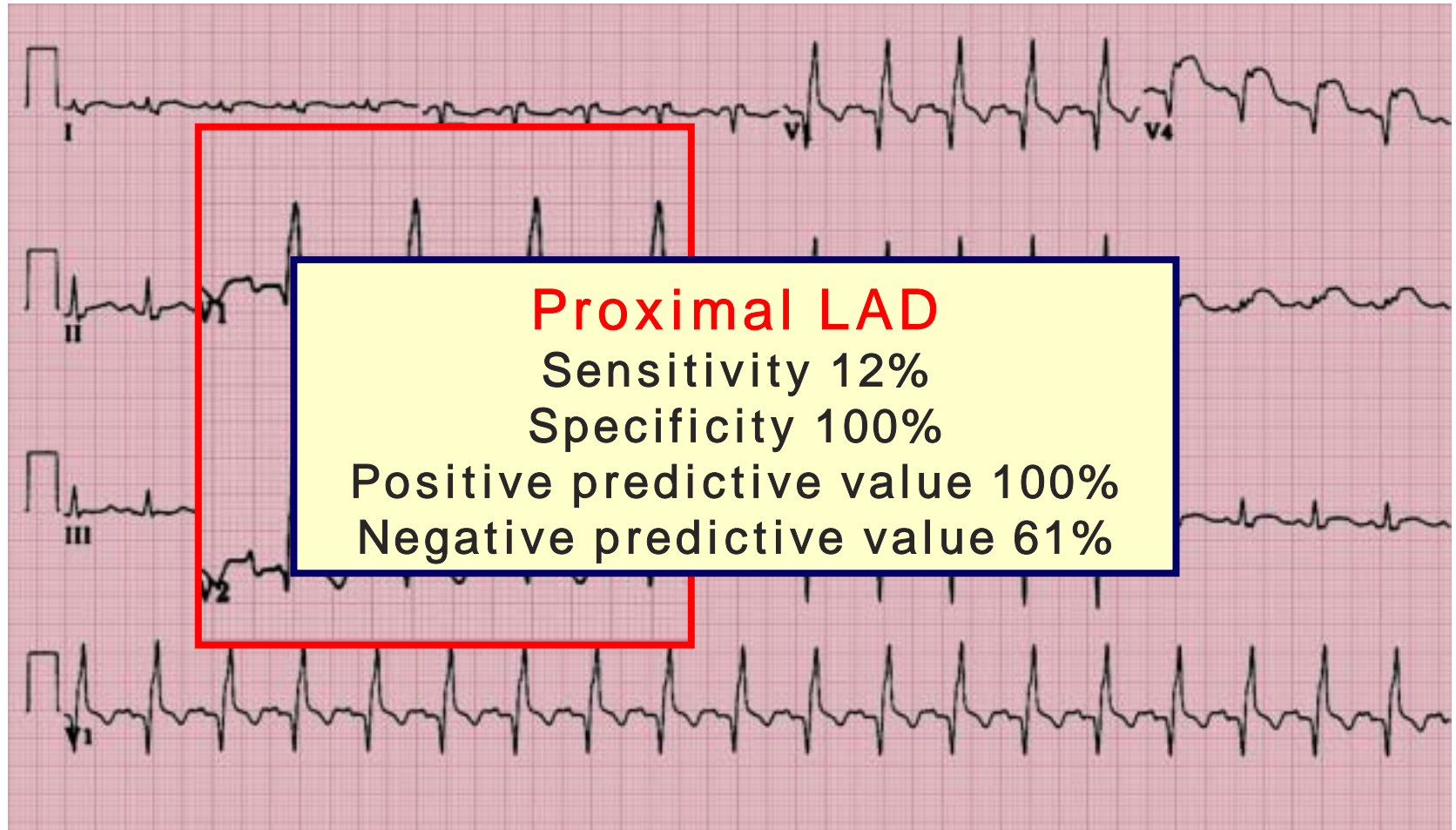
Proximal LAD
Sensitivity 34%
Specificity 98%
Positive predictive value 93%
Negative predictive value 68%

Distal LAD
Sensitivity 66%
Specificity 73%
Positive predictive value 78%
Negative predictive value 62%



