



How to write a proposal

What is the research

What is the proposal

Proposal structure

Types of Studies

Practical Exercise

Hadi Salehpour

Research



origin

Definition
and
attributes

Types of
knowledge

The word research has taken from a
French word: Sercher

That means: investigation, probe, search ...



Research



origin

Definition
and
attributes

Types of
knowledge

Research:

Any attempt to:

- 1. collect and**
- 2. analyze data that leads**
- 3. science to develop new science**



Research Features:

- 1. Orderly and planned///**
- 2. Pursue a specific purpose**
- 3. Check new issues**
- 4. Have the ability to generalize and repeatable**

Research



origin

Definition
and
attributes

Types of
knowledge

Types of knowledge:

1. Production of hypothesis
2. Hypothesis test



Research



origin

Definition
and
attributes

Types of
knowledge



How to write a proposal

What is the research

What is the proposal

Proposal structure

Types of Studies

Practical Exercise

Hadi Salehpour

What is the proposal

Why should we write proposal?

Example

Proposal
meaning

Road map

Sth in future

Propose: offer, suggest...



وزارتخانه علوم پزشکی
خدمات بهداشتی درمانی تبریز

معاونت تحقیقات و فناوری*

" طرح پیشنهادی تحقیق "



What is the proposal

Why should we write proposal?

Example

Proposal
meaning

Road map

Sth in future



What is the proposal

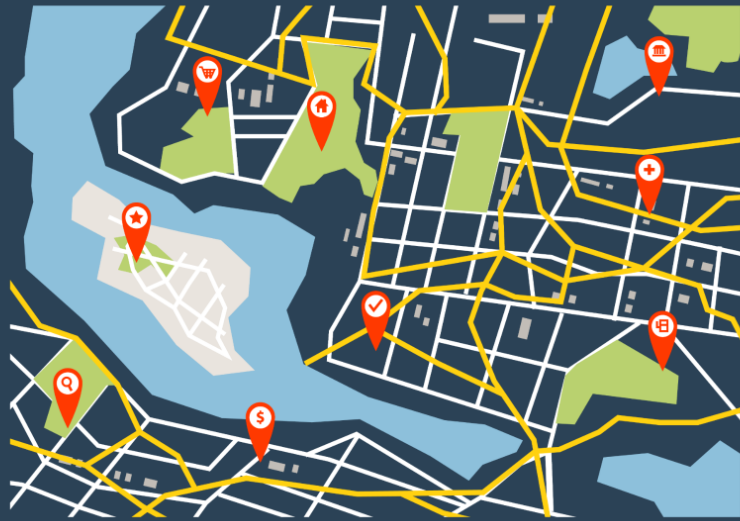
Why should we write proposal?

Example

Proposal
meaning

Road map

Sth in future



What is the proposal

Why should we write proposal?

Example

Proposal
meaning

Road map

Sth in future



How to write a proposal

What is the research

What is the proposal

Proposal structure

Types of Studies

Practical Exercise

Hadi Salehpour



Title: Is like the title of a book or a shop

1. Should be new: How?? 3 modes
2. Not incomplete and represent the entire plan:
The effect of warfarin on stroke prevention in patients
3. Answer some questions (How many??)
4. In RCTs : The effect of heparin on preventing myocardial infarction in patients with hypertension
5. Practicable
6. No abbreviation: CHD
7. Without predictions : Investigation of Cephalosporins' lack of effect on antibiotic resistance of staphylococci
8. FINER & The number of words
9. University research priorities (P)



Topic vs Title

Examples

1. Investigating the prevalence of psychological disorders in patients before surgery

2. The Impact of hydrocolloid bandage on Wound Treatment

3. Investigating Physicians' Disregard for the Medical Profession

4. Examine the amount of anxiety in students

5. Study the Serum levels of Platelet-Derived Growth Factor, Matrix Metallo Proteinase-2 and MDA with Severity in Coronary Artery Disease



