มหาวิทยาลัยราชภัฏนครปฐม
Nakhon Pathom Rajabhat University

Topic 6

Application of Information Technology in Administration and Nursing Services

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Learning objectives

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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 visibilty 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?

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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	Providing input into executive level decision	Planning, organizing implementing
• Patient Classification System • Acuity System • Staffing and Scheduling System	• Unit Activity reports • Utilization Review • Shift Summary Reports	• 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:

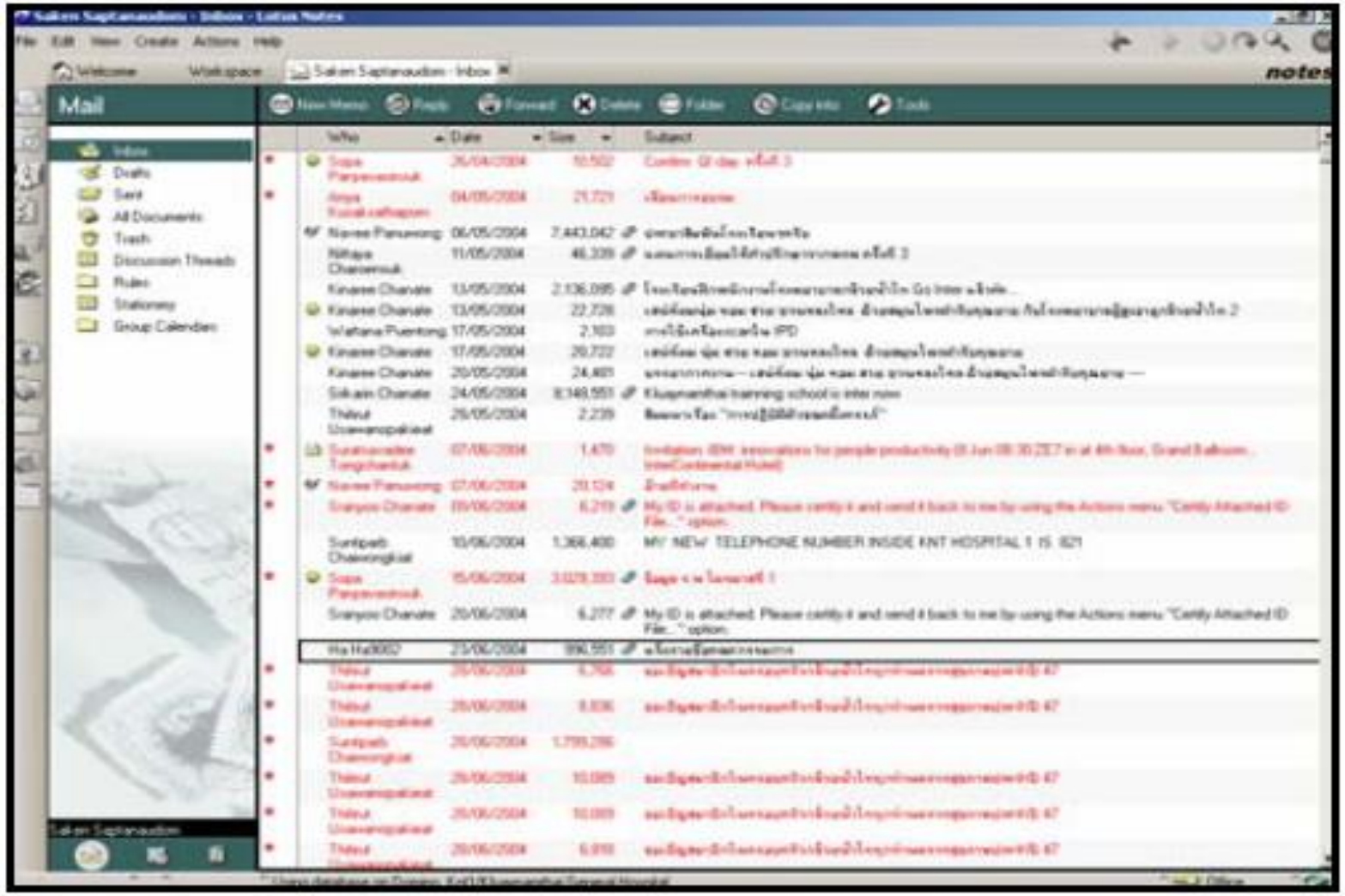
Managing organized nursing services and the environment	Ensuring that standards of nursing practice are established and implemented	Evaluating care delivery models and of services
• Forecasting and planning • Financial planning • Hospital expansion	• Quality Assurance • Regulatory Reporting • Consumer Survey • Evidence-based Practice	• Personal Profile • Risk Pooling • Costing Nursing Care

What Nursing Administrators Need to know about Selecting a System?

