



มหาวิทยาลัยราชภัฏนครปฐม
Nakhon Pathom Rajabhat University

4172801 Digital Technology and Nursing Information

Topic 6

Application of Information Technology in Administration and Nursing Services



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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**

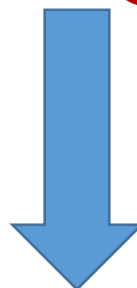
**The Need for
Visibility**

NURSING MANAGEMENT TODAY:



The nursing shortage

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 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

Nurses Executives

- 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**

Cost of IT for nursing administrative system



COST OF THE HARDWARE AND SOFTWARE

COST OF EDUCATION:

INTELLECTUAL RESOURCES

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

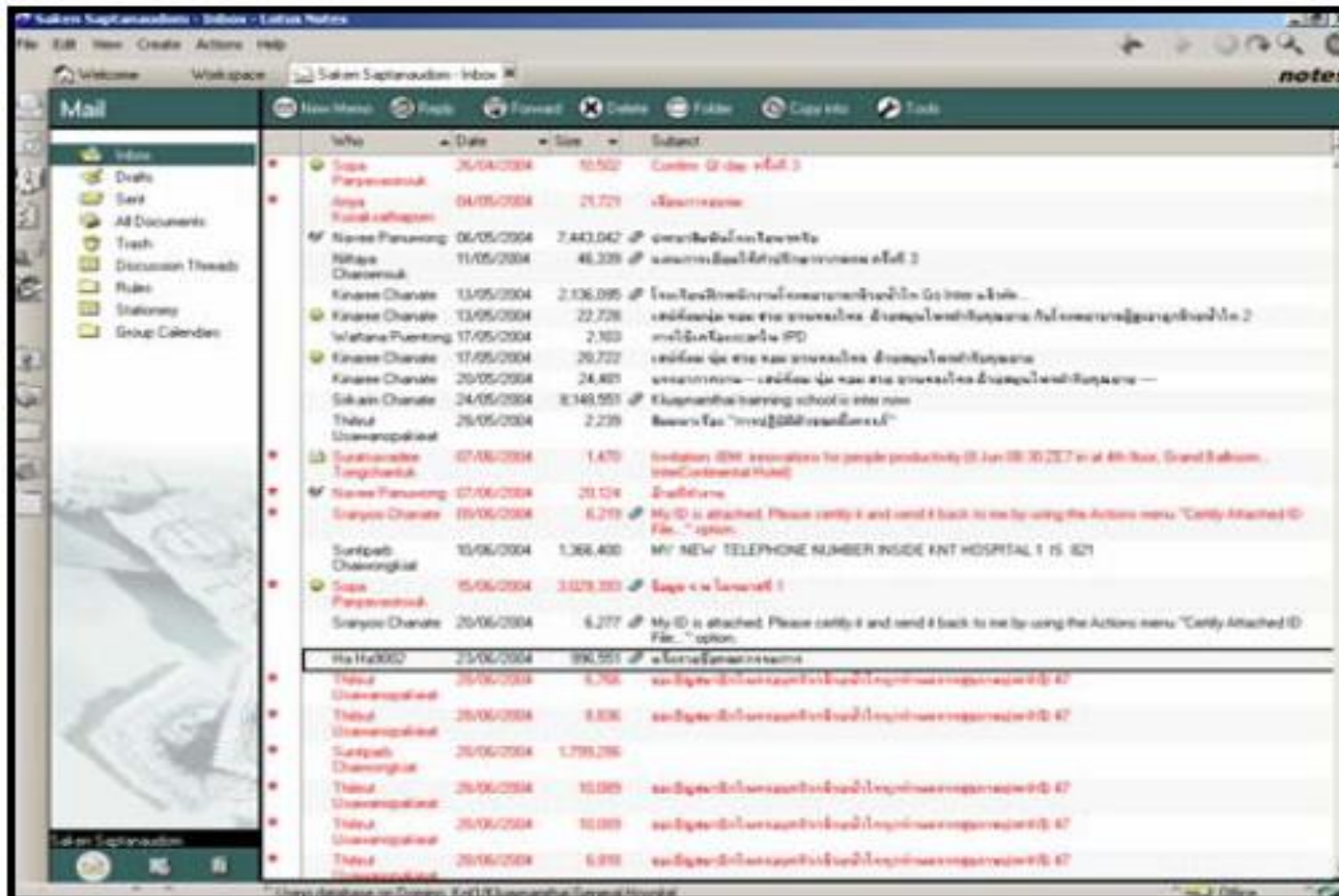
What Nursing Administrators Need to know about Selecting a System?

