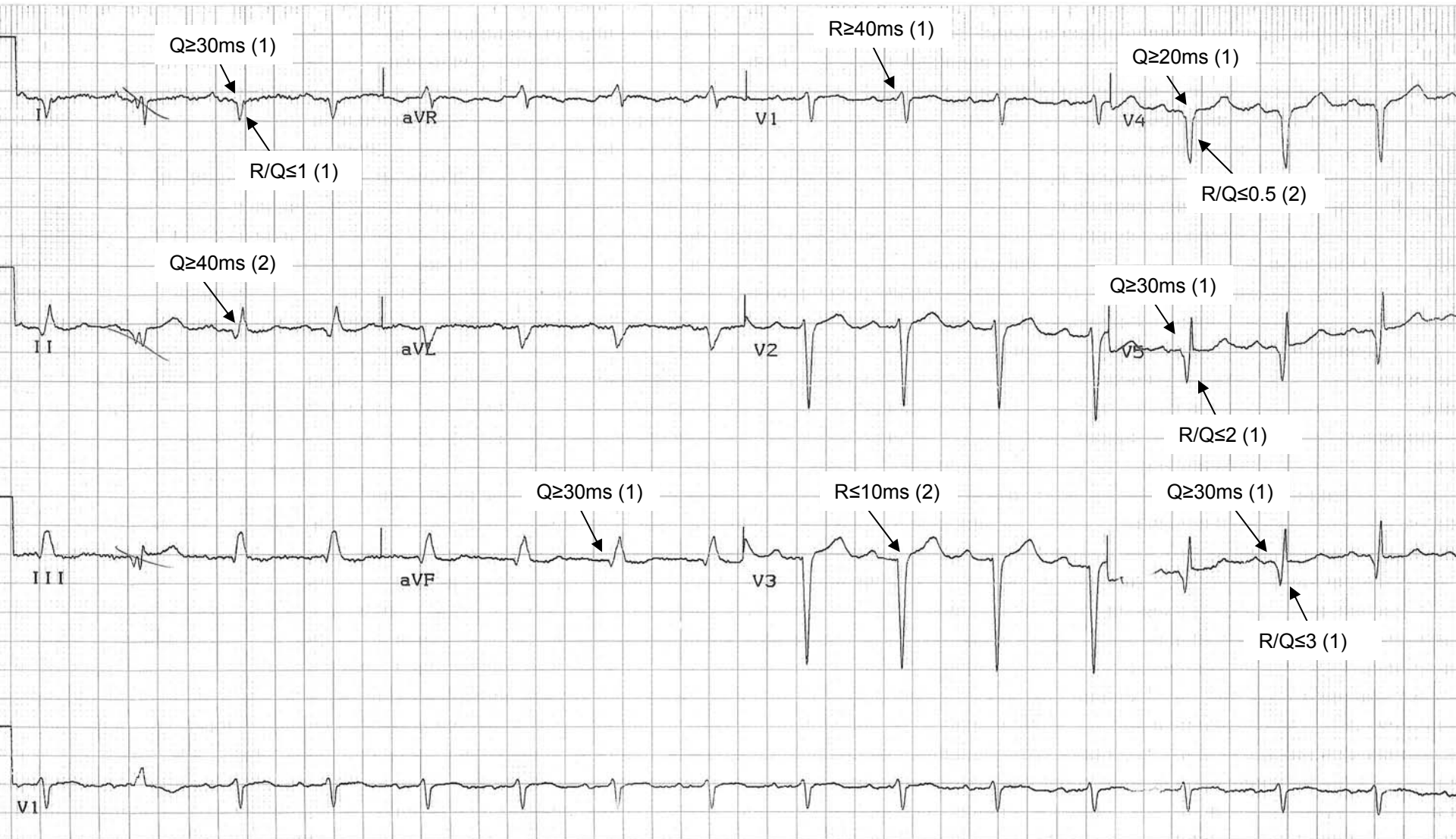


<b>Patient ID:</b>	01	<b>QRS Duration:</b>	112ms	<b>Amplitude Adjustment:</b>	+2%
<b>Age &amp; Sex:</b>	53 Male	<b>QRS Axis:</b>	+122°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	No Confounders	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	15 points (45%)



QRS scoring

Patient ID 01

QRS duration 112ms

Amplitude adjust +2%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 53 Male

QRS axis +122°

Duration adjust 0% RAO(\*\*, \*\*\*) Yes  No   
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders		LBBB		
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Lead	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	I	any Q	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		R/Q ≤ 1	2
II	R ≤ 0.2 mV	2	R ≤ 0.2 mV	2	R ≤ 0.2 mV	2	R ≤ 0.2 mV	2	R ≤ 0.2 mV	2	II	R/S ≤ 1	1
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2		R/Q ≤ 15	1
aVL	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	aVL	R/S ≤ 15	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		Q ≥ 40 ms	2
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	aVF	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1		R/Q ≤ 0.5	1
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	V1	R/S ≤ 0.5	2
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1		Q ≥ 50 ms	2
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *)	1	any Q	1	Ant.***	R/Q ≤ 0.5	1
	Init R ≤ 20 ms	2					NtchInit40					R/S ≤ 1	1
V1 Post.*	Init R ≥ 60 ms	2	R/S ≥ 1	1	Init R ≥ 60 ms	2	R/S ≥ 1	1	R/S ≥ 1	1	V1 Post	R/Q ≤ 1	1
	Init R ≥ 15 mV	2	R ≥ 50 ms	2	Init R ≥ 15 mV	2	R ≥ 50 ms	2	R ≥ 50 ms	2		Q ≥ 50 ms	2
V2	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1	V2	Q ≥ 40 ms	1
	Init R ≥ 10 mV	1	R ≥ 0.7 mV	1	Init R ≥ 10 mV	1	R ≥ 0.7 mV	1	R ≥ 0.7 mV	1		R/S ≥ 0.5	1
Ant.***	Q ≥ 50 ms	2	Qs0.2&S≤0.2mV	1	Q ≥ 50 ms	2	Qs0.2&S≤0.2 mV	1	Qs0.2&S≤0.2 mV	1	Ant.***	R/S ≤ 0.5	1
	any Q	1	any QR	1	any Q	1	any QR (or any Q if *)	1	any Q	1		NchInit40	1
V2 Post.*	R ≤ 10 ms	2	R ≤ 10 ms	2	R ≤ 10 ms	2	R ≤ 10 ms	2	R ≤ 10 ms	2	V2 Post	R ≥ 0.3 mV	2
	R ≤ 0.1 mV	1	R ≤ 0.1 mV	1	R ≤ 0.1 mV	1	R ≤ 0.1 mV	1	R ≤ 0.1 mV	1		R ≥ 30 ms	1
V3	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	V3	R ≥ 0.2 mV	1
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2		R ≥ 0.4 mV	2
Ant.***	Init R ≥ 2.5 mV	1	R ≥ 2 mV	1	Init R ≥ 2.5 mV	1	R ≥ 2 mV	1	R ≥ 2 mV	1	Ant.***	R ≥ 0.3 mV	1
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1		R ≥ 20 ms	1
V4	Init R ≥ 2.0 mV	1	R ≥ 15 mV	1	Init R ≥ 2.0 mV	1	R ≥ 15 mV	1	R ≥ 15 mV	1	V4	R/S' ≥ 2.5	3
	Qs0.3&S≤0.3mV	1	Qs0.3&S≤0.3mV	1	Qs0.3&S≤0.3mV	1	Qs0.3&S≤0.3mV	1	Qs0.3&S≤0.3mV	1		S/S' ≥ 2.0	2
V5	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2	V5	S/S' ≥ 15	1
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	NtchInit40	1	R ≤ 10 ms	1		any Q	1
V6	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR (or any Q if *)	1	Q ≥ 20 ms	1	V6	R/R' ≥ 2	2
	R ≤ 20 ms	1	R ≤ 20 ms	1	R ≤ 20 ms	1	any QR (or any Q if *)	1	R ≤ 20 ms	1		R/R' ≥ 1	1
Total	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Total	R/S ≤ 2	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2		Points	15
V1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	V1	R/S' ≥ 2.5	3
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		Post	2
V2	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	V2	S/S' ≥ 15	2
	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1		S/S' ≥ 125	1
V3	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	V3	NchInit40	1
	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1		Ant.***	2
V4	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	V4	R ≥ 30 ms	1
	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1		R ≥ 0.4 mV	2
V5	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	V5	R ≥ 0.3 mV	1
	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1		R ≥ 20 ms	1
V6	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	V6	R/S' ≥ 2.5	3
	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1		Post	2
Total	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	Total	S/S' ≥ 15	1
	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1	R/S ≤ 2	1		Points	15

%LV infarct (3 \* #pts) \_\_\_\_\_

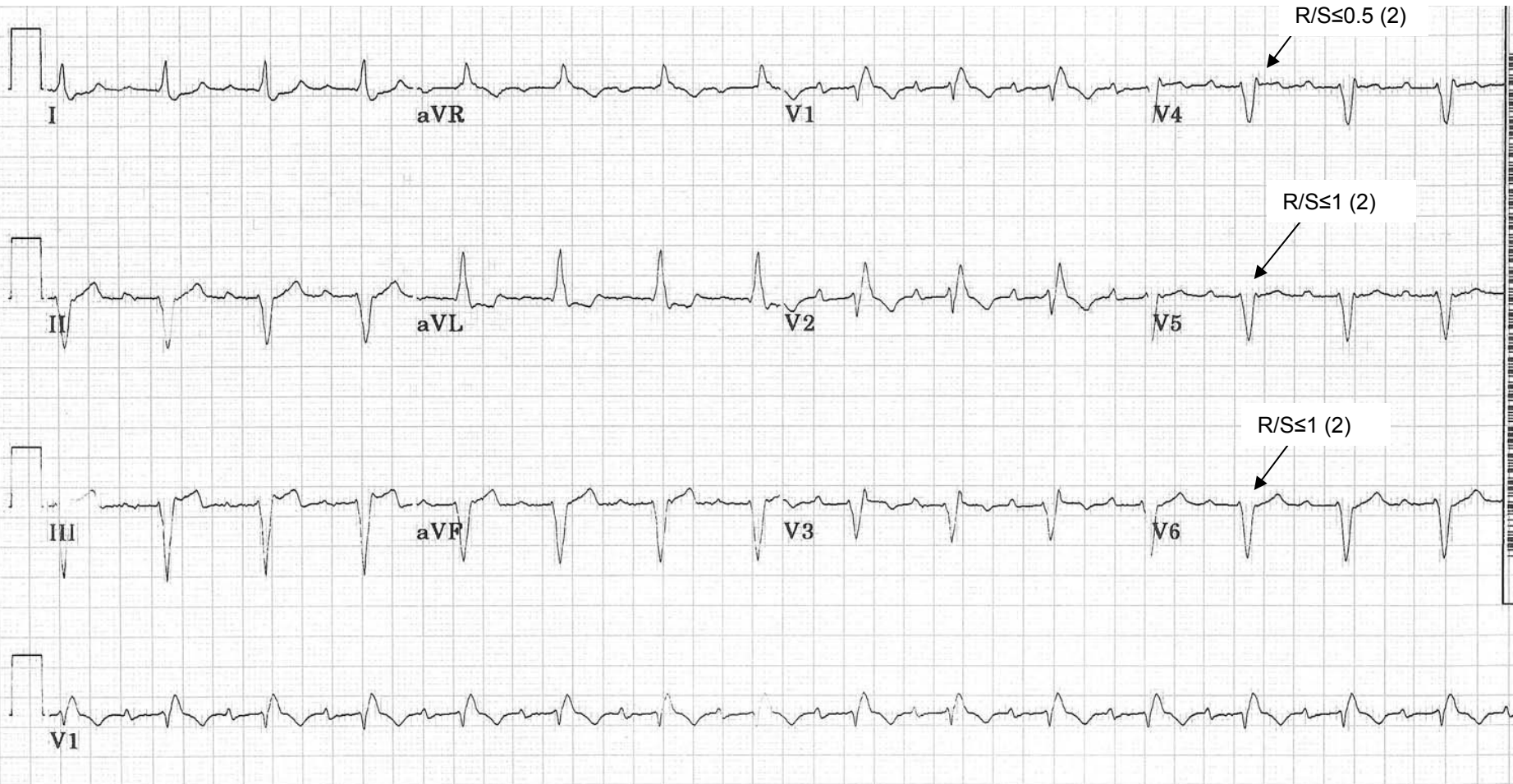
%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ **45**

\* (for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1 mV or aVF P ≥ 0.175 mV, then exclude V1+V2 Post criteria

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1 mV or aVF P ≥ 0.175 mV, then exclude V1+V2 R-criteria points

<b>Patient ID:</b>	02	<b>QRS Duration:</b>	166ms	<b>Amplitude Adjustment:</b>	+3%
<b>Age &amp; Sex:</b>	42 Female	<b>QRS Axis:</b>	-74°	<b>Duration Adjustment:</b>	-10%
<b>Conduction Type:</b>	LAFB + RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	6 points (18%)



Patient ID 02

QRS duration 166ms

Amplitude adjust +3%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 42 Female

QRS axis -74°

Duration adjust -10%

RAO(\*\*, \*\*\*)Yes **(No)**

(↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1
II	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2
aVL	Q ≥ 30 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 30 ms R/Q ≤ 1	1
aVF	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3
V1 Ant.	Q ≥ 50 ms any Q Init R ≤ 20 ms	2	any QR any QR	1	any QR any QR	1	any QR any QR Ntchlnit40	1	any Q any Q	1
V1 Post.*	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2	R/S ≥ 1 R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2	R/S ≥ 1 R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2	R/S ≥ 1 R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2
V2 Ant.	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1mV	2	any QR any QR R ≤ 10 ms R ≤ 0.1mV	1	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1mV	2	any QR any QR R ≤ 10 ms R ≤ 0.1mV	1	any Q any Q R ≤ 10 ms R ≤ 0.1mV	1
V2 Post.*	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2	R/S ≥ 15 R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV Qs0.3&Ss0.3mV	1	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2	R/S ≥ 15 R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV Qs0.3&Ss0.3mV	1	R/S ≥ 15 R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV Qs0.3&Ss0.3mV	1
V3	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	QR&(Q ≥ 30 ms) Ntchlnit40 any QR (or any Q if *)	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2
V4	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV Ntchlnit40	2	R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV Ntchlnit40	2	R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV Ntchlnit40	2	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV Ntchlnit40	2	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV Ntchlnit40	2
V5	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV Ntchlnit40	1
V6	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV Ntchlnit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV Ntchlnit40	1
<b>Total</b>	Points		Points		Points	<b>6</b>	Points		Points	

Lead	Criteria	Pts
I	any Q R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 15 R/S ≤ 15	2
II	Q ≥ 40 ms Q ≥ 30 ms	2
aVL	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5 R/S ≤ 0.5	2
aVF	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5 R/S ≤ 0.5	2
V1 Ant.***	Nchlnit40 R ≥ 0.3 mV R ≥ 30 ms R ≥ 0.2 mV R ≥ 20 ms	2
V1 Post	S/S' ≥ 2.0 S/S' ≥ 15 S/S' ≥ 125	3
V2 Ant.***	Nchlnit40 R ≥ 0.4 mV R ≥ 30 ms R ≥ 0.3 mV R ≥ 20 ms	2
V2 Post	S/S' ≥ 2.5 S/S' ≥ 2.0 S/S' ≥ 15	3
V5	any Q R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.5 mV	1
V6	Q ≥ 20 ms R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.6 mV	1
<b>Total</b>	Points	

%LV infarct (3 \* #pts) \_\_\_\_\_

%LV infarct (3 x #pts) \_\_\_\_\_

%LV infarct (3 x #pts) \_\_\_\_\_

%LV infarct (3 x #pts) **18**

%LV infarct (3 x #pts) \_\_\_\_\_

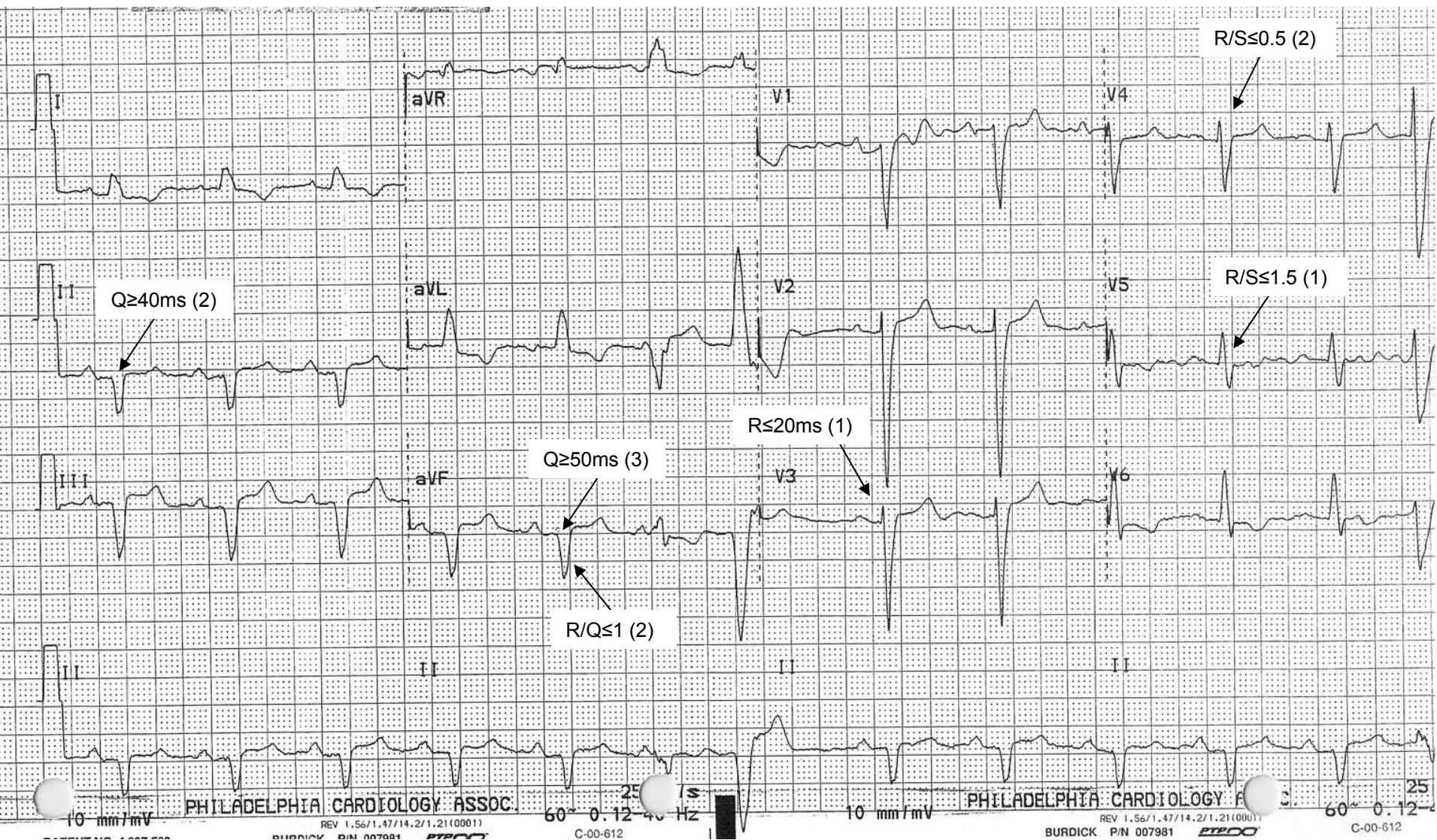
%LV infarct (3 x #pts) \_\_\_\_\_

\*(for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1+V2 Post criteria

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1+V2 R-criteria points

<b>Patient ID:</b>	03	<b>QRS Duration:</b>	118ms	<b>Amplitude Adjustment:</b>	+1%
<b>Age &amp; Sex:</b>	54 Male	<b>QRS Axis:</b>	-68°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LAFB	<b>Right Atrial Overload:</b>	Yes	<b>Total Points</b>	11 points (33%)



QRS Scoring

Patient ID 03 QRS duration 118ms Amplitude adjust +1%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 54 Male QRS axis -68° Duration adjust 0% RAO(\*\*, \*\*\*  Yes  No)  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	1	any QR	1
Ant.	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV	1	Init R ≤ 2.0 mV	1	Init R ≤ 2.0 mV	1	NtchInit40	1	Init R ≤ 2.0 mV	1
	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
V1 Post.*	Init R ≥ 60 ms	2	Init R ≥ 60 ms	2	Init R ≥ 60 ms	2	Init R ≥ 60 ms	2	Init R ≥ 60 ms	2
	Init R ≥ 15 mV	1	Init R ≥ 15 mV	1	Init R ≥ 15 mV	1	Init R ≥ 15 mV	1	Init R ≥ 15 mV	1
	Init R ≥ 10 mV	1	Init R ≥ 10 mV	1	Init R ≥ 10 mV	1	Init R ≥ 10 mV	1	Init R ≥ 10 mV	1
V2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	(or any Q if *)	1	R ≤ 10 ms	1
V2 Post.**	Init R ≥ 70 ms	2	Init R ≥ 70 ms	2	Init R ≥ 70 ms	2	Init R ≥ 70 ms	2	Init R ≥ 70 ms	2
	Init R ≥ 2.5 mV	1	Init R ≥ 2.5 mV	1	Init R ≥ 2.5 mV	1	Init R ≥ 2.5 mV	1	Init R ≥ 2.5 mV	1
	Init R ≥ 2.0 mV	1	Init R ≥ 2.0 mV	1	Init R ≥ 2.0 mV	1	Init R ≥ 2.0 mV	1	Init R ≥ 2.0 mV	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	OR & (Q ≥ 30 ms)	2	R ≤ 10 ms	1
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	NtchInit40	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms	1	R ≤ 20 ms	1	R ≤ 20 ms	1	(or any Q if *)	1	R ≤ 20 ms	1
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
V6	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1
	NtchInit40	1	NtchInit40	1	NtchInit40	1	NtchInit40	1	NtchInit40	1
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
Total	Points		Points	11	Points		Points		Points	

