

Healthcare and Patient Care Technologies

Healthcare Information Systems

The nurse enters the client's vital signs and assessment into the electronic health record at the nurse's station. Which of the following systems does this best describe?

Clinical documentation system

Order entry system

Pharmacy management

system Case management

system

Any clinical data collected at the bedside goes into a clinical documentation system. An electronic health record is one example of this. Order entry systems are used to send order information to other departments. Case management systems are used to create care plans or pathways. Pharmacy management handles information related to medication orders.

Information Systems Communication

For healthcare information systems to work more efficiently, they must have operability

Interoperability health information technology meaningful use. This enables the systems to send and receive data without the need for data entry or special interfaces. For this to be successful, data must be standardized to ensure accurate transfer.

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Mobile Apps

Which phrase best describes the ability to use a video conferencing application on a cell phone?

Technology literacy

Innate knowledge

Information literacy

Health literacy

Technology literacy is the best way to describe someone's ability to utilize a video conferencing application on a cell phone. Information literacy would better describe how that information travels through the mobile device. Health literacy is about understanding healthcare issues. Innate knowledge is the knowledge someone already has.

Match the task to the system that is needed:

	Case Management Systems	Communications Systems	Business Systems	Order Entry Services	Patient Care Support Systems
Submit a bill for reimbursement					
Document the vital signs of a client					
Request dressing supplies to change a dressing					
Check the activity level on a client care pathway					
Leave a message with the provider about a client					
Check for x-ray results					
Review staffing resources for the unit					
Check if deep vein					

thrombosis (DVT) prophylaxis is recommended after surgery					
Order physical therapy services					
Answer a call light from the nurse's station					

Correct answers:

Task	Case Management Systems	Communications Systems	Business Systems	Order Entry Services	Patient Care Support Systems
Submit a bill for reimbursement			✓		
Document the vital signs of a client					✓
Request dressing supplies to change a dressing				✓	
Check the activity	✓				

level on a client care pathway					
Leave a message with the provider about a client		✓			
Check for x-ray results					✓
Review staffing resources for the unit			✓		
Check if DVT prophylaxis is recommended after surgery	✓				
Order physical therapy services				✓	
Answer a call light from the nurse's station		✓			

Implementation of a New System

The informatics nurse is setting up a new instant messaging system for the unit. Which of the following statements by the nurse administrator indicates further information is needed?

“It is required that the staff sign up and use the system.”

“It’s easy to use, no training will be needed.”

“It should be HIPPA compliant to prevent sensitive data from being viewed by unauthorized staff.”

“This will be used instead of the current messaging system that is in place.”

Anytime a new system is implemented, it is important to define where it will be used, who will have access, and that it is secure. Training should always be offered because many staff members have different understand and ability to use a new communication system and may need assistance. Failure to train can result in less system usage and more workarounds.

Advantages of Clinical Documentation Systems

Which of the following are advantages of a clinical documentation system? Select all that apply.

They offer privacy and strong security.

Information is seldom misplaced, misfiled, or lost.

The same chart can be used by multiple professionals at the same time.

All patient information is stored in one place.

The information is more accurate than when using a manual chart.

By law, clinical documentation systems used for healthcare are required to offer privacy and strong security. Because the clinical documentation is available on most computers, tablets, or laptops, the information can be accessed by multiple people at the same time. Standard information technology practices require back-up data storage, and most modern systems are usually very reliable and do not lose, misplace, or misfile data. Information in any kind of chart is only as good as the information entered, so accuracy is not better with a clinical documentation system. Patient information is stored in many different systems, not just one system.

System Interoperability

Which outcome occurs when there is no interoperability between systems?

Increased redundancies

Increased data entry

requirements Decreased errors

between systems Increased

efficiency

When systems have no interoperability, there is an increased need for data entry as a means of moving the information across systems. No interoperability between systems decreases redundancies, decreases efficiency, and increases the likelihood of errors.

Interoperability

The nurse administrator contacts the information systems department with concerns that the current clinical documentation system and the order entry system lack the ability to communicate efficiently. Which solution would be optimal in creating interoperability?