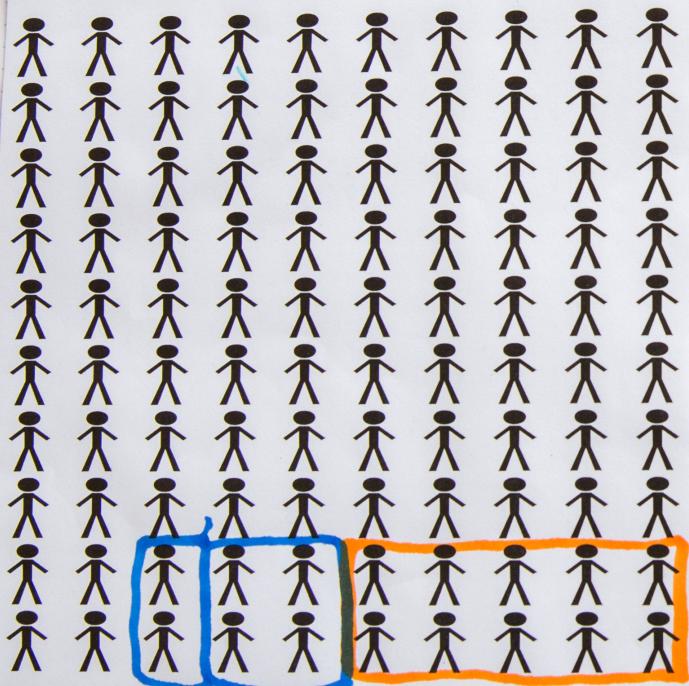


Epidemiology



What is an epidemic?

Prevalence

= $\frac{\# \text{ people with disease}}{\text{Total population (at risk)}}$

$$= \frac{10}{100} = 10\%$$

Time

Point-in-time

Incidence

= $\frac{\# \text{ newly sick}}{\# \text{ susceptible}}$

susceptible becoming sick

$$= \frac{4}{90}$$

over a time period

Drivers of Prevalence

- 1) Incidence ↑
- 2) Case fatality rate ↓