1. Networking information access
2. Networking master patient index
3. User friendly system interface
4. Interface engines for system communications
5. Data repositories 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



From	Date	Size	Subject
Sook Pongpanich	26/04/2004	10,502	Custom Greeting Card 2
Jaya Kiatkathapan	04/05/2004	21,721	แจ้งข่าวเรื่อง
Norae Panuwong	06/05/2004	2,443,042	ขอเชิญฟังคอนเสิร์ต
Nitaya Charoent	11/05/2004	46,328	ขอเชิญฟังคอนเสิร์ตในวันเสาร์ที่ 2
Kinase Chanate	13/05/2004	2,126,095	ขอเชิญฟังคอนเสิร์ตในวันเสาร์ที่ 2
Kinase Chanate	13/05/2004	22,728	ขอเชิญฟังคอนเสิร์ตในวันเสาร์ที่ 2
Wahana Puentong	17/05/2004	2,303	ขอเชิญฟังคอนเสิร์ตในวันเสาร์ที่ 2
Kinase Chanate	17/05/2004	20,772	ขอเชิญฟังคอนเสิร์ตในวันเสาร์ที่ 2
Kinase Chanate	20/05/2004	24,801	ขอเชิญฟังคอนเสิร์ตในวันเสาร์ที่ 2
Siksan Chanate	24/05/2004	8,140,951	Kingmantha learning school is inter view
Thitai Unwanpakdee	26/05/2004	2,229	Banner for "วันงดสูบบุหรี่โลก"
Sukhanee Tangthasak	07/06/2004	1,470	Invitation: 5th anniversary for people productivity (5 Jun 05 20:21:7 in at 4th floor, Grand Ballroom, InterContinental Hotel)
Norae Panuwong	07/06/2004	20,124	แจ้งข่าว
Sanyas Chanate	09/06/2004	6,270	My ID is attached. Please verify it and send it back to me by using the Actions menu "Verify Attached ID File." option.
Sunpeth Chawngkul	10/06/2004	1,368,400	MY NEW TELEPHONE NUMBER INSIDE FNT HOSPITAL 1 IS 821
Sook Pongpanich	15/06/2004	3,029,300	แจ้งข่าว
Sanyas Chanate	20/06/2004	6,277	My ID is attached. Please verify it and send it back to me by using the Actions menu "Verify Attached ID File." option.
Ha Haddo	23/06/2004	890,951	แจ้งข่าว
Thitai Unwanpakdee	26/06/2004	1,768	แจ้งข่าว
Thitai Unwanpakdee	26/06/2004	1,838	แจ้งข่าว
Sunpeth Chawngkul	26/06/2004	1,799,286	แจ้งข่าว
Thitai Unwanpakdee	26/06/2004	10,080	แจ้งข่าว
Thitai Unwanpakdee	26/06/2004	10,080	แจ้งข่าว
Thitai Unwanpakdee	26/06/2004	6,870	แจ้งข่าว

Staff schedule
management
program

Document Data Control For ISO 9002

Document Number	Document Name
P	
K1-COM-P01	การปฏิบัติงานของฝ่ายบริหาร
K1-COM-P02	การปฏิบัติงานของฝ่ายผลิต
K1-CQS-P03	การควบคุมคุณภาพ
K1-CQS-P04	การควบคุมคุณภาพการผลิต
K1-CQS-P05	การควบคุมคุณภาพการบริการ
K1-CQS-P06	การปฏิบัติงานของฝ่ายขาย
K1-CQS-P08	การปฏิบัติงานของฝ่ายบริหาร
K1-CQS-P12	การปฏิบัติงานของฝ่ายบริหาร
K1-CQS-P13	การปฏิบัติงานของฝ่ายบริหาร
K1-CQS-P14	การปฏิบัติงานของฝ่ายบริหาร
K1-CQS-P15	การปฏิบัติงานของฝ่ายบริหาร
K1-HUM-P01	การปฏิบัติงานของฝ่ายบริหาร
S	
K1-COM-S01	การปฏิบัติงานของฝ่ายบริหาร
K1-COM-S02	การปฏิบัติงานของฝ่ายบริหาร
W	
K1-COM-W/301	การปฏิบัติงานของฝ่ายบริหาร
K1-COM-W/302	การปฏิบัติงานของฝ่ายบริหาร
K1-COM-W/304	การปฏิบัติงานของฝ่ายบริหาร

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