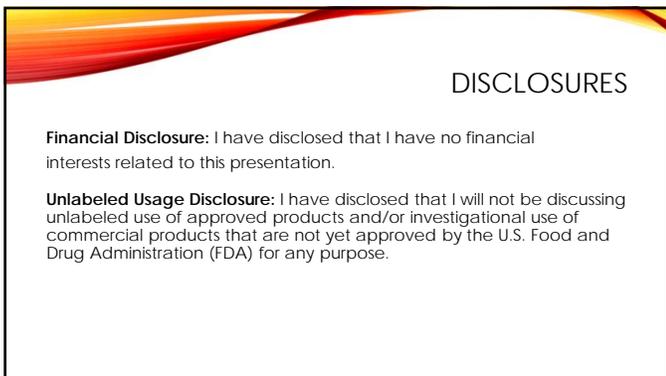# THE FUTURE OF NURSING INFORMATICS
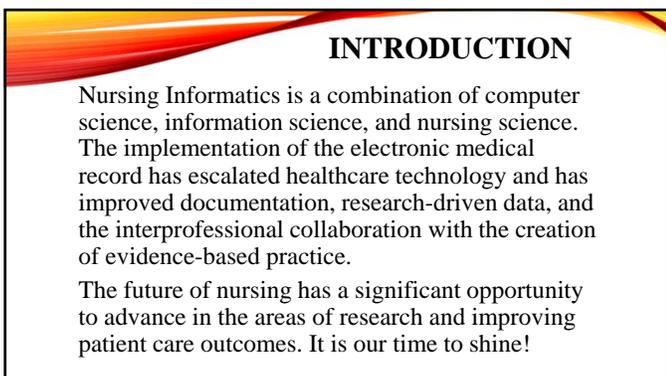
**Dana Basara DNP, RN**

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## DISCLOSURES

**Financial Disclosure:** I have disclosed that I have no financial interests related to this presentation.

**Unlabeled Usage Disclosure:** I have disclosed that I will not be discussing unlabeled use of approved products and/or investigational use of commercial products that are not yet approved by the U.S. Food and Drug Administration (FDA) for any purpose.

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## INTRODUCTION

Nursing Informatics is a combination of computer science, information science, and nursing science. The implementation of the electronic medical record has escalated healthcare technology and has improved documentation, research-driven data, and the interprofessional collaboration with the creation of evidence-based practice.

The future of nursing has a significant opportunity to advance in the areas of research and improving patient care outcomes. It is our time to shine!

## EDUCATIONAL OBJECTIVES:

1. What is Nursing Informatics?

2. Discuss Translation science, and why it is important to evidence-based practice.

3. Describe the futuristic impact of Nursing.

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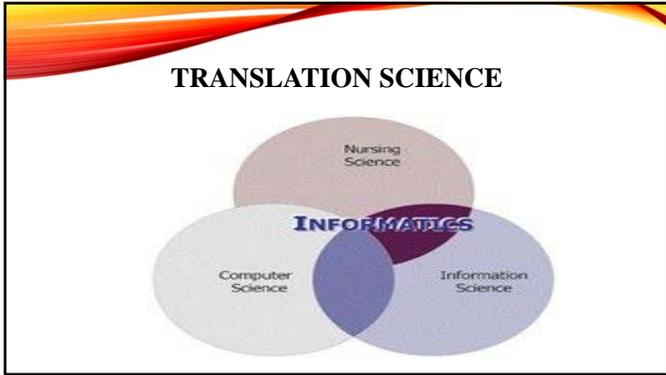Florence Nightingale was a pioneer of evidence-based practice.
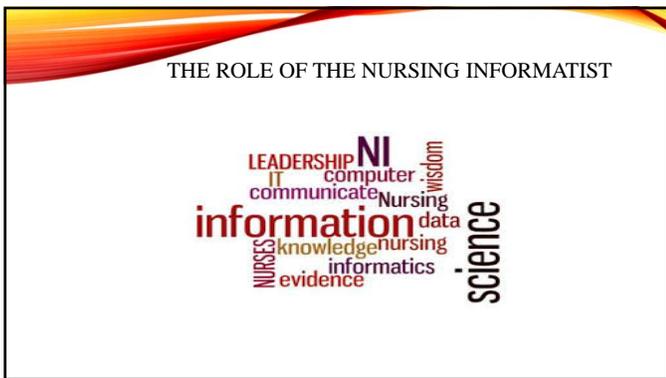
### FLORENCE NIGHTENGALE