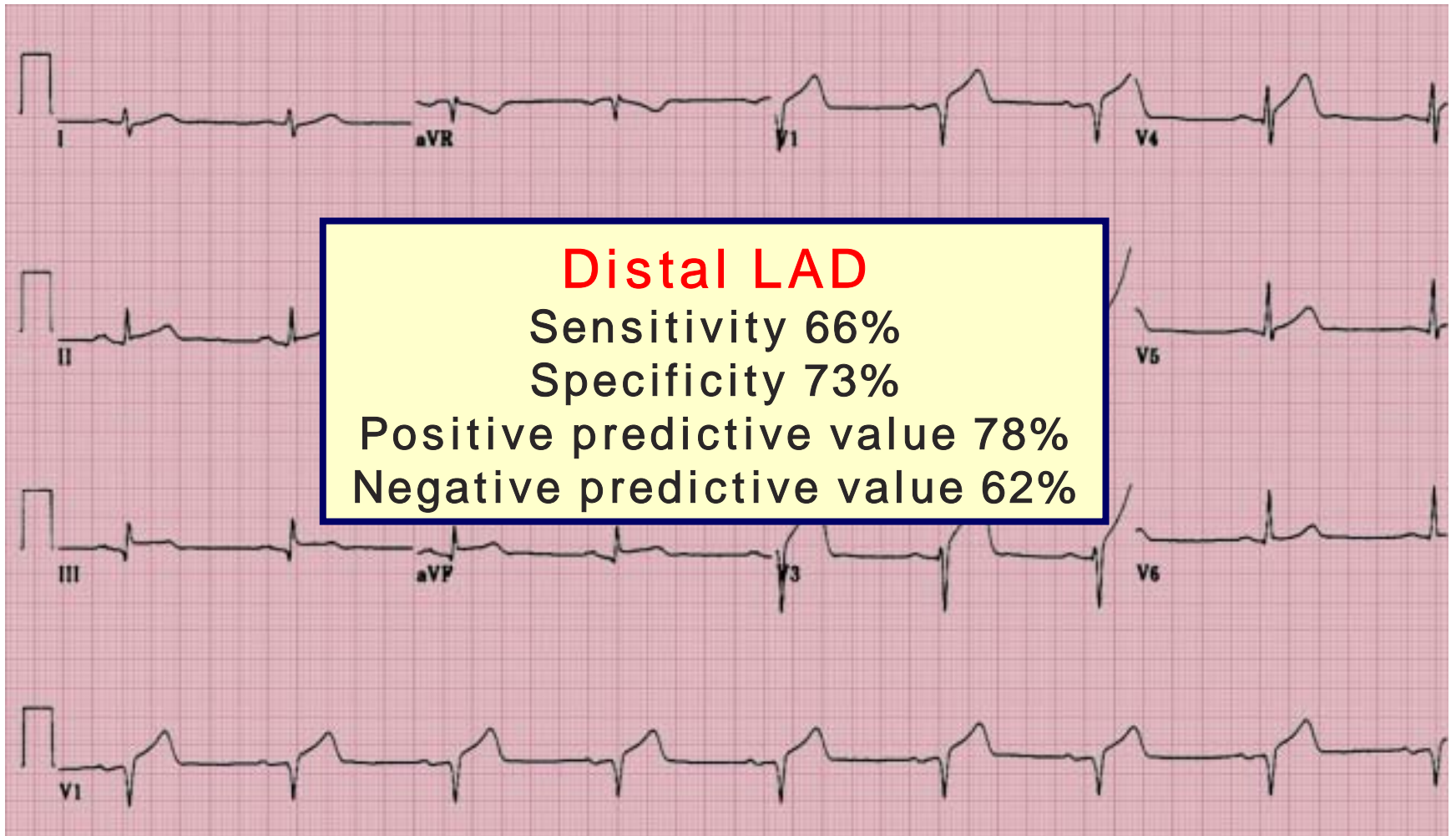
ST depression (>1 mm) in II, III, and aVF





