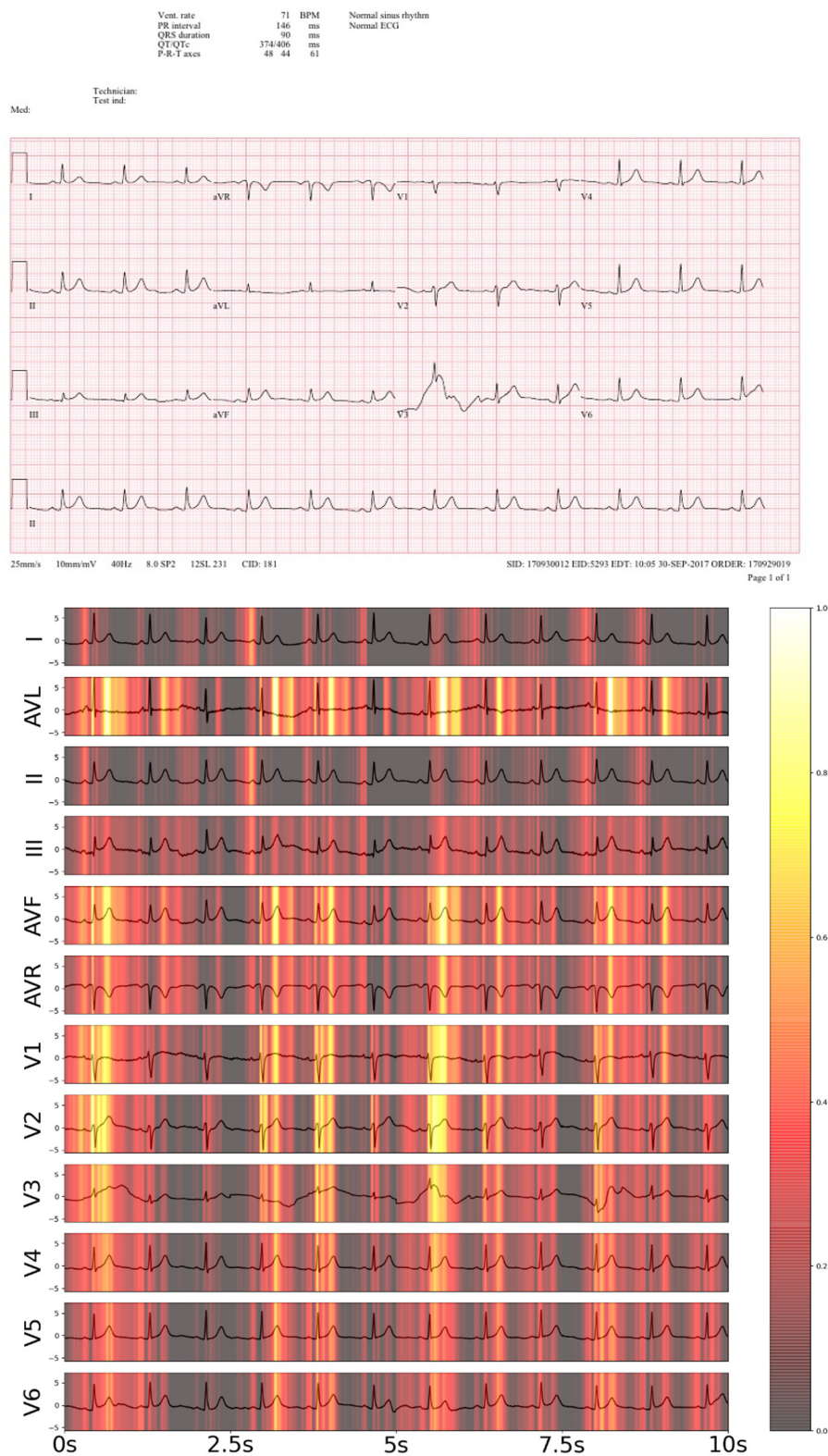


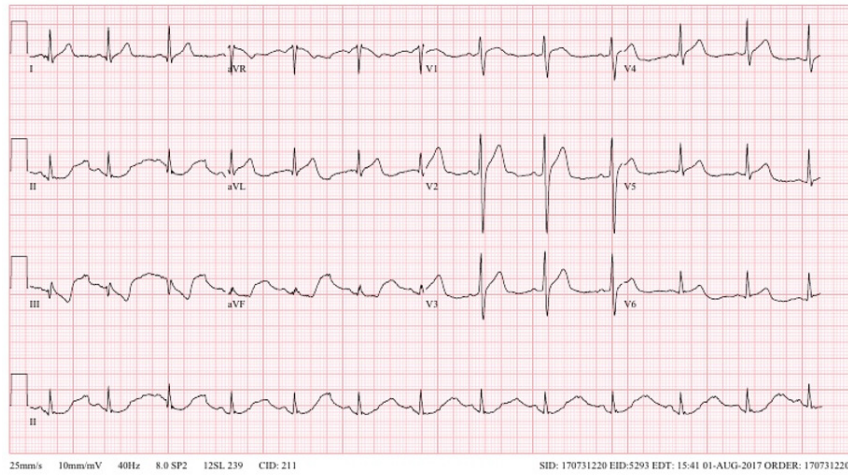
Supplementary Figure S1. The 12-lead electrocardiogram and heatmap images of false positive cases by the deep learning model.



(A) Case 1. In V3 lead, there's a baseline wander