# Incidence and prevalence

## Incidence
### = Risk

New cases



diseased

x 1,000
(Population)
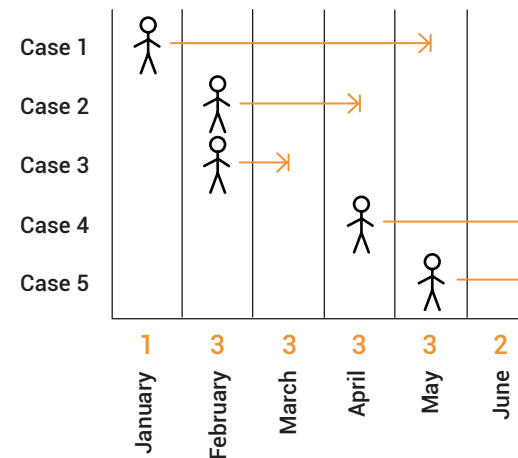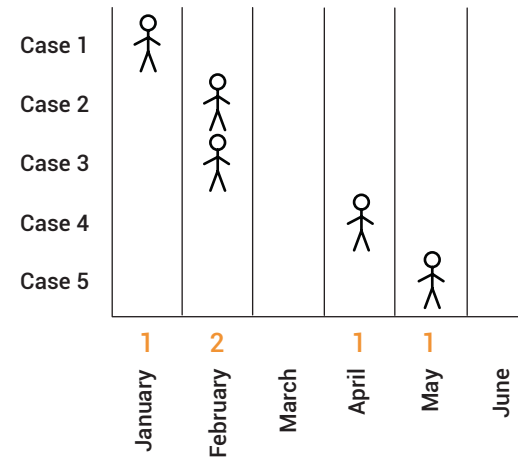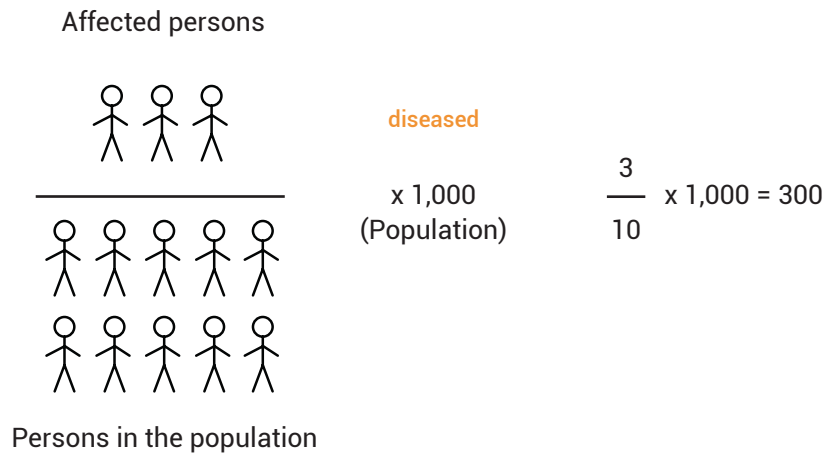
non-diseased

$$\frac{4}{10} \times 1{,}000 = 400$$

Persons at risk
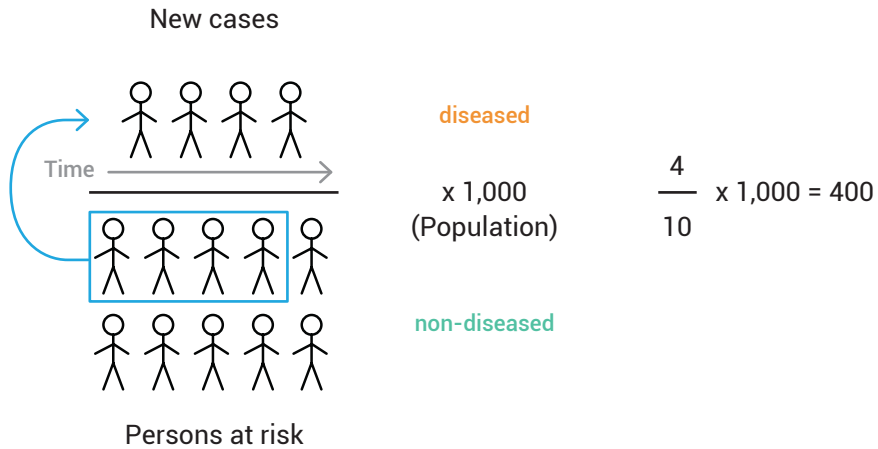
## Prevalence

### = Burden → Good for planning health services

Affected persons



diseased

x 1,000
(Population)

$$\frac{3}{10} \times 1{,}000 = 300$$

Persons in the population



| | January | February | March | April | May | June |
|---|---|---|---|---|---|---|
| | 1 | 2 | | 1 | 1 | |

Case 1, Case 2, Case 3, Case 4, Case 5



| | January | February | March | April | May | June |
|---|---|---|---|---|---|---|
| | 1 | 3 | 3 | 3 | 3 | 2 |

Case 1, Case 2, Case 3, Case 4, Case 5

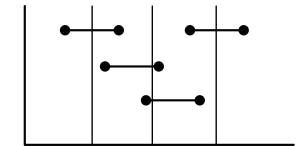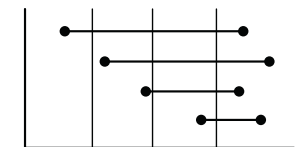**Prevalence =
Incidence x Duration**

↓        ↓

Death  /  Cure

Death / Cure ↑



Prevalence ↓

Death / Cure ↓



Prevalence ↑