

# The Impact of Modern Technology in the Practice of Professional Nursing

*Student Name*  
*NR 660: Capstone*



# Identifying the Concern

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➤ *How is technology affecting healthcare today:*

➤ Affordable Care Act of 2010

➤ Change from Fee-for-service towards value-based care

**MODERN TECHNOLOGY**

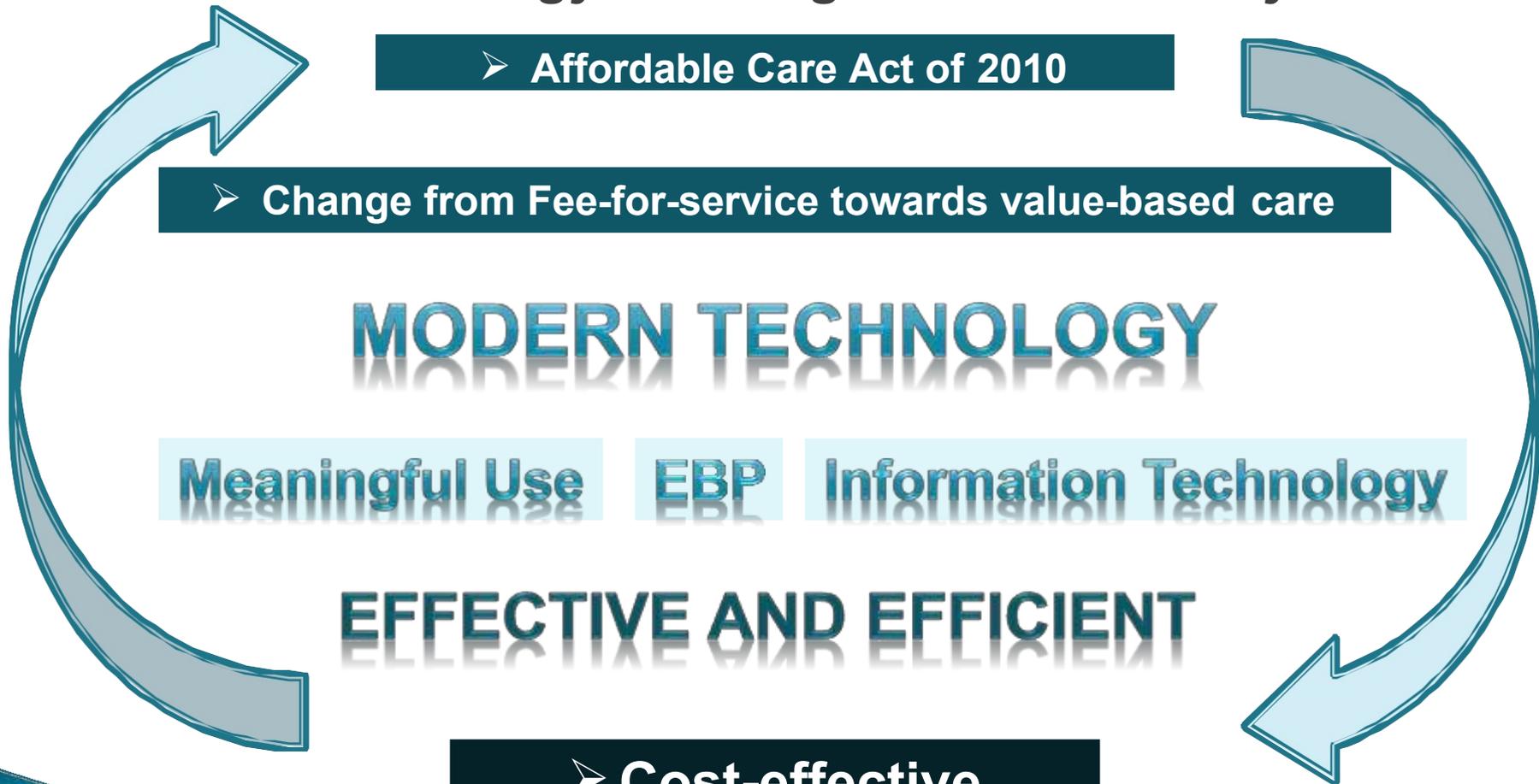
Meaningful Use

EBP

Information Technology

**EFFECTIVE AND EFFICIENT**

➤ Cost-effective



# Identifying the Problem

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➤ *Examples of technical advances in healthcare:*