with a pointed shape that may be mistaken for ST elevation.

Vent. rate	75	BPM	Normal sinus rhythm
PR interval	142	ms	Normal ECG
QRS duration	100	ms	
QT/QTc	388/431	ms	
P-R-T axes	49 23 17		

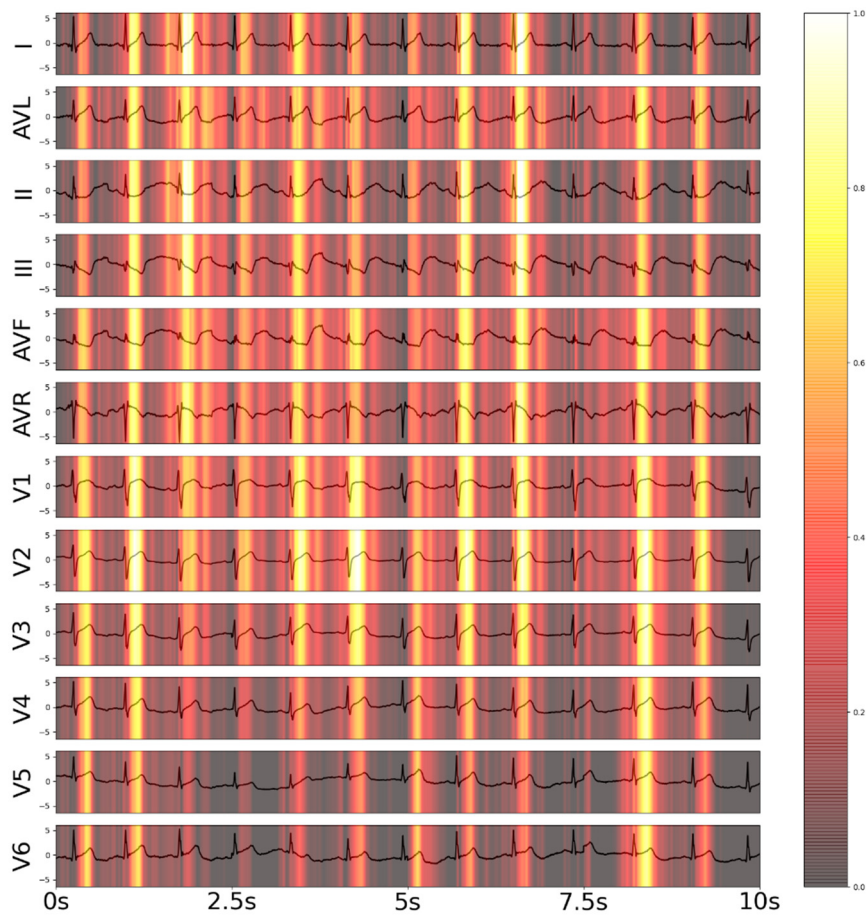
Technician:
Test ind:



