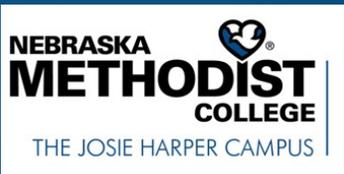


# Clinical Informatics

Nursing Informatics Perspective

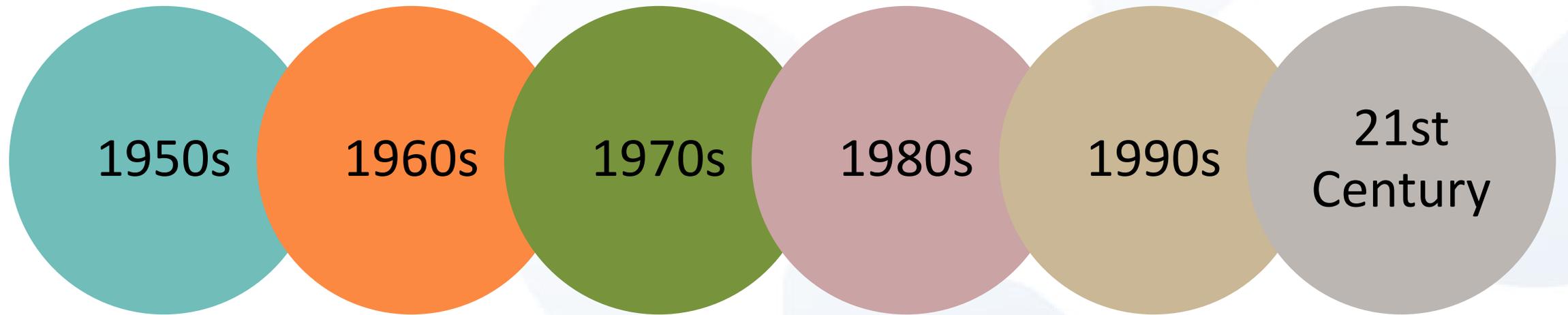
**We Are the CHANGE!**



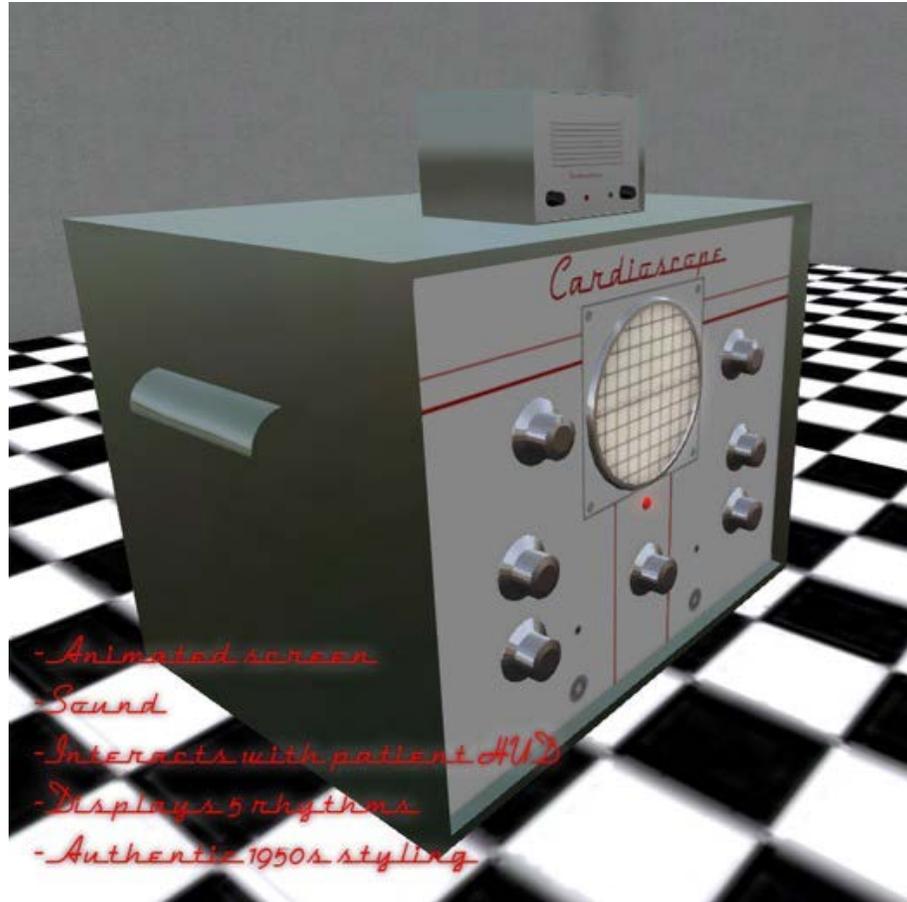
# Outcomes

- Summarize the history of clinical informatics
- Compare definitions between different organizations
- Recommend opportunities for involvement
- Explain preparation for new role(s)