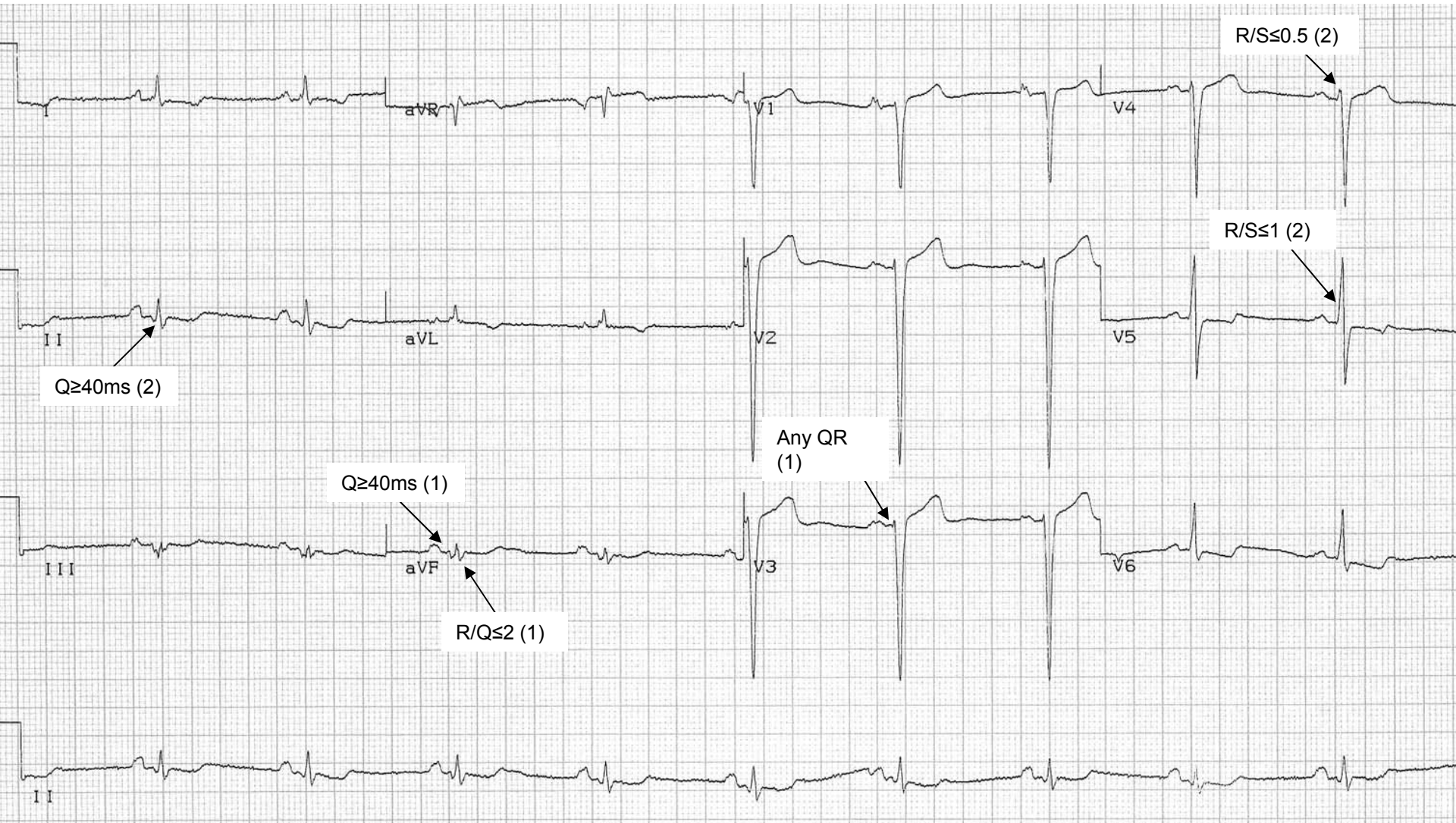
Lead	LBBB	
	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	1
II	R/Q ≤ 15	1
	R/S ≤ 15	1
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	1
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	1
	R/S ≤ 1	1
aVF	R/S ≤ 1	1
	R/Q ≤ 1	1
	Q ≥ 50 ms	2
V1 Ant.***	Q ≥ 30 ms	2
	R ≥ 30 ms	1
	R ≥ 0.2 mV	1
V1 Post	R ≥ 20 ms	1
	S/S' ≥ 2.0	3
	S/S' ≥ 1.5	2
V2 Ant.***	S/S' ≥ 125	1
	NtchInit40	1
	R ≥ 0.4 mV	2
V2 Post	R ≥ 30 ms	1
	R ≥ 0.3 mV	1
	R ≥ 20 ms	1
V5	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 1.5	1
V6	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
Total	R/S ≤ 2	1
	R ≤ 0.5 mV	1
	Points	

%LV infarct       
 (3 \* #pts)

%LV infarct      %LV infarct 33 %LV infarct      %LV infarct      %LV infarct       
 (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

\* (for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	04	<b>QRS Duration:</b>	112ms	<b>Amplitude Adjustment:</b>	+1%
<b>Age &amp; Sex:</b>	54 Male	<b>QRS Axis:</b>	-9°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LVH	<b>Right Atrial Overload:</b>	Yes	<b>Total Points</b>	9 points (27%)



Patient ID 04

QRS duration 112ms

Amplitude adjust +1%  
(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 54 Male

QRS axis -9°

Duration adjust 0% RAO(\*\*, \*\*\*Yes)No  
(↓ 10% for females)

	RBBB	LAFB	LAFB + RBBB	LVH	No Confounders
Lead	Criteria Pts	Criteria Pts	Criteria Pts	Criteria Pts	Criteria Pts
I	Q ≥ 30 ms 1 R/Q ≤ 1 1 R ≤ 0.2 mV	Q ≥ 30 ms 1 R/Q ≤ 1 1 R ≤ 0.2 mV	Q ≥ 30 ms 1 R/Q ≤ 1 1 R ≤ 0.2 mV	Q ≥ 30 ms 1 R/Q ≤ 1 1 R ≤ 0.2 mV	Q ≥ 30 ms 1 R/Q ≤ 1 1 R ≤ 0.2 mV
II	Q ≥ 40 ms 2 Q ≥ 30 ms 1	Q ≥ 40 ms 2 Q ≥ 30 ms 1	Q ≥ 40 ms 2 Q ≥ 30 ms 1	Q ≥ 40 ms 2 Q ≥ 30 ms 1	Q ≥ 40 ms 2 Q ≥ 30 ms 1
aVL	Q ≥ 30 ms 1 R/Q ≤ 1	Q ≥ 40 ms 1 R/Q ≤ 1	Q ≥ 40 ms 1 R/Q ≤ 1	Q ≥ 40 ms 1 R/Q ≤ 1	Q ≥ 30 ms 1 R/Q ≤ 1
aVF	Q ≥ 50 ms 3 Q ≥ 40 ms 2 Q ≥ 30 ms 1 R/Q ≤ 1 2 R/Q ≤ 2 1	Q ≥ 50 ms 3 Q ≥ 40 ms 2 Q ≥ 30 ms 1 R/Q ≤ 1 2 R/Q ≤ 2 1	Q ≥ 50 ms 3 Q ≥ 40 ms 2 Q ≥ 30 ms 1 R/Q ≤ 1 2 R/Q ≤ 2 1	Q ≥ 60 ms 3 Q ≥ 50 ms 2 Q ≥ 40 ms 1 R/Q ≤ 1 2 R/Q ≤ 2 1	Q ≥ 50 ms 3 Q ≥ 40 ms 2 Q ≥ 30 ms 1 R/Q ≤ 1 2 R/Q ≤ 2 1
V1	Q ≥ 50 ms 2 any Q 1 Init R ≤ 20 ms	any QR 1	Q ≥ 50 ms 2 any Q 1	any QR (or any Q if *) NtchInit40	any Q 1
V1 Post.**	Init R ≥ 60 ms 2 Init R ≥ 15 mV 1 Init R ≥ 50 ms 1 Init R ≥ 10 mV	R/S ≥ 1 1 R ≥ 50 ms 2 R ≥ 1mV 1 R ≥ 40 ms 1 R ≥ 0.7 mV	Init R ≥ 60 ms 2 Init R ≥ 15 mV 1 Init R ≥ 50 ms 1 Init R ≥ 10 mV	<del>R/S ≥ 1 1 R ≥ 50 ms 2 R ≥ 1mV 1 R ≥ 40 ms 1 R ≥ 0.7 mV</del>	R/S ≥ 1 1 R ≥ 50 ms 2 R ≥ 1mV 1 R ≥ 40 ms 1 R ≥ 0.7 mV
V2	Q ≥ 50 ms 2 any Q 1 R ≤ 10 ms R ≤ 0.1mV	any QR 1 R ≤ 10 ms R ≤ 0.1mV	Q ≥ 50 ms 2 any Q 1 R ≤ 10 ms R ≤ 0.1mV	any QR (or any Q if *) NtchInit40	any Q 1 R ≤ 10 ms R ≤ 0.1mV
V2 Post.**	Init R ≥ 70 ms 2 Init R ≥ 2.5 mV 1 Init R ≥ 50 ms 1 Init R ≥ 2.0 mV	R/S ≥ 15 1 R ≥ 60 ms 2 R ≥ 2 mV 1 R ≥ 50 ms 1 R ≥ 15 mV	Init R ≥ 70 ms 2 Init R ≥ 2.5 mV 1 Init R ≥ 50 ms 1 Init R ≥ 2.0 mV	<del>R/S ≥ 15 1 R ≥ 60 ms 2 R ≥ 2 mV 1 R ≥ 50 ms 1 R ≥ 15 mV</del>	R/S ≥ 15 1 R ≥ 60 ms 2 R ≥ 2 mV 1 R ≥ 50 ms 1 R ≥ 15 mV
V3	Q ≥ 30 ms 2 R ≤ 10 ms Q ≥ 20 ms 1 R ≤ 20 ms	Q ≥ 30 ms 2 R ≤ 10 ms Q ≥ 20 ms 1 R ≤ 20 ms	Q ≥ 30 ms 2 R ≤ 10 ms Q ≥ 20 ms 1 R ≤ 20 ms	QR&(Q ≥ 30 ms) 2 NtchInit40 1 any QR (or any Q if *)	Q ≥ 30 ms 2 R ≤ 10 ms Q ≥ 20 ms 1 R ≤ 20 ms
V4	Q ≥ 20 ms 1 R/Q ≤ 0.5 2 R/S ≤ 0.5 R/Q ≤ 1 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	Q ≥ 20 ms 1 R/Q ≤ 0.5 2 R/S ≤ 0.5 R/Q ≤ 1 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	Q ≥ 20 ms 1 R/Q ≤ 0.5 2 R/S ≤ 0.5 R/Q ≤ 1 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	Q ≥ 20 ms 1 R/Q ≤ 0.5 2 R/S ≤ 1 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	Q ≥ 20 ms 1 R/Q ≤ 0.5 2 R/S ≤ 0.5 R/Q ≤ 1 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40
V5	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 2 1 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 2 1 R/S ≤ 15 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 2 1 R/S ≤ 15 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 2 1 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 2 1 R/S ≤ 2 R ≤ 0.6 mV NtchInit40
V6	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 3 1 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 3 1 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 3 1 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 3 1 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	Q ≥ 30 ms 1 R/Q ≤ 1 2 R/S ≤ 1 R/Q ≤ 3 1 R/S ≤ 3 R ≤ 0.6 mV NtchInit40
Total	Points	Points	Points	Points 9	Points

Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
II	R/S ≤ 1	1
	R/Q ≤ 15	1
aVL	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
aVF	R/Q ≤ 0.5	1
	R/S ≤ 0.5	1
V1	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1 Ant.***	R/Q ≤ 0.5	1
	R/S ≤ 1	1
V1 Post	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V2	R/Q ≤ 0.5	1
	R/S ≤ 0.5	1
V2 Ant.***	NtchInit40	1
	R ≥ 0.3 mV	2
V3	R ≥ 30 ms	1
	R ≥ 0.2 mV	1
V3 Ant.***	R ≥ 0.3 mV	2
	R ≥ 30 ms	1
V4	R ≥ 20 ms	1
	R ≥ 0.2 mV	1
V4 Ant.***	R ≥ 0.2 mV	1
	R ≥ 20 ms	1
V5	S/S' ≥ 2.0	3
	S/S' ≥ 15	2
V5 Ant.***	S/S' ≥ 125	1
	NtchInit40	1
V6	R ≥ 0.4 mV	2
	R ≥ 30 ms	1
V6 Ant.***	R ≥ 0.3 mV	1
	R ≥ 20 ms	1
V7	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
V7 Ant.***	S/S' ≥ 15	1
	any Q	1
V8	R/R' ≥ 2	2
	R/R' ≥ 1	1
V8 Ant.***	R/S ≤ 2	1
	R ≤ 0.5 mV	1
V9	Q ≥ 20 ms	1
	R/R' ≥ 2	2
V9 Ant.***	R/R' ≥ 1	1
	R/S ≤ 2	1
Total	Points	

%LV infarct         
(3 \* #pts)

%LV infarct        %LV infarct        %LV infarct        %LV infarct 27 %LV infarct         
(3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

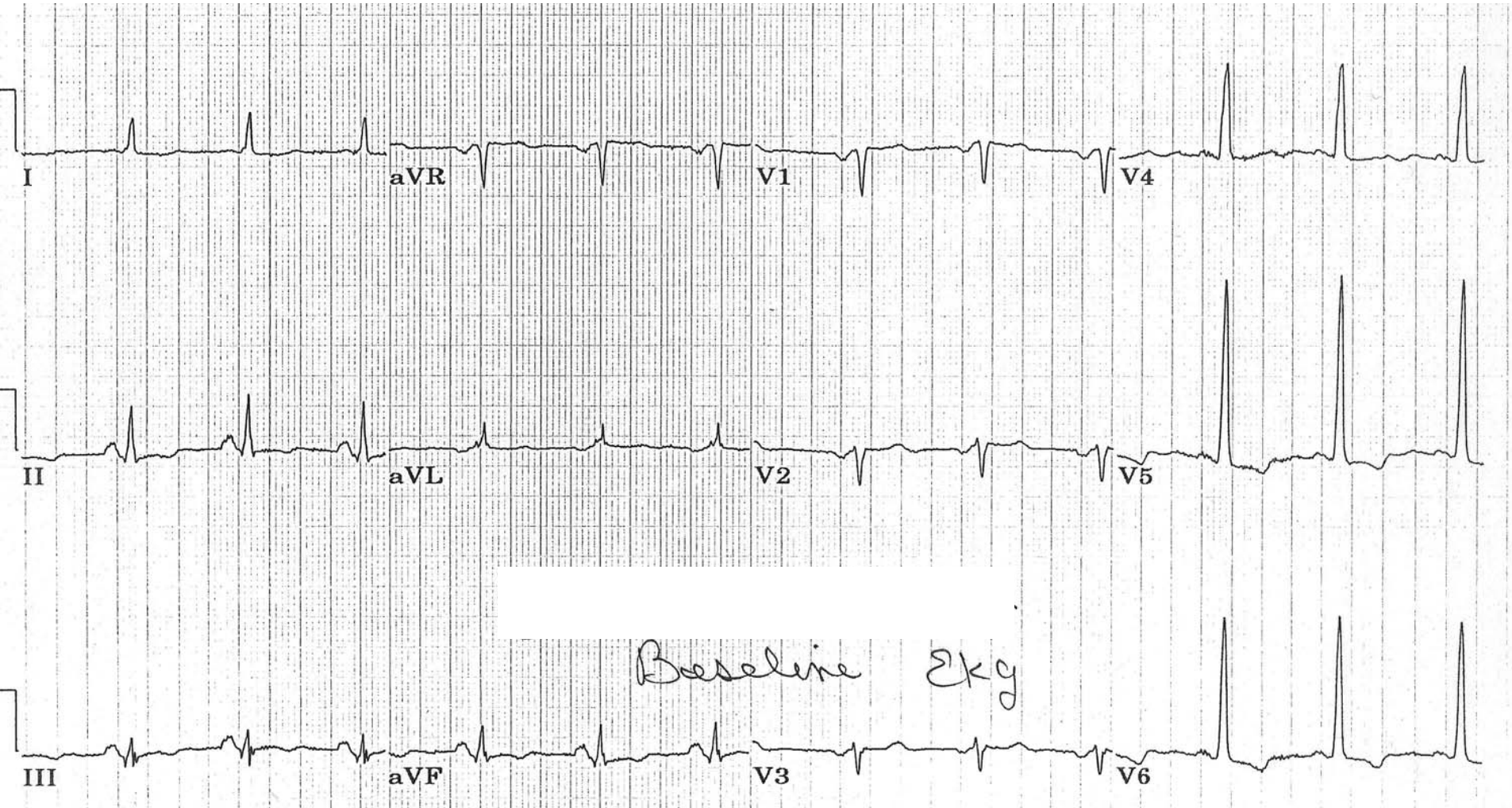
\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 Post criteria

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points



<b>Patient ID:</b>	05	<b>QRS Duration:</b>	96ms	<b>Amplitude Adjustment:</b>	-15%
<b>Age &amp; Sex:</b>	60 Female	<b>QRS Axis:</b>	+37°	<b>Duration Adjustment:</b>	-10%
<b>Conduction Type:</b>	LVH	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	0 points (0%)



**QRS Scoring**

Patient ID 05 QRS duration 96ms Amplitude adjust -15%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 60 Female QRS axis +37° Duration adjust -10% RAO(\*\*, \*\*\*)Yes(No)  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1 R ≤ 0.2 mV	1	R/Q ≤ 1 R ≤ 0.2 mV	1	R/Q ≤ 1 R ≤ 0.2 mV	1	R/Q ≤ 1 R ≤ 0.2 mV	1	R/Q ≤ 1 R ≤ 0.2 mV	1
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
V1	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *) Ntchlnit40	1	any Q	1
Post.*	Init R ≥ 60 ms	2	R/S ≥ 1	1	Init R ≥ 60 ms	2	R/S ≥ 1	1	R/S ≥ 1	1
V2	Init R ≥ 15 mV	1	R ≥ 50 ms	2	Init R ≥ 15 mV	1	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 10 mV	1	R ≥ 40 ms	1	Init R ≥ 10 mV	1	R ≥ 40 ms	1	R ≥ 40 ms	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *) Ntchlnit40	1	any Q	1
Post.*	Init R ≥ 2.5 mV	2	R/S ≥ 15	1	Init R ≥ 2.5 mV	2	R/S ≥ 15	1	R/S ≥ 15	1
V3	Init R ≥ 2.0 mV	1	R ≥ 50 ms	2	Init R ≥ 2.0 mV	1	R ≥ 50 ms	2	R ≥ 50 ms	2
	Q ≥ 30 ms	1	R ≥ 15 mV	1	Q ≥ 30 ms	1	R ≥ 15 mV	1	R ≥ 15 mV	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *) Ntchlnit40	1	any Q	1
Post.*	Init R ≥ 70 ms	2	R ≥ 80 ms	2	Init R ≥ 70 ms	2	R ≥ 80 ms	2	R ≥ 80 ms	2
V4	Init R ≥ 2.5 mV	2	R ≥ 2 mV	1	Init R ≥ 2.5 mV	2	R ≥ 2 mV	1	R ≥ 2 mV	1
	Init R ≥ 2.0 mV	1	R ≥ 50 ms	1	Init R ≥ 2.0 mV	1	R ≥ 50 ms	1	R ≥ 50 ms	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *) Ntchlnit40	1	any Q	1
Post.*	Init R ≥ 70 ms	2	R ≥ 80 ms	2	Init R ≥ 70 ms	2	R ≥ 80 ms	2	R ≥ 80 ms	2
V5	Init R ≥ 2.5 mV	2	R ≥ 2 mV	1	Init R ≥ 2.5 mV	2	R ≥ 2 mV	1	R ≥ 2 mV	1
	Init R ≥ 2.0 mV	1	R ≥ 50 ms	1	Init R ≥ 2.0 mV	1	R ≥ 50 ms	1	R ≥ 50 ms	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *) Ntchlnit40	1	any Q	1
Post.*	Init R ≥ 70 ms	2	R ≥ 80 ms	2	Init R ≥ 70 ms	2	R ≥ 80 ms	2	R ≥ 80 ms	2
V6	Init R ≥ 2.5 mV	2	R ≥ 2 mV	1	Init R ≥ 2.5 mV	2	R ≥ 2 mV	1	R ≥ 2 mV	1
	Init R ≥ 2.0 mV	1	R ≥ 50 ms	1	Init R ≥ 2.0 mV	1	R ≥ 50 ms	1	R ≥ 50 ms	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *) Ntchlnit40	1	any Q	1
Post.*	Init R ≥ 70 ms	2	R ≥ 80 ms	2	Init R ≥ 70 ms	2	R ≥ 80 ms	2	R ≥ 80 ms	2
Total	Points		Points		Points		Points	0	Points	