Title: Is like the title of a book or a shop

1. Should be new: How?? 3 modes
2. Not incomplete and represent the entire plan:
The effect of warfarin on stroke prevention in patients
3. Answer some questions (How many??)
4. In RCTs : The effect of heparin on preventing myocardial infarction in patients with hypertension
5. Practicable
6. No abbreviation: CHD
7. Without predictions : Investigation of Cephalosporins' lack of effect on antibiotic resistance of staphylococci
8. FINER & The number of words
9. University research priorities (P)



Topic vs Title

Examples



Introduction: employee, leprosy vs Alzheimer convince

0. Break

1. Careful definition

2. Necessity and importance: GBD, WHO ...

3. Showing the study gap, puzzle

4. Why my project?

5. Like a story

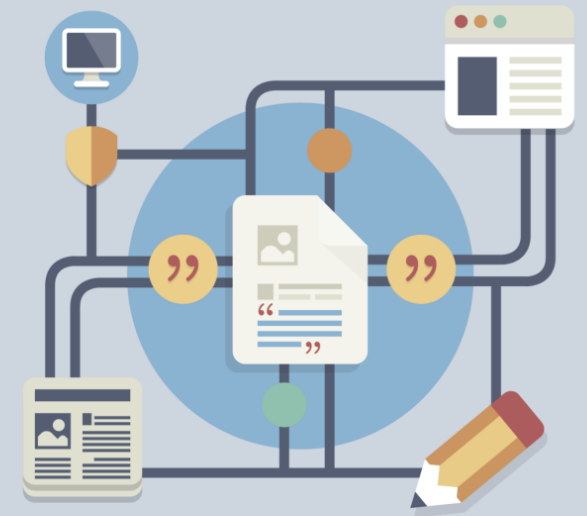
6. Current situation,, The desired situation,, A solution

7. Reference From previous studies : 3

8. Assuming that the proposal reader does not have any specific information from our subject.

Example: Investigating the Effect of Valsartan on blood pressure in patients with ventricular failure

Practical example



Examples

1. The prevalence of respiratory infections in hospitalized patients in ICU ward Imam Reza Tabriz Hospital

2. Relationship between pattern of anger expression in depressed persons and serum level of Immunoglobulin A and natural killer cells percent

3. Effect of maternal injection of prophylactic intravenous ephedrine on fetal heart rate in urgent cesarean delivery because of fetal bradycardia

4. Study the Serum levels of Platelet-Derived Growth Factor, Matrix Metallo Proteinase-2 and Malondialdehyde with Severity in Coronary Artery Disease



Introduction: employee, leprosy vs Alzheimer convince

0. Break

1. Careful definition

2. Necessity and importance: GBD, WHO ...

3. Showing the study gap, puzzle

4. Why my project?

5. Like a story

6. Current situation,, The desired situation,, A solution

7. Reference From previous studies : 3

8. Assuming that the proposal reader does not have any specific information from our subject.

Example: Investigating the Effect of Valsartan on blood pressure in patients with ventricular failure

Practical example



Examples



In relation to the title but more practical and in the form of sentence:

1. General objective vs title: The effect of Captopril on preventing myocardial infarction in patients with hypertension

2. Dedicated objectives:

- Why?
- A part of the general objective
- Step by step & Breaking = puzzle
- type of study
- Is it always necessary?

Example: Captopril vs Valsartan

Investigating the Relationship between Fetal Cord and Apgar score at Birth

3. functional objective



Examples

1. Investigating the relationship between oral cancer and tobacco use

*****Related to study design**

2. Relationship between pattern of anger expression in depressed persons and serum level of IgA and natural killer cells percent (?/)

3. Study the Serum levels of Platelet-Derived Growth Factor, Matrix Metallo Proteinase-2 and Malondialdehyde with Severity in Coronary Artery Disease



In relation to the title but more practical and in the form of sentence:

1. General objective vs title: The effect of Captopril on preventing myocardial infarction in patients with hypertension

2. Dedicated objectives:

- Why?
- A part of the general objective
- Step by step & Breaking = puzzle
- type of study
- Is it always necessary?