**Electronic Health Records (EHR)**

**mHealth (mobile health)**

**Genetics and modern tests**



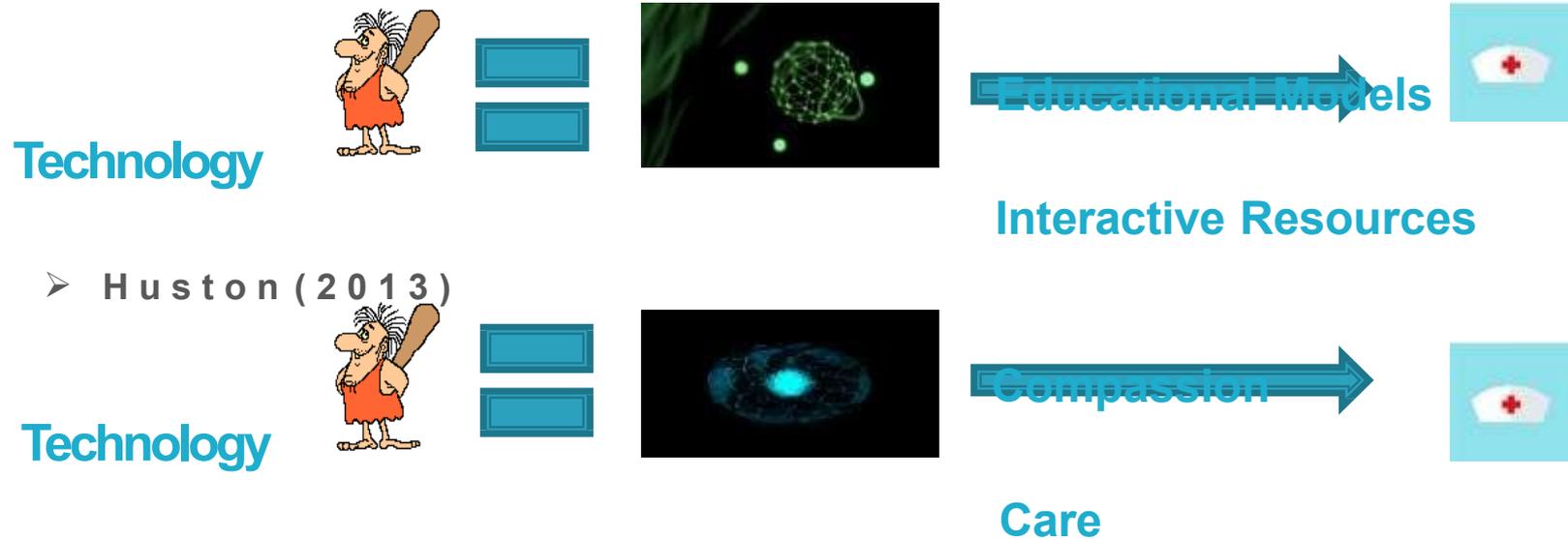
**MASTERY**

# Summary of Relevant Literature

How are nurses (P) equipped to handle (C) modern technology (I)?

# PICO

How has technology (I) impacted the practice (C) of nurses (P)?



➤ Huston (2013)

Technology

Educational Models

Interactive Resources

Compassion

Care

➤ Cipriano & Hamer (2013)

# Summary of Relevant Literature (cont.)



Technology



## SAFE AND QUALITY CARE

Healthcare Delivery (Organizations)

Patient Care Delivery (Nurses)

- Zimmerman (2013)

Healthcare Delivery

EBP

Coordinators/ Providers

Nursing And Technology

Structured/ Complex

Effective, efficient, and safe

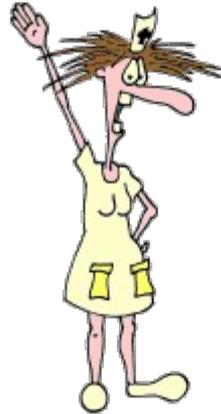
- Stevens (2013)

# Project Details

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## CT/ MRI Enterography + Glucagon

### Concerns <sup>N</sup>



How to prep the patient

Where to get the glucagon

How is the glucagon given

Precautionary measures

### Objectives

Guidelines / streamline

### Target Recipients

Nurses, Physicians, Radiology and Pharmacy staff

### Implementation

Nursing Guidelines, nurse educators, intranet

# Summary of Project: Resolution of the Problem/Concern

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## The CT/MRI Enterography Nursing Guidelines Practicum Project

➤ Cohesiveness      ➤ Safety      ➤ Quality

## Evidence-Based Practice

Improvement



Transformation

(Effective, efficient and safe delivery of care)