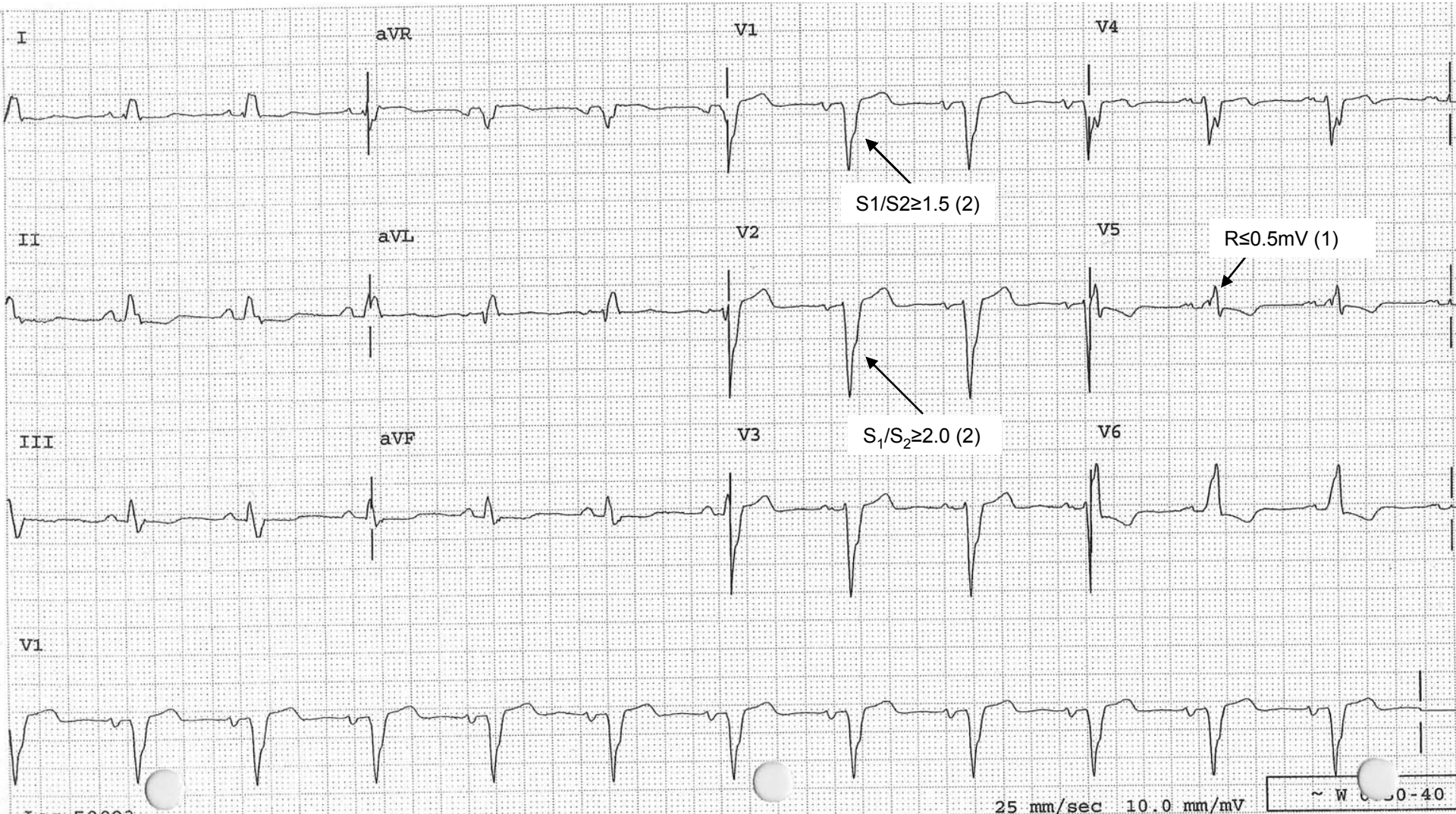
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 15 R/S ≤ 15	2
II	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
aVL	Q ≥ 50 ms	2
aVF	Q ≥ 50 ms	2
V1	Ntchlnit40	1
Ant.***	R ≥ 0.3 mV R ≥ 30 ms R ≥ 0.2 mV R ≥ 20 ms	2
V1 Post	S/S' ≥ 2.0 S/S' ≥ 1.5 S/S' ≥ 125	3
V2	Ntchlnit40	1
Ant.***	R ≥ 0.4 mV R ≥ 30 ms R ≥ 0.3 mV R ≥ 20 ms	2
V2 Post	S/S' ≥ 2.5 S/S' ≥ 2.0 S/S' ≥ 15	3
V5	any Q R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.5 mV	1
V6	Q ≥ 20 ms R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2	1
Total	Points	

%LV infarct (3 \* #pts) \_\_\_\_\_

%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) 0 %LV infarct (3 x #pts) \_\_\_\_\_

\* (for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1+V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1+V2 R-criteria points

<b>Patient ID:</b>	06	<b>QRS Duration:</b>	140ms	<b>Amplitude Adjustment:</b>	-15%
<b>Age &amp; Sex:</b>	60 Female	<b>QRS Axis:</b>	+30°	<b>Duration Adjustment:</b>	-10%
<b>Conduction Type:</b>	LBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points:</b>	5 points (15%)



QRS Scoring

Patient ID 06 QRS duration 140ms Amplitude adjust -15%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 60 Female QRS axis +30° Duration adjust -10% RAO(\*\*, \*\*\*)Yes No  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
Ant.	Init R ≤ 20 ms						NtchInit40			
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
V2	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1
Ant.	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR	1	any Q	1
	any Q	1	R ≤ 10 ms		any Q	1	(or any Q if *)		R ≤ 10 ms	
	R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		NtchInit40		R ≤ 0.1mV	
V2	R ≤ 0.1mV		R/S ≥ 15	1	R ≤ 0.1mV		R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
Post.**	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
V5	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
V6	R/S ≤ 2		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2		R/S ≤ 2	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
Total	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3		R/S ≤ 3	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
<b>Total</b>	<b>Points</b>		<b>Points</b>		<b>Points</b>		<b>Points</b>		<b>Points</b>	

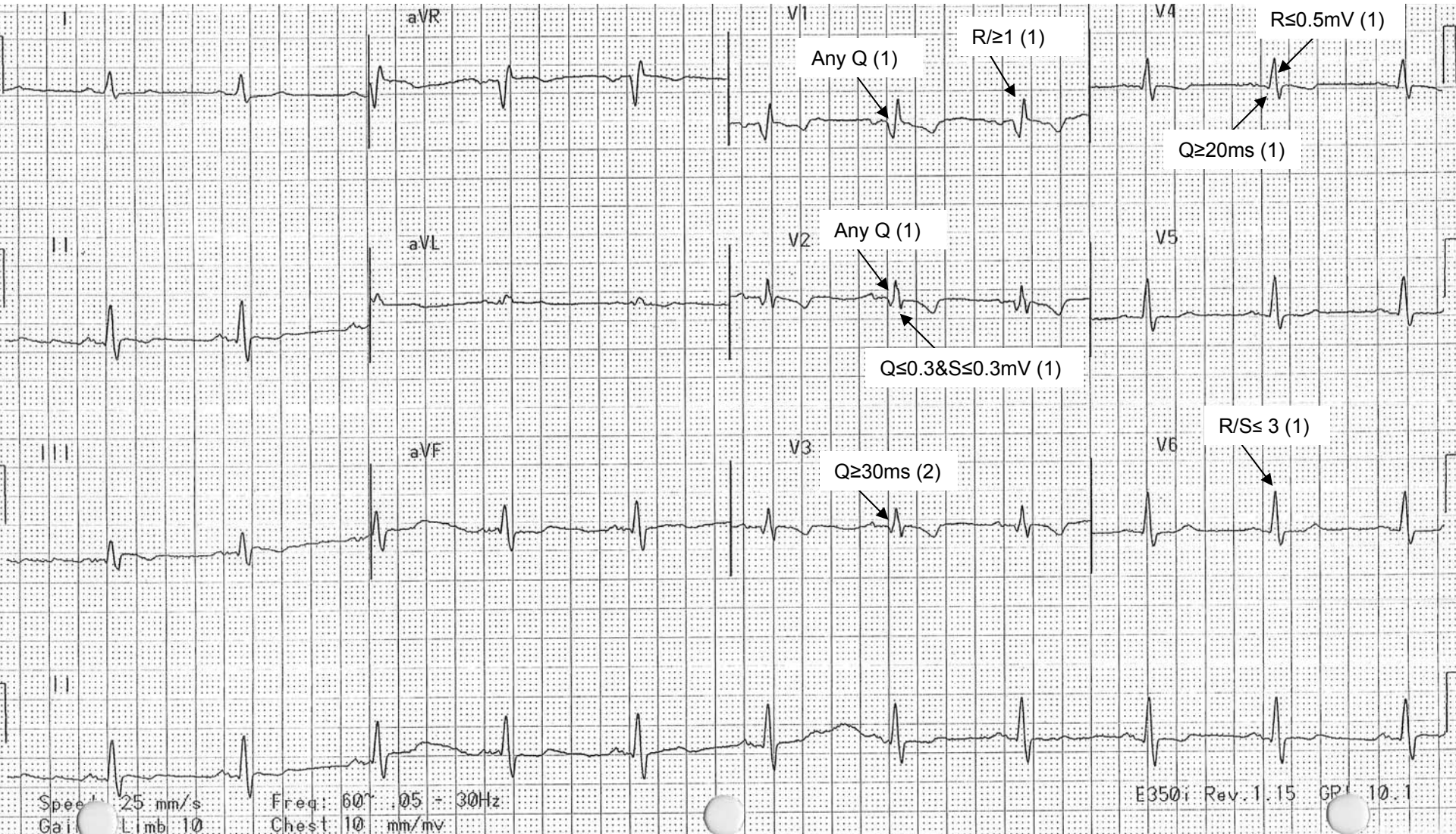
LBBB		
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
aVF	R/S ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
	R/Q ≤ 1	1
Ant.***	NtchInit40	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	
V1	R ≥ 0.2 mV	1
	R ≥ 20 ms	
	S/S' ≥ 2.0	3
Post	S/S' ≥ 15	2
	S/S' ≥ 125	1
	NtchInit40	1
Ant.***	R ≥ 0.4 mV	2
	R ≥ 30 ms	
	R ≥ 0.3 mV	1
V2	R ≥ 20 ms	
	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
Post	S/S' ≥ 15	1
	any Q	1
	R/R' ≥ 2	2
V5	R/R' ≥ 1	1
	R/S ≤ 2	
	R ≤ 0.5 mV	1
V6	Q ≥ 20 ms	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
Total	R/S ≤ 2	1
	R ≤ 0.6 mV	1
	Points	5

%LV infarct 15  
(3 x #pts)

%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 Post criteria  
 \*\*\* (RAO) if P positive amp in V1 ≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	07	<b>QRS Duration:</b>	108ms	<b>Amplitude Adjustment:</b>	-3%
<b>Age &amp; Sex:</b>	58 Male	<b>QRS Axis:</b>	+39°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	No Confounders	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	9 points (27%)



Patient ID 07

QRS duration 108ms

Amplitude adjust -3%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 58 Male

QRS axis +39°

Duration adjust 0%

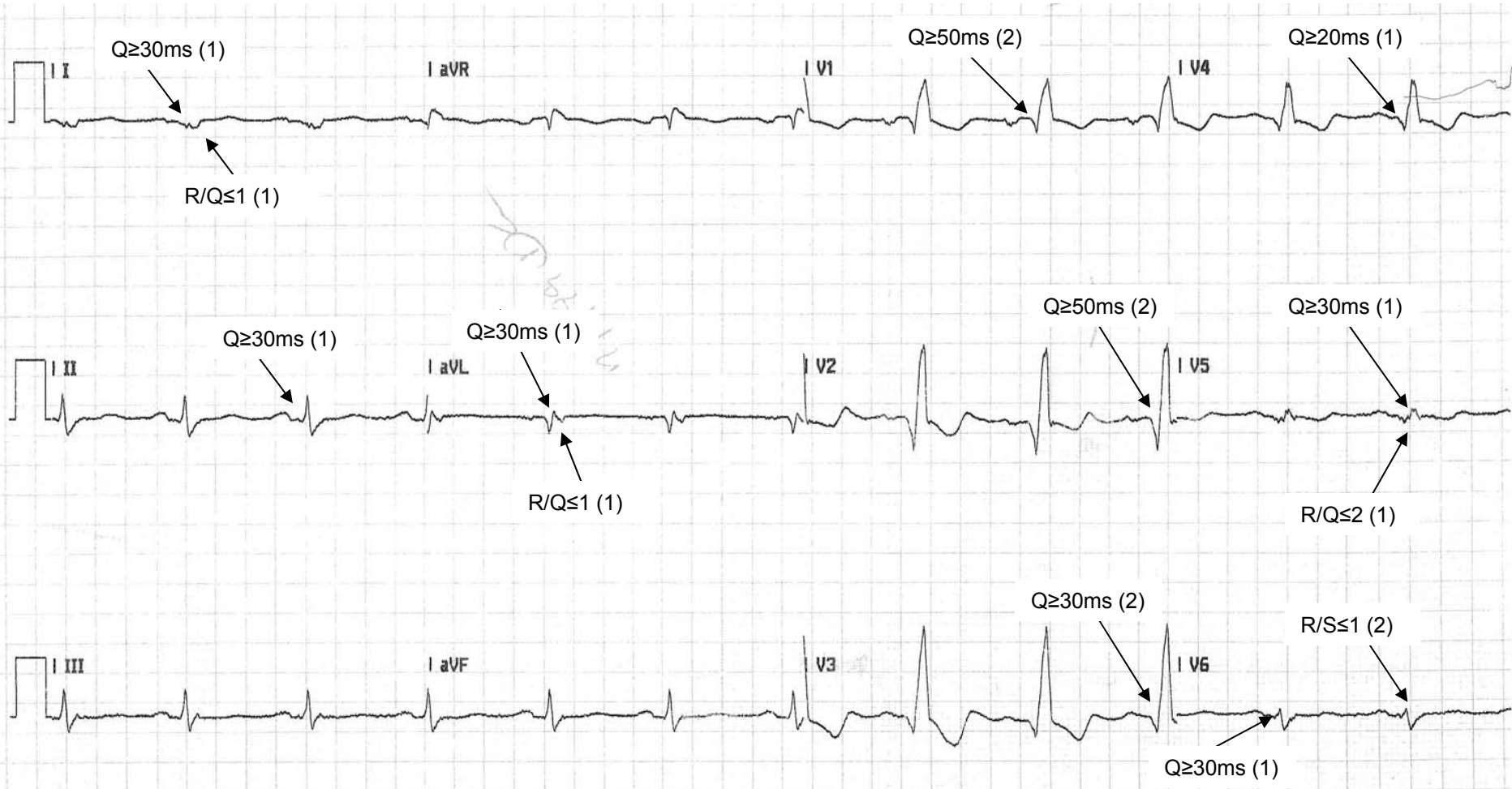
RAO(\*\*, \*\*\*)Yes **(No)**

(↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR		any QR	
	any Q	1	any QR	1	any Q	1	(or any Q if *)		any Q	1
Ant.	Init R ≤ 20 ms						NtchInit40			
	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
Post.**	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
V2	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
	R ≤ 10 ms		R ≤ 10ms		R ≤ 10 ms		(or any Q if *)		R ≤ 10ms	
V2	R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV	
	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
Post.**	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR		Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
V5	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
V6	R/S ≤ 2		R/S ≤ 15		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
Total	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
Total	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Points		Points		Points		Points		Points	9

Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	

<b>Patient ID:</b>	08	<b>QRS Duration:</b>	162ms	<b>Amplitude Adjustment:</b>	+1%
<b>Age &amp; Sex:</b>	54 Male	<b>QRS Axis:</b>	+112°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	17 points (51%)



QRS Scoring

Patient ID 08

QRS duration 162ms

Amplitude adjust +1%  
(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 54 Male

QRS axis +112°

Duration adjust 0% RAO(\*\*, \*\*\*) Yes/No  
(↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1 1 1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1 1 1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1 1 1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1 1 1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1 1 1
II	Q ≥ 40 ms Q ≥ 30 ms	2 1	Q ≥ 40 ms Q ≥ 30 ms	2 1	Q ≥ 40 ms Q ≥ 30 ms	2 1	Q ≥ 40 ms Q ≥ 30 ms	2 1	Q ≥ 40 ms Q ≥ 30 ms	2 1
aVL	Q ≥ 30 ms R/Q ≤ 1	1 1	Q ≥ 40 ms R/Q ≤ 1	1 1	Q ≥ 40 ms R/Q ≤ 1	1 1	Q ≥ 40 ms R/Q ≤ 1	1 1	Q ≥ 30 ms R/Q ≤ 1	1 1
aVF	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 60 ms Q ≥ 50 ms Q ≥ 40 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1
V1	Q ≥ 50 ms	2			Q ≥ 50 ms	2	any QR (or any Q if *) NtchInit40	1	any Q	1
Ant.	any Q Init R ≤ 20 ms	1 1	any QR	1	any Q	1			any Q	1
V1			R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
Post.**	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2 1 1 1	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2 1 1 1	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2 1 1 1	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2 1 1 1	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2 1 1 1
V2	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
Ant.	any Q R ≤ 10 ms R ≤ 0.1mV	1 1 1	any QR R ≤ 10 ms R ≤ 0.1mV	1 1 1	any Q R ≤ 10 ms R ≤ 0.1mV	1 1 1	any QR (or any Q if *) NtchInit40	1	any Q R ≤ 10 ms R ≤ 0.1mV	1 1 1
V2			R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1
Post.**	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2 1 1 1	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2 1 1 1	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2 1 1 1	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2 1 1 1	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2 1 1 1
V3	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1	QR&(Q ≥ 30 ms) NtchInit40 any QR (or any Q if *)	2 1 1 1	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1
V4	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1
V5	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 15	1 2 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 15	1 2 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2	1 2 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2	1 2 1 1 1
V6	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2	1 2 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2	1 2 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3	1 2 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3	1 2 1 1 1
Total	Points	17	Points		Points		Points		Points	

%LV infarct 51 (3 x #pts)    %LV infarct \_\_\_\_\_ (3 x #pts)    %LV infarct \_\_\_\_\_ (3 x #pts)    %LV infarct \_\_\_\_\_ (3 x #pts)    %LV infarct \_\_\_\_\_ (3 x #pts)

Lead	LBBB	
	Criteria	Pts
I	any Q R/Q ≤ 1 R/S ≤ 1	1 2 1
II	Q ≥ 40 ms Q ≥ 30 ms	2 1
aVL	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5	2 1 1
aVF	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5	2 1 1
V1	NchInit40	1
Ant.***	R ≥ 0.3 mV R ≥ 30 ms R ≥ 0.2 mV R ≥ 20 ms	2 1 1 1
V1	S/S' ≥ 2.0	3
Post	S/S' ≥ 15	2
V2	NchInit40	1
Ant.***	R ≥ 0.4 mV R ≥ 30 ms R ≥ 0.3 mV R ≥ 20 ms	2 1 1 1
V2	S/S' ≥ 2.5	3
Post	S/S' ≥ 2.0 S/S' ≥ 15	2 1
V5	any Q R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.5 mV	1 2 1 1 1
V6	Q ≥ 20 ms R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2	1 2 1 1
Total	Points	

%LV infarct \_\_\_\_\_  
(3 #pts)

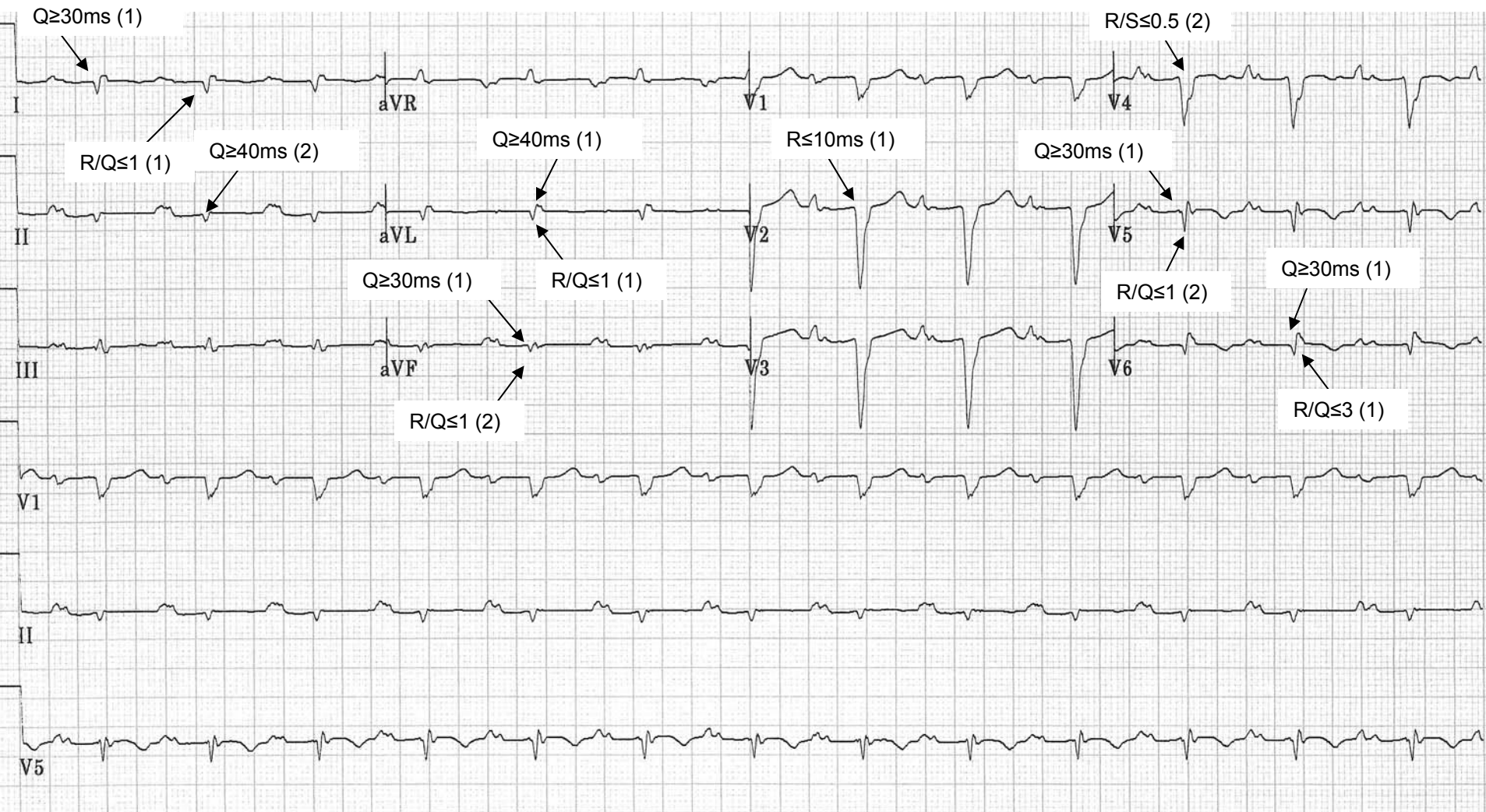
\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1-V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points