Example: Captopril vs Valsartan

Investigating the Relationship between Fetal Cord and Apgar score at Birth

3. functional objective



Examples



- Target population vs study population vs sample size
- Sampling
- Sampling methods: Random & Non-random
- Data collection tool: interview, questionnaire, Medical records, Laboratory environment (experimental), Searching in databases
- Inclusion ,Exclusion Criteria
- Data analysis





Hypothesis are the same as dedicated objectives

Hypothesis or Questions: 0 or 100

Types of hypotheses:

- 1. H_0 , H_1 : The effect of vasodilators on blood pressure**
- 2. Directional (1tailed) and Non -directed (2tailed) hypothesis : Heparin vs Warfarin**





Keywords: Break, Reference

تعریف علمی متغیر (در صورت نیاز)	روش کنترل / ارزیابی	نوع متغیر			نوع مقیاس				متغیرها
		محدوثگر	وابسته	مستقل	کیفی		کمی		
					رتبه ای	اسمی	نسبتی	فاصله ای	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Ethics:

- 1.No bias
- 2.Informed consent and Complete explanation of the study to participants,, special people
- 3.Autonomy
- 4.Secretcy
- 5.Ethics code







How to write a proposal

What is the research

What is the proposal

Proposal structure

Types of Studies

Practical Exercise

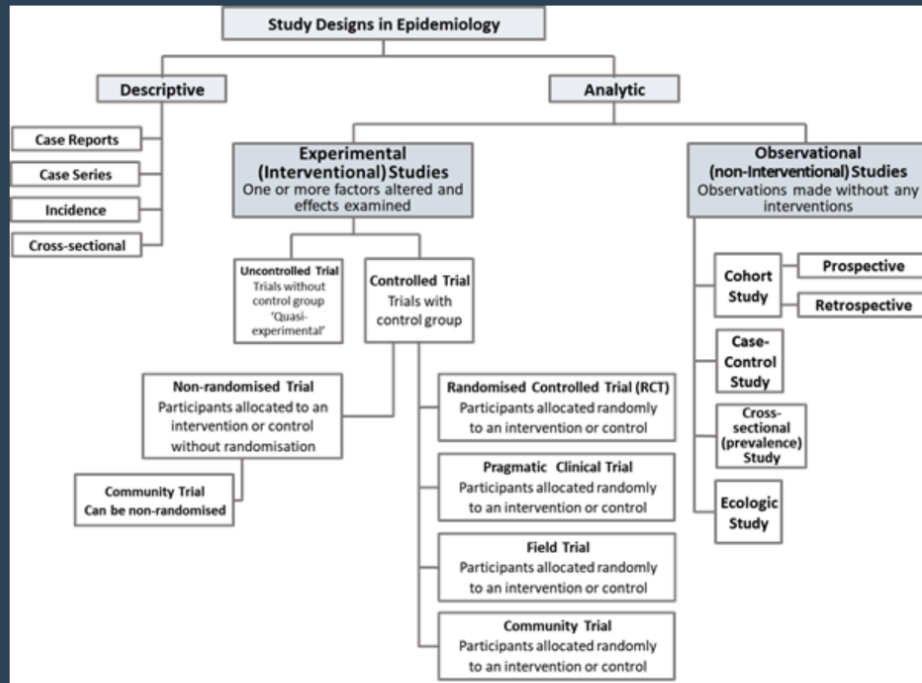
Hadi Salehpour

1. Basic & Applied

2. Primary & Secondary

**Primary
studies**





1. Basic & Applied

2. Primary & Secondary

**Primary
studies**





How to write a proposal

What is the research

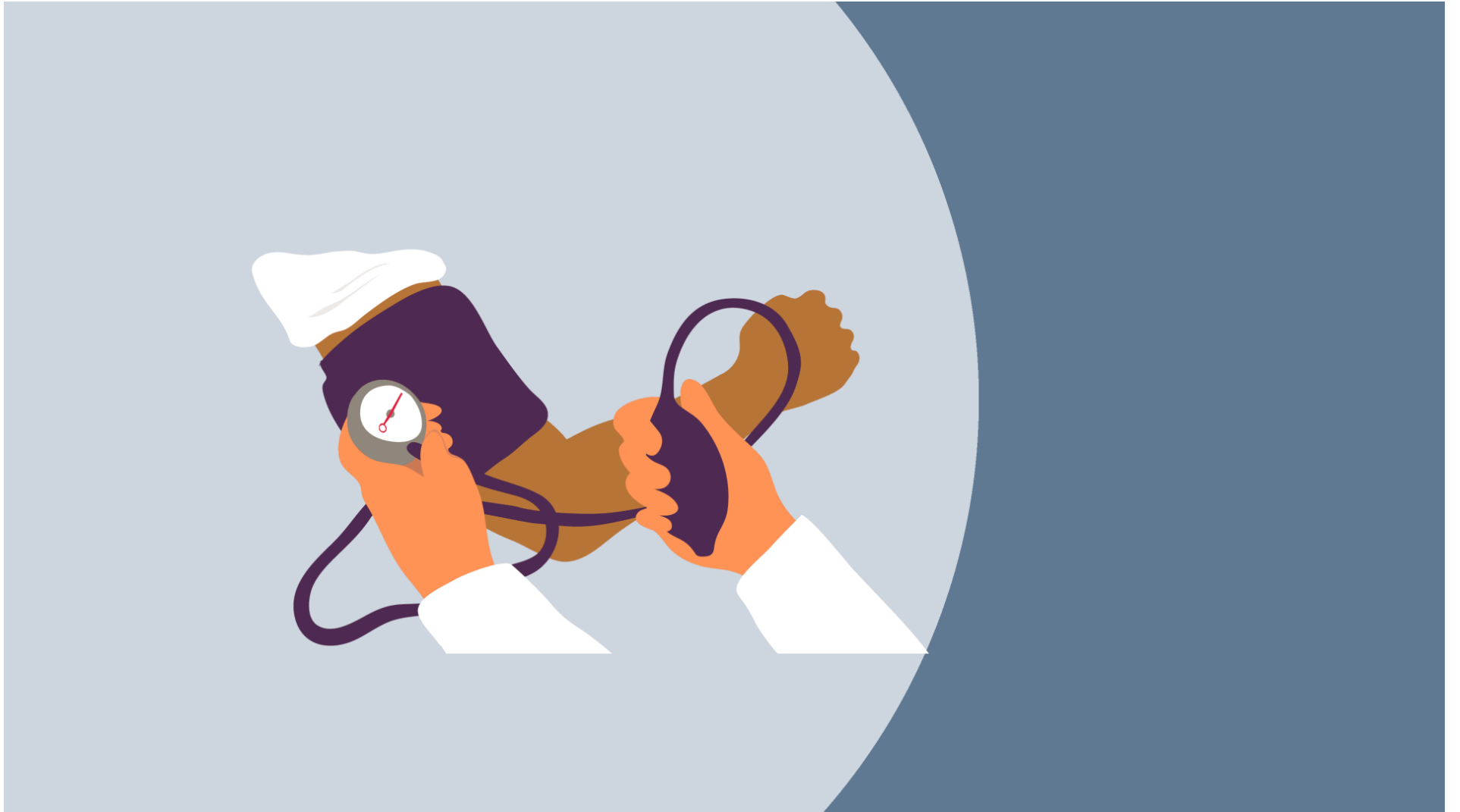
What is the proposal

Proposal structure

Types of Studies

Practical Exercise

Hadi Salehpour





How to write a proposal

What is the research

What is the proposal

Proposal structure

Types of Studies

Practical Exercise

Hadi Salehpour