

# Study Design

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# Intervention Trials

- Investigators responsible for allocating subjects to study groups
- Random allocation/Double-blind allocation
- Multiple outcomes
- Incidence
- Expensive & Time Consuming
- Ethical Issues
- Compliance/Contamination

# Cohort Study

- Prospective study/Selected on exposure
- Allocation not determined by investigators
- Exposure measured before disease
- Multiple outcomes
- Incidence
- Rare diseases/ long pre-clinical phase
- Expensive & Time consuming
- Information bias/Selection bias
- Changes in exposure status

# Case-Control Study

- Retrospective study
- Recruit on basis on presence or absence of disease and collect data on past exposure
- Time & Cost efficient
- Wide range of risk factors
- Suited to rare/long induction diseases
- Not suitable to measure incidence
- Selection bias/Information bias
- Selecting Controls-matching/over-matching