<b>Patient ID:</b>	09	<b>QRS Duration:</b>	114ms	<b>Amplitude Adjustment:</b>	+1%
<b>Age &amp; Sex:</b>	54 Male	<b>QRS Axis:</b>	204°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LAFB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	17 points (51%)



QRS Scoring

Patient ID 09 QRS duration 114ms Amplitude adjust +1%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 54 Male QRS axis 204° Duration adjust 0% RAO(\*\*, \*\*\*)Yes/No  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1	R ≤ 0.2 mV	1
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
Ant.	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV	1	any QR	1	any Q	1	NtchInit40	1	any Q	1
	Init R ≥ 60 ms	2	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
Post.**	Init R ≥ 15 mV	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 15 mV	1	R ≥ 1mV	1	R ≥ 1mV	1
	Init R ≥ 10 mV	1	R ≥ 0.7 mV	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	(or any Q if *)	1	R ≤ 10 ms	1
Post.**	Init R ≥ 70 ms	2	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 2.5 mV	1	R ≥ 2 mV	1	Init R ≥ 2.5 mV	1	R ≥ 2 mV	1	R ≥ 2 mV	1
	Init R ≥ 2.0 mV	1	R ≥ 15 mV	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	NtchInit40	1	R ≤ 10 ms	1
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1
V5	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1	R ≤ 0.5 mV	1
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
Total	Points		Points	17	Points		Points		Points	

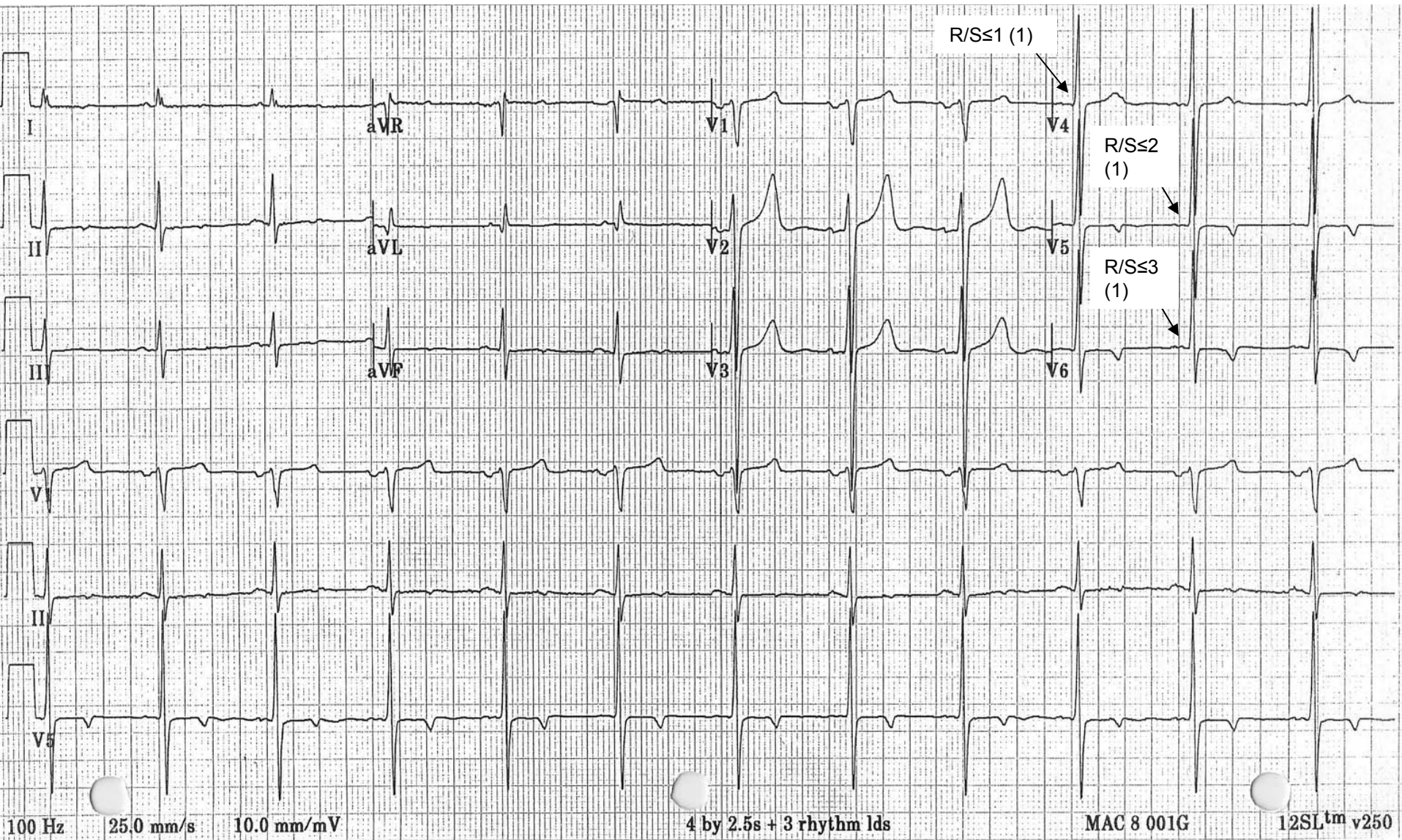
Lead	LBBB	
	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	1
II	R/Q ≤ 15	1
	R/S ≤ 15	1
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	1
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	1
	R/S ≤ 1	1
Ant.***	R/S ≤ 1	1
	R/Q ≤ 1	1
	R/S ≤ 1	1
V1 Post	R ≥ 0.3 mV	2
	R ≥ 30 ms	1
	R ≥ 0.2 mV	1
V1 Ant.***	R ≥ 20 ms	1
	S/S' ≥ 2.0	3
	S/S' ≥ 1.5	2
V2 Post	S/S' ≥ 125	1
	NchInit40	1
	R ≥ 0.4 mV	2
V2 Ant.***	R ≥ 30 ms	1
	R ≥ 0.3 mV	1
	R ≥ 20 ms	1
V2 Post	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 1.5	1
V5	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
V6	R/S ≤ 2	1
	R/S ≤ 2	1
	R/S ≤ 2	1
Total	Points	

%LV infarct       
 (3 \* #pts)

%LV infarct         %LV infarct 51    %LV infarct         %LV infarct         %LV infarct       
 (3 x #pts)                      (3 x #pts)                      (3 x #pts)                      (3 x #pts)

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1-V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	10	<b>QRS Duration:</b>	92ms	<b>Amplitude Adjustment:</b>	+4%
<b>Age &amp; Sex:</b>	51 Male	<b>QRS Axis:</b>	+33°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LVH	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	3 points (9%)



QRS Scoring

Patient ID 10 QRS duration 92ms Amplitude adjust +4%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 51 Male QRS axis +33° Duration adjust 0% RAO(\*\*, \*\*\*)Yes (No)  
 (↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
Ant.	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV						NtchInit40			
	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
V1 Post.**	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
V2 Ant.	R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms	
	R ≤ 0.1mV				R ≤ 0.1mV				R ≤ 0.1mV	
	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1
V2 Post.**	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
V5	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
V6	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
Total	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3	
Total	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Points		Points		Points		Points	3	Points	

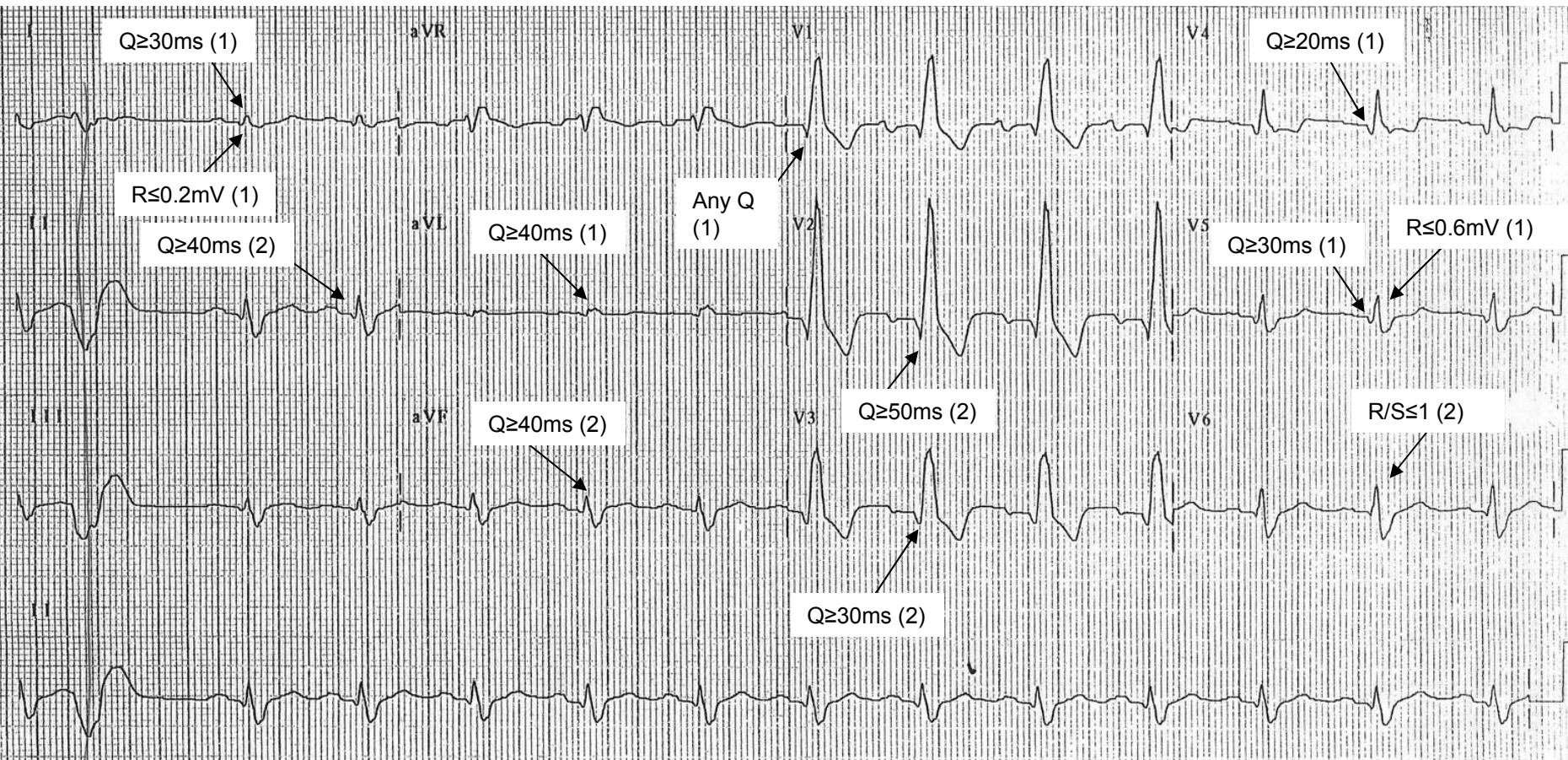
LBBB		
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
aVF	R/S ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1 Ant.***	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
	R/Q ≤ 1	1
V1 Post	R ≥ 0.3 mV	2
	R ≥ 30 ms	
	R ≥ 0.2 mV	1
V2	R ≥ 20 ms	
	S/S' ≥ 2.0	3
	S/S' ≥ 15	2
V2 Ant.***	S/S' ≥ 125	1
	NchInit40	
	R ≥ 0.4 mV	2
V2 Post	R ≥ 30 ms	
	R ≥ 0.3 mV	1
	R ≥ 20 ms	
V5	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 15	1
V6	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
Total	R/S ≤ 2	
	R ≤ 0.5 mV	1
	Points	

%LV infarct       
 (3 \*#pts)

%LV infarct      %LV infarct      %LV infarct      %LV infarct 9 %LV infarct       
 (3 x#pts) (3 x#pts) (3 x#pts) (3 x#pts) (3 x#pts)

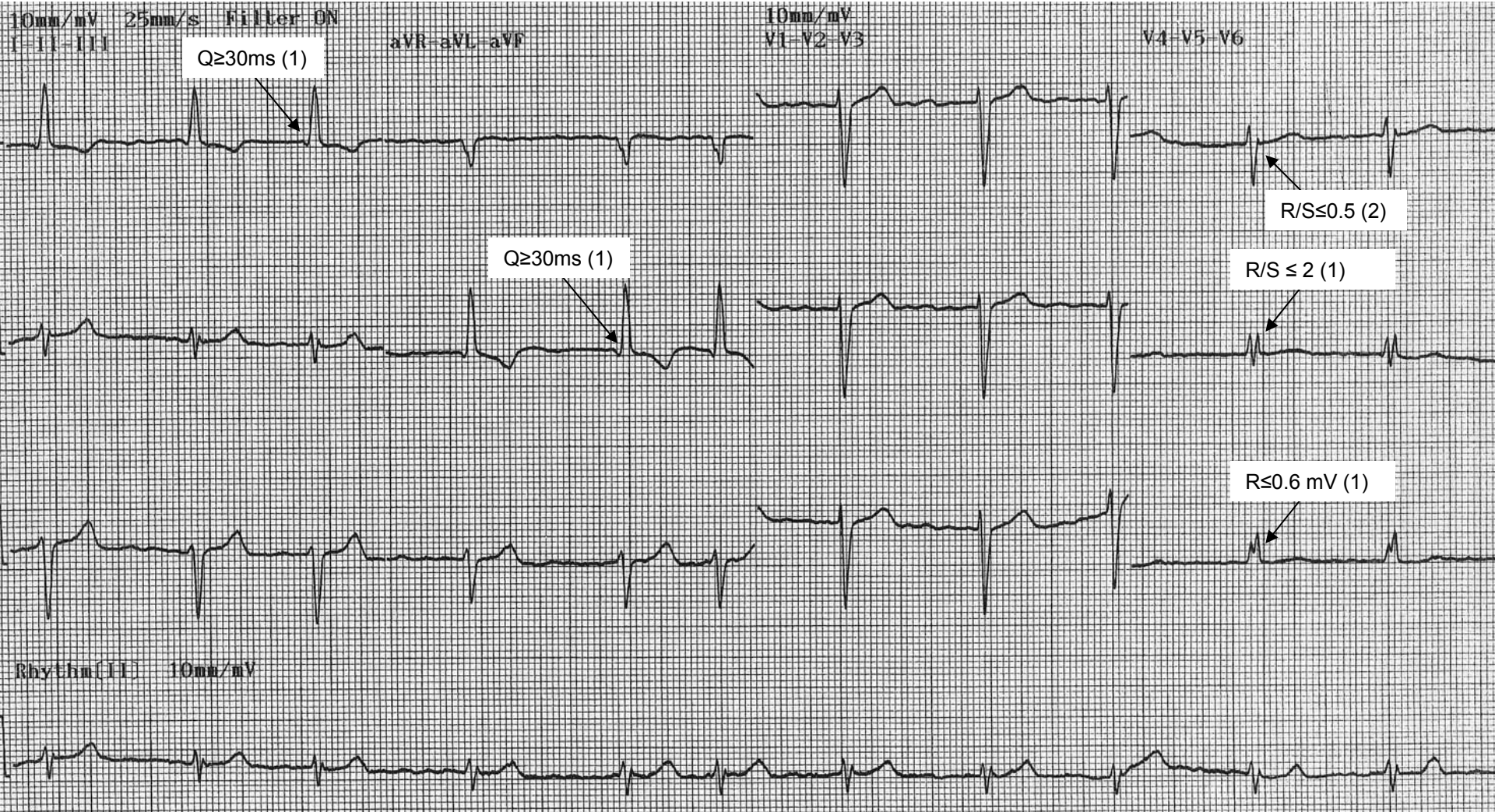
\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1≥0.1mV or aVF P ≥0.175 mV, then exclude V1+V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥0.1mV or aVF P ≥0.175 mV, then exclude V1+V2 R-criteria points

<b>Patient ID:</b>	11	<b>QRS Duration:</b>	169ms	<b>Amplitude Adjustment:</b>	-6%
<b>Age &amp; Sex:</b>	61 Male	<b>QRS Axis:</b>	+245°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LAFB + RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	17 points (51%)





<b>Patient ID:</b>	12	<b>QRS Duration:</b>	104ms	<b>Amplitude Adjustment:</b>	-26%
<b>Age &amp; Sex:</b>	81 Male	<b>QRS Axis:</b>	-36°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	No Confounders	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	6 points (18%)



QRS Scoring

Patient ID 12 QRS duration 104ms Amplitude adjust -26%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 81 Male QRS axis -36° Duration adjust 0% RAO(\*\*, \*\*\*)Yes(No)  
 (↓ 10% for females)

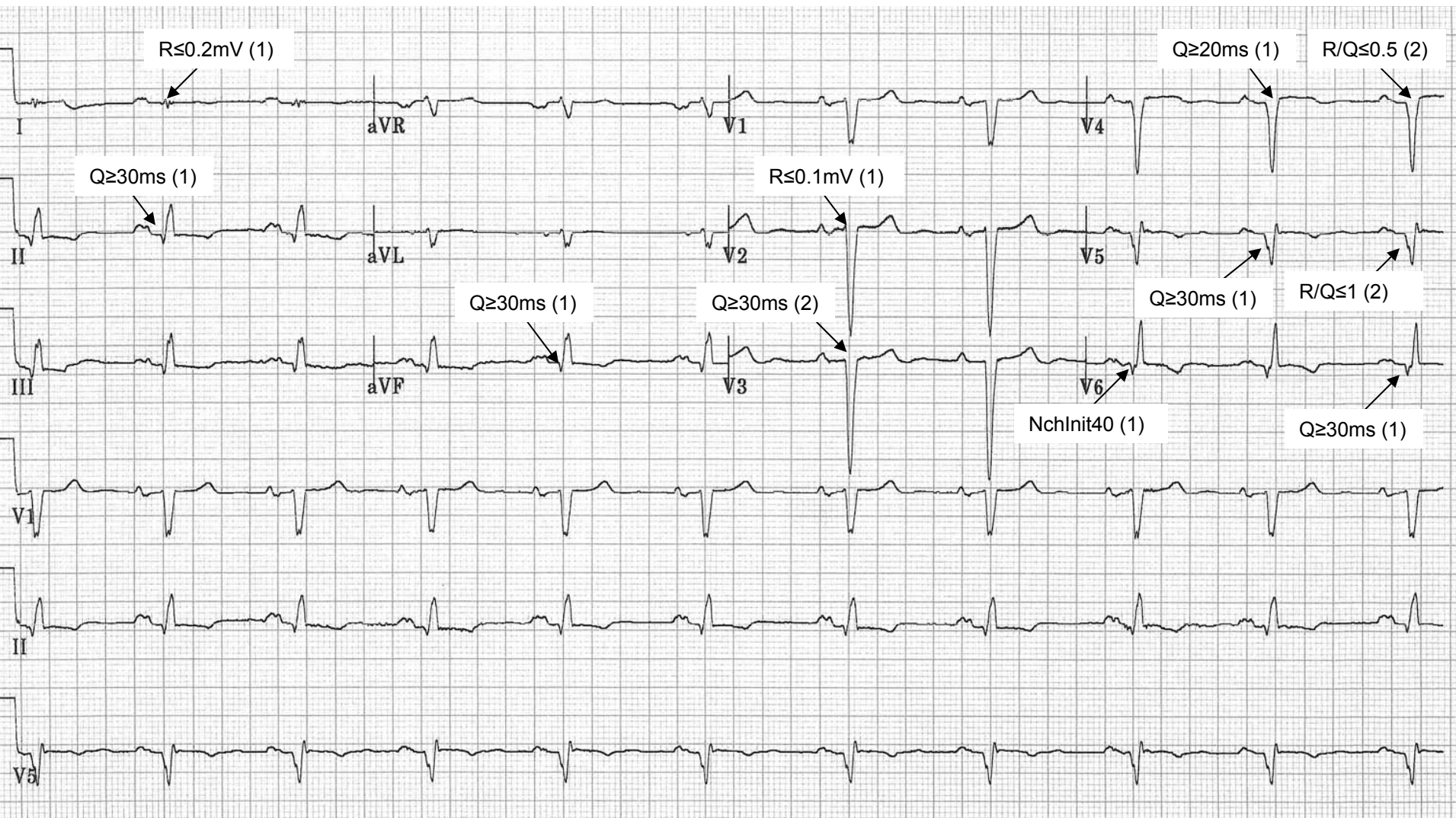
Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders		LBBB			
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Lead	Criteria	Pts	
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	I	any Q	1	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		R/Q ≤ 1	2	
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV			R/S ≤ 1		
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	II	Q ≥ 40 ms	2	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1		R/Q ≤ 15	1	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		R/S ≤ 15		
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	aVL	Q ≥ 50 ms	2	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		Q ≥ 40 ms	1	
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5			R/S ≤ 0.5	2	
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3	aVF	Q ≥ 50 ms	2	
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2		Q ≥ 40 ms	1	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1		R/Q ≤ 0.5	1	
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	V1	Q ≥ 50 ms	2	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1		Q ≥ 40 ms	1	
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5			R/S ≤ 0.5	2	
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *)	1	any Q	1	Ant.***	R/S ≤ 1	1	
	Init R ≤ 20 ms						NtchInit40					R/Q ≤ 1		
	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1		Q ≥ 50 ms	2	
V1 Post.**	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2	V1 Post	Q ≥ 40 ms	1	
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV			R/Q ≤ 0.5	1	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1		R/S ≤ 0.5		
V2	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV				V2	NchInit40	1	
	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1		Ant.***	R ≥ 0.3 mV	2
	any Q	1	any QR	1	any Q	1	any QR (or any Q if *)	1	any Q	1			R ≥ 30 ms	
R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		R ≥ 0.2 mV	1			
V2 Post.**	R ≤ 0.1mV		R/S ≥ 15	1	R ≤ 0.1mV		R/S ≥ 15	1	R/S ≥ 15	1	V2 Post	R ≥ 20 ms		
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2		V1	S/S' ≥ 2.0	3
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV			S/S' ≥ 1.5	2	
V3	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1	V3	S/S' ≥ 125	1	
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV			Ant.***	NchInit40	1
	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1			R ≥ 0.4 mV	2
Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2	R ≥ 30 ms				
V4	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms		V4	R ≥ 0.3 mV	1	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR (or any Q if *)	1	Q ≥ 20 ms	1		R ≥ 20 ms		
	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms			V2	S/S' ≥ 2.5	3
V5	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	V5	S/S' ≥ 2.0	2	
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2		S/S' ≥ 1.5	1	
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5			any Q		
V6	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	V6	R/R' ≥ 2	2	
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1			R/R' ≥ 1	1	
	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1		R/S ≤ 2		
Total	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		Total	R ≤ 0.5 mV	1	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40			R/S ≤ 2		
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1		Q ≥ 20 ms	1	
Total	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	Total	R/R' ≥ 2	2	
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1			R/R' ≥ 1	1	
	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1		R/S ≤ 2		
Total	R/S ≤ 3		R/S ≤ 2		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3		Total	R/S ≤ 2	1	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV			R/S ≤ 2		
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40			R ≤ 0.6 mV	1	
Total	Points		Points		Points		Points		Points		Total	Points		
	Points		Points		Points		Points		Points			Points		
	Points		Points		Points		Points		Points			Points		

