STUDY DESIGN.

What can studies do?

Descriptive: Describe the situation. **Analytical:** Explain the situation. **Experimental:** Apply an intervention.

Type of Study	Descriptive	Analytical No	
Case study	Yes		
Case series	Yes	No	
Cross-sectional	Yes	Yes	
Case-control	Yes	Yes	
Cohort	Yes	Yes	
Intervention trial	Yes	Yes	
Randomised control trial	Yes	Yes	



Study designs (version for printing).				
Type of Study	Descriptive	Analytical		
Case study	Yes	No		
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Study designs.

•Descriptive

-cross-sectional, longitudinal.

•Analytic

-case-control study.

-cohort study.

•Experimental

-randomised controlled trial.

Prevalence →	Cross-sectional
Cause/ ───→ Aetiology	Cross-sectional; Case-control; Cohort.
Prognosis →	Cohort.
Harm →	Case-control; Cohort.
Effectiveness —	Controlled trial.





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Objectives.

Usually a list of specific questions or statements which, if answered, will meet the aim(s).

Objectives should:

- *Meet the purpose of the study, i.e. fulfil the aim(s).
- *Be stated clearly.
- *Be measurable.
- *State the characteristics, or variables, to be measured.

Sampling.

Who are these people?

Target population Sampling frame Sampling method Study population

Non-responders

Target population.

The group we want to make observations on.

Individual, non-overlapping units.

May be individuals, practices, medical records, e.g.

*Patients with diabetes.

*Carers.

*General practices.

*Medical records.

Must be representative of the population you are interested in. Also appropriate and practical.

Sampling.

Must be representative of the target population.



Sampling frame.

List of all units in the target population, e.g. *All patients on a practice register. *All patients admitted to a ward within a defined time period. *All households within one postcode area. Ensure it is as complete and unbiased as possible. This takes *TIME*!!

Sampling method.

End result is your **study population**.

Commonly used techniques include:

*Random sampling.

*Systematic sampling.

*Cluster sampling.

*Stratified sampling.

*Snowball sampling.

Critical appraisal - what is it?

The process of assessing and interpreting evidence, by systematically considering its validity, results and relevance to your own work.