25mm/s 10mm/mV 40Hz 8.0 SP2 12SL 239 CID: 211

SID: 170731220 EID: 5293 EDT: 15:41 01-AUG-2017 ORDER: 170731220

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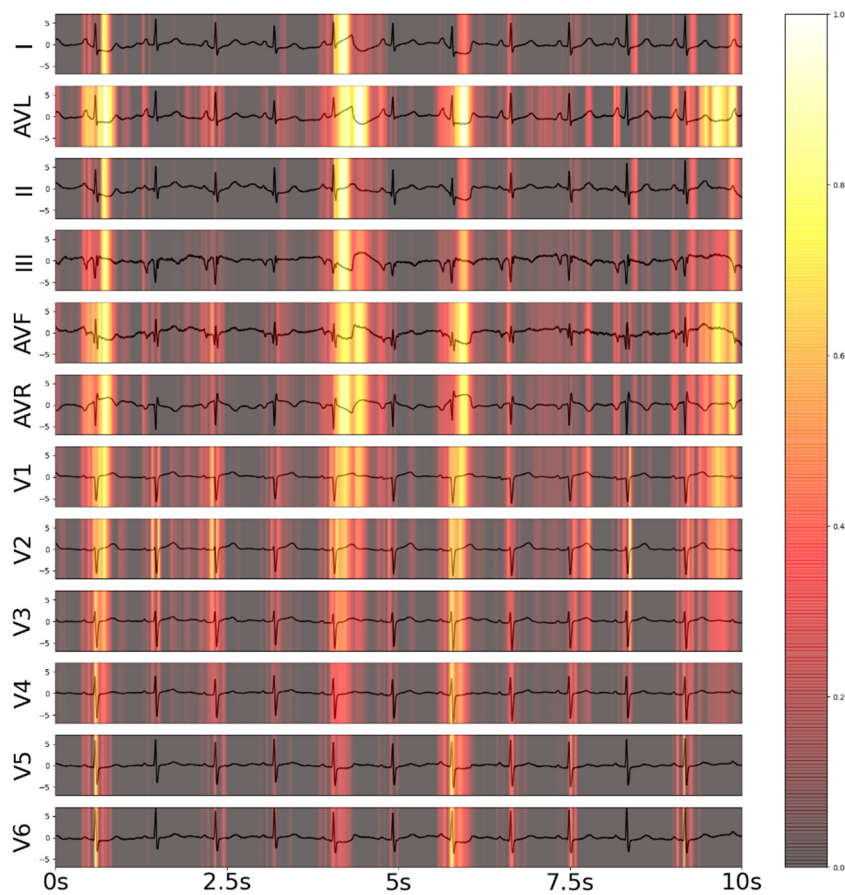
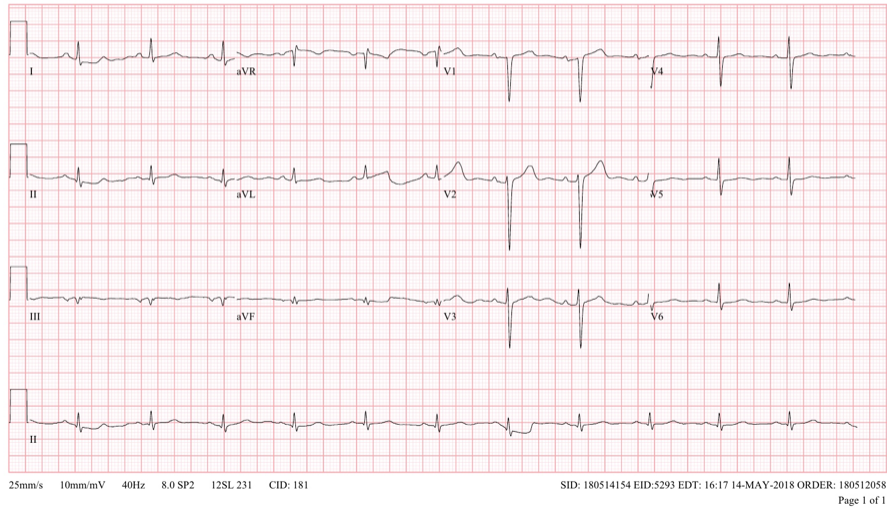


(B) Case 2. Widespread baseline wander in limb leads.

Vent. rate	69	BPM	Normal sinus rhythm
PR interval	170	ms	Normal ECG
QRS duration	96	ms	
QT/QTc	412/441	ms	
P-R-T axes	8 0 32		

Technician:
Test ind:

