

# Case

## Rating Mrs. Pane's History

- Mrs. Pane has both low risk and high risk features in her history.
- To decide on a disposition for Mrs. Pane, you need to decide if her history is "slightly suspicious" or "moderately suspicious."
- You wonder what strategies have been proposed to reduce subjectivity in this determination.



Table 2

Three Objective Models For Scoring the History Component of the HEART Score

Model 1	Model 2	Model 3
<b>0 Points:</b> Atypical Only	<b>0 Points:</b> 0-2 Symptoms	<b>0 Points:</b> 1-2 Minor Only
<b>1 Point:</b> Typical and Atypical	<b>1 Point:</b> 3-4 Symptoms	<b>1 Point:</b> >1 Major or >2 Minor
<b>2 Points:</b> Typical Only	<b>2 Points:</b> >4 Symptoms	<b>2 Points:</b> >1 Major or Major + Minor
<b>Typical:</b> -Substernal chest pain -Exertional chest pain -Relief with nitroglycerin -Cold sweats/ diaphoresis -Pain in L arm -Jaw pain <b>Atypical:</b> -Weakness -Nausea -Dyspnea -Dizziness -Pain in both arms -Pain under shoulders -Pain in R arm/ shoulder -Neck pain	<b>Symptoms:</b> -Substernal chest pain -Exertional chest pain -Relief with nitroglycerin -Weakness -Nausea/ vomiting -Dyspnea -Cold sweats/ diaphoresis -Jaw/ teeth pain -Neck pain -Pain in both arms -Pain under shoulders -Dizziness -Pain in R arm/ shoulder	<b>Major:</b> -Dyspnea -Substernal chest pain -Exertional chest pain -Relief with nitroglycerin <b>Minor:</b> -Weakness -Nausea/ vomiting -Cold sweats/ diaphoresis -Jaw/ teeth pain -Neck pain -Pain in both arms -Pain under shoulders -Pain in L arm -Dizziness -Pain in R arm/ shoulder

original 2008 paper proposing HEART score

In one year at a single tertiary care ED (n = 745)

	Model 1	Model 2	Model 3
Mean HEART Score	2.97 (SD = 1.17)	2.57 (SD = 1.25)	3.30 (SD = 1.35)
AIC for Positive Cardiac Test Result (e.g. positive stress ECG)	400.39	395.46 (better fit)	397.64

AIC = Akaike information criterion

**Marchick MR, Setteducato ML, Revenis JJ, et al. Comparison of Three Symptom Classification Methods to Standardize the History Component of the HEART Score. Crit Pathw Cardiol. 2017;16(3):102-104. doi:10.1097/HPC.0000000000000119**