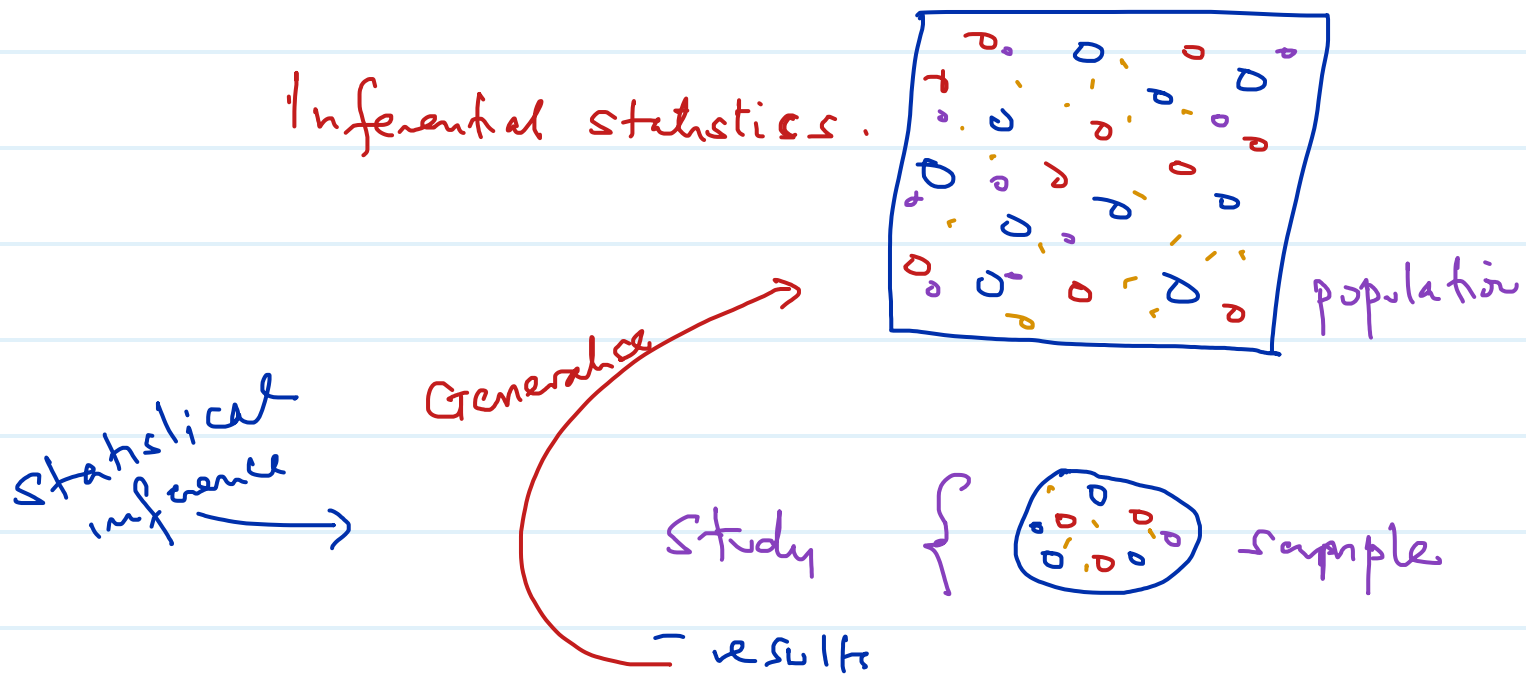


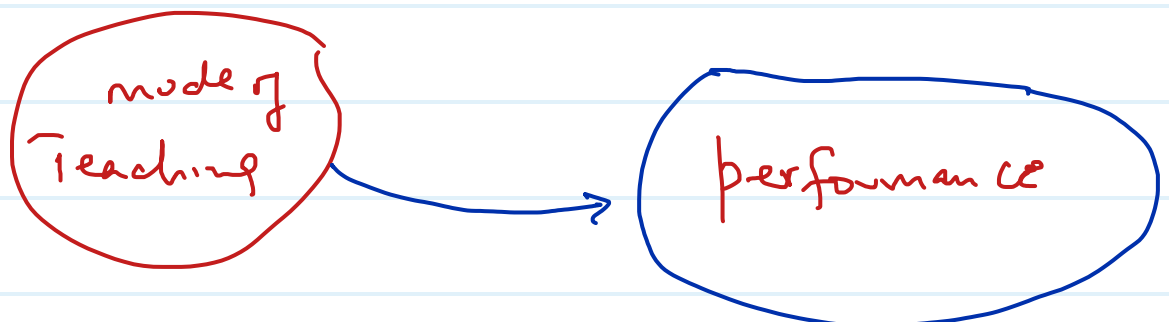
Causal Inferences



Causal Inference

Cause and effect

lead



Does mode of teaching affect performance?

Research

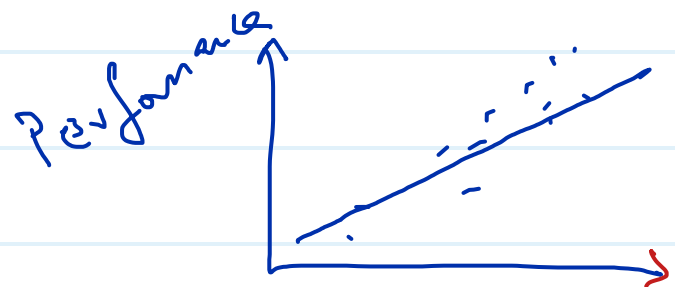
Sem.	No. of new students	Quality / mode of teaching	Performance
1			
2			



Quality of teaching



Cause & effect



No. of new student
(enrolment)



No Cause & effect

Associations or Correlations