%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) 18

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 Post criteria  
 \*\*\* (RAO) if P positive amp in V1 ≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 R-criteria points



<b>Patient ID:</b>	13	<b>QRS Duration:</b>	104ms	<b>Amplitude Adjustment:</b>	+4%
<b>Age &amp; Sex:</b>	51 Male	<b>QRS Axis:</b>	+91°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	No Confounders	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	14 points (42%)



Patient ID 13

QRS duration 104ms

Amplitude adjust +4%  
(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 51 Male

QRS axis +91°

Duration adjust 0% RAO(\*\*, \*\*\*)Yes(No)  
(↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders		LBBB			
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Lead	Criteria	Pts	
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	I	any Q	1	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		R/Q ≤ 1	2	
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV			R/S ≤ 1	1	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	II	Q ≥ 40 ms	2	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1		R/Q ≤ 15	1	
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1	aVL	Q ≥ 40 ms	2	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		Q ≥ 30 ms	1	
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3	aVF	R/Q ≤ 0.5	1	
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2		R/S ≤ 0.5	1	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1		Q ≥ 50 ms	2	
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	V1	Q ≥ 40 ms	1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1		R/S ≤ 0.5	2	
Ant.	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	1	any QR	1	Ant.	R/Q ≤ 0.5	1	
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1		R/S ≤ 1	1	
V1 Post.*	Init R ≤ 20 ms						NtchInit40				V1 Post.*	R/Q ≤ 1	1	
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2		Q ≥ 50 ms	2	
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV			Q ≥ 40 ms	1	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1		R/Q ≤ 0.5	1	
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV			R/S ≤ 0.5	2	
V2	Qs0.2&Ss0.2mV	1					Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	V2	NchInit40	1	
												Ant.***	R ≥ 0.3 mV	2
Ant.	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR	1	any Q	1	Ant.	R ≥ 30 ms	1	
	any Q	1	R ≤ 10 ms	1	any Q	1	(or any Q if *)	1	R ≤ 10 ms	1		R ≥ 0.2 mV	1	
V2 Post.*	R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		NtchInit40		R ≤ 0.1mV		V2 Post.*	R ≥ 20 ms	1	
												V1	S/S' ≥ 2.0	3
V2	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	V2	S/S' ≥ 1.5	2	
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2		S/S' ≥ 125	1	
V2 Post.*	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV		V2 Post.*	NchInit40	1	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1		Ant.***	R ≥ 0.4 mV	2
V3	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV		V3	R ≥ 30 ms	1	
			Qs0.3&Ss0.3mV	1			Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1		R ≥ 0.3 mV	1	
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2	V3	R ≥ 20 ms	1	
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms			V2	S/S' ≥ 2.5	3
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1		Post	S/S' ≥ 2.0	2
	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms			S/S' ≥ 1.5	1	
												V5	any Q	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	V4	R/R' ≥ 2	2	
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2		R/R' ≥ 1	1	
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5			R/S ≤ 2	1	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1		R ≤ 0.5 mV	1	
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1					
V5	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		V5	R ≤ 0.5 mV	1	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40			Post	S/S' ≥ 2.0	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1		S/S' ≥ 1.5	1	
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2		V6	any Q	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1			Q ≥ 20 ms	1	
V6	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	V6	R/R' ≥ 2	2	
	R/S ≤ 2		R/S ≤ 15		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2			R/R' ≥ 1	1	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV			R/S ≤ 2	1	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40					
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	V6	Q ≥ 20 ms	1	
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2		R/R' ≥ 2	2	
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1			R/R' ≥ 1	1	
	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1		R/S ≤ 2	1	
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3					
Total	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		Total	Points	14	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40					

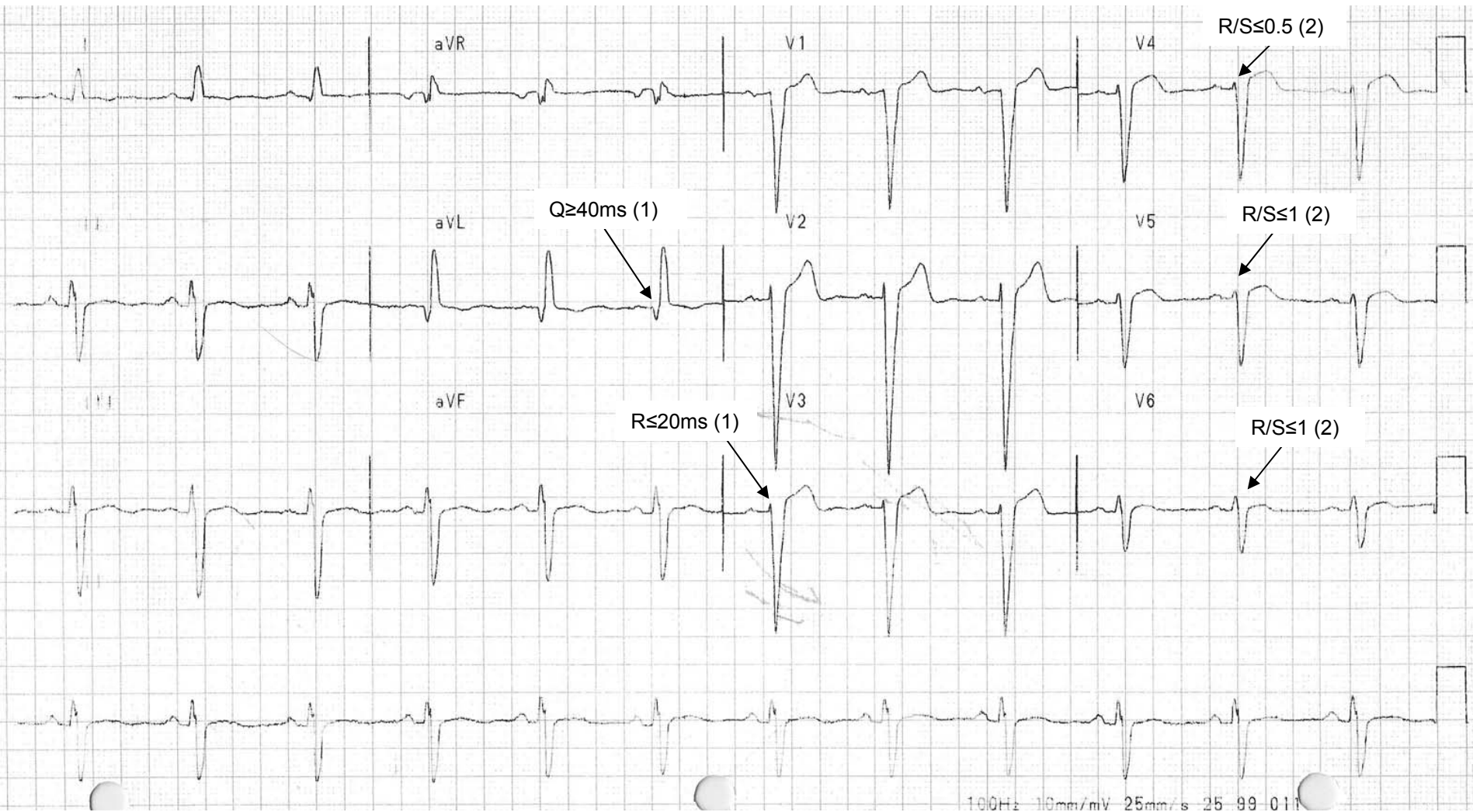
%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) **42**

\* (for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	14	<b>QRS Duration:</b>	128ms	<b>Amplitude Adjustment:</b>	-2%
<b>Age &amp; Sex:</b>	57 Male	<b>QRS Axis:</b>	-59°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LAFB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	8 points (24%)



QRS Scoring

Patient ID 14 QRS duration 128ms Amplitude adjust -2%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 57 Male QRS axis -59° Duration adjust 0% RAO(\*\*, \*\*\*)Yes (No)  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
V1	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	Q ≥ 50 ms	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV						NtchInit40			
V1 Post.**	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any Q	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
V2 Post.**	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR & (Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	(or any Q if *)	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5				R/S ≤ 0.5	
V5	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
<b>Total</b>	<b>Points</b>		<b>Points</b>	<b>8</b>	<b>Points</b>		<b>Points</b>		<b>Points</b>	

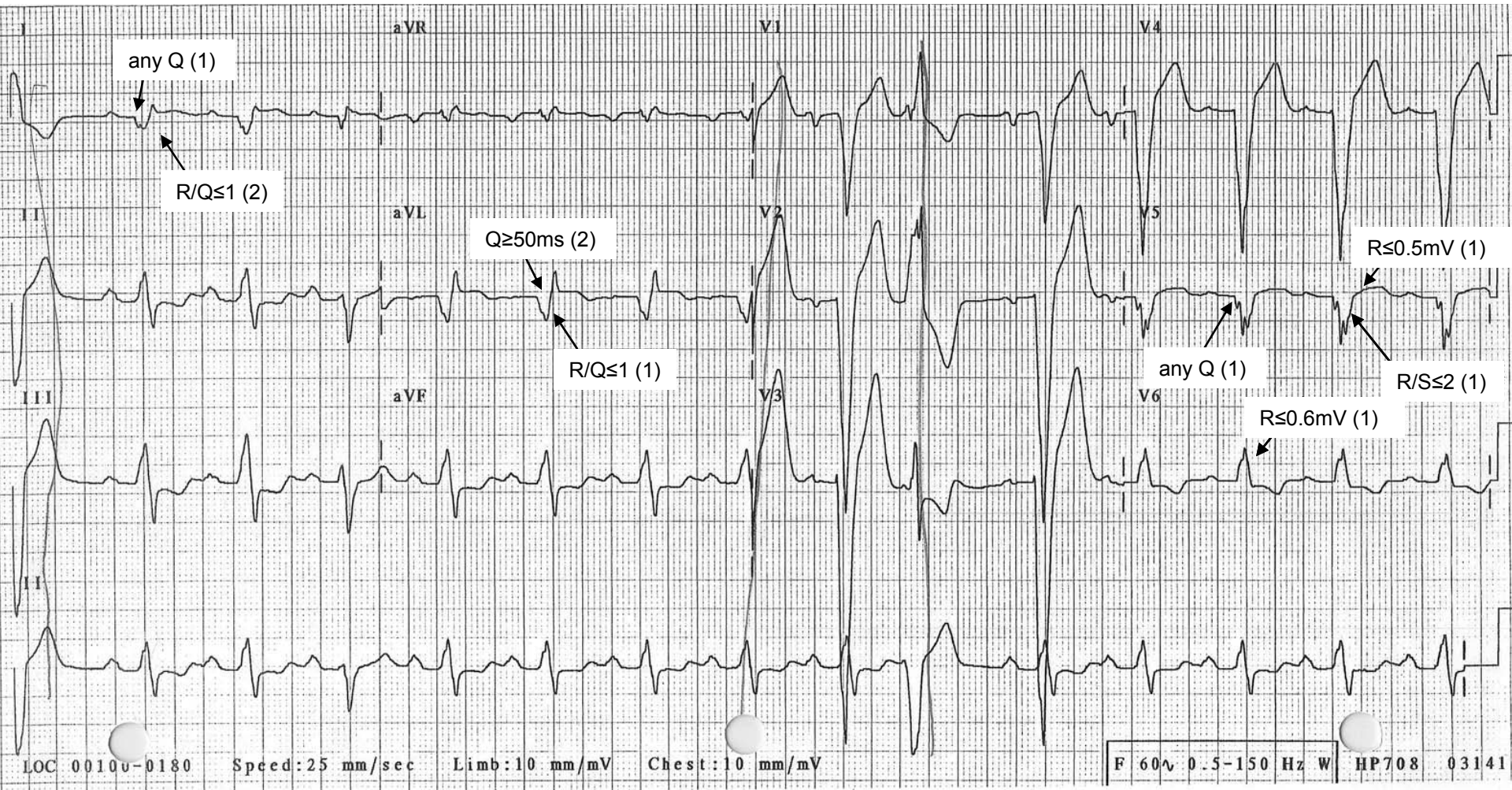
Lead	LBBB	
	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1 Ant.***	R ≥ 0.3 mV	2
	R ≥ 30 ms	
	R ≥ 0.2 mV	1
V1 Post	R ≥ 20 ms	1
	S/S' ≥ 2.0	3
	S/S' ≥ 15	2
V2	S/S' ≥ 125	1
	NchInit40	1
	R ≥ 0.4 mV	2
V2 Ant.***	R ≥ 30 ms	
	R ≥ 0.3 mV	1
	R ≥ 20 ms	
V2 Post	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 15	1
V5	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
V6	R/S ≤ 2	1
	R/S ≤ 2	
	R/S ≤ 1	1
<b>Total</b>	<b>Points</b>	

%LV infarct       
 (3 \* #pts)

%LV infarct      %LV infarct 24 %LV infarct      %LV infarct      %LV infarct       
 (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	15	<b>QRS Duration:</b>	154ms	<b>Amplitude Adjustment:</b>	-4%
<b>Age &amp; Sex:</b>	59 Male	<b>QRS Axis:</b>	0°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	10 points (30 points)



QRS Scoring

Patient ID 15

QRS duration 154ms

Amplitude adjust -4%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 59 Male

QRS axis 0°

Duration adjust 0% RAO(\*\*, \*\*\*) Yes  No

(↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1
II	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2
aVL	Q ≥ 30 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 30 ms R/Q ≤ 1	1
aVF	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 60 ms Q ≥ 50 ms Q ≥ 40 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3 2 1 2 1
V1	Q ≥ 50 ms any Q Init R ≤ 2.0 ms	2 1 1	Q ≥ 50 ms any QR	2 1	Q ≥ 50 ms any Q NtchInit40	2 1 1	any QR (or any Q if *) NtchInit40	2 1 1	any Q	1
V1 Post.**	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2 1 1 1	R/S ≥ 1 R ≥ 50 ms R ≥ 1 mV R ≥ 40 ms R ≥ 0.7 mV	1 2 1 1 1	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2 1 1 1	R/S ≥ 1 R ≥ 50 ms R ≥ 1 mV R ≥ 40 ms R ≥ 0.7 mV	1 2 1 1 1	R/S ≥ 1 R ≥ 50 ms R ≥ 1 mV R ≥ 40 ms R ≥ 0.7 mV	1 2 1 1 1
V2	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1 mV	2 1 1 1	any QR R ≤ 10 ms R ≤ 0.1 mV	1 1 1	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1 mV	2 1 1 1	any QR (or any Q if *) NtchInit40	1 1 1	any Q R ≤ 10 ms R ≤ 0.1 mV	1 1 1
V2 Post.**	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2 1 1 1	R/S ≥ 15 R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	1 2 1 1 1	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2 1 1 1	R/S ≥ 15 R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	1 2 1 1 1	R/S ≥ 15 R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	1 2 1 1 1
V3	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1	QR & (Q ≥ 30 ms) NtchInit40 any QR (or any Q if *)	2 1 1 1	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2 1 1 1
V4	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1 2 1 1 1 1 1
V5	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 15 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 15 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1
V6	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1 2 1 1 1 1 1
<b>Total</b>	<b>Points</b>		<b>Points</b>		<b>Points</b>		<b>Points</b>		<b>Points</b>	

%LV infarct (3 x #pts)    %LV infarct (3 x #pts)    %LV infarct (3 x #pts)    %LV infarct (3 x #pts)    %LV infarct (3 x #pts)

\* (for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

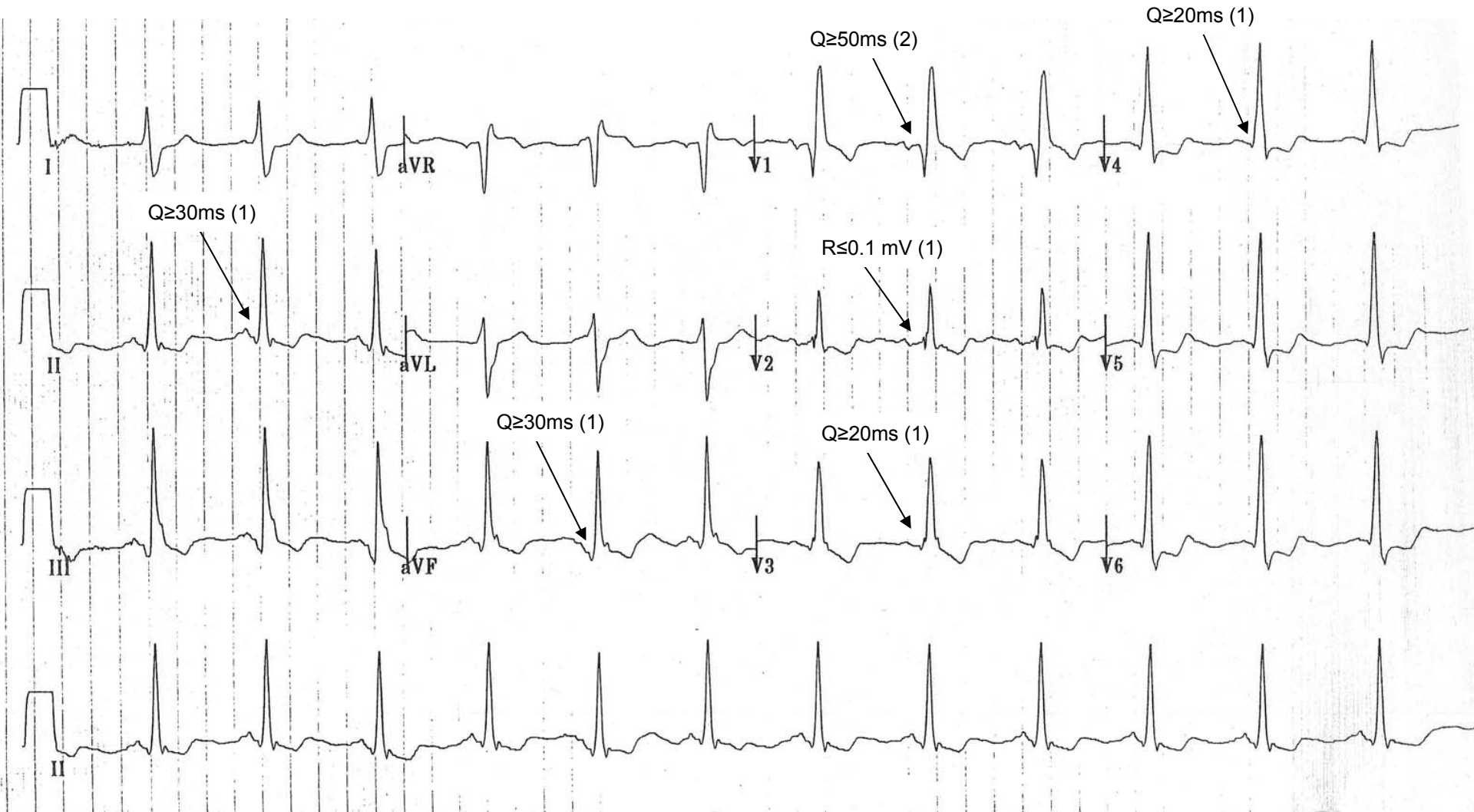
\*\* (RAO) if P positive amp in V1 ≥ 0.1 mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

LBBB		
Lead	Criteria	Pts
I	any Q R/Q ≤ 1 R/S ≤ 3	1 2 1
II	Q ≥ 40 ms Q ≥ 30 ms	2 1
aVL	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5 R/Q ≤ 1	2 1 1 2
aVF	Q ≥ 50 ms Q ≥ 40 ms R/Q ≤ 0.5 R/S ≤ 0.5	2 1 1 1
V1	NtchInit40	1
V1 Ant.***	R ≥ 0.3 mV R ≥ 30 ms R ≥ 0.2 mV R ≥ 20 ms	2 1 1 1
V1 Post	S/S' ≥ 2.0 S/S' ≥ 1.5 S/S' ≥ 125	3 2 1
V2	NtchInit40	1
V2 Ant.***	R ≥ 0.4 mV R ≥ 30 ms R ≥ 0.3 mV R ≥ 20 ms	2 1 1 1
V2 Post	S/S' ≥ 2.5 S/S' ≥ 2.0 S/S' ≥ 15	3 2 1
V5	any Q R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.5 mV	1 2 1 1 1
V6	Q ≥ 20 ms R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.6 mV	1 2 1 1 1
<b>Total</b>	<b>Points</b>	<b>10</b>

