

# Research Problem: Nurse Practitioners' Impact on Rural Adolescent Pill Abuse

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# INTRODUCTION

# STATEMENT OF PROBLEM



Prescription Medication Misuse



Adolescent  
population

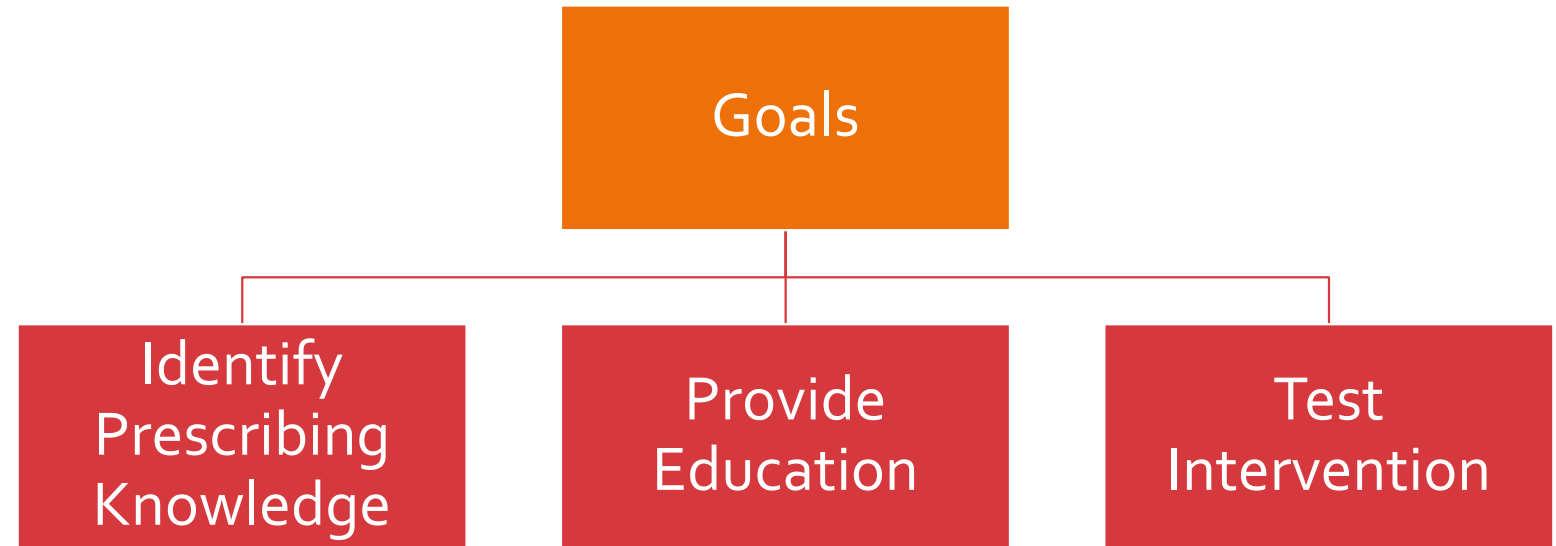


Rural  
America



Proper  
Disposal

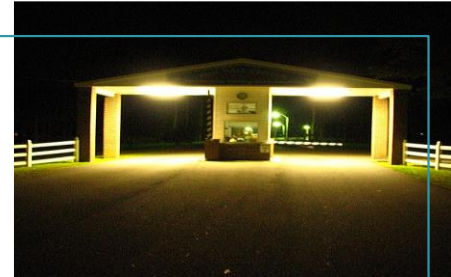
# STATEMENT OF PURPOSE



# SIGNIFICANCE OF STUDY



Primary Care  
Providers



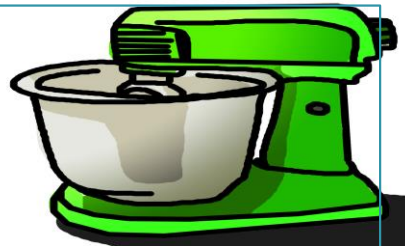
Gateway



Consequences



Availability



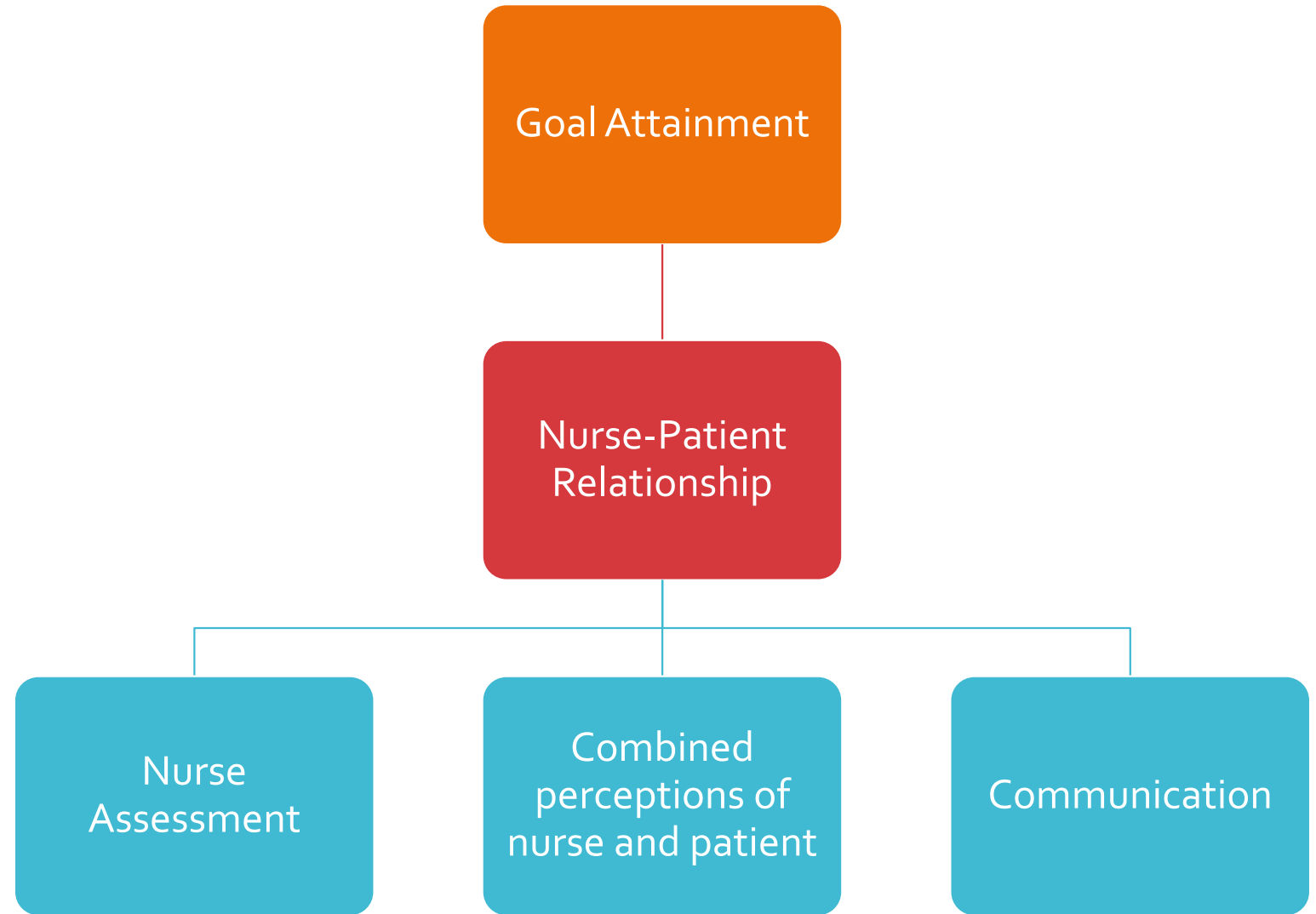
Mixing drugs



Comorbidities

