

An Introduction to Research

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2019-07-30

Introduction

Research

Careful and detailed study into a specific problem, concern, or issue using the scientific method

Research process

- ▶ Identify the problem
- ▶ Define the problem (~~too broad~~ or ~~too narrow~~)
- ▶ A plan to answer the question
- ▶ Collect data
- ▶ Draw conclusion (potentially **RE**search)

Quantitative and qualitative research

- ▶ Quantitative: data-driven (statistical models, machine learning, deep learning, ...)
- ▶ Qualitative: social sciences (focus groups, interviews, ...)

More on research types

Quantitative research:

- ▶ Count things
- ▶ Large samples
- ▶ Know what you want
- ▶ Use statistics
- ▶ Generalize
- ▶ Be distant and **objective**

Qualitative research:

- ▶ Contextualize
- ▶ Small samples, in-depth
- ▶ Discover what you want
- ▶ Use words
- ▶ Find “meaning”
- ▶ Be involved and **subjective**

Research question

What is a research question

An answerable inquiry into a specific concern or issue.

- ▶ **Specify** your question
- ▶ Determine your goal (what do you want to know)
- ▶ Is your question answerable within your lifetime?
- ▶ Not too broad or too narrow

Are they good research questions?

- ▶ What activities of nurse managers are associated with nurse turnover?
- ▶ What predicts registered nurse retention in the US Army?
- ▶ Do the elderly diagnosed with dementia experience pain?
- ▶ Is yoga as effective as traditional physical therapy in reducing lymphedema in patients who have had head and neck cancer treatment?

Final presentation

Presentation notes

- ▶ The presentations should be no more than 15 minutes.
- ▶ Each student should have a speaking role in the presentation.
- ▶ Think about what is the most relevant or interesting information for your classmates.

Rubric 1

Presentation	Points Possible
Introduction to topic	15
Current research/journal article	25
Prevention strategies	15
Public health issue in China	20
Future steps related to research and practice	15
Question and answer	10
Total	100

Rubric 2

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Presentation	Points Possible
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Did the group appear prepared?	30
Did group members have good eye contact?	15
Did group members connect with their audience?	25
Was the presentation organized and presented in a clear manner?	30
Total	100
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