The Evolution of Nursing Informatics Presentation

NUR-514

Organizational Leadership and Informatics

Instructor

By: Student

Date

Loom Recording Link:

Nursing Informatics Definition

- Nursing Informatics is defined as the field of study integrating nursing science with a manifold "of information and analytical sciences in ways to identify, define, manage, and communicate data, information, knowledge, and wisdom in nursing practice" (American Nurses Association, 2015, as cited by Sensmeier & Anderson, 2020).

History and Evolution of Nursing Informatics

Electronic Health Record (EHR)

Initially theorized in 1968 by Dr. Lawrence Weed

Mainstreamed nationally within last decade (Kelley, 2019)

History and Evolution of Nursing Informatics Continued

HITECH Act through ARRA of 2009

Only a few EHRs active in late 1960s

96% use in hospitals

60% use in office-based providers (Kelley, 2019)

Effect of Nursing Informatics

- Patient safety
- Timely, accurate, accessible data
- Improved patient outcomes
- Electronic Medical Records (EMRs)
- Clinical Decision Support (CDS)
- Reduces medical errors
- Reduces patient care delays
- Reduces healthcare costs
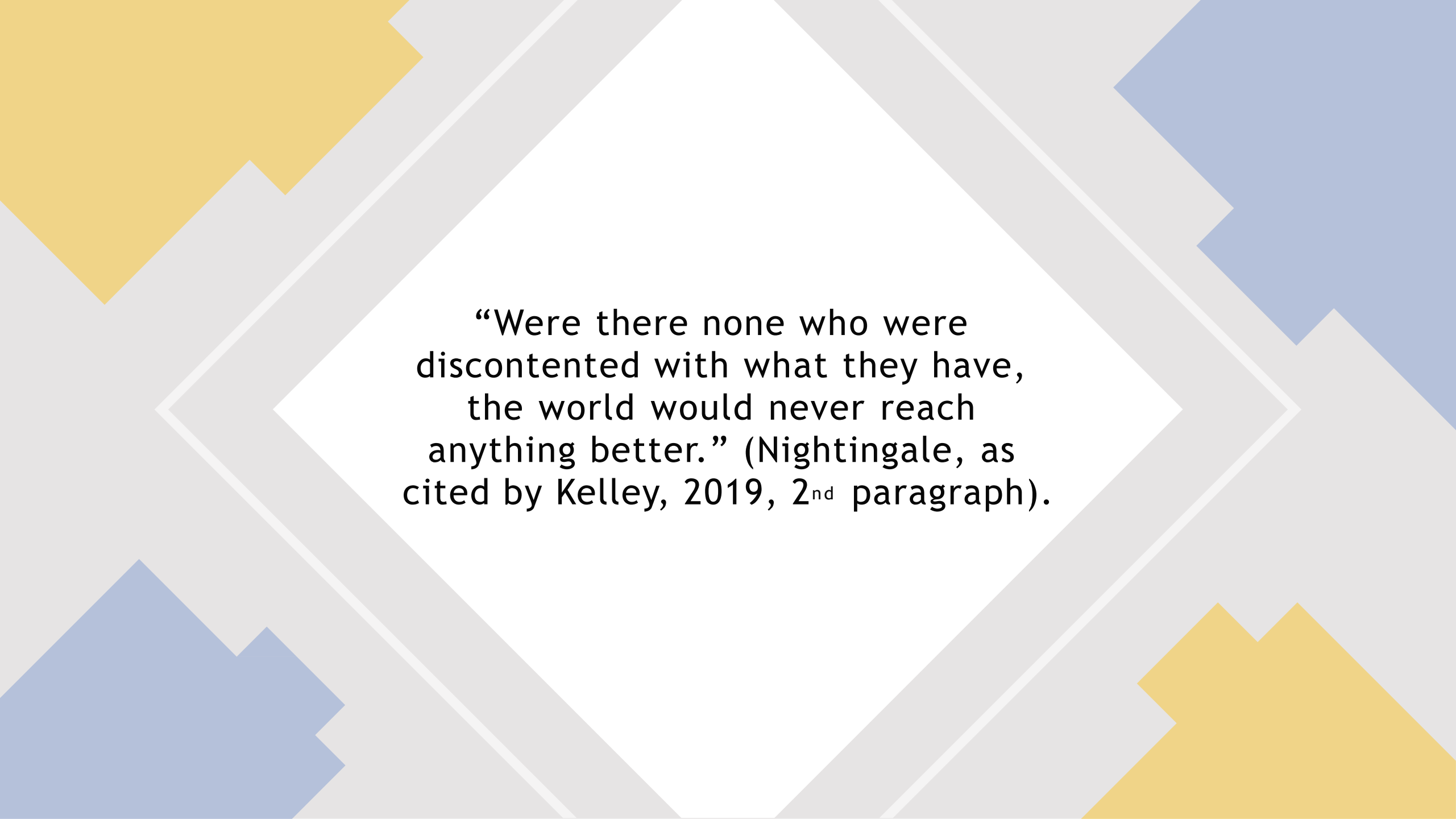- Career opportunities (Sensmeier & Anderson, 2020).

