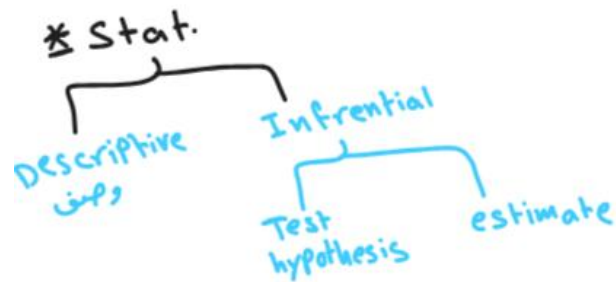
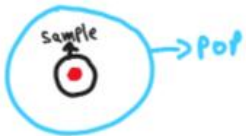


Biostat # 1

* Math vs Statistics
 collection
 organizing
 interpretation Data



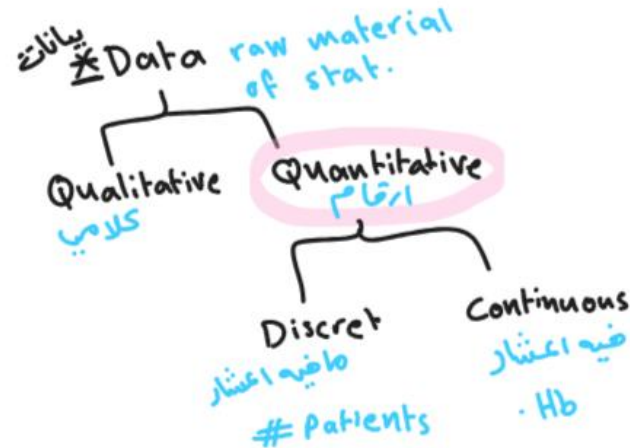
* Population vs sample (aggregates)
 all Part



* Parameter vs statistics
 ↓ ↓
 population sample

$$\mu \rightarrow \bar{X}$$

$$\sigma^2 \rightarrow S^2$$



* Variables ^{تختلف بين الناس}
 what we measure

Q Suppos we measure whether regular taking of vitamins among sample of 50 pregnant women

* Pop = pregnant women

* Sample size = 50

* Variable = taking vitamins

* Variable

- Dependent Cause
- in-dependent effect (Result)

ex smoking → lung cancer
 income → smoking among MS patients