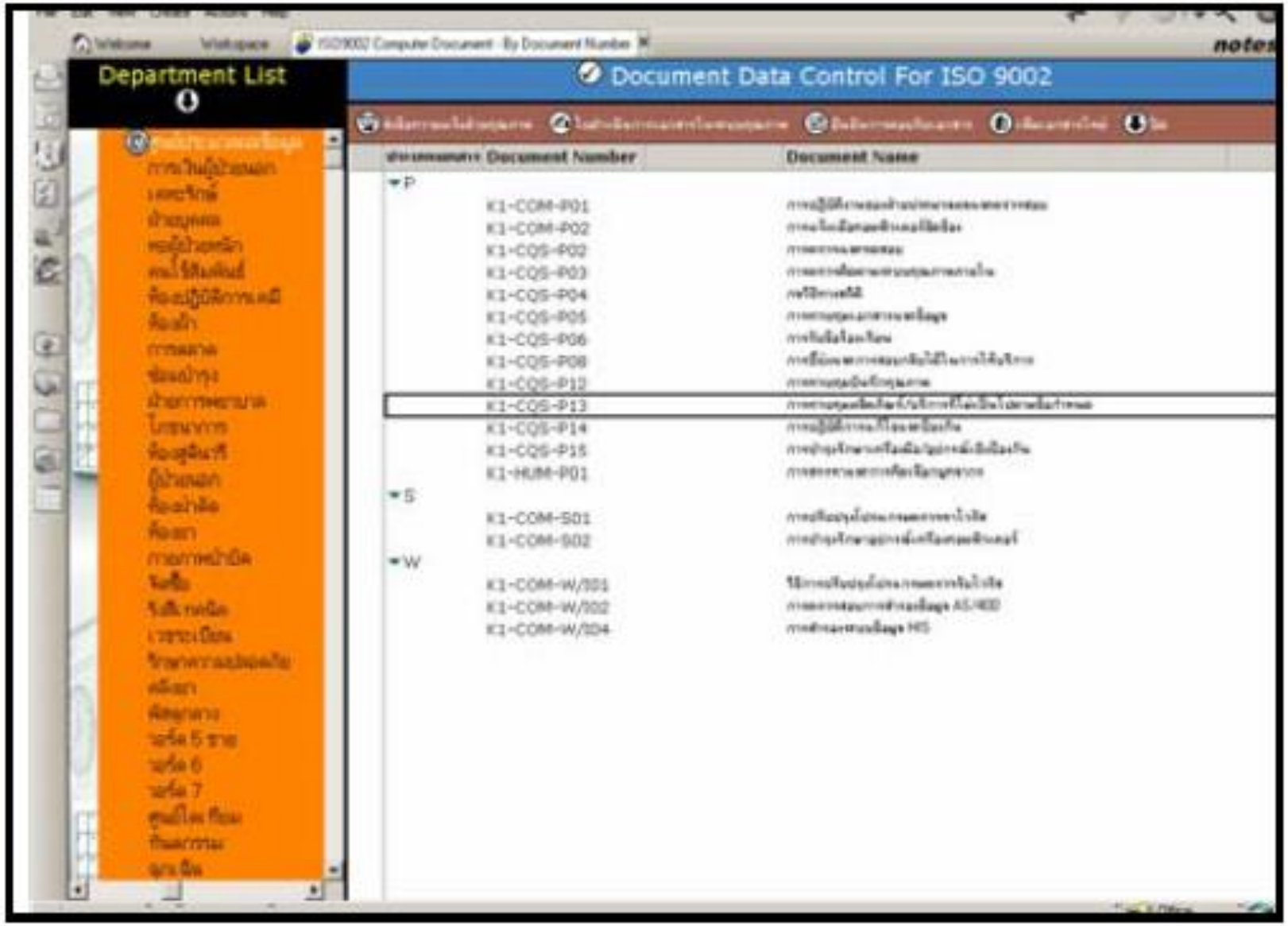
1. Networking information access
2. Networking master patient index
3. User friendly system interface
4. Interface engines for system communications
5. Data rectories to facilitate data sharing
6. Specialized managed care software
7. Standards
8. System for data comparison
9. Software for longitudinal 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



Staff schedule management program



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