Government Regulation Effect on Organizational Policy for Information Systems

- HITECH Act

- The American Recovery and Reinvestment Act (ARRA)

- HIPAA

- Department of Health & Human Services (HHS)

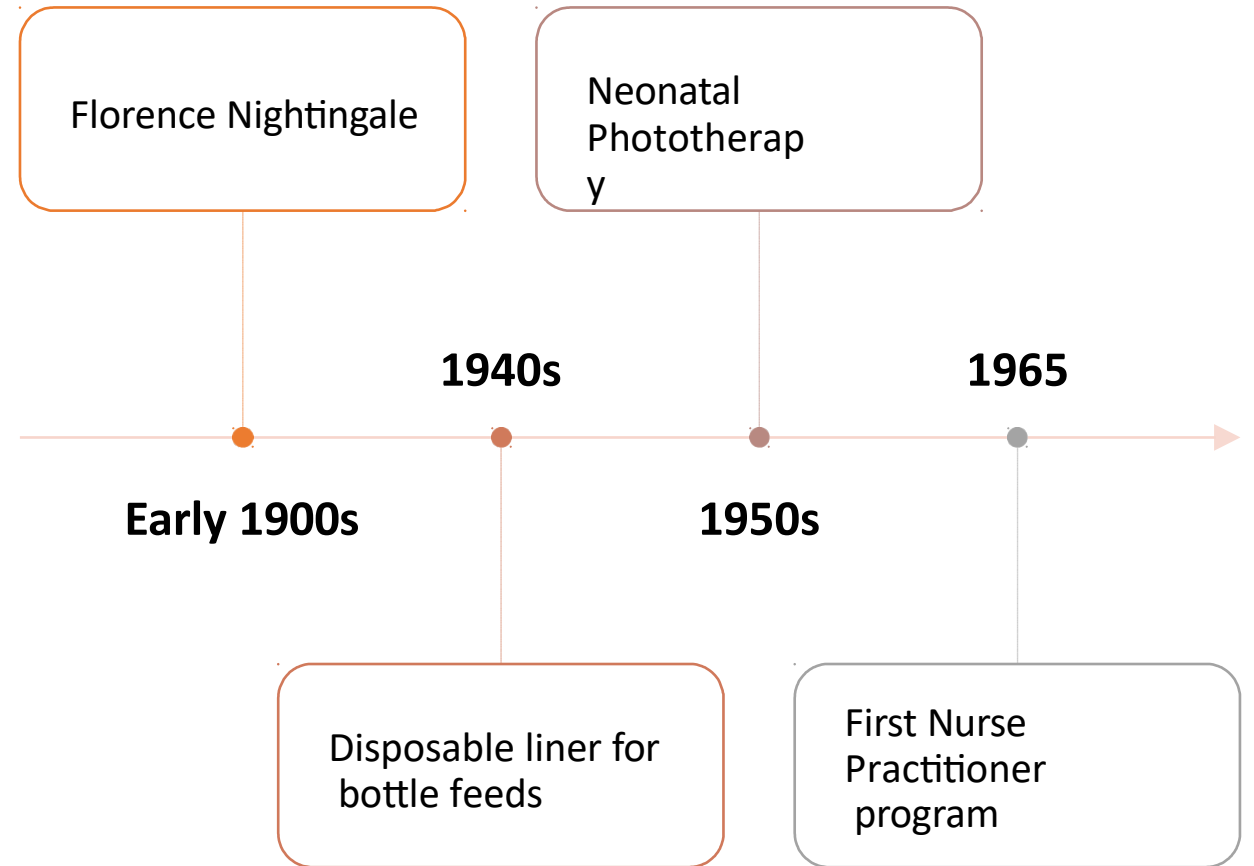 - Meaningful Use Program (HIPAA Journal, 2021).

