

Interpretation:

People with higher or lower cholesterol can have a wide range of heart rates. A few outliers exist — for example, some patients with very high cholesterol (>500 mg/dL) but moderate heart rates (~140 bpm). Overall, the data suggests weak or no correlation between cholesterol and heart rate in this sample.

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# 1b. Boxplot of age grouped by target
plt.figure()
data_for_box = [neg.values, pos.values]
plt.boxplot(data_for_box, labels=["No Disease (0)", "Disease (1)"])
plt.title("Age by Outcome (Boxplot)")
plt.ylabel("Age")
plt.tight_layout()
plt.show()
```