# THEORETICAL FRAMEWORK

Imogene King's Middle Range  
Theory of Goal Attainment



# RESEARCH QUESTIONS

Demographic characteristics

Knowledge of growing epidemic

Competency level of proper medication storage and pill disposal techniques

Frequency of preceptors educating patients

Retention level following the educational intervention

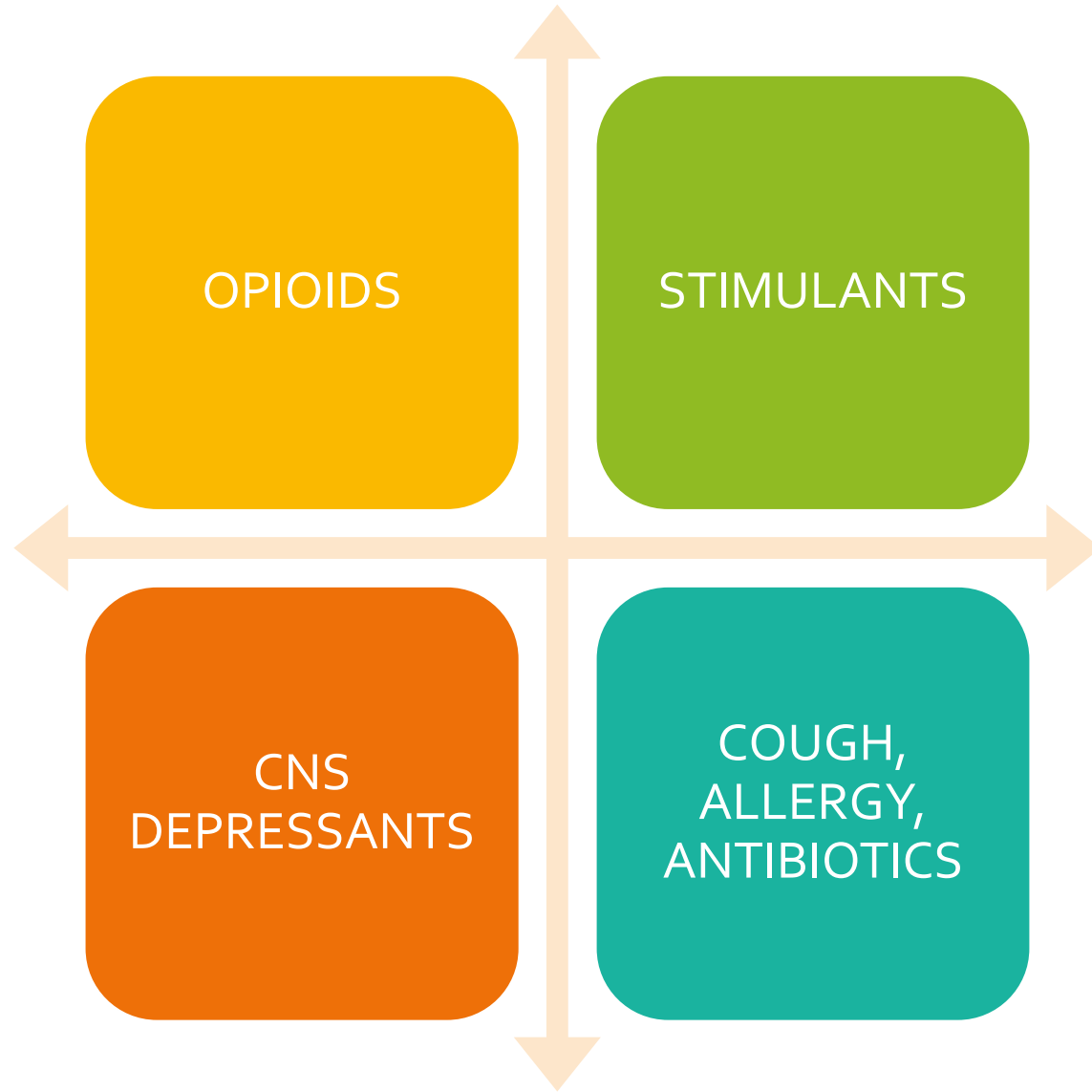
Impact on their future practice



# REVIEW OF LITERATURE



# TYPES OF MEDICATION



# PREVALENCE

EPIDEMIC

Teen prescription drug abuse > illicit drug abuse

10-25% of high school population

2<sup>nd</sup> to alcohol and marijuana

Highest rate 12-24 year olds

Female > male

Socially acceptable

FACTORS  
ASSOCIATED  
WITH RISE



A diagram showing five factors associated with a rise. On the left is a large blue rectangle. To its right, five colored horizontal bars are stacked vertically, each preceded by a white circle. The circles are connected by a thin yellow line that starts from the blue rectangle and extends to the first circle, then continues between the subsequent circles. The factors are: PERCEIVED SAFETY (yellow bar), AVAILABILITY (green bar), MEDIA ADVERTISEMENT (orange bar), SOCIAL ACCEPTABILITY (teal bar), and MOTIVATING FACTORS DIFFER (red bar).