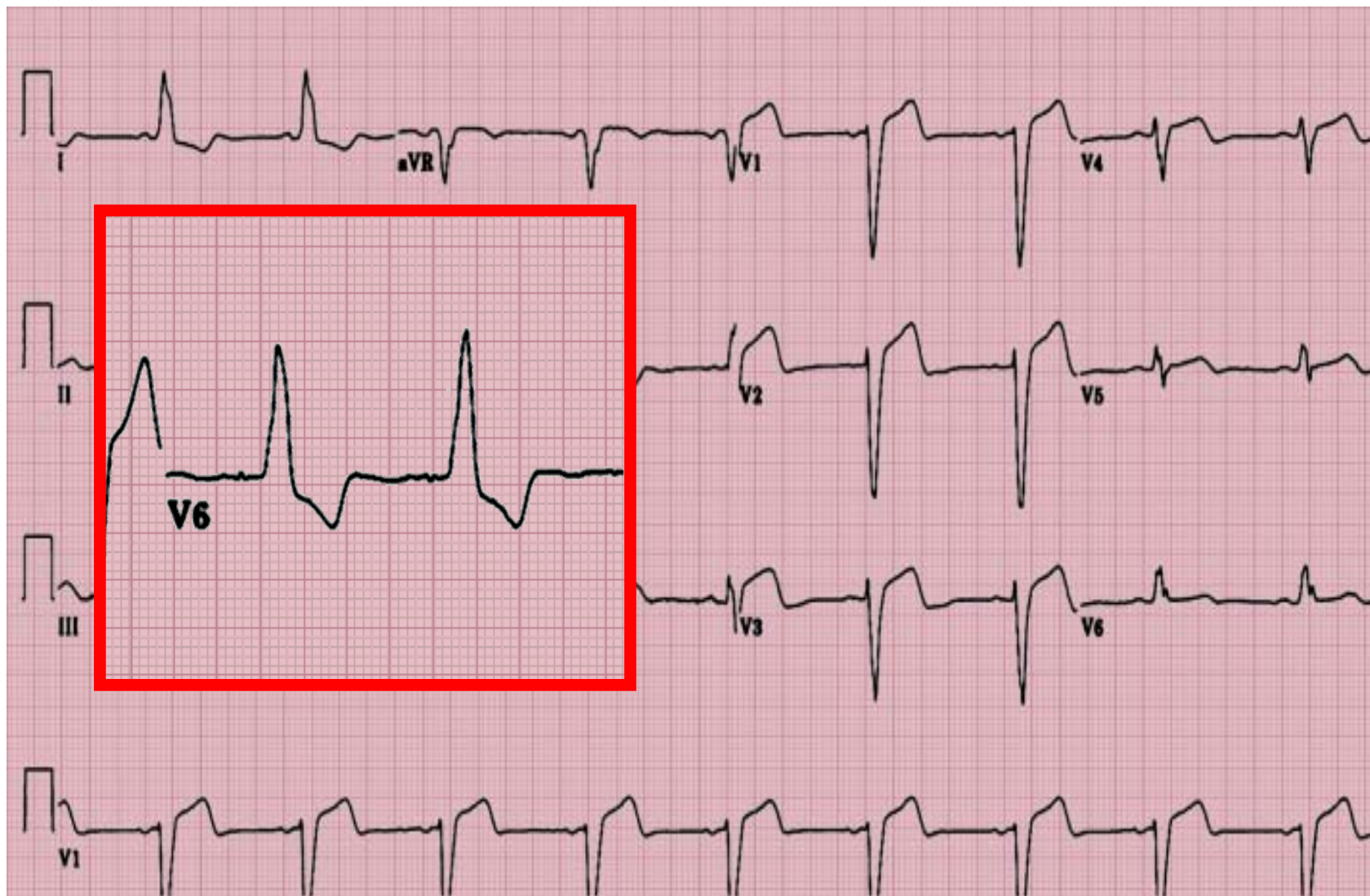


ST depression (≥ 1 mm) or ST elevation in II, III, aVF





LBBB with ant. MI





ECG Diagnostic Criteria of ant. AMI in LBBB



Criterion	Score
ST elevation (>1mm) in V5 - 6	5
ST depression (>1mm) in V1 - 3, II, III, and aVF	3
ST elevation (>5mm) in V1 - 3	2

