Selecting a Study Design





Topics covered

- Differences between quantitative and qualitative study designs
- Common study designs in quantitative research
- Common study designs in qualitative research
- Other philosophy-guided designs





Differences between quantitative and qualitative study designs

- Quantitative studies designs:
 - Specific
 - Rigid
 - Well structured
 - Ensure validity and reliability

- Qualitative research designs:
 - Flexible
 - Emergent
 - Non-sequential

Differences in philosophical perspectives determine the approach of enquiry



Study designs in quantitative research

Study designs can be classified by examining from three different perspectives:

- 1. The number of contacts with the study population
- 2. The reference period of the study
- 3. The nature of the investigation





Study designs based on the number of contacts

- Cross-sectional: most common and take a crosssection of the population at one point in time
- Before-and-after: also known as pre-test/posttest design which take two cross-sectional data collection points on the same population to find out changes.
- Longitudinal: the population is researched a number of times; a series of repetitive crosssectional studies collecting the same information



Study designs based on the reference period (time-frame)

- Retrospective: investigate things that happened in the past
- Prospective: investigate things that are likely to happen in the future, such as experiments
- Retrospective-prospective: focus on both past trends and study it into the future, such as before-and-after studies without a control group





Study designs based on the nature of the investigation

• Experimental: starting from the cause to establish the effect; the researcher introduces the intervention that is assumed to cause the change in a controlled or natural environment.





Experimental designs

- Random design
- The after-only design
- The before-and-after experimental design
- The control group design
- The double control group design
- The comparative design
- The 'matched control' experimental design
- The placebo design





Study designs based on the nature of the investigation - continued

- Non-experimental: Starting with the effect to research the cause; a phenomenon is known and the researcher attempts to establish what caused it.
- Quasi- or semi-experimental: This design has elements of both experimental and nonexperimental studies.





Figure 8.1 Types of study design

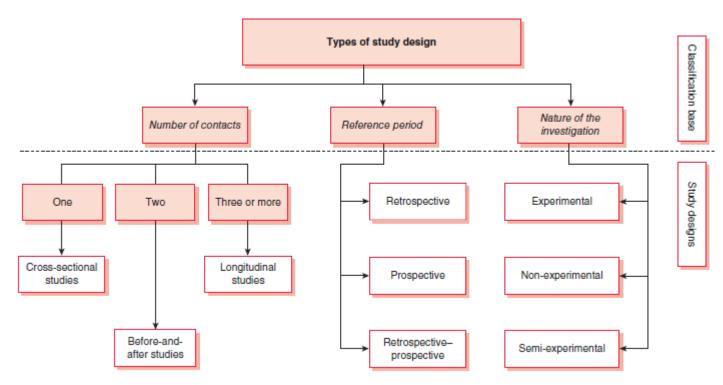


Figure 8.1 Types of study design





Other quantitative designs

- Online surveys
- The cross-over comparative experimental design
- The replicated cross-sectional design
- Trend studies
- Cohort studies
- Panel studies
- Blind studies
- Double-blind studies





Study designs in qualitative research

- Case studies: In-depth exploration of a atypical case of a particular event, group, instance, etc.
- Oral history: Obtaining, recording, presenting and interpreting information in someone's own words
- Focus groups/ group interviews: Facilitated group interviews of an open discussion of a topic

Study designs in qualitative research continued

- Participant observation: Researcher gets involved in a social interaction and observes the situation first hand
- Holistic research: More a philosophy, research from every perspective
- Community discussion forums: Large group discussion
- Reflective journal log: Diary of the researcher's thoughts





Other philosophy-guided designs

- Action Research: Research that requires action to improve practice or take action to an issue
- Feminist research: Underpinned by feminist concerns in terms social inequality between men and women
- Participatory and collaborative research enquiry:
 Based on the philosophy of community development involving community members actively in the research process

