



# Trends in Nursing

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# Nursing Informatics/Technology Explosion

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

Nurse informatics plays a prominent role in the development and maintenance of the technological solutions that nurses rely on to provide optimum patient care.



# Nursing Informatics/Technology Explosion



## IMPACT of AI

Enhanced Diagnosis And Decision-Making	AI algorithms can analyse vast amounts of patient data, such as medical records and diagnostic images, to assist nurses in accurate and timely diagnosis.
Clinical Decision Making	<p>Clinical decision support tools can enhance nurses' ability to make clinical decisions.</p> <ul style="list-style-type: none"><li>• The ability to quickly consider large volumes of data in the risk prediction.</li><li>• Increased intervention specificity (accurately flagging patients most at-risk).</li><li>• Automated adjustments in variable selection and calculation.</li></ul>
Predictive Analytics And Early Intervention	Can identify patterns and trends in patient data to predict adverse events, such as infections or deteriorating conditions. This enables nurses to intervene proactively, providing timely care and preventing complications.
Intelligent Patient Monitoring	can continuously analyse patient vital signs, detect anomalies, and issue alerts when immediate attention is required. This technology enables nurses to monitor multiple patients simultaneously, leading to more efficient and comprehensive care.
Workflow Optimization And Efficiency	<p>can automate routine tasks, such as documentation and data entry, allowing nurses to focus more on direct patient care.</p> <p>AI-powered voice assistance systems, for example, can help nurses perform tasks more quickly and keep them on schedule and better informed.</p>
Telehealth And Remote Patient	facilitate remote consultations, virtual patient monitoring, and remote care coordination.

# Nursing Informatics/Technology Explosion

## IMPACT

- ❑ Used to identify, define, coordinate and communicate data, information and knowledge in nursing practice.
- ❑ Improves communication between doctors and nurses,
- ❑ increasing staff efficiency by streamlining workflow processes,
- ❑ Reducing errors in medication administration or other areas where human error is common (such as transcription)

Challenges include lack of staff or funding and the fact that nurses don't have enough say in how IT affects their work.

If nurses aren't able to use informatics systems effectively, errors, delayed decisions and issues for patient safety can occur.



# Higher education and continuing education for professional nursing competence

- ❑ Continuing Nursing Education (CNE) within the Nursing Practice Environment (NPE) is important in determining issues associated with unsafe practice, unproductiveness or incompetent nurses
- ❑ CNE become essential to keep up with the changing needs of patient care
- ❑ Nurse have to continuously update themselves with new and innovative approaches in patient care management
- ❑ It helps you stay updated on current industry trends, maintain your nursing credentials, strengthen your existing clinical skills, earn new clinical skills, learn about new treatment regimens and increases personal satisfaction and that of patients and employers



# Essential Need for Self-Care/ Well Being in Nursing

- ★ Many nurses experience stress and trauma on a daily basis, and these pressures can affect their mental health, job satisfaction, and overall quality of life.
- ★ Awareness and education on self-care for nurses has become a priority in the field. Those who know how to handle stress can better help patients.
- ★ Employers who promote self-care and healthy work environments are also on the rise as we battle nurse burnout and compassion fatigue.
- ★ There is a correlation between a healthy work environment and nurses who are equipped to provide optimum care that promotes positive patient outcome (Fuller, 2023)
- ★ Nurse managers can play a vital role in developing programs and strategies to minimize nurses' stress and promote a healthy work-life balance.





# The Growing Need for Interdisciplinary Education for Collaborative Practice

- A wide range of knowledge and skills is required to effectively and efficiently manage the comprehensive needs of patients and populations.
- The health care delivery system of the future will rely on teams of nurses, nurse practitioners, physicians, dentists, social workers, pharmacists, and other providers to work together. With care management as a critical component in health care delivery, nurses must demonstrate leadership and competence in interdisciplinary and collaborative practice for continuous quality improvement.



# The Growing Need for Interdisciplinary Education for Collaborative Practice

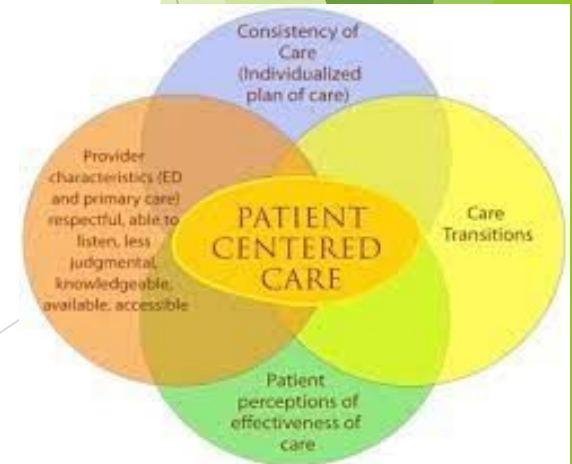
- Team- based, interdisciplinary approaches have been shown to be highly effective for improving clinical outcomes and reducing cost (Heller, Oros & Durney-Crowley, 2007)
- One of the most significant benefits of interprofessional collaboration is its positive impact on patient outcomes.





# Patient-centred care and continued focus on patient safety and quality outcomes

- As patients are becoming increasingly informed, they will make healthcare choices based on public reported data.
- Nurse –sensitive indicators such as patient falls and injuries, hospital-acquired infections, pressure ulcer prevalence, failure to rescue, and restraint prevalence factor into patient choice.
- Patients have become more knowledgeable about illness care, health promotion, and the consequences of error in care, they have become more assertive about their right to competent care and privacy to information.
- The 2002 Health Insurance Portability and Accountability Act (HIPAA) law mandates protection of an individual's privacy by health care providers and throughout society and has changed many previously careless and harmful practices (Cherry& Jacob, 2014).



- **Nursing, the profession that is as old as humanity, has experienced several trends and issues that has influenced the profession in so many ways**
- **Identifying these trends has helped to unveil what nursing had gone through to become what it is and to predict what the profession is likely to face in the years to come based on its past, the societal, economical and political influence**



**Thank you!**