Total Score ≥ 3

$\geq 90\%$ specificity and 88% positive predictive value





LBBB or RBBB

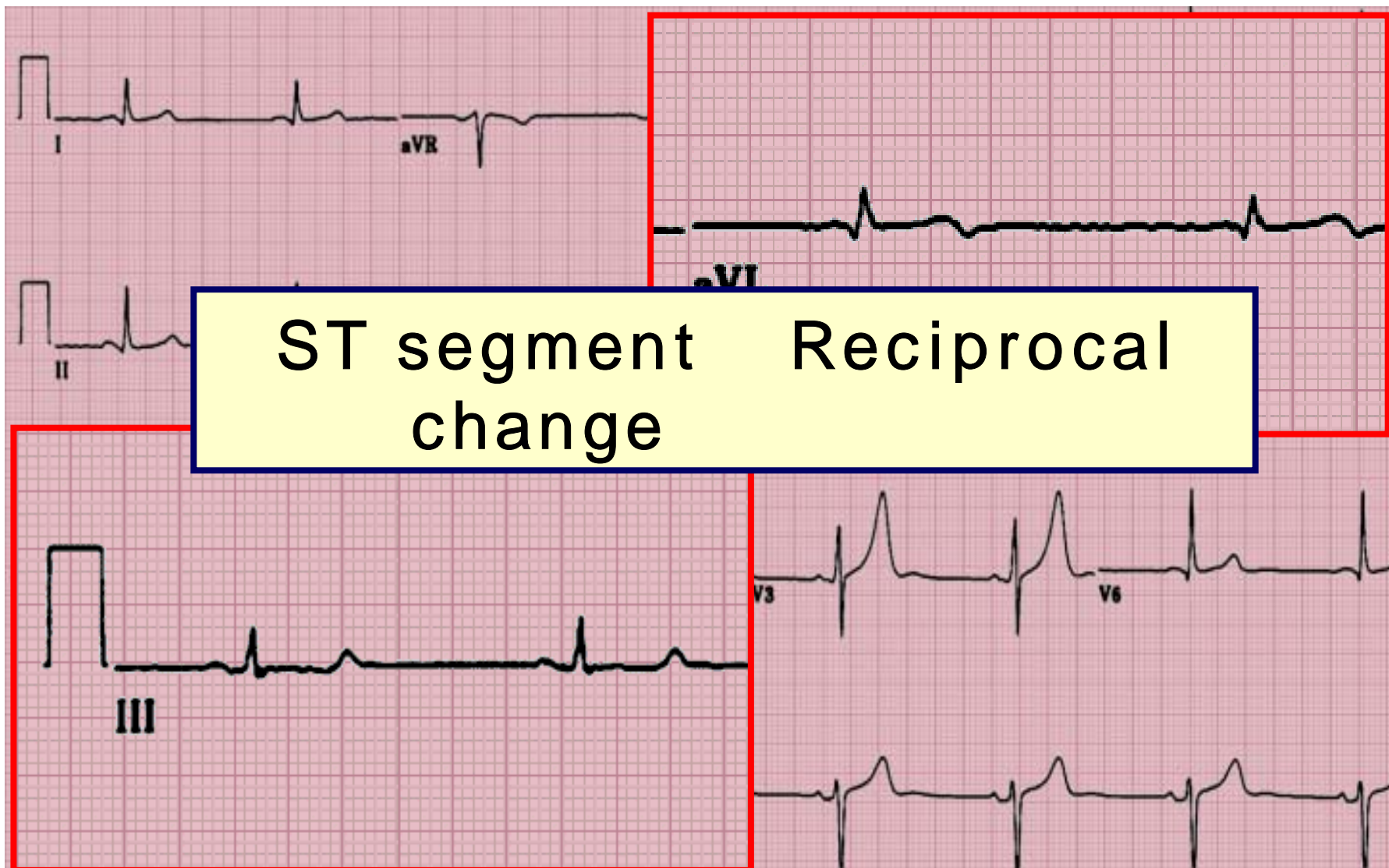
AMI



Primary ST

-



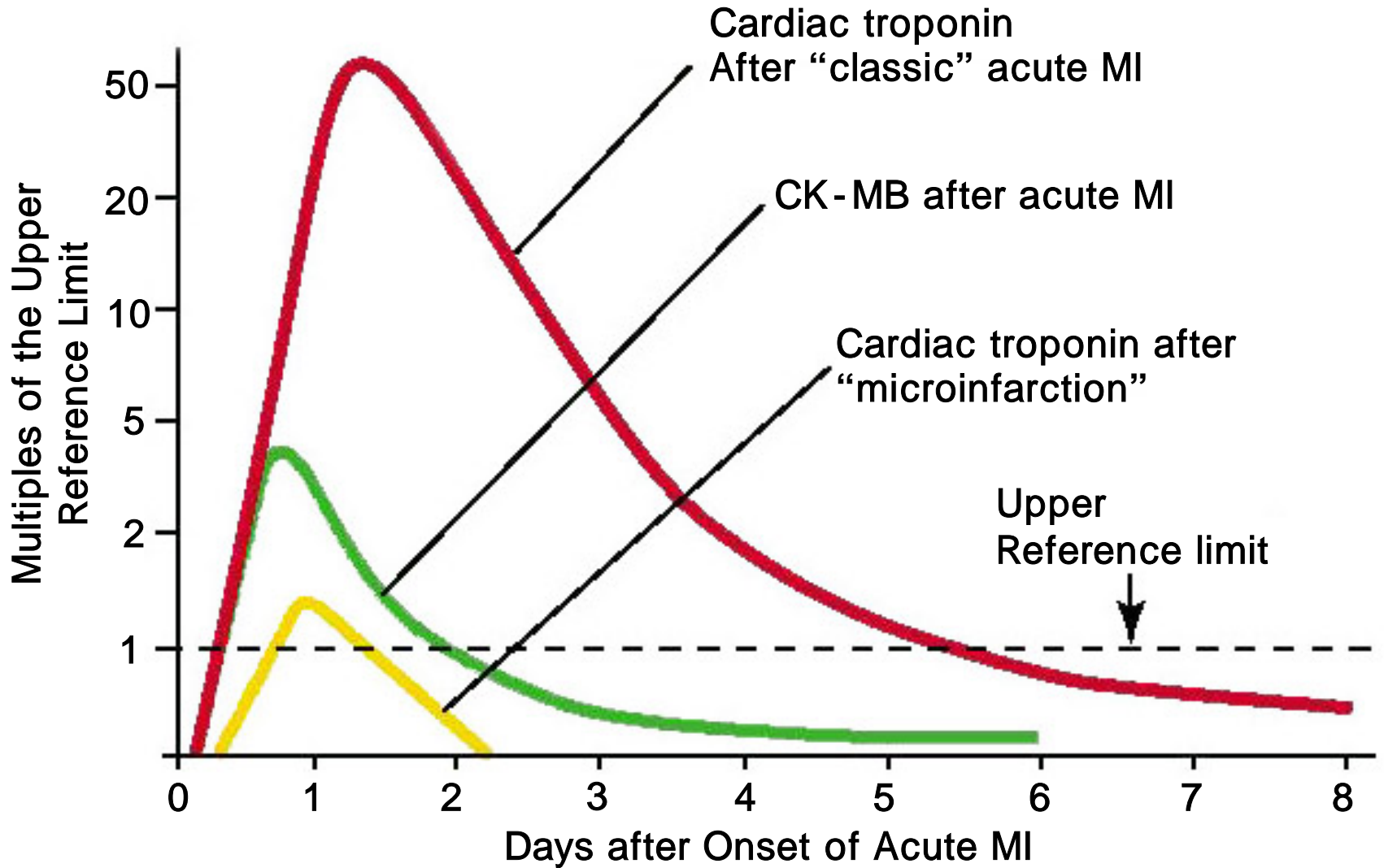




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Troponin

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- ❖ Cardiac injury
 - ❖ Contusions, Biopsy, Cardiac surgery
 - ❖ Ablation, Pacing, Electrical cardioversion
- ❖ Congestive heart failure
- ❖ Myocarditis
- ❖ Hypertension/Hypotension
- ❖ Pulmonary embolism
- ❖ Infiltrative disease: amyloidosis, scleroderma
- ❖ Drug toxicity (e.g. chemotherapy)





Troponin ()



-
- ❖ Renal failure
 - ❖ Hypothyroidism
 - ❖ Critical illness: decompensated DM
 - ❖ Sepsis/Severe Burns
 - ❖ Acute neurological disease: stroke
 - ❖ Rhabdomyolysis with cardiac injury
 - ❖ Transplant vasculopathy





Troponin



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1)

2)

3)

4)

mechanical





FACTOR	P Value
ACS (n=1855) (2.3%)	
C/C of SOB	0.02
Male ≥ 55 yr	0.08
Female <55 yr	0.02
Female ≥ 55 yr	0.40
Nonwhite race	0.03
Normal ECG	<0.001
AMI (n=889) (2.1%)	
Nonwhite race	0.002
Normal ECG	<0.001

N Engl J Med 2000;342:1163-70.)





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3

CCSC

III



40%



Sensitivity for Detecting AMI