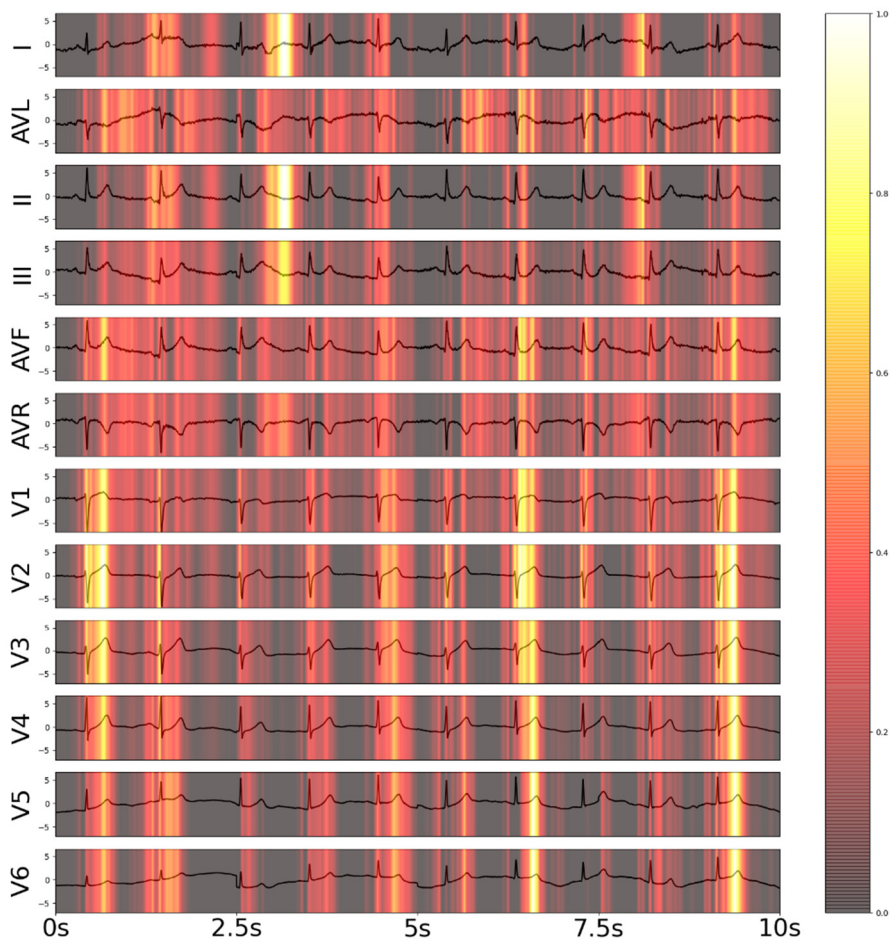
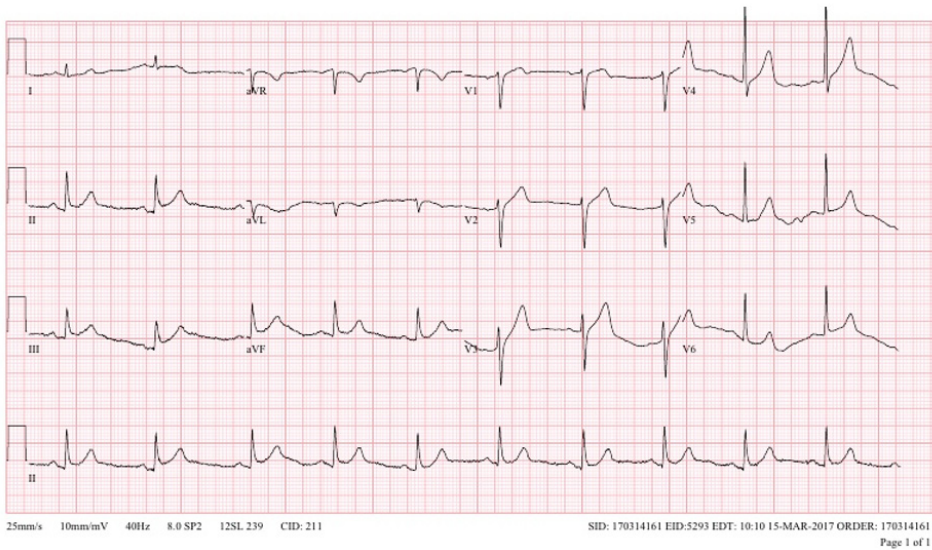
Med:



(C) Case 3. Baseline wander causes a misinterpretation of ST elevation in several leads.