Association does not imply Causation
Cause - effect.



Selection: random Sampling



placebo
CONTROL GROUP
No drug administered
(Pain Killer)



TEST GROUP

Administer the new
curative (Intervention)

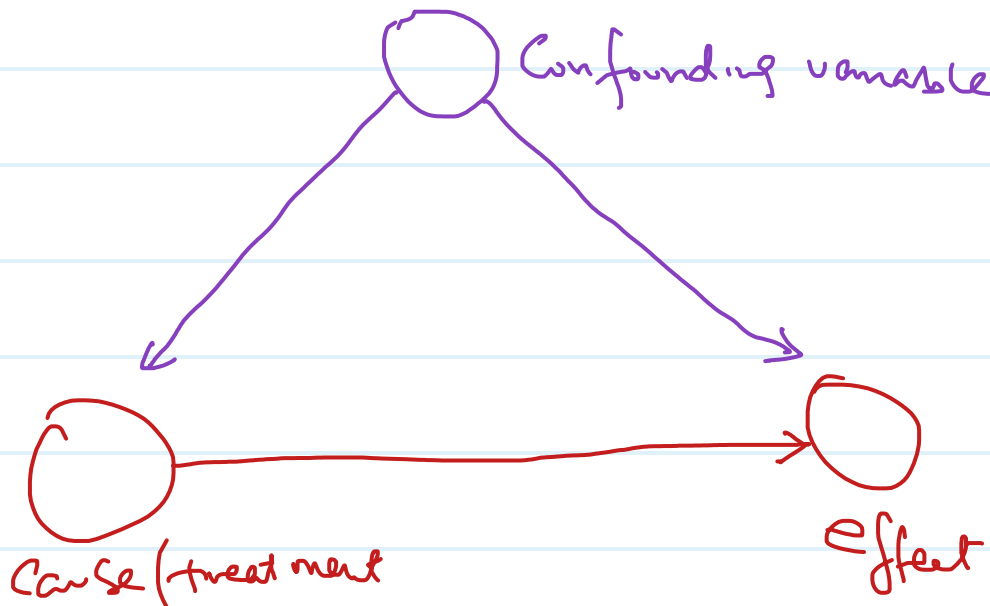
- ① Randomization
- ② Treatment (Intervention)

Some time

No change

Change is observed

↓
change is attributed
to the intervention



$$y = 2x = f(x) = 2x$$

$$2(3) = 6$$

model $\Rightarrow f(x) = 2x$

