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# NAP- DNP Project Presentation

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TOPIC

**Changing the Perception of Epidural  
Labor Analgesia in Nigerian  
Immigrant Women Living in the  
United States**

Translating Evidence into Practice



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# Introduction

- International migration and obstetric care
  - ❑ Obstetric care challenge
  - ❑ Sub-standard care
- Role of anesthesia Providers
  - ❑ Understand expectations
  - ❑ Understand concerns



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# Purpose & Objectives

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- Provide education on epidural labor analgesia
- DNP project as a blueprint
  - ❑ For improving health care experiences
- Community based healthcare
  - ❑ Mobilization, culture, language, advocacy, sense of belonging, trust, empowerment, culture competence



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## Background & Significance

- African / Nigerian migration to the U.S
  - ❑ 5% of U.S population
- Epidural labor analgesia & Nigerian immigrant women
  - ❑ Skeptical
- Author's personal experience



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# 1865 Problem/Population, Intervention, Comparison, Outcome (PICO)

- In Nigerian immigrant women of child-bearing age living in the United States, does educational intervention on the use of epidural analgesia during labor increase the willingness of the women to accept it during labor ?



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# Evidence synthesis

- Effect of maternal country of birth and epidural use
  - ❑ Reduced odds for women of sub-Saharan descent
- Nigerian parturient & epidural labor analgesia
  - ❑ Grounded in culture, ethics, religion, acceptance of pain, lack of knowledge, cost, discouragement, fear, language barrier, stigma, lack of culturally competent providers, biased providers, lack of trust



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## Evidence Synthesis Contd...

- Best practices in labor analgesia
  - ❑ Neuraxial analgesia considered gold standard
- Shared decision making (SDM)
  - ❑ Partners preference and epidural use
- Best implementation strategies
  - ❑ Preferred spoken language and neuraxial analgesia utilization



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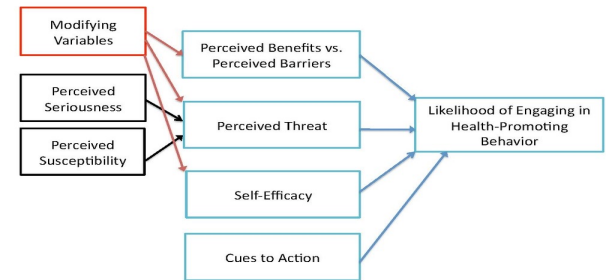
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# Theoretical Framework

The Health Belief Model



- Health Belief Model (HBM)
  - ❑ Discernment of threat and value associated with actions to reduce threat (Polit & Beck, 2020)
- Concepts of HBM
  - ❑ Perceived susceptibility, severity, benefits, cost, individual's motivation
- Relationship of theory to DNP project
  - ❑ Original video



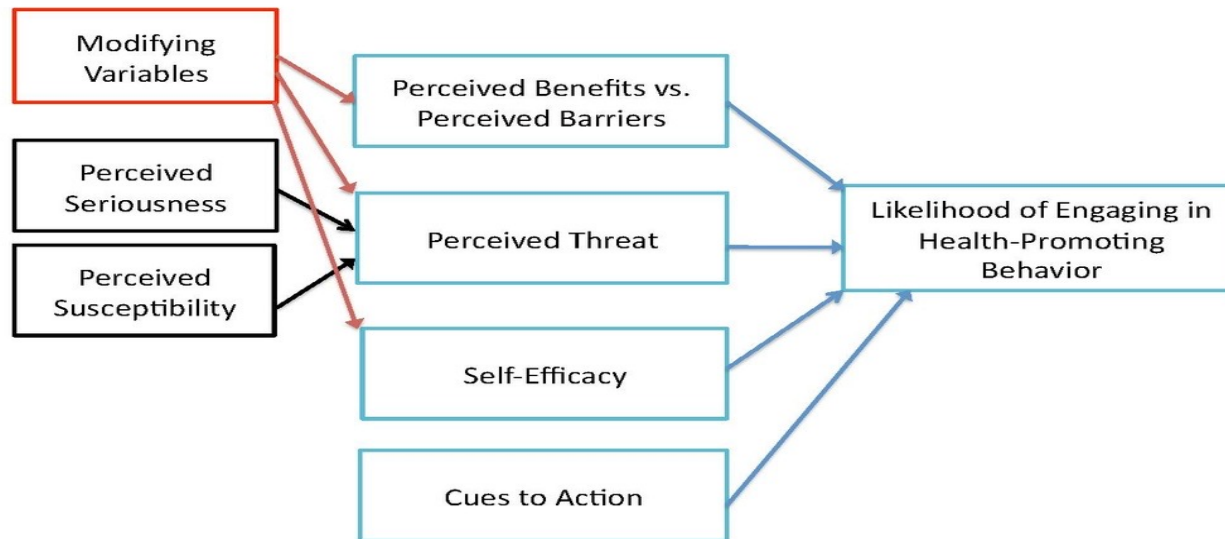
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# Health Belief Model (HBM)

