

6. Solution: B

Let

H = event that a death is due to heart disease

F = event that at least one parent suffered from heart disease

Then based on the medical records,

$$P[H \cap F^c] = \frac{210 - 102}{937} = \frac{108}{937}$$

$$P[F^c] = \frac{937 - 312}{937} = \frac{625}{937}$$

$$\text{and } P[H | F^c] = \frac{P[H \cap F^c]}{P[F^c]} = \frac{108}{937} / \frac{625}{937} = \frac{108}{625} = 0.173$$