

WGU C468 INFORMATION MANAGEMENT AND APPLICATION OF TECHNOLOGY LATEST EXAM 2022-2023/ QUESTIONS AND CORRECT ANSWERS 300 QUESTIONS AND VERIFIED ANSWERS | NEW UPDATE

How is information related to data? - ANSWER- **Information is data that have been interpreted**

How does information literacy support the use of evidence-based-practice (EBP) in nursing? - ANSWER- **The nurse can discern research findings