## The Health Belief Model



# Project Design

## Self Administered Questionnaire

### THE USE OF EPIDURAL PAIN RELIEF DURING CHILDBIRTH QUESTIONNAIRE

#### SECTION 1: DEMOGRAPHICS

NIGERIAN HERITAGE	Yes	NO
CHILDBEARING AGE		

#### SECTION 2: SCORE BEFORE WATCHING VIDEO

BEFORE WATCHING THE VIDEO, HOW LIKELY WOULD YOU REQUEST EPIDURAL PAIN RELIEF DURING CHILDBIRTH?	<b>VERY LIKELY</b>	<b>LIKELY</b>	<b>NEUTRAL</b>	<b>UNLIKELY</b>	<b>VERY UNLIKELY</b>



#### SECTION 3: SCORE AFTER WATCHING VIDEO

AFTER WATCHING THE VIDEO, HOW LIKELY WOULD YOU REQUEST EPIDURAL PAIN RELIEF DURING CHILDBIRTH?	<b>VERY LIKELY</b>	<b>LIKELY</b>	<b>NEUTRAL</b>	<b>UNLIKELY</b>	<b>VERY UNLIKELY</b>

#### SECTION 4: EFFECT FROM WATCHING VIDEO

WHAT EFFECT DOES WATCHING THE VIDEO HAVE ON YOUR DECISION AFTER?	<b>POSITIVE</b>	<b>NEUTRAL</b>	<b>NEGATIVE</b>





# Epidural Preparation



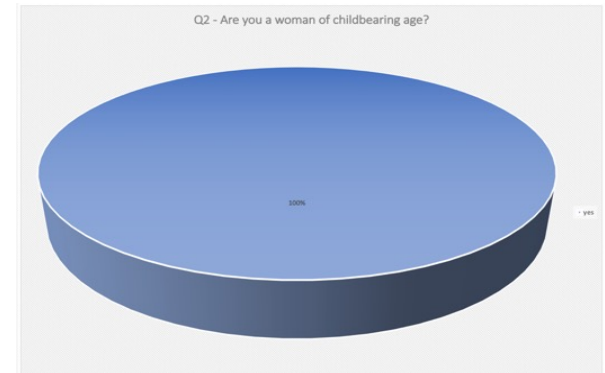
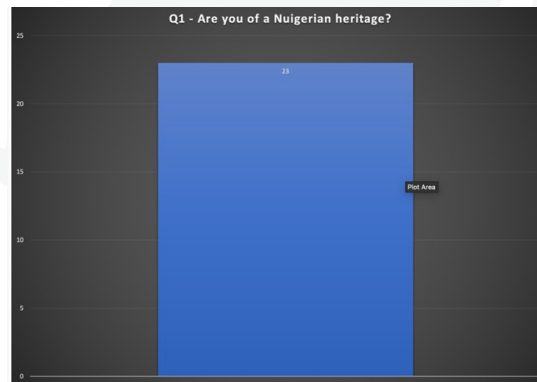


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# Data Analysis and Results

Demographics (23 participants)

...of a Nigerian heritage. ...of a childbearing age



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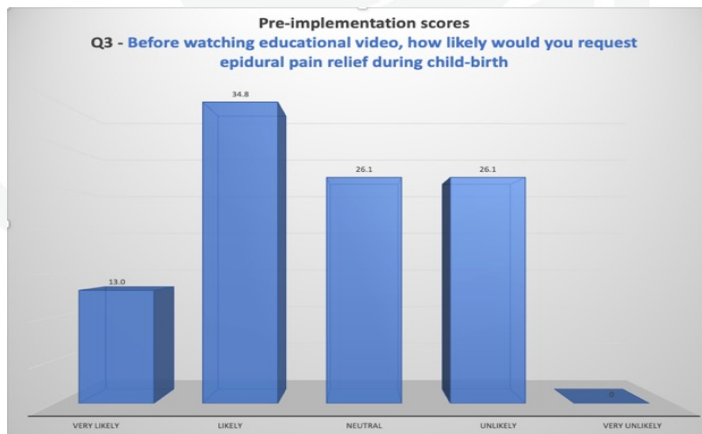
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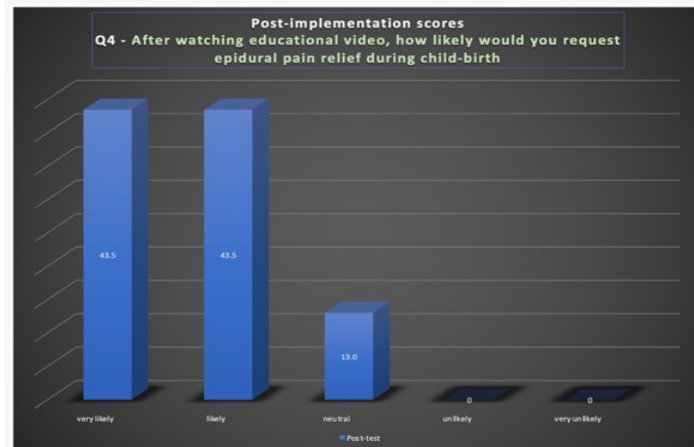
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# Implementation scores