Government Regulation Effect on Organizational Policy for Information Systems Continued

- The Agency for Healthcare Research and Quality (AHRQ)
- US Department of Health and Human Services (HHS)
- Office of the National Coordinator for Health Information Technology
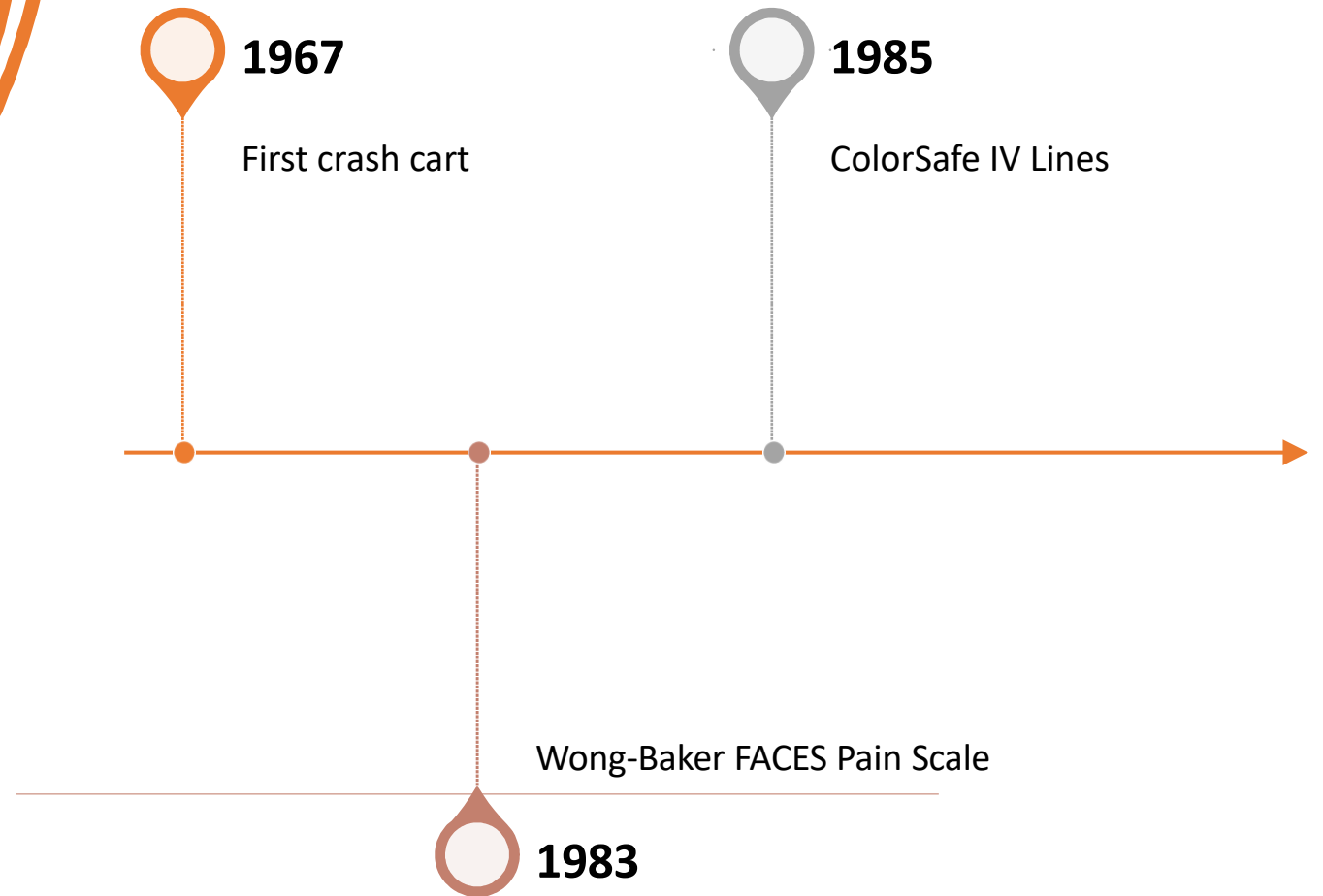- National Academy of Medicine

"Were there none who were discontented with what they have, the world would never reach anything better." (Nightingale, as cited by Kelley, 2019, 2nd paragraph).

Nurse-Led Innovation in Informatics and Quality of Patient Care

Florence Nightingale

Neonatal Phototherapy

1940s

1965

Early 1900s

1950s

Disposable liner for bottle feeds

First Nurse Practitioner program

Nurse-Led Innovation in Informatics and Quality of Patient Care Continued

1967

First crash cart

1985

ColorSafe IV Lines

Wong-Baker FACES Pain Scale

1983

Example of Role of the Nurse in Transforming Health Care Data

Telehealth and Virtual Health during the COVID-19 pandemic

Example of Role of the Nurse in Transforming Health Care Data Continued

- Telehealth and Virtual Health during the COVID-19 pandemic

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