**มหาวิทยาลัยราชภัฏนครปฐม** Nakhon Pathom Rajabhat University 4172801 Digital Technology and Nursing Information

# Topic 6 Application of Information Technology in Administration and Nursing Services Administration (Content on Administration)

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# Learning objectives

#### Application of Information Technology in Administration and Nursing Services on 3 major issues

#### The Nursing Shortage

Increased Demand for Patient Safety

#### The Need for Visibility



# NURSING MANAGEMENT TODAY:

The Nursing Shortage



Increased Demand for Patient Safety



The Need for Visibility



# The nursing shortage

#### health care quality

#### patient outcomes

- Patient Safety
- Organization Performance
- Clinical Effectiveness
- Patient Satisfaction
- Service Quality
- Appropriate of Care
- Patient Responses to Treatment
- Cost of Services
- Efficiency of Service Delivered

## Nursing management's administrative 🎯 มหาวิทยาลัย needs

- The increased demand for patient safety, and need for visibility have created a wealth of opportunity for nursing in terms of IT.
- Their patient care and paperwork experiences. The results were disturbing:
- 1.In the emergency department every hour of the patients care require 1 hour of paperwork.
- 2.For surgery and the impatient acute care requires 36 min of paperwork.
- **3.For home healthcare every hour of patients care in 48min of paperwork.**

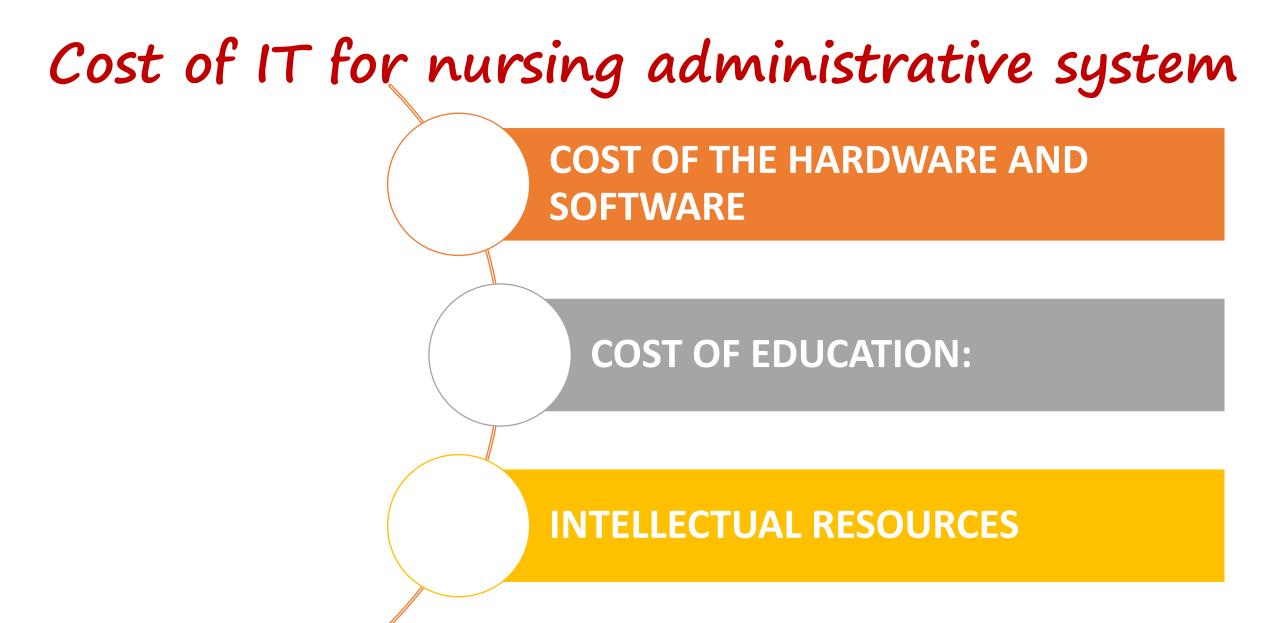


# Information Technology on Nursing Administration Nurse Manager

- > Managing organized nursing services
- Ensuring the standards of nursing practice
- Evaluating care delivery models and services
- > Fostering a climate for practice.

#### Cost of IT for nursing administrative system







# Nursing/Health Information Support Nursing Administration

- 1.Support access to external comparisons database
- 2. Ensures data security and confidentially
- 3. Promote the development of knowledge
- 4. Support continuous quality improvement
- 5. Ensure data integrity
- 6.Integrate with existing standards and procedures
- 7.Support needs assessment



# How nursing benefits from information technology?

Nursing administrative system fall into three basic categories:

- 1.Strategic
- 2.Operational
- **3.Tactical**



# Specific computer applications for nursing administrators and managers:

#### Nurse's Data Managers Data Needs

## Allocating available resources

- Patient Classification System
- Acuity System
- Staffing and Scheduling System

Providing input into executive level decision

- Unit Activity reports
- Utilization Review
- Shift Summary Reports

Planning, organizing implementing

- Computer- Based patient record (CPR)
- Census
- Poison Control
- Allergy and Drug Reaction
- Error report
- Incident report



# Specific computer applications for nursing administrators and managers:

#### Nurse executive data needs:

#### Managing organized nursing services and the environment

- Forecasting and planning
- Financial planning
- Hospital expansion

Ensuring that standards of nursing practice are established and implemented

- Quality Assurance
- Regulatory Reporting
- Consumer Survey
- Evidence-based Practice

Evaluating care delivery models and of services

- Personal Profile
- Risk Pooling
- Costing Nursing Care



# What Nursing Administrators Need to know about Selecting a System?

- **1. Networking information access**
- 2. Networking master patient index
- 3. User friendly system interface
- 4. Interface engines for system communications
- 5. Data rectories to facilitate data sharing
- 6. Specialized managed care software
- 7. Standards
- 8. System for data comparison
- 9. Software for longitudinal patients record
- 10. Standardized on " a limited number" of application vendors.



# Examples of Application NIS in Nursing Administration



Example of mail screen used for communication between departments and individuals. which will reduce the use of paper



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Staff schedule management program



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Knowledge management program



# Coming up issues for Information Technology in Administration and Nursing Services

- New Breed Clinical Information System
- >Open System
- Patient Centered Care-in New normal Era
- Healthcare's increased focus on better quality lower cost patient care
- ≻etc.



## Discussion

#### List 3 ideas of your own about coming up issues for information technology in administration and nursing services following this situation...





# Thank You