%LV infarct (3 x #pts) 30

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1 mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	16	<b>QRS Duration:</b>	146ms	<b>Amplitude Adjustment:</b>	-1%
<b>Age &amp; Sex:</b>	56 Male	<b>QRS Axis:</b>	+88°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	7 points (21%)



QRS Scoring

Patient ID 16

QRS duration 146ms

Amplitude adjust -1%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 56 Male

QRS axis +88°

Duration adjust 0%

RAO(\*\*, \*\*\*) Yes/No (No)  
(↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
V1	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	1	any QR	1
Ant.	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV						NtchInit40			
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
Post.**	Init R ≥ 15 mV	1	R ≥ 1mV	1	Init R ≥ 15 mV	1	R ≥ 1mV	1	R ≥ 1mV	1
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
V2	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
	R ≤ 10 ms		R ≤ 10ms		R ≤ 10 ms		(or any Q if *)		R ≤ 10ms	
V2	R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		NtchInit40		R ≤ 0.1mV	
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
Post.**	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
Total	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
V6	R/S ≤ 2		R/S ≤ 15		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
Total	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
Total	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Points	7	Points		Points		Points		Points	

Lead	LBBB	
	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
aVF	R/S ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
	NchInit40	1
Ant.***	R ≥ 0.3 mV	2
	R ≥ 30 ms	
	R ≥ 0.2 mV	1
V1	R ≥ 20 ms	
	S/S' ≥ 2.0	3
	S/S' ≥ 15	2
Post	S/S' ≥ 125	1
	NchInit40	1
	Ant.***	R ≥ 0.4 mV
V2	R ≥ 30 ms	
	R ≥ 0.3 mV	1
	R ≥ 20 ms	
Post	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 15	1
V5	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
V6	R/S ≤ 2	
	R ≤ 0.5 mV	
	R/R' ≥ 2	2
Total	R/R' ≥ 1	1
	R/S ≤ 2	
	Points	

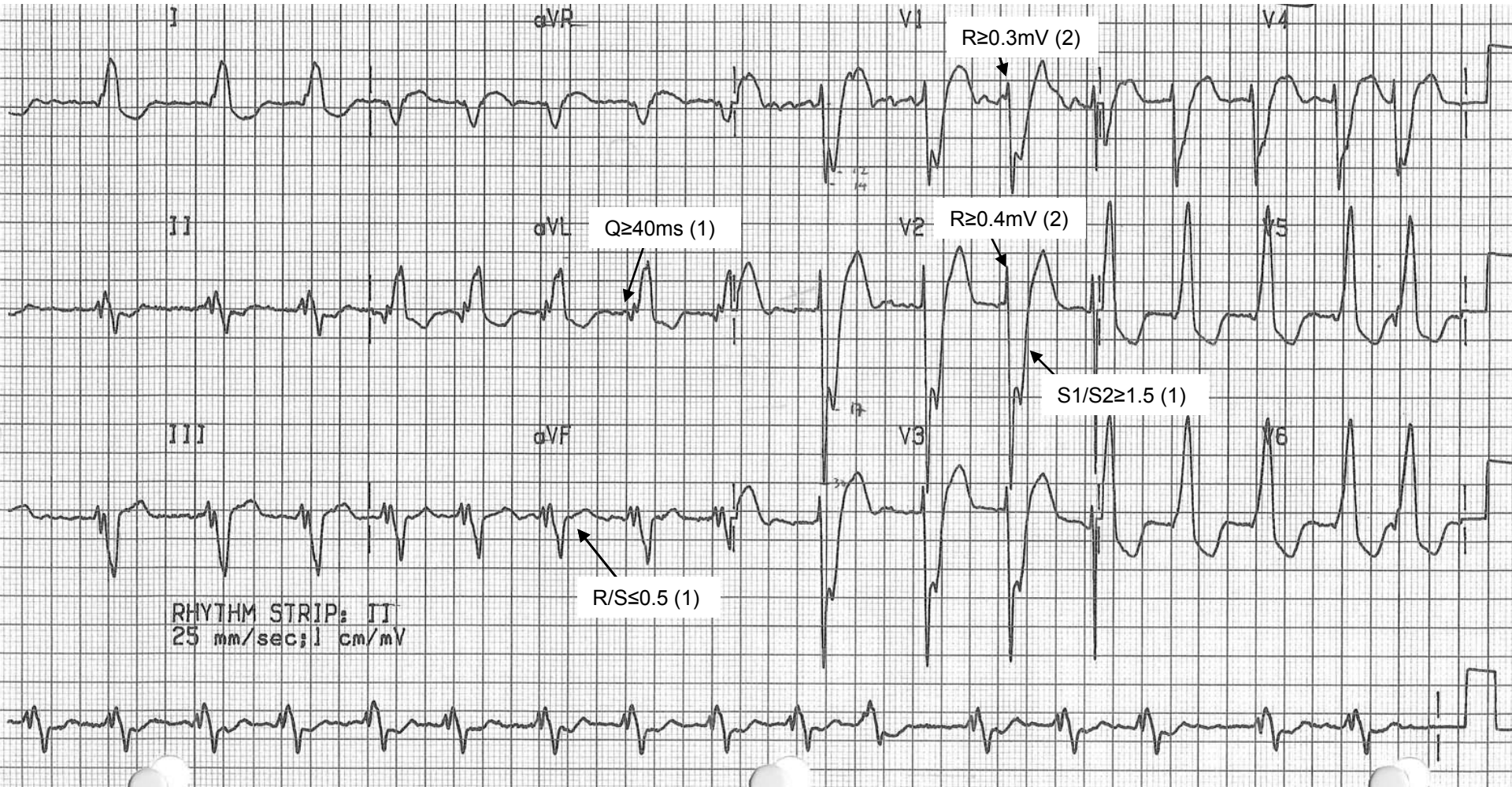
%LV infarct       
(3 #pts)

%LV infarct 21 (3 x #pts)    %LV infarct      (3 x #pts)    %LV infarct      (3 x #pts)    %LV infarct      (3 x #pts)    %LV infarct      (3 x #pts)

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 Post criteria  
 \*\*\* (RAO) if P positive amp in V1 ≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 R-criteria points



<b>Patient ID:</b>	17	<b>QRS Duration:</b>	171ms	<b>Amplitude Adjustment:</b>	-13%
<b>Age &amp; Sex:</b>	68 Male	<b>QRS Axis:</b>	-40°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points:</b>	7 points (21%)



QRS Scoring

Patient ID 17

QRS duration 171ms

Amplitude adjust -13%  
(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 68 Male

QRS axis -40°

Duration adjust 0% RAO(\*\*, \*\*\*)Yes/No  
(↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	1	any QR	1
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
Ant.	Init R ≤ 20 ms						NtchInit40			
	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
Post.*	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
V2	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
	R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		(or any Q if *)		R ≤ 10 ms	
V2	R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		NtchInit40		R ≤ 0.1mV	
	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
Post.**	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
V5	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
V6	R/S ≤ 2		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2		R/S ≤ 2	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3		R/S ≤ 3	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
Total	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Points		Points		Points		Points		Points	
	Points		Points		Points		Points		Points	

LBBB		
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
aVF	R/S ≤ 0.5	1
	R/S ≤ 0.5	1
	Q ≥ 50 ms	2
V1	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	1
Ant.*	R/S ≤ 1	1
	R/Q ≤ 1	1
	Q ≥ 50 ms	2
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	1
	NtchInit40	1
	R ≥ 0.3 mV	2
Ant.**	R ≥ 30 ms	
	R ≥ 0.2 mV	1
	R ≥ 20 ms	
V1	S/S' ≥ 2.0	3
	S/S' ≥ 1.5	2
	S/S' ≥ 125	1
V2	NtchInit40	1
	R ≥ 0.4 mV	2
	R ≥ 30 ms	
Ant.**	R ≥ 0.3 mV	1
	R ≥ 20 ms	
	S/S' ≥ 2.5	3
V2	S/S' ≥ 2.0	2
	S/S' ≥ 1.5	1
	any Q	1
V5	R/R' ≥ 2	2
	R/R' ≥ 1	1
	R/S ≤ 2	
V6	R ≤ 0.5 mV	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
V6	R/S ≤ 2	1
	R ≤ 0.6 mV	1
	R ≤ 0.6 mV	1
Total	Points	7

%LV infarct 21  
(3 x #pts)

%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_

\*(for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 Post criteria  
 \*\*\* (RAO) if P positive amp in V1 ≥0.1mV or aVF P ≥0.175 mV, then exclude V1-V2 R-criteria points



QRS Scoring

Patient ID 18 QRS duration 112ms Amplitude adjust -17%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 72 Male QRS axis -73° Duration adjust 0% RAO(\*\*, \*\*\*)Yes/No (No)  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV						NtchInit40			
Post.**	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR	1	any Q	1
	any Q	1	R ≤ 10 ms	1	any Q	1	(or any Q if *)	1	R ≤ 10 ms	1
	R ≤ 0.1 mV		R ≤ 0.1 mV		R ≤ 0.1 mV		NtchInit40		R ≤ 0.1 mV	
Post.**	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR & (Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	NtchInit40	1	R ≤ 10 ms	1
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1
V5	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
<b>Total</b>	<b>Points</b>		<b>Points</b>	<b>8</b>	<b>Points</b>		<b>Points</b>		<b>Points</b>	

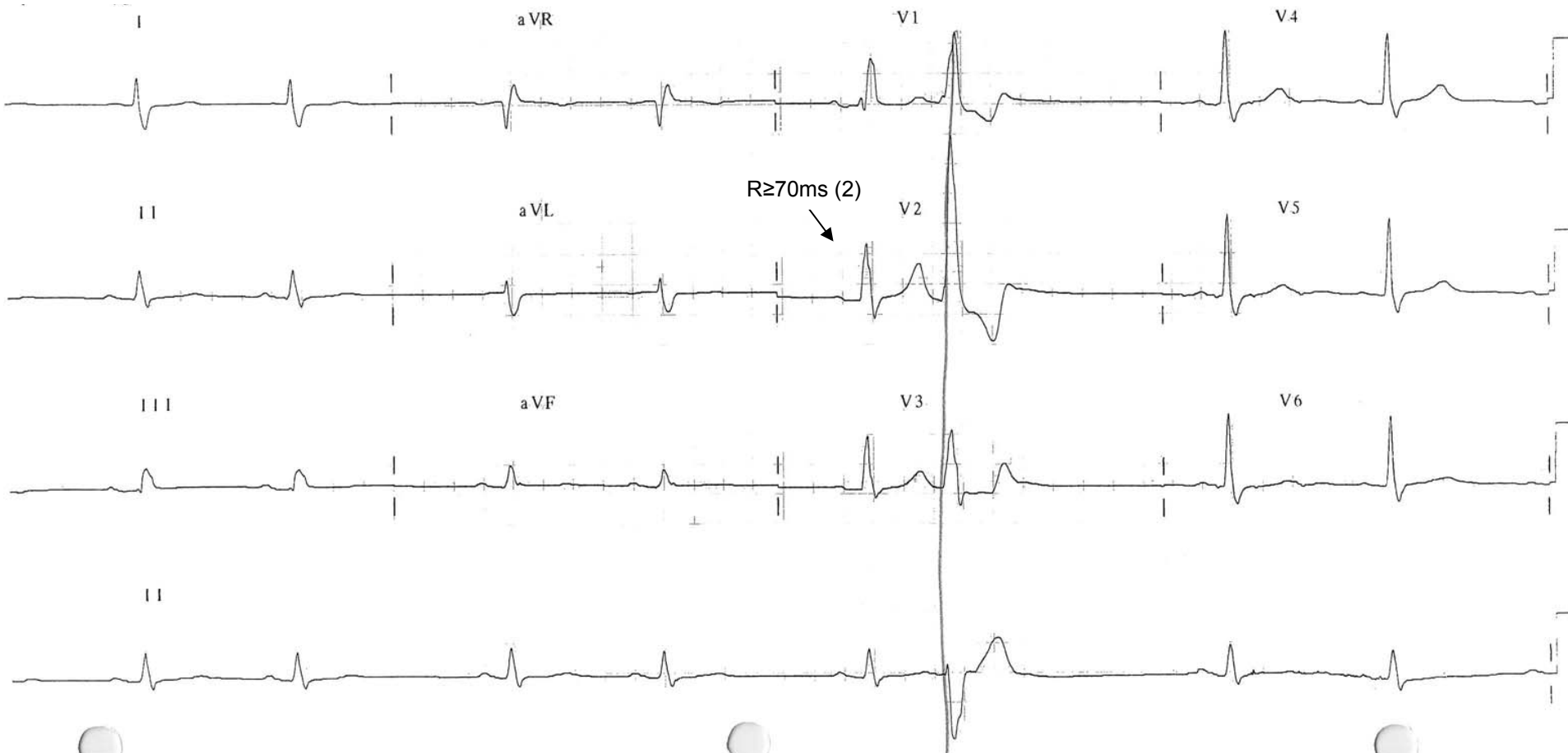
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	1
II	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
aVL	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	NchInit40	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	1
V2	S/S' ≥ 2.0	3
	S/S' ≥ 1.5	2
	S/S' ≥ 1.25	1
V3	NchInit40	1
	R ≥ 0.4 mV	2
	R ≥ 30 ms	1
V4	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 1.5	1
V5	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
V6	Q ≥ 20 ms	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
<b>Total</b>	<b>Points</b>	

%LV infarct       
 (3 \* #pts)

%LV infarct      %LV infarct 24 %LV infarct      %LV infarct      %LV infarct       
 (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	19	<b>QRS Duration:</b>	134ms	<b>Amplitude Adjustment:</b>	-9%
<b>Age &amp; Sex:</b>	64 Male	<b>QRS Axis:</b>	+115°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	2 points (6%)



QRS Scoring

Patient ID 19

QRS duration 134ms

Amplitude adjust -9%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 64 Male

QRS axis +115°

Duration adjust 0% RAO(\*\*, \*\*\*) Yes **(No)**

(↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
Ant.	Init R ≤ 20 ms						NtchInit40			
	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
Post.*	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
V2	Q ≥ 50 ms	2	Qs0.2&Ss0.2mV	1	Q ≥ 50 ms	2	Qs0.2&Ss0.2 mV	1	Qs0.2&Ss0.2mV	1
	any Q	1	any QR	1	any Q	1	any QR	1	any Q	1
	R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		(or any Q if *)		R ≤ 0.1mV	
V2	R ≤ 0.1mV		R/S ≥ 15	1	R ≤ 0.1mV		R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
Post.	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
V5	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
V6	R/S ≤ 2		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2		R/S ≤ 2	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
Total	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3		R/S ≤ 3	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
Total	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Points	2	Points		Points		Points		Points	
	%LV infarct (3 x #pts)	6	%LV infarct (3 x #pts)		%LV infarct (3 x #pts)		%LV infarct (3 x #pts)		%LV infarct (3 x #pts)	

Lead	LBBB	
	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
aVF	R/Q ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 0.5	1
Ant.***	NtchInit40	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	
V1	R ≥ 0.2 mV	1
	R ≥ 20 ms	
	S/S' ≥ 2.0	3
Post	S/S' ≥ 15	2
	S/S' ≥ 125	1
	NtchInit40	1
Ant.***	R ≥ 0.4 mV	2
	R ≥ 30 ms	
	R ≥ 0.3 mV	1
V2	R ≥ 20 ms	
	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
Post	S/S' ≥ 15	1
	any Q	1
	R/R' ≥ 2	2
V5	R/R' ≥ 1	1
	R/S ≤ 2	
	R ≤ 0.5 mV	1
V6	R/R' ≥ 2	2
	R/R' ≥ 1	1
	R/S ≤ 2	1
Total	Points	

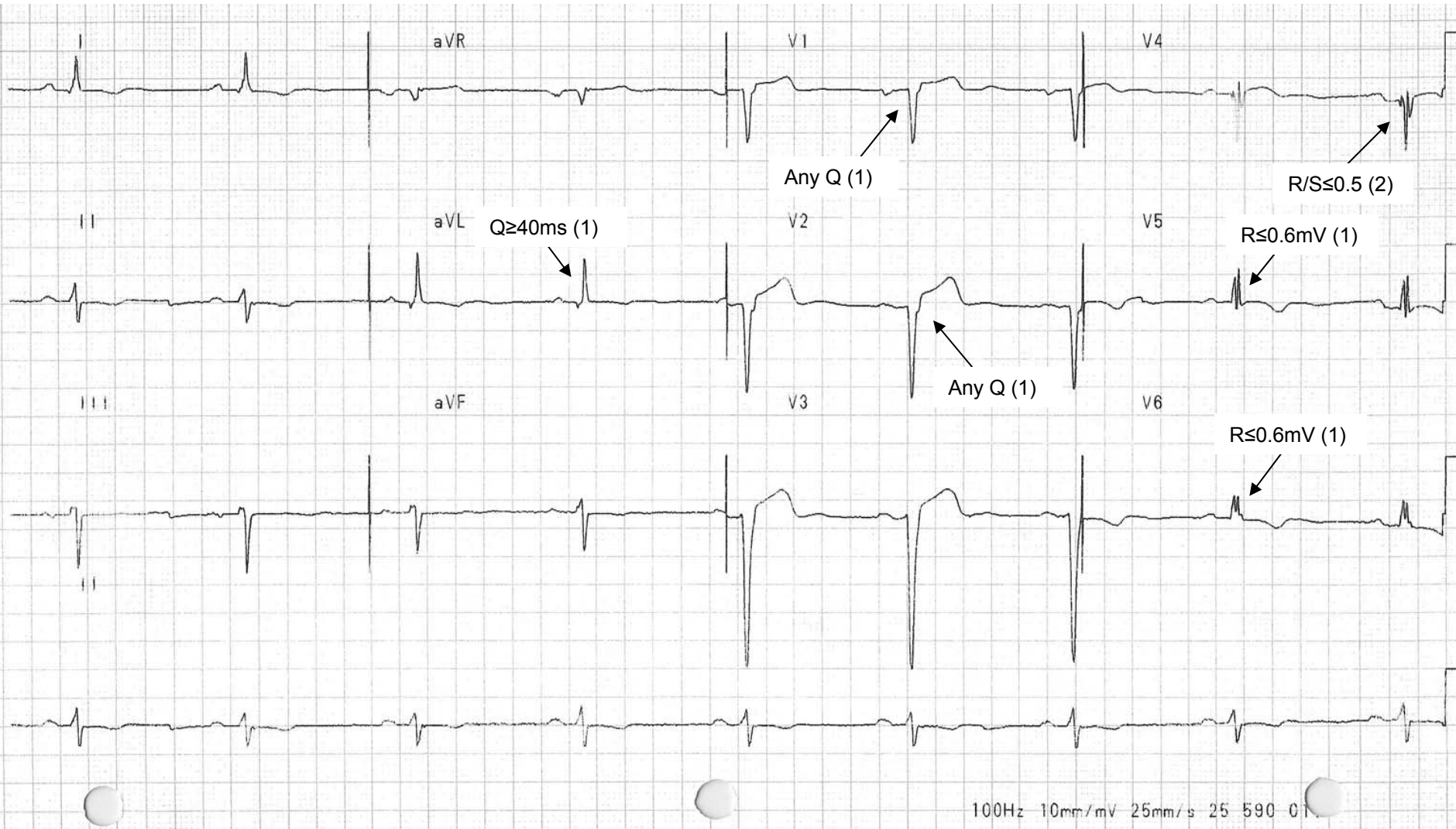
%LV infarct (3 #pts) \_\_\_\_\_

\* (for LVH) if ≥ 4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	20	<b>QRS Duration:</b>	112ms	<b>Amplitude Adjustment:</b>	+16%
<b>Age &amp; Sex:</b>	39 Male	<b>QRS Axis:</b>	-42°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LVH	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	7 points (21%)



QRS Scoring

Patient ID 20 QRS duration 112ms Amplitude adjust +16%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 39 Male QRS axis -42° Duration adjust 0% RAO(\*\*, \*\*\*)Yes(No)  
 (↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1
II	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2
aVL	Q ≥ 30 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 30 ms R/Q ≤ 1	1
aVF	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 60 ms Q ≥ 50 ms Q ≥ 40 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3
V1	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR (or any Q if *) NtchInit40	1	any QR (or any Q if *) NtchInit40	1
Ant.	any Q Init R ≤ 20 ms	1	any QR	1	any Q	1	any QR (or any Q if *) NtchInit40	1	any Q	1
V1	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2
Post.**										
V2	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1mV	2	any QR R ≤ 10 ms R ≤ 0.1mV	1	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1mV	2	any QR (or any Q if *) NtchInit40	1	any Q R ≤ 10 ms R ≤ 0.1mV	1
Ant.										
V2	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2
Post.**										
V3	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	QR & (Q ≥ 30 ms) NtchInit40 any QR (or any Q if *)	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2
V4	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	1
V5	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1
V6	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1
Total	Points		Points		Points		Points	6	Points	

LBBB		
Lead	Criteria	Pts
I	any Q R/Q ≤ 1 R/S ≤ 1	1
II	R/Q ≤ 15 R/S ≤ 15	1
aVL	Q ≥ 40 ms Q ≥ 30 ms	2
aVF	R/Q ≤ 0.5 R/S ≤ 0.5	1
V1	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5	2
Ant.	R/Q ≤ 0.5 R/S ≤ 1 R/Q ≤ 1	1
V1	Q ≥ 50 ms Q ≥ 40 ms R/S ≤ 0.5	2
Ant.	R/Q ≤ 0.5 R/S ≤ 1 R/Q ≤ 1	1
V1	NtchInit40	1
Ant.	R ≥ 0.3 mV R ≥ 30 ms R ≥ 0.2 mV R ≥ 20 ms	2
V1	S/S' ≥ 2.0	3
Post	S/S' ≥ 15 S/S' ≥ 125	2
V2	NtchInit40	1
Ant.	R ≥ 0.4 mV R ≥ 30 ms R ≥ 0.3 mV R ≥ 20 ms	2
V2	S/S' ≥ 2.5	3
Post	S/S' ≥ 2.0 S/S' ≥ 15	2
V5	any Q R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.5 mV	1
V6	Q ≥ 20 ms R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.6 mV	1
Total	Points	