Vent. rate	62	BPM	Normal sinus rhythm
PR interval	156	ms	Normal ECG
QRS duration	88	ms	
QT/QTc	408/414	ms	
P-R-T axes	71 76	79	

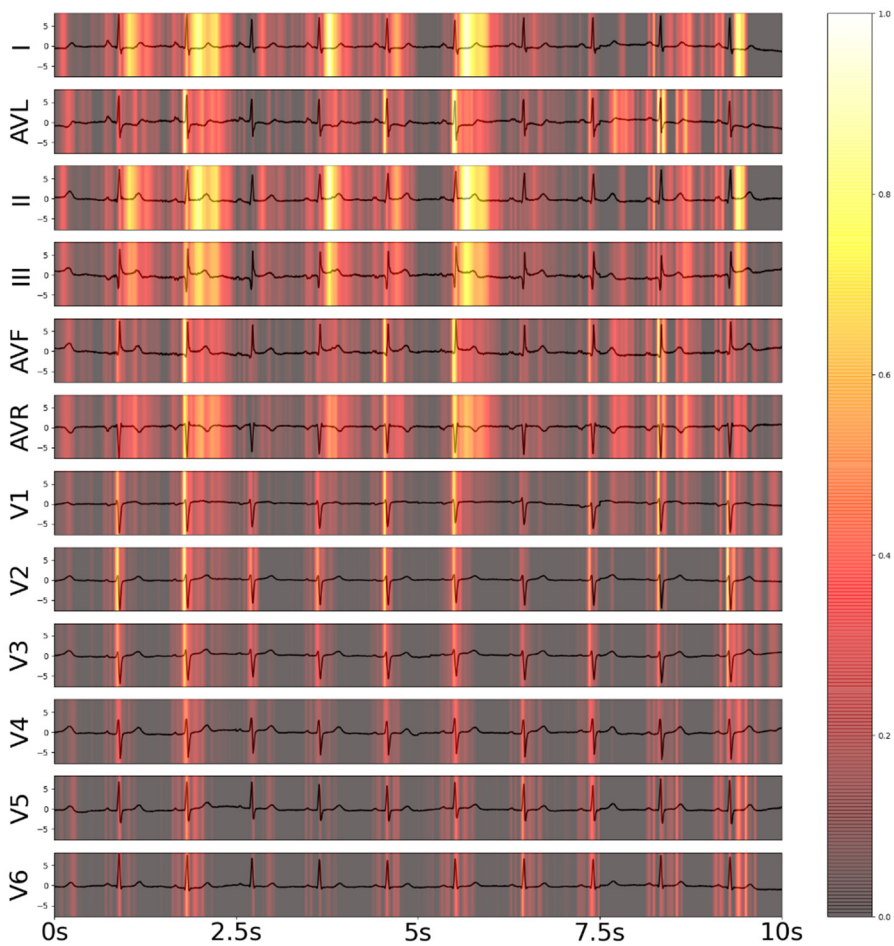
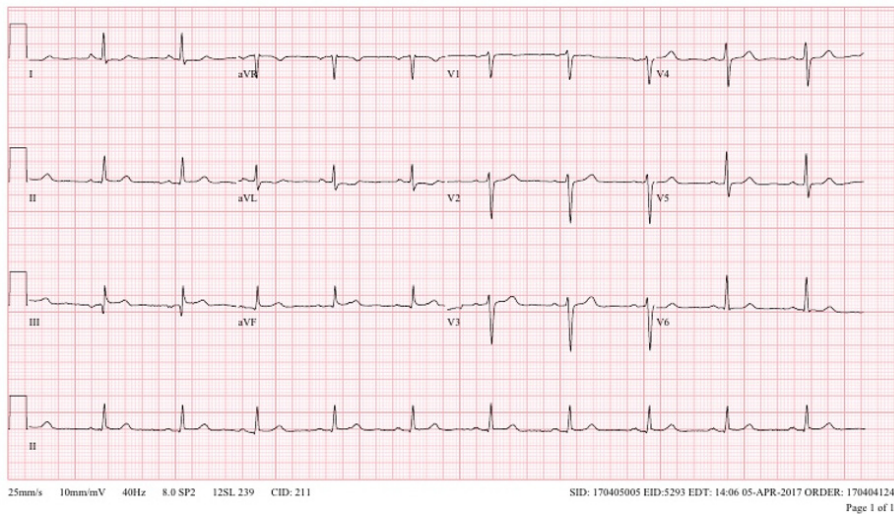
Technician:
Test ind:



(D) Case 4. Baseline wander causes a misinterpretation of ST elevation in several leads.