PERCEIVED SAFETY

AVAILABILITY

MEDIA ADVERTISEMENT

SOCIAL ACCEPTABILITY

MOTIVATING FACTORS DIFFER

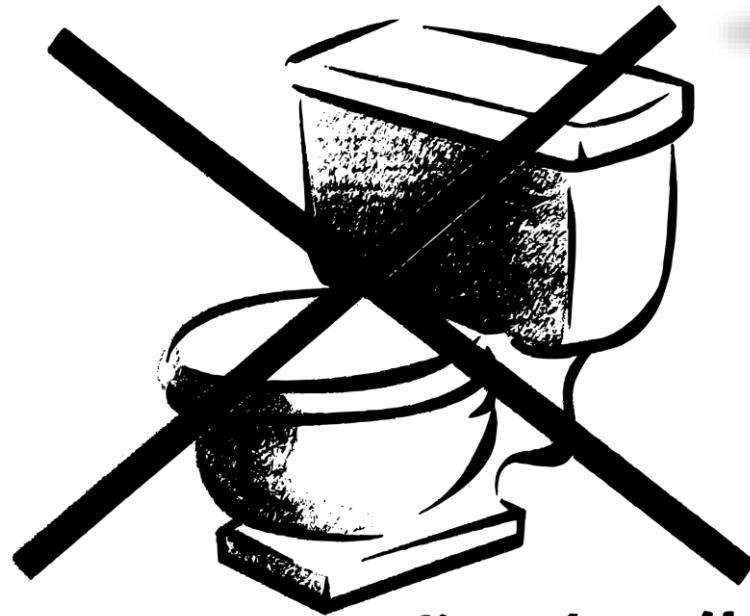
Prevention

School-Based

Community-Based

Primary Care

# DISPOSAL





# METHODOLOGY

## DESIGN

Quasi - Experimental

Pre-test/Post-test

Quantitative

Qualitative

SAMPLE

PSU Nurse Practitioner Class