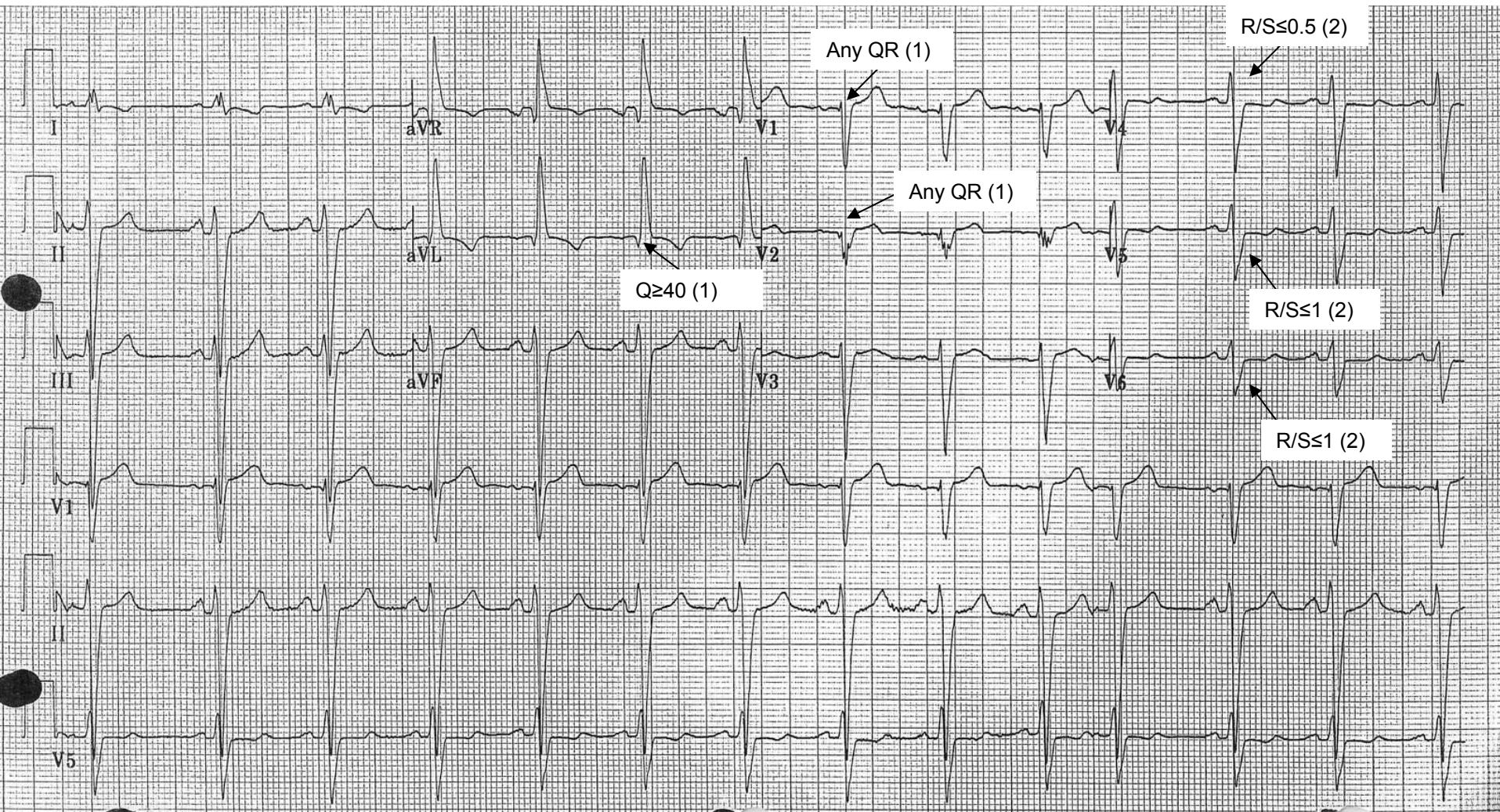
%LV infarct       
 (3 #pts)

%LV infarct      %LV infarct      %LV infarct      %LV infarct 18 %LV infarct       
 (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

\*(for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points



<b>Patient ID:</b>	21	<b>QRS Duration:</b>	138ms	<b>Amplitude Adjustment:</b>	-13%
<b>Age &amp; Sex:</b>	68 Male	<b>QRS Axis:</b>	-87°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LAFB	<b>Right Atrial Overload:</b>	No	<b>Total Points:</b>	9 points (27%)



QRS Scoring

Patient ID 21

QRS duration 138ms

Amplitude adjust -13%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 68 Male

QRS axis -87°

Duration adjust 0%

RAO(\*\*, \*\*\*)Yes(No)

(↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVF	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
V1	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	Q ≥ 50 ms	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV						NtchInit40			
Post.*	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	1	any Q	1
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	R ≤ 10 ms	1
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 0.1mV	
Post.**	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	OR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
V5	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
<b>Total</b>	<b>Points</b>		<b>Points</b>	<b>9</b>	<b>Points</b>		<b>Points</b>		<b>Points</b>	

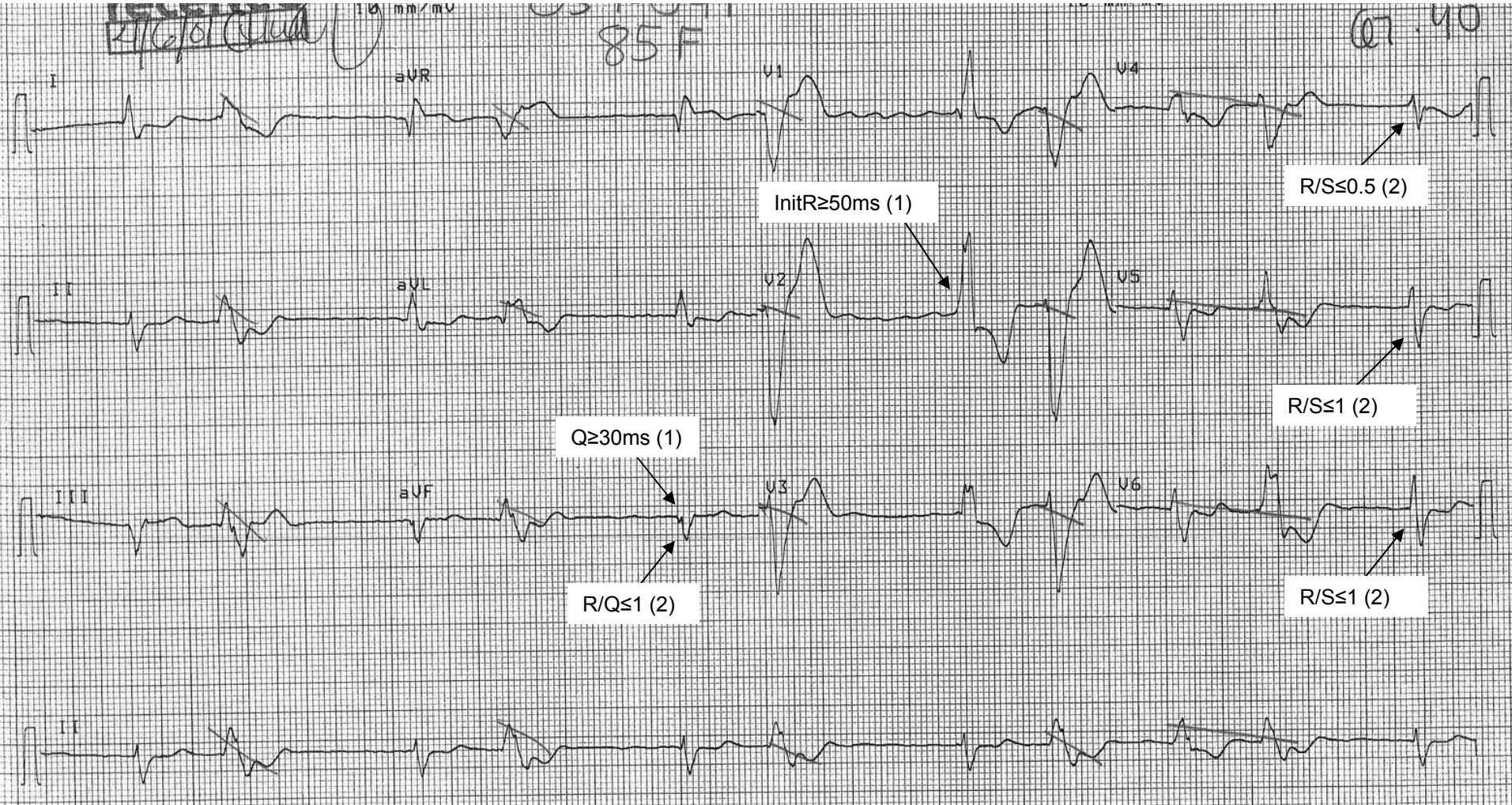
LBBB		
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
aVF	R/S ≤ 0.5	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	R/Q ≤ 15	1
	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
aVF	R/S ≤ 1	1
	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
V1	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
Ant.***	R/Q ≤ 0.5	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	1
V1	R ≥ 0.2 mV	1
	R ≥ 20 ms	1
	S/S' ≥ 2.0	3
Post	S/S' ≥ 1.5	2
	S/S' ≥ 125	1
	NchInit40	1
Ant.***	R ≥ 0.4 mV	2
	R ≥ 30 ms	1
	R ≥ 0.3 mV	1
V2	R ≥ 20 ms	1
	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
Post	S/S' ≥ 1.5	1
	any Q	1
	R/R' ≥ 2	2
V5	R/R' ≥ 1	1
	R/S ≤ 2	1
	R ≤ 0.5 mV	1
V6	Q ≥ 20 ms	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
Total	R/S ≤ 2	1
	R ≤ 0.6 mV	1
	Points	

%LV infarct (3 \* #pts) \_\_\_\_\_

%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) 27 %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_

\*(for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	22	<b>QRS Duration:</b>	130ms	<b>Amplitude Adjustment:</b>	-40%
<b>Age &amp; Sex:</b>	85 Female	<b>QRS Axis:</b>	-62°	<b>Duration Adjustment:</b>	-10%
<b>Conduction Type:</b>	LAFB + RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	10 points (30%)



QRS Scoring

Patient ID 22

QRS duration 130ms

Amplitude adjust -40%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 85 Female

QRS axis -62°

Duration adjust -10%

RAO(\*\*, \*\*\*) Yes/No

(↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 2.0 mV						NtchInit40			
Post.*	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR	1	any Q	1
	any Q	1	R ≤ 10 ms	1	any Q	1	(or any Q if *)	1	R ≤ 10 ms	1
	R ≤ 0.1 mV		R ≤ 0.1 mV		R ≤ 0.1 mV		NtchInit40		R ≤ 0.1 mV	
Post.**	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR & (Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	NtchInit40	1	R ≤ 10 ms	1
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1
V5	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
<b>Total</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>	<b>Points</b>

Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	1
II	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
aVL	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	NtchInit40	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	1
Ant.***	R ≥ 0.2 mV	1
	R ≥ 20 ms	1
	S/S' ≥ 2.0	3
Post	S/S' ≥ 1.5	2
	S/S' ≥ 125	1
	NtchInit40	1
Ant.***	R ≥ 0.4 mV	2
	R ≥ 30 ms	1
	R ≥ 0.3 mV	1
V2	R ≥ 20 ms	1
	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
Post	S/S' ≥ 1.5	1
	any Q	1
	R/R' ≥ 2	2
V5	R/R' ≥ 1	1
	R/S ≤ 2	1
	R ≤ 0.5 mV	1
V6	Q ≥ 20 ms	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
Total	Points	Points

%LV infarct       
(3 \* #pts)

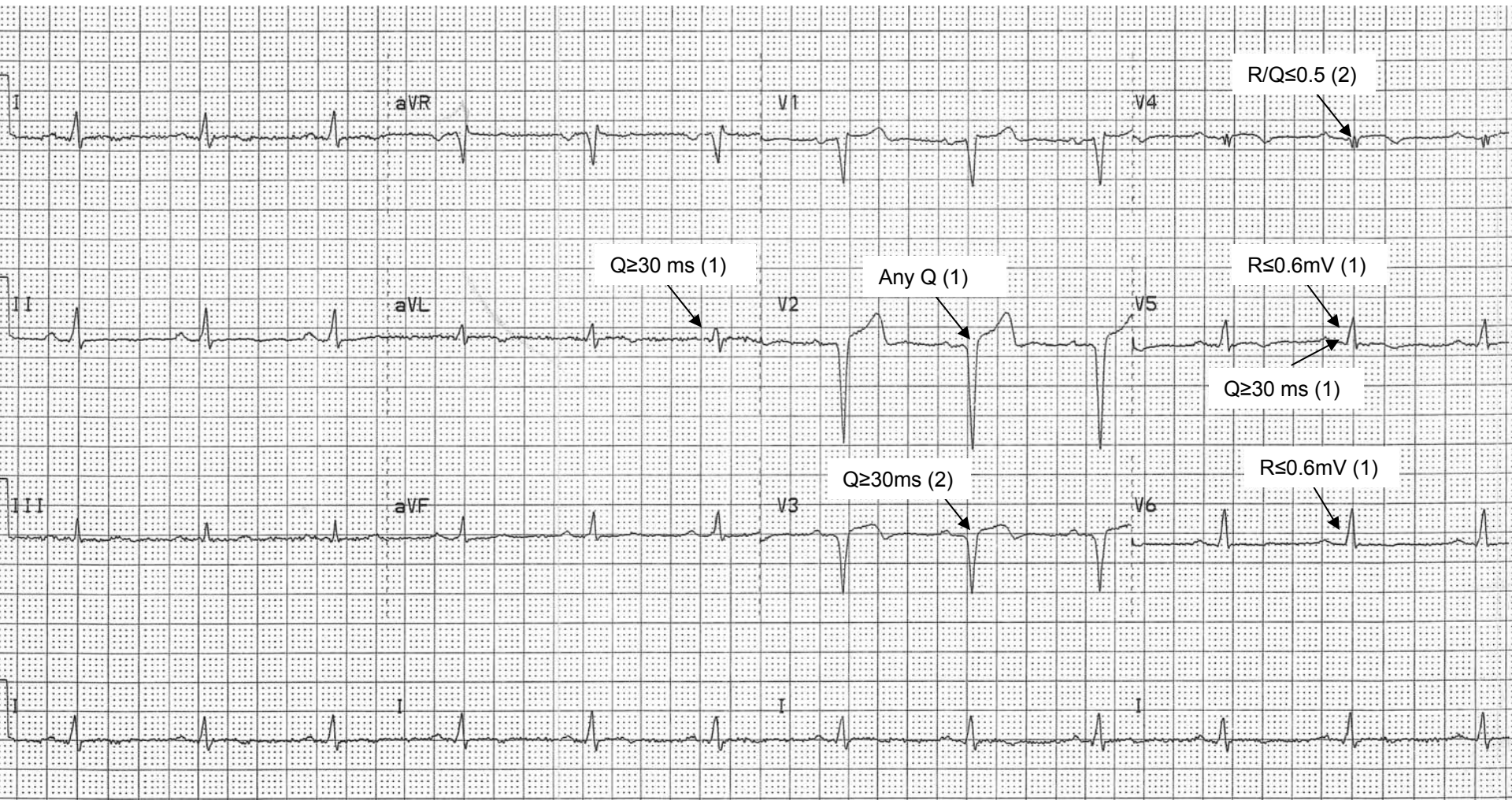
%LV infarct         %LV infarct         %LV infarct 30    %LV infarct         %LV infarct       
(3 x #pts)                    (3 x #pts)                    (3 x #pts)                    (3 x #pts)                    (3 x #pts)

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1+V2 R-criteria points

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1+V2 R-criteria points

<b>Patient ID:</b>	23	<b>QRS Duration:</b>	94ms	<b>Amplitude Adjustment:</b>	+10%
<b>Age &amp; Sex:</b>	45 Male	<b>QRS Axis:</b>	+60°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	No Confounders	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	9 points (27%)



Patient ID 23

QRS duration 94ms

Amplitude adjust +10%  
(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓10% for females)

Age & gender 45 Male

QRS axis +60°

Duration adjust 0% RAO(\*\*, \*\*\*)Yes(No)  
(↓ 10% for females)

	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
Lead	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVF	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
V1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
Ant.	any Q	1	any QR	1	any Q	1	any QR (or any Q if *)	1	any Q	1
Post.*	Init R ≤ 20 ms						NtchInit40			
V2	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1	R/S ≥ 1	1
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
V2	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
Ant.	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR (or any Q if *)	1	any Q	1
Post.*	any Q	1	R ≤ 10 ms		any Q	1	R ≤ 10 ms		R ≤ 10 ms	
V3	R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV		R ≤ 0.1mV	
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
V3	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
Ant.	Q ≥ 50 ms	2	Q ≥ 30 ms	1	Q ≥ 50 ms	2	Q ≥ 30 ms	1	Q ≥ 30 ms	1
Post.*	Qs0.2&Ss0.2mV		Qs0.3&Ss0.3mV		Qs0.2&Ss0.2mV		Qs0.3&Ss0.3mV		Qs0.2&Ss0.2mV	
V4	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
V5	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
V5	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
Ant.	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3		R/S ≤ 3	
Ant.	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
Post.*	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
Total	Points		Points		Points		Points		Points	9

Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
aVL	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
aVF	R/S ≤ 0.5	1
	R/S ≤ 0.5	1
aVL	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
aVF	R/Q ≤ 0.5	1
	R/Q ≤ 0.5	1
V1	NchInit40	1
Ant.	R ≥ 0.3 mV	2
V1	R ≥ 30 ms	
	R ≥ 0.2 mV	1
	R ≥ 20 ms	
Post	S/S' ≥ 2.0	3
V2	S/S' ≥ 1.5	2
	S/S' ≥ 125	1
Ant.	NchInit40	1
V2	R ≥ 0.4 mV	2
	R ≥ 30 ms	
	R ≥ 0.3 mV	1
V2	R ≥ 20 ms	
	S/S' ≥ 2.5	3
Post	S/S' ≥ 2.0	2
V5	S/S' ≥ 1.5	1
	any Q	
V6	R/R' ≥ 2	2
	R/R' ≥ 1	1
	R/S ≤ 2	
V6	R ≤ 0.5 mV	1
	R/R' ≥ 2	2
V6	R/R' ≥ 1	1
	R/S ≤ 2	
Total	Points	

%LV infarct \_\_\_\_\_  
(3 \* #pts)

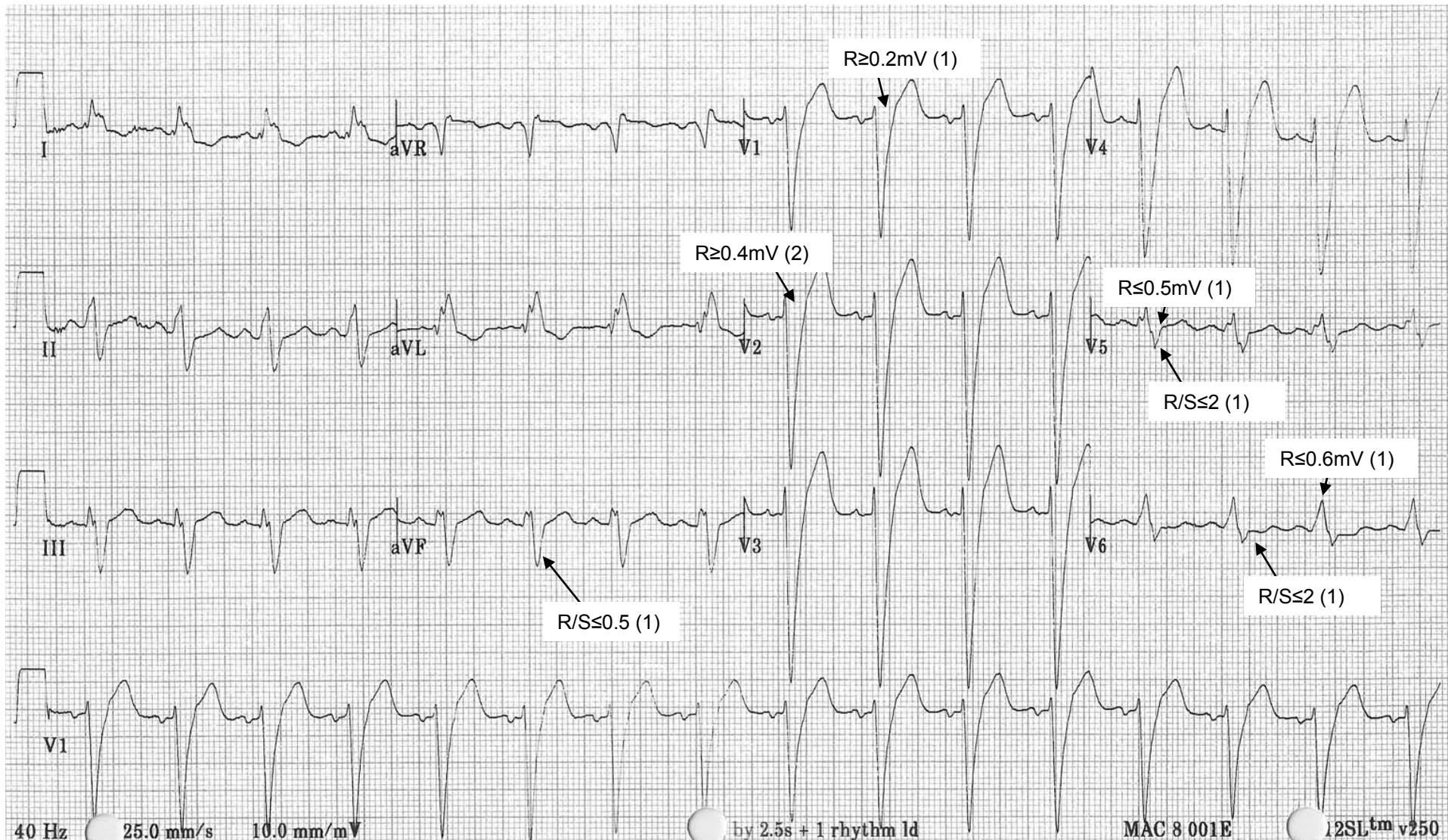
%LV infarct \_\_\_\_\_ %LV infarct \_\_\_\_\_ %LV infarct \_\_\_\_\_ %LV infarct \_\_\_\_\_ %LV infarct \_\_\_\_\_ 27  
(3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