Vent. rate	64	BPM	Normal sinus rhythm
PR interval	166	ms	Normal ECG
QRS duration	96	ms	
QT/QTc	406/418	ms	
P-R-T axes	14 46 70		

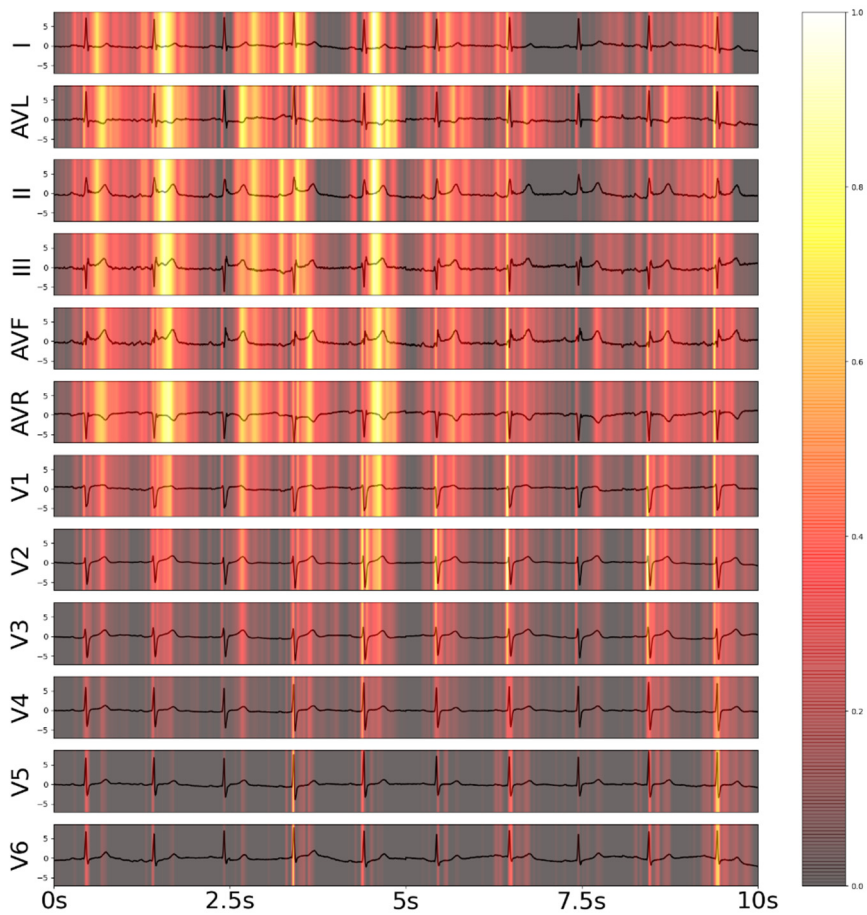
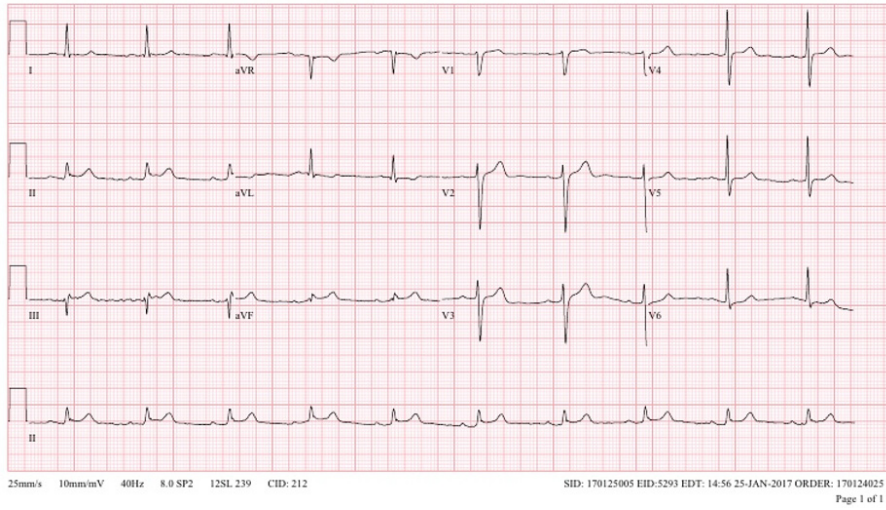
Technician:
Test ind:



(E) Case 5. A deep learning model detected true ST elevation myocardial infarction with total occlusion of the right coronary artery.

Vent. rate	60	BPM	Normal sinus rhythm
PR interval	192	ms	Normal ECG
QRS duration	112	ms	
QT/QTc	414/414	ms	
P-R-T axes	57 9 65		

Technician:
Test ind:



(F) Case 6. A deep learning model detected true ST elevation myocardial infarction with total occlusion of the right coronary artery.