Voluntary Involvement

IRB approval exempt

15 participants



# PROCEDURE



Informed consent

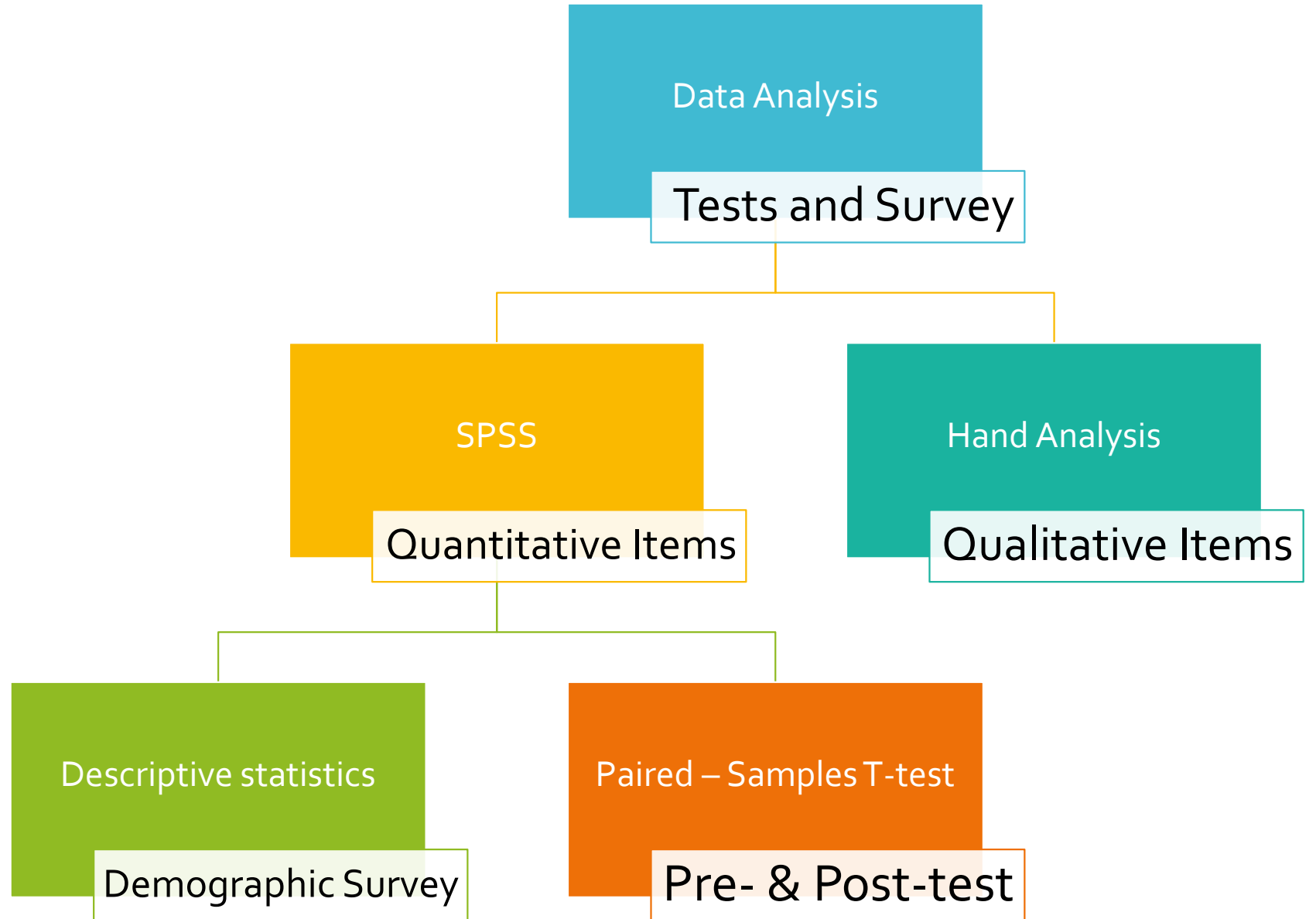
Time for questions

Pre-test

Education presented

Post-test

# DATA ANALYSIS



# ASSUMPTIONS

Population  
representation

Truthful  
answers

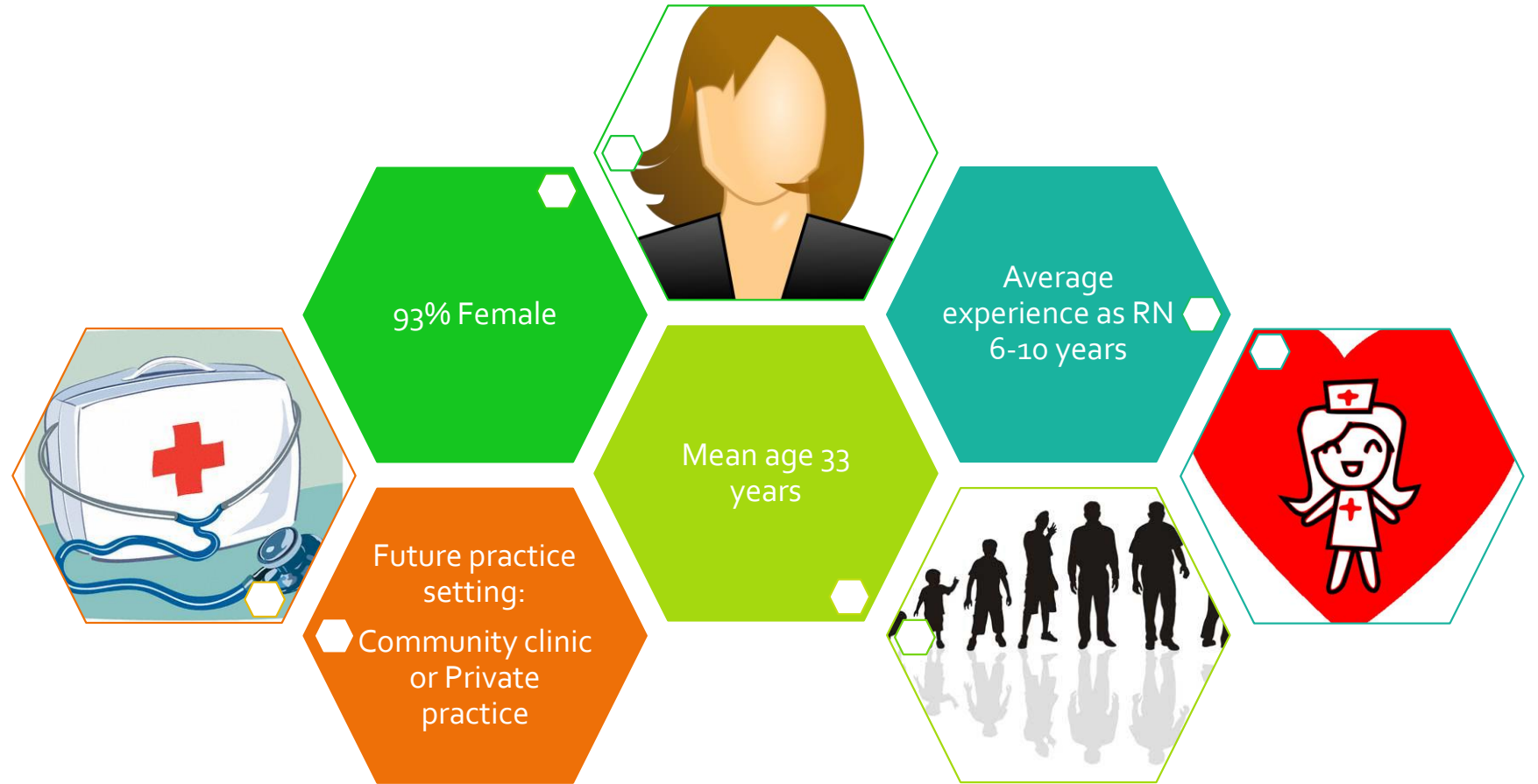
Belief in  
confidentiality  
procedures

Willingness to  
participate



# Results and Discussion

# Demographics



# Knowledge Related to Intervention

	Mean	Std. Deviation		
Pretest Score	60.833	13.2512		
Posttest Score	77.500	10.7736		
Paired Differences				
	Mean	Std. Deviation	t	Sig. (2-tailed)
Pretest Posttest	-16.6667	13.9087	-4.641	.000

