

Estimated percentage of patients who experience hernia

Patients experiencing incisional hernias in year 1:
(Deerenberg et al., 2015)

Small bites: 13%
Large bites: 21%

Percentage of incisional hernias occurring in
years 1, 2, and 3 following surgery:
(Brandl et al., 2014)

Year 1: 40%
Year 2: 40%
Year 3: 20%

Estimated percentage of patients
experiencing hernia in the model:

Small bites: 32.5%
Large bites: 52.5%

$$\text{Small bites IH Rate} = \left(\frac{13\%}{40\%} \right) = 32.5\%$$

$$\text{Large bites IH Rate} = \left(\frac{21\%}{40\%} \right) = 52.5\%$$

Formulas explained

If 21% of patients experience a hernia in the 1st year following wound closure using small bites, and 40% of all hernias occur in the 1st year, then we can estimate that 32.5% percent of patients experience a hernia (at any time) following wound closure using small bites.

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