# Nursing Informatics (1950s – Present Day)



# Nursing Informatics in Early Years (1950s – 1960s)



# Early Pioneer (1950s)



Harriet Werley

# Nursing Informatics (1970s)

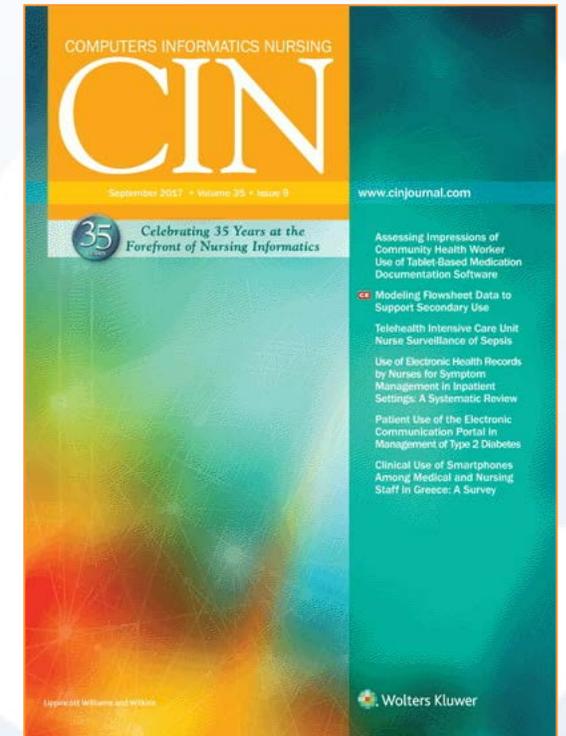
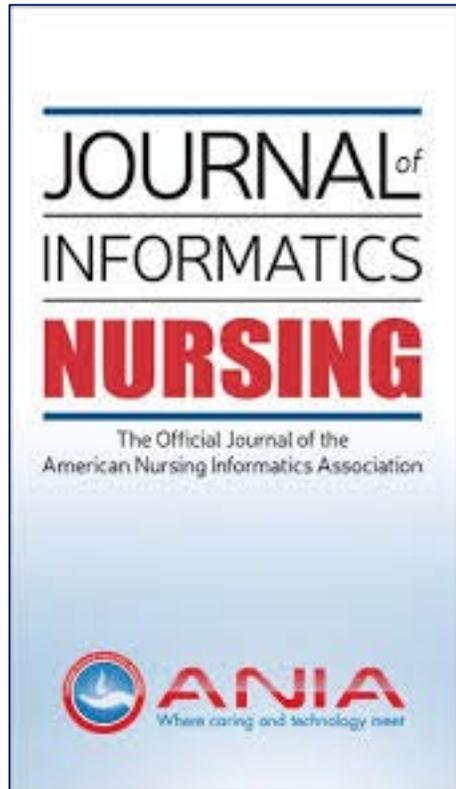


# Early Pioneers (1970)



Dr. Virginia Saba

# Nursing Informatics Publications (1980s)



# Nursing Informatics Articles (1980s)

**Sweeney, M. A., O'Malley, M., & Freeman, E. (1982). Development of a computer simulation to evaluate the clinical performance of nursing students. *Journal of Nursing Education***

**Billings, D. M. (1984). Evaluating computer assisted instruction. *Nurse Outlook***

**Romano, C. A. (1987). Privacy, confidentiality, and security of computerized systems. The nursing responsibility. *Computers in Nursing***