Concern

Commitment

Involve

Engage

Sustain

# Summary of Project: Resolution of the Problem/Concern (continued)

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## Force Field Analysis of the CTE Nursing Guidelines

### Forces for Change

- Need to improve efficiency and effectiveness
- Need to improve communication between departments and healthcare professionals
- Need to comply with safety standards

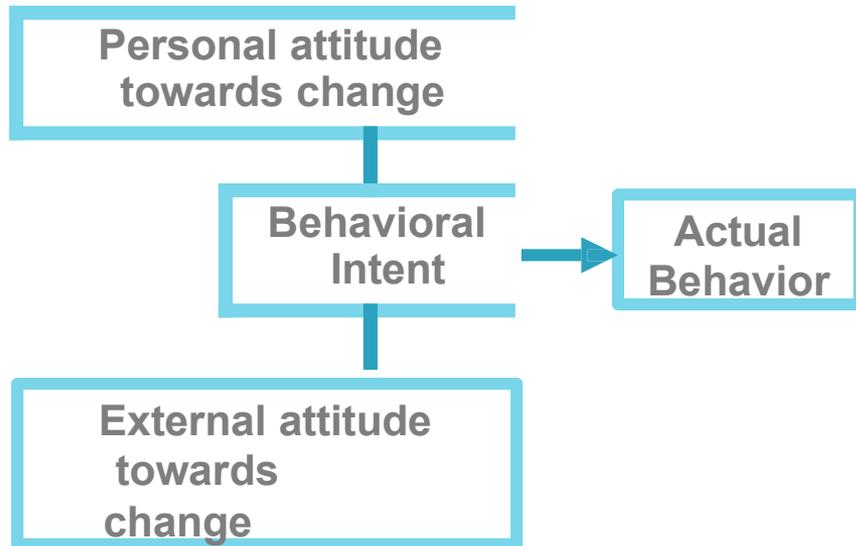
### Forces Against Change

- Disruption of the norm
- Cost of extra meeting hours
- Nursing staff reluctance
- Not enough nursing representation

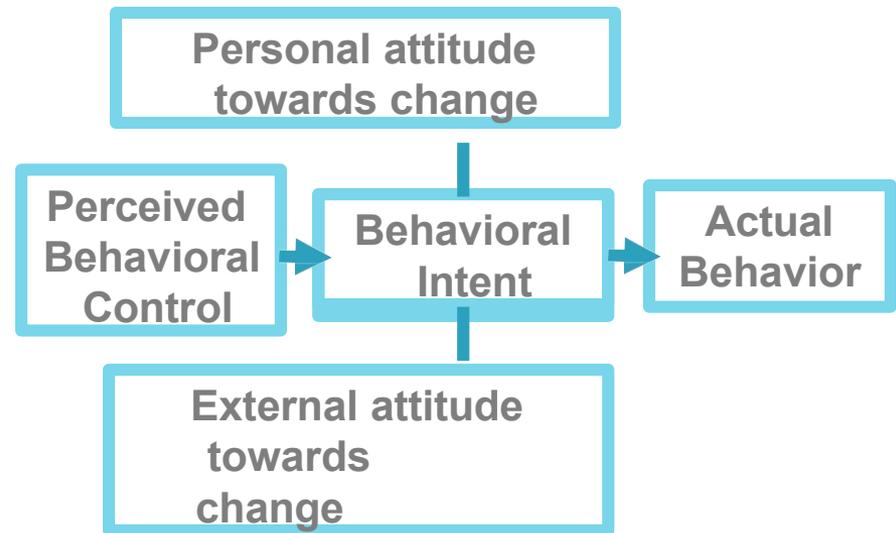
**Force Field Analysis**

# Summary of Project: Resolution of the Problem/Concern (continued)

## Theory on Reasoned Action



## Theory on Planned Behavior



## Hindrances and Limitations



# Summary of Project: Resolution of the Problem/Concern continued

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## Outcome and Implementation

### Evaluation

- **Improvement** in the accuracy of the procedure
- **Improvement** in the nursing staff confidence
- **Maintain** patient safety and quality care

# Next Steps



**EBP**



Supporting front  
line nurses Dupli-  
cated in practice

**REFLECTIONS**

**CHANGE**



Purpose  
+ Collabora-  
tion

**MODERN TECHNOLOGY**



**NURSING CURRICULUM**

**SKILLS**



**INFORMATION**

# References

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... *beyond ebp*



Illustration by **Simon Fetscher**