# Participants' Beliefs

## Thoughts

- Awareness of the problem
- Prescriber responsibility

## Root Cause

- Accessibility
- Patient education

## Importance to NP role

- Prescriber
- Educator

## Utilization in Future Practice

### Intervention Effect

- Education
- Awareness
- Prescribing practices

### New awareness

- Prevalence
- Types of medications



# Utilization in Future Practice

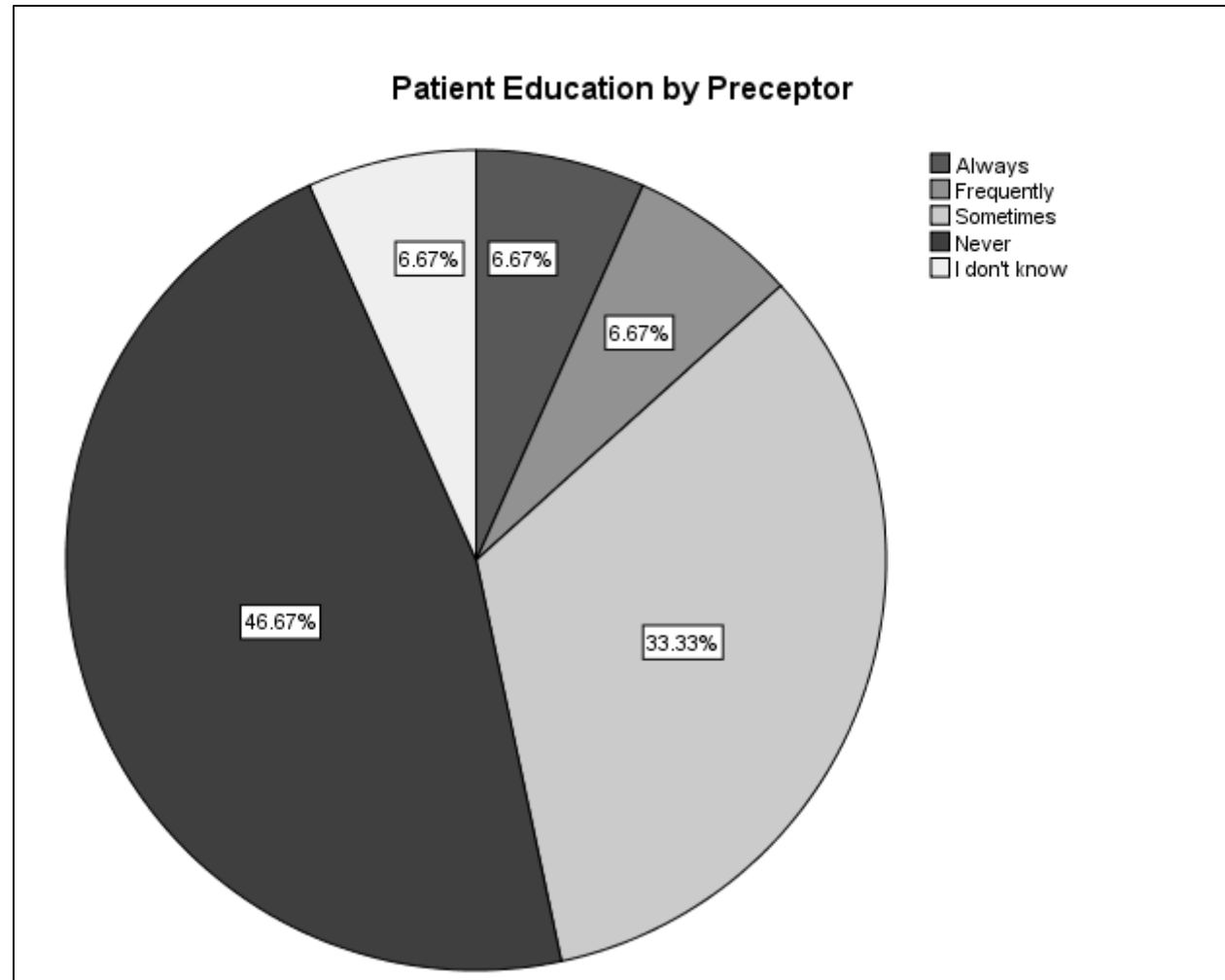
Likelihood to affect future practice

	n	Mean Rank	Sum of Ranks
Negative Ranks	3 <sup>a</sup>	2.00	6.00
Positive Ranks	0 <sup>b</sup>	.00	.00
Ties	12 <sup>c</sup>		
Total	15		

- Posttest < Pretest
  - Posttest > Pretest
  - Posttest = Pretest
- Z= -1.732    p= .083

# Preceptor Example

Patient Education



# Implications



# Moving Forward

## Limitations

- Sample size
- Generalizability

## Future Research

- Multiple locations
- Larger sample

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