Pre



Post



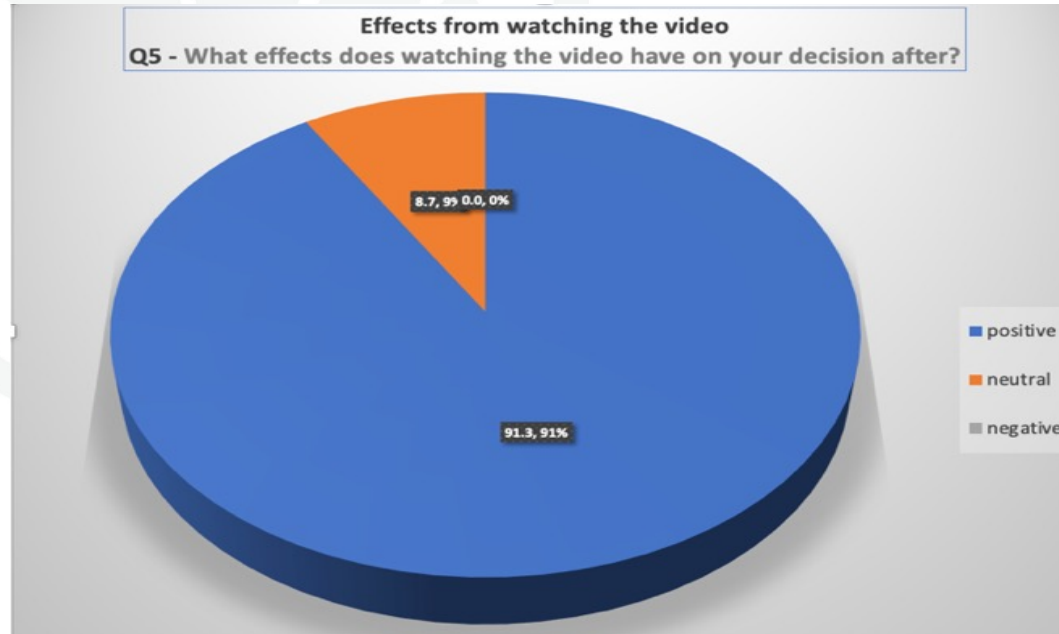
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# Post Education Effects After Watching DNP Video



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# Strengths of the Project

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- ✓ Pilot project
- ✓ Original video
- ✓ Identification with the presenter
- ✓ Hands-on / Community-based



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# Limitations of the Project

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- ✓ Only peer reviewed articles
- ✓ Shared decision making not included
- ✓ Non-blinded
- ✓ Single location and time constraint
- ✓ Lack of previous research



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# Dissemination Plans

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- i. Eastern Nursing Research Society (ENRS)
- ii. Active QR code
- iii. Poster at Cedar Crest College
- iv. Flyers

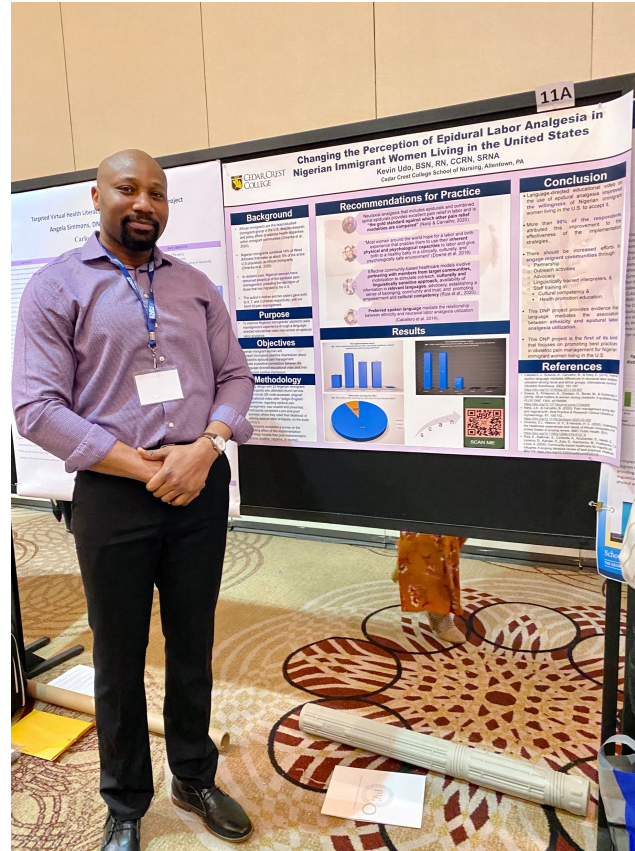


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# Eastern Nursing Research Society (ENRS) 35<sup>th</sup> Annual Scientific Sessions, Philadelphia, PA, March 2023



# Project Design Video

➤ Video

<https://www.youtube.com/watch?v=iSEh4LTdcBY&t=2s>



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# Acknowledgments

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- DNP Chair: Nancy Crane-Roberts, PhD, CRNP, CNE, RN
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**THANK YOU**

Questions ?



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