- Florence Nightingale was a pioneer in the 1800's establishing evidence-based practice.

- https://publicdomainreview.org/collections/the-voice-of-florence-nightingale/

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## WE HAVE COME A LONG WAY!

## TRANSLATION SCIENCE



THE ROLE OF THE NURSING INFORMATIST



**HISTORICAL EVENTS IN NURSING INFORMATICS**

- Computers

- Health Care Reform and the Affordable Care Act

- Computers and Patient Accountability Education

- Social Media

- Telemedicine

- Global Health Communication and Collaboration

## RESEARCH

- Research is translating science into knowledge that bridges the gap with clinical practice.

- The vision for nursing in the 21st century is the implementation of evidence-based practice that is created from scientific knowledge to improve patient outcomes.

- Evidence-Based Practice: The integration of (1) Knowledge of current best practice patient outcomes, (2) clinical practice expertise, and (3 providing quality services reflecting the interests, values, needs, and the expert clinical practice for the patient being served.

## RESEACH EVIDENCE RESOURCES

**Patients with COPD Utilizing Oxygen:**

It is imperative that nurses follow evidence-based practice protocols for COPD patients. Providing oxygen to COPD patients can help prevent hypoxia and organ failure. Old COPD protocols believed by providing oxygen could create serious problems such as hypercarbia, acidosis or death. The appropriate evidence-based practice is to give oxygen which can enhance the COPD patients' quality of life and increase their life span.

**Patients with Diabetic Retinopathy:**

Diabetic Retinopathy (DR) is the leading cause of visual impairment in the United States. Significant progress has been made in the understanding and treatment of Diabetic Retinopathy, but rising prevalence demands innovative approaches in management in the future. Progress has been significant in allowing improved ability to delay the development of Diabetic Retinopathy, and to administer treatment protocols that reduce the risk of vision loss.

**Patients with Nosocomial Infections:**

Infection control programs should provide policies and procedures for patient care practices to minimize the spread of nosocomial infections by developing, updated regularly and monitored for compliance. Stringent compliance with handwashing, outbreak control, isolation practices, use of invasive devices, and environmental issues related to housekeeping, linen management, food preparation, and disinfection, and equipment sterilization to decrease nosocomial infections.



"I attribute my success to this - I never gave or took any excuse."

Florence Nightingale

## RESEACH EVIDENCE RESOURCES

**Cochrane Library**

- A collection of databases containing different types of high-quality, independent evidence to inform healthcare decision-making, including Cochrane Reviews: www.cochranelibrary.com

**PubMed for nurses**

- Videos, designed specifically for nurses, providing an introduction to searching literature for in PubMed: https://www.nlm.nih.gov/bsd/disted/nurses/cover.html

**Virginia Henderson Nursing Library**

- Free access to nursing research & evidence-based information: http://www.nursinglibrary.org/vhl/

**CINAHL Databases (requires a subscription)**

- CINAHL provides coverage for more than 4,000 journals, and provides additional nursing and allied health research material including books, evidence-based care sheets and quick lesson disease overviews: https://www.ebscohost.com/nursing/products/cinahl-databases

**Nursing and Allied Health Database (requires a subscription)**

- Features core titles from leading academic publishers, plus instructional videos and more: http://www.proquest.com/products-services/pq_nursingahs_shtml.html

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## THE END

**QUESTIONS**