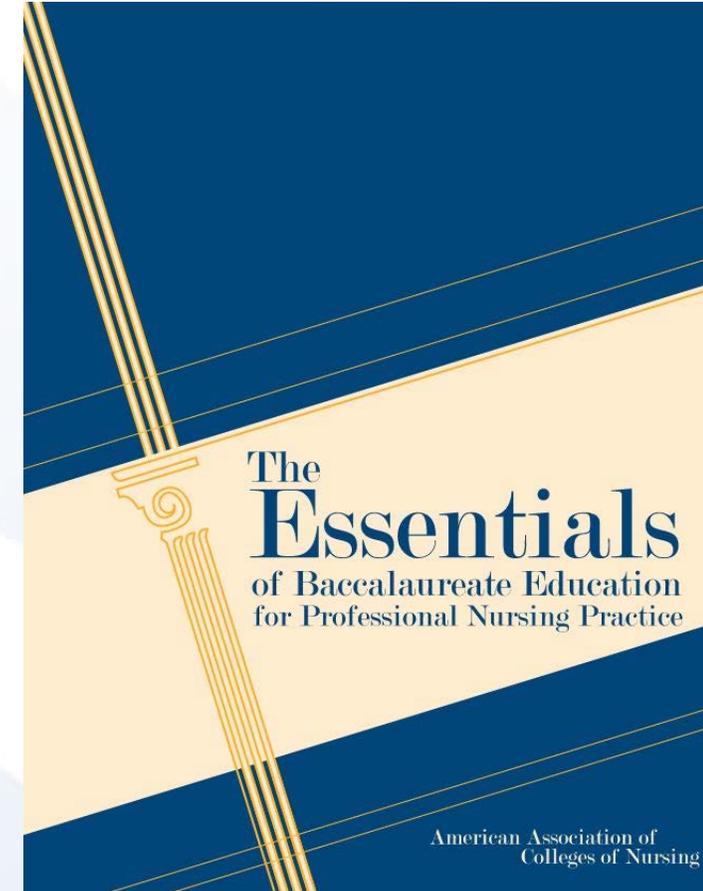
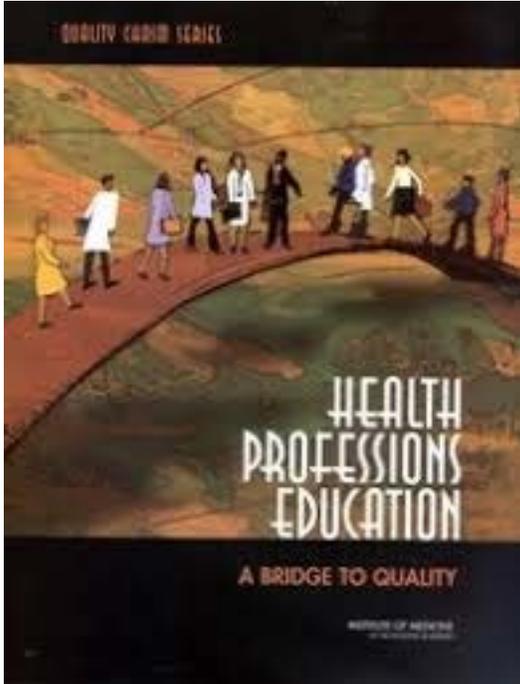
**Schwirian, P. M., Malone, J. A., Stone, V. J., Nunley, B., & Francisco, T. (1989). Computers in nursing practice. A comparison of the attitudes of nurses and nursing students. *Computers in Nursing***

[Pioneer NI Journal Articles](#)

# Nursing Informatics Technology (1990s)



# Nursing Informatics Education and Standards (21<sup>st</sup> Century)



American Association  
*of* Colleges *of* Nursing



# Nursing Informatics: Defined

Graves and Corcoran

*“A **combination of computer science, information science and nursing science** designed to assist in the management and processing of **nursing data**, information and knowledge to support the practice of nursing and the delivery of nursing care”*

ANA

*“The specialty that integrates **nursing science, computer science and information science** in **identifying, collecting, processing and managing data and information** to support nursing practice, administration, education, research and the expansion of nursing knowledge”*

AMIA

Nursing Informatics is the *“science and practice (that) **integrates nursing**, its information and knowledge, with information and **communication technologies** to promote the health of people, families, and communities worldwide.”*

HIMSS and ANA

*Nursing informatics (NI) is the specialty that **integrates nursing science with multiple information and analytical sciences** to **identify, define, manage and communicate data, information, knowledge and wisdom** in nursing practice.*

# Nursing Informatics: Organizations



transforming health through IT™



AMIA nursing-informatics history project

## CARING

American Nursing Informatics Association



**ANIA**  
Where caring and technology meet

NEBRASKA  
**METHODIST**  
COLLEGE  
THE JOSIE HARPER CAMPUS

# Nursing Informatics (getting involved)

- Volunteer for projects within the organization
- Become a Super User
- Volunteer to be chart auditor (once EHR is implemented)
- Learn about nursing informatics
- Join professional organizations
- Attend classes, conferences and workshops
- Develop project management skills
- Review their resume – technical skills



# Nursing Informatics (Experience and Education)

## Requirements to be an Nurse Informatics Specialist

- Licensed as an RN many facilities will require a BSN
- Clinical Experience
- Certification – requires 2 years experience and 30 hrs. CEs
- MSN or Master's Degree in other informatics
- PhD or DNP in Nursing Informatics

# Nursing Informatics: Roles



# Conclusion

- Brief history of nursing informatics
- Defined NI
- Organization
- Experience and Education required
- Roles for nurses in informatics

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# Questions



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