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Main Category: Abnormal Heartbeat
Possible Conditions:
1. Atrial fibrillation
2. Tachycardia
3. Bradycardia
4. Ventricular fibrillation
5. Premature contractions

EchoSense - ECG Analysis

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Main Category: Myocardial Infarction
Possible Conditions:
1. Acute Myocardial Infarction (AMI)
2. STEMI
3. NSTEMI
4. Arrhythmias
5. Heart Failure
6. Cardiogenic Shock
7. Ventricular Septal Defect
8. Papillary Muscle Rupture

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Main Category: History of Myocardial Infarction
Possible Conditions:
1. Pathological Q Waves
2. T Wave Inversions
3. ST Segment Changes

```
Epoch 1/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 21s 347ms/step - accuracy: 0.2942 - loss: 1.9648 - val_accuracy: 0.2845 - val_loss: 1.3729
Epoch 2/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 20s 336ms/step - accuracy: 0.3658 - loss: 1.3330 - val_accuracy: 0.7047 - val_loss: 0.9655
Epoch 3/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 19s 334ms/step - accuracy: 0.7029 - loss: 0.8252 - val_accuracy: 0.8276 - val_loss: 0.4821
Epoch 4/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 19s 335ms/step - accuracy: 0.8621 - loss: 0.4157 - val_accuracy: 0.8944 - val_loss: 0.2721
Epoch 5/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 19s 336ms/step - accuracy: 0.9296 - loss: 0.2335 - val_accuracy: 0.9353 - val_loss: 0.1649
Epoch 6/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 20s 336ms/step - accuracy: 0.9593 - loss: 0.1349 - val_accuracy: 0.9547 - val_loss: 0.0941
Epoch 7/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 19s 335ms/step - accuracy: 0.9745 - loss: 0.0725 - val_accuracy: 0.9784 - val_loss: 0.0461
Epoch 8/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 20s 337ms/step - accuracy: 0.9842 - loss: 0.0524 - val_accuracy: 0.9914 - val_loss: 0.0272
Epoch 9/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 19s 335ms/step - accuracy: 0.9903 - loss: 0.0374 - val_accuracy: 0.9957 - val_loss: 0.0145
Epoch 10/10
58/58 ━━━━━━━━━━━━━━━━━━━━ 20s 340ms/step - accuracy: 0.9927 - loss: 0.0228 - val_accuracy: 0.9935 - val_loss: 0.0096
19/19 - 2s - 81ms/step - accuracy: 0.9948 - loss: 0.0107
Test Accuracy: 99.48%
```