\* (for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1+V3

\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 Post criteria

\*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	24	<b>QRS Duration:</b>	170ms	<b>Amplitude Adjustment:</b>	-9%
<b>Age &amp; Sex:</b>	54 Female	<b>QRS Axis:</b>	-37°	<b>Duration Adjustment:</b>	-10%
<b>Conduction Type:</b>	LBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points:</b>	8 points (24%)



QRS Scoring

Patient ID 24

QRS duration 170ms

Amplitude adjust -9%

(↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 54 Female

QRS axis -37°

Duration adjust -10%

RAO(\*\*, \*\*\*)Yes(No)

(↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	2	any QR	2
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
Ant.	Init R ≤ 20 ms						NtchInit40			
	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
V2	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
	Init R ≥ 10 mV		R ≥ 0.7 mV		Init R ≥ 10 mV		R ≥ 0.7 mV		R ≥ 0.7 mV	
	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1	Qs0.2&Ss0.2mV	1
Ant.	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR	1	any Q	1
	any Q	1	R ≤ 10 ms	1	any Q	1	(or any Q if *)	1	R ≤ 10 ms	1
	R ≤ 10 ms		R ≤ 0.1mV		R ≤ 10 ms		NtchInit40		R ≤ 0.1mV	
V2	R ≤ 0.1mV		R/S ≥ 15	1	R ≤ 0.1mV		R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 70 ms	2	R ≥ 60 ms	2	Init R ≥ 70 ms	2	R ≥ 60 ms	2	R ≥ 60 ms	2
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
Post.**	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
	Init R ≥ 2.0 mV		R ≥ 15 mV		Init R ≥ 2.0 mV		R ≥ 15 mV		R ≥ 15 mV	
	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1	Qs0.3&Ss0.3mV	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR&(Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms		R ≤ 10 ms		R ≤ 10 ms		NtchInit40		R ≤ 10 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	R ≤ 20 ms		R ≤ 20 ms		R ≤ 20 ms		(or any Q if *)		R ≤ 20 ms	
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
V5	R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5		R/S ≤ 0.5	
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
V6	R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV		R ≤ 0.5 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
Total	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1	R/Q ≤ 2	1
V5	R/S ≤ 2		R/S ≤ 15		R/S ≤ 2		R/S ≤ 2		R/S ≤ 2	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
	NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40	
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1		R/S ≤ 1	
Total	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1	R/Q ≤ 3	1
	R/S ≤ 3		R/S ≤ 2		R/S ≤ 3		R/S ≤ 3		R/S ≤ 3	
	R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV		R ≤ 0.6 mV	
NtchInit40		NtchInit40		NtchInit40		NtchInit40		NtchInit40		
Total	Points		Points		Points		Points		Points	

LBBB		
Lead	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	
II	R/Q ≤ 15	1
	R/S ≤ 15	
	Q ≥ 40 ms	2
aVL	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
	R/S ≤ 0.5	
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	R/S ≤ 0.5	2
	R/Q ≤ 0.5	
	R/S ≤ 1	1
Ant.***	NtchInit40	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	
V1	R ≥ 0.2 mV	1
	R ≥ 20 ms	
	S/S' ≥ 2.0	3
Post	S/S' ≥ 1.5	2
	S/S' ≥ 125	1
	NtchInit40	1
Ant.**	R ≥ 0.4 mV	2
	R ≥ 30 ms	
	R ≥ 0.3 mV	1
V2	R ≥ 20 ms	
	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
Post	S/S' ≥ 1.5	1
	any Q	1
	R/R' ≥ 2	2
V5	R/R' ≥ 1	1
	R/S ≤ 2	
	R ≤ 0.5 mV	1
V6	Q ≥ 20 ms	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
Total	R/S ≤ 2	
	R ≤ 0.6 mV	1
	Points	8

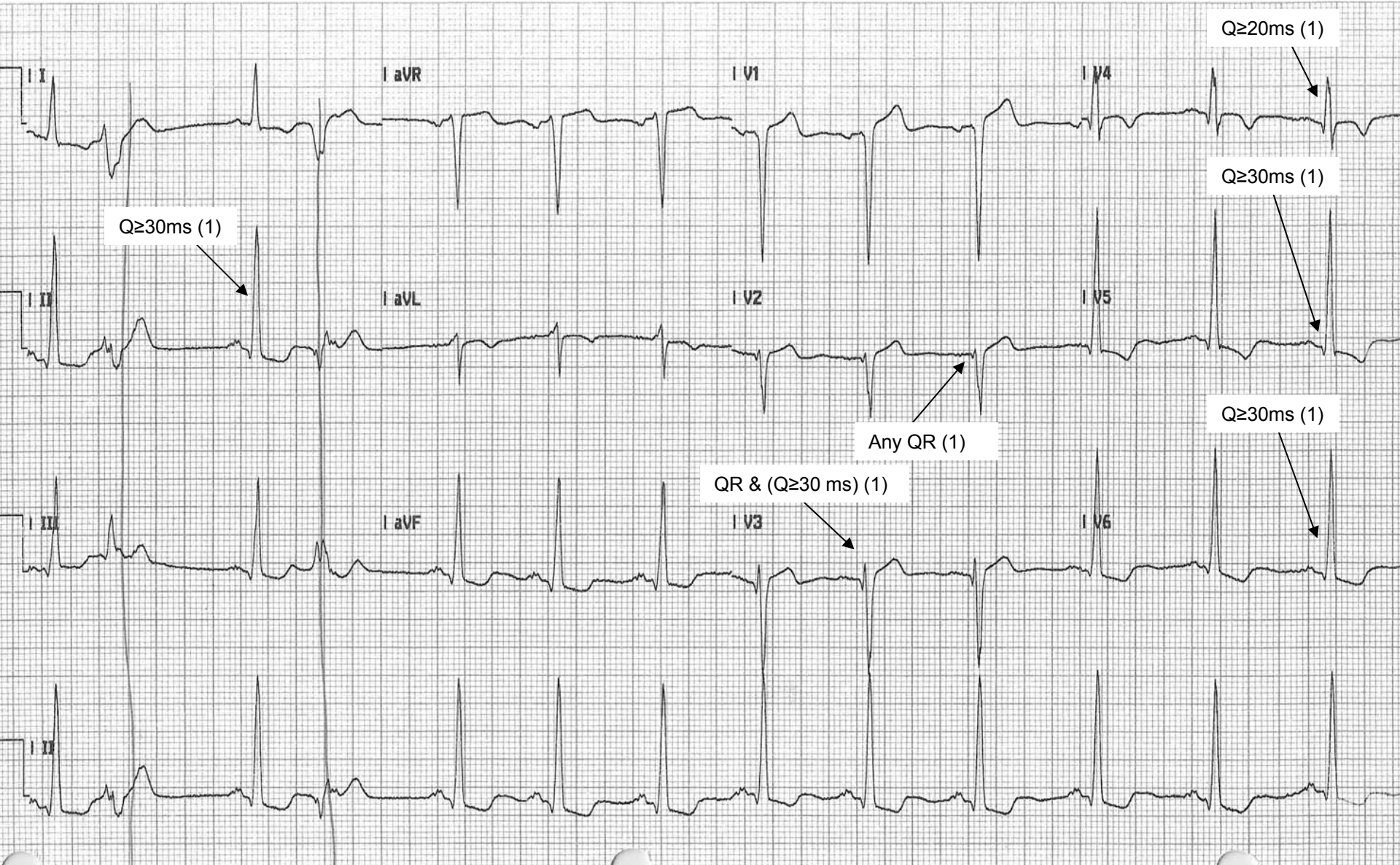
%LV infarct 24  
(3 \* #pts)

%LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_ %LV infarct (3 x #pts) \_\_\_\_\_

\*(for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1-V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points



<b>Patient ID:</b>	25	<b>QRS Duration:</b>	110ms	<b>Amplitude Adjustment:</b>	-12%
<b>Age &amp; Sex:</b>	67 Male	<b>QRS Axis:</b>	+66°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	LVH	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	6 points (18%)



QRS Scoring

Patient ID 25 QRS duration 110ms Amplitude adjust -12%  
 (↑1%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)

Age & gender 67 Male QRS axis +66° Duration adjust 0% RAO(\*\*, \*\*\*)Yes(No)  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1	Q ≥ 30 ms R/Q ≤ 1 R ≤ 0.2 mV	1
II	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2	Q ≥ 40 ms Q ≥ 30 ms	2
aVL	Q ≥ 30 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 40 ms R/Q ≤ 1	1	Q ≥ 30 ms R/Q ≤ 1	1
aVF	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 60 ms Q ≥ 50 ms Q ≥ 40 ms R/Q ≤ 1 R/Q ≤ 2	3	Q ≥ 50 ms Q ≥ 40 ms Q ≥ 30 ms R/Q ≤ 1 R/Q ≤ 2	3
V1	Q ≥ 50 ms any Q Init R ≤ 2.0 ms	2			Q ≥ 50 ms any QR any Q Init R ≥ 2.0 ms	2	any QR (or any Q if *) NtchInit40	1	any Q	1
V1 Post.**	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2	Init R ≥ 60 ms Init R ≥ 15 mV Init R ≥ 50 ms Init R ≥ 10 mV	2	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2	R ≥ 50 ms R ≥ 1mV R ≥ 40 ms R ≥ 0.7 mV	2
V2	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1mV	2	any QR R ≤ 10 ms R ≤ 0.1mV	1	Q ≥ 50 ms any Q R ≤ 10 ms R ≤ 0.1mV	2	any QR (or any Q if *) NtchInit40	1	any Q R ≤ 10 ms R ≤ 0.1mV	1
V2 Post.**	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2	Init R ≥ 70 ms Init R ≥ 2.5 mV Init R ≥ 50 ms Init R ≥ 2.0 mV	2	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2	R ≥ 60 ms R ≥ 2 mV R ≥ 50 ms R ≥ 15 mV	2
V3	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2	QR & (Q ≥ 30 ms) NtchInit40 any QR (or any Q if *)	2	Q ≥ 30 ms R ≤ 10 ms Q ≥ 20 ms R ≤ 20 ms	2
V4	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	2	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	2	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	2	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	2	Q ≥ 20 ms R/Q ≤ 0.5 R/S ≤ 0.5 R/Q ≤ 1 R/S ≤ 1 R ≤ 0.5 mV NtchInit40	2
V5	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 15 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 15 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 2 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1
V6	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 2 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1	Q ≥ 30 ms R/Q ≤ 1 R/S ≤ 1 R/Q ≤ 3 R/S ≤ 3 R ≤ 0.6 mV NtchInit40	1
<b>Total</b>	Points		Points		Points		Points <b>6</b>		Points	

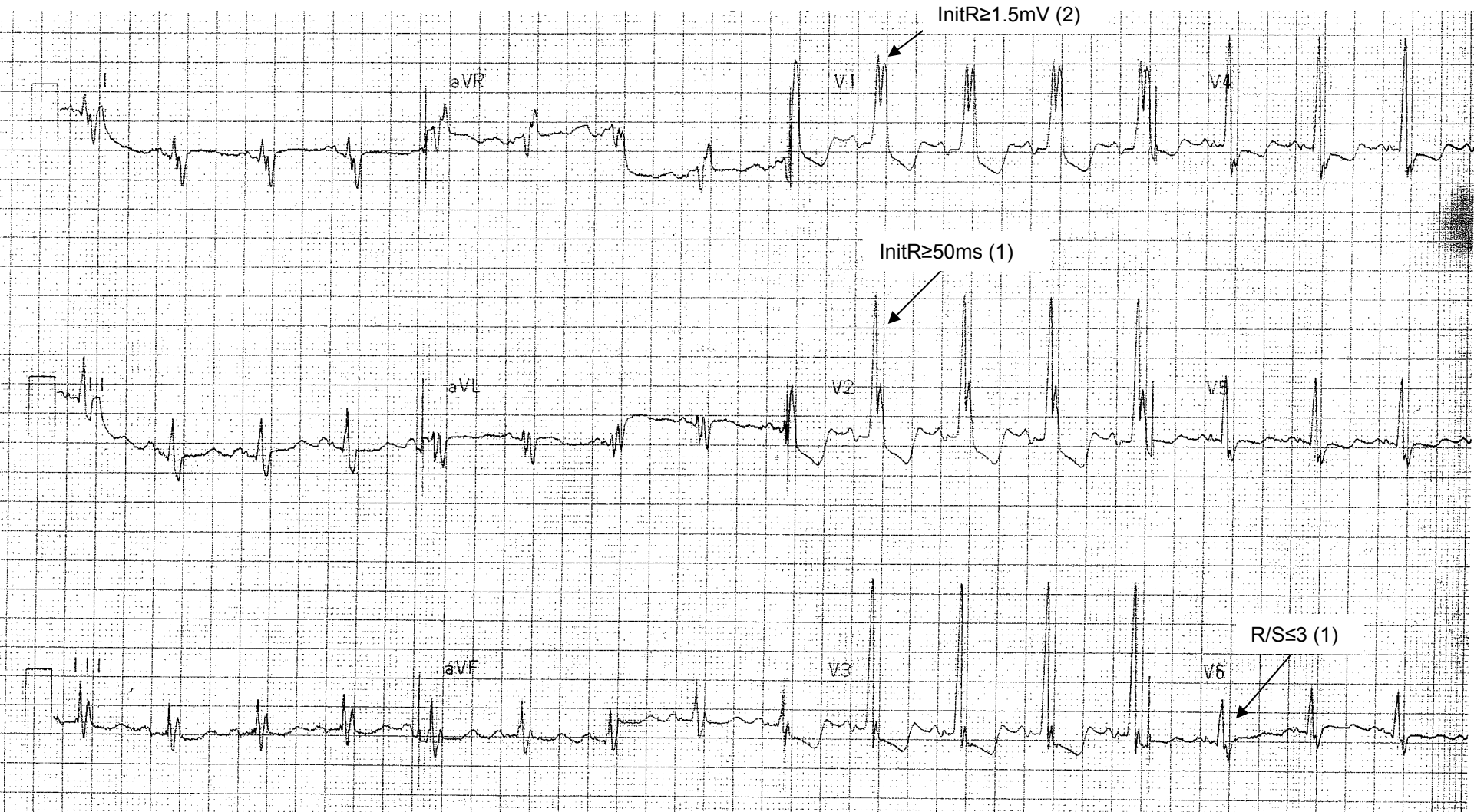
Lead	LBBB	
	Criteria	Pts
I	any Q R/Q ≤ 1 R/S ≤ 1	2
II	R/Q ≤ 15 R/S ≤ 15	1
aVL	Q ≥ 40 ms Q ≥ 30 ms	2
aVF	R/Q ≤ 0.5 R/S ≤ 0.5	1
V1	Q ≥ 50 ms Q ≥ 40 ms R/Q ≤ 0.5 R/S ≤ 0.5	2
V1 Ant.***	NtchInit40	1
V1 Post	R ≥ 0.3 mV R ≥ 30 ms R ≥ 0.2 mV R ≥ 20 ms	2
V2	S/S' ≥ 2.0 S/S' ≥ 15	3
V2 Ant.***	NtchInit40	1
V2 Post	R ≥ 0.4 mV R ≥ 30 ms R ≥ 0.3 mV R ≥ 20 ms	2
V5	S/S' ≥ 2.5 S/S' ≥ 2.0 S/S' ≥ 15	3
V6	any Q R/R' ≥ 2 R/R' ≥ 1 R/S ≤ 2 R ≤ 0.5 mV	1
<b>Total</b>	Points	

%LV infarct       
 (3 #pts)

%LV infarct      %LV infarct      %LV infarct      %LV infarct 18 %LV infarct       
 (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts) (3 x #pts)

\*(for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1-V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points

<b>Patient ID:</b>	26	<b>QRS Duration:</b>	128ms	<b>Amplitude Adjustment:</b>	-7%
<b>Age &amp; Sex:</b>	62 Male	<b>QRS Axis:</b>	+121°	<b>Duration Adjustment:</b>	0%
<b>Conduction Type:</b>	RBBB	<b>Right Atrial Overload:</b>	No	<b>Total Points</b>	4 points (12%)



QRS Scoring

Patient ID 26 QRS duration 128ms Amplitude adjust -7%  
 (11%/yr age 20-54; ↓1%/yr >55 yrs; ↓ 10% for females)  
 Age & gender 62 Male QRS axis +121° Duration adjust 0% RAO(\*\*, \*\*\*)Yes/No  
 (↓ 10% for females)

Lead	RBBB		LAFB		LAFB + RBBB		LVH		No Confounders	
	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts	Criteria	Pts
I	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV		R ≤ 0.2 mV	
II	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
aVL	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1	R/Q ≤ 1	1
	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 50 ms	3	Q ≥ 60 ms	3	Q ≥ 50 ms	3
aVF	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 40 ms	2	Q ≥ 50 ms	2	Q ≥ 40 ms	2
	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 40 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
V1	Q ≥ 50 ms	2	Q ≥ 50 ms	2	Q ≥ 50 ms	2	any QR	1	any QR	1
	any Q	1	any QR	1	any Q	1	(or any Q if *)	1	any Q	1
	Init R ≤ 20 ms						NtchInit40			
Post.**	Init R ≥ 60 ms	2	R ≥ 50 ms	2	Init R ≥ 60 ms	2	R ≥ 50 ms	2	R ≥ 50 ms	2
	Init R ≥ 15 mV		R ≥ 1mV		Init R ≥ 15 mV		R ≥ 1mV		R ≥ 1mV	
	Init R ≥ 50 ms	1	R ≥ 40 ms	1	Init R ≥ 50 ms	1	R ≥ 40 ms	1	R ≥ 40 ms	1
V2	Q ≥ 50 ms	2	any QR	1	Q ≥ 50 ms	2	any QR	1	any Q	1
	any Q	1	R ≤ 10 ms	1	any Q	1	(or any Q if *)	1	R ≤ 10 ms	1
	R ≤ 10 ms	1	R ≤ 0.1mV	1	R ≤ 10 ms	1	NtchInit40	1	R ≤ 0.1mV	1
Post.**	Init R ≥ 70 ms	2	R/S ≥ 15	1	Init R ≥ 70 ms	2	R/S ≥ 15	1	R/S ≥ 15	1
	Init R ≥ 2.5 mV		R ≥ 2 mV		Init R ≥ 2.5 mV		R ≥ 2 mV		R ≥ 2 mV	
	Init R ≥ 50 ms	1	R ≥ 50 ms	1	Init R ≥ 50 ms	1	R ≥ 50 ms	1	R ≥ 50 ms	1
V3	Q ≥ 30 ms	2	Q ≥ 30 ms	2	Q ≥ 30 ms	2	QR & (Q ≥ 30 ms)	2	Q ≥ 30 ms	2
	R ≤ 10 ms	1	R ≤ 10 ms	1	R ≤ 10 ms	1	NtchInit40	1	R ≤ 10 ms	1
	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	any QR	1	Q ≥ 20 ms	1
V4	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1	Q ≥ 20 ms	1
	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2	R/Q ≤ 0.5	2
	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1	R/S ≤ 0.5	1
V5	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
V6	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1	Q ≥ 30 ms	1
	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2	R/Q ≤ 1	2
	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1	R/S ≤ 1	1
<b>Total</b>	<b>Points</b>	<b>4</b>	<b>Points</b>		<b>Points</b>		<b>Points</b>		<b>Points</b>	

Lead	LBBB	
	Criteria	Pts
I	any Q	1
	R/Q ≤ 1	2
	R/S ≤ 1	1
II	Q ≥ 40 ms	2
	Q ≥ 30 ms	1
	R/Q ≤ 0.5	1
aVL	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/S ≤ 0.5	2
aVF	Q ≥ 50 ms	2
	Q ≥ 40 ms	1
	R/Q ≤ 0.5	1
V1	NchInit40	1
	R ≥ 0.3 mV	2
	R ≥ 30 ms	1
V2	S/S' ≥ 2.0	3
	S/S' ≥ 1.5	2
	S/S' ≥ 125	1
V3	NchInit40	1
	R ≥ 0.4 mV	2
	R ≥ 30 ms	1
V4	S/S' ≥ 2.5	3
	S/S' ≥ 2.0	2
	S/S' ≥ 1.5	1
V5	any Q	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
V6	Q ≥ 20 ms	1
	R/R' ≥ 2	2
	R/R' ≥ 1	1
<b>Total</b>	<b>Points</b>	

%LV infarct       
 (3 #pts)

%LV infarct 12 (3 x #pts)    %LV infarct      (3 x #pts)    %LV infarct      (3 x #pts)    %LV infarct      (3 x #pts)    %LV infarct      (3 x #pts)

\*(for LVH) if ≥4 other points in leads I, aVL, V4, V5 or V6 then count QS in V1-V3  
 \*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points  
 \*\*\* (RAO) if P positive amp in V1 ≥ 0.1mV or aVF P ≥ 0.175 mV, then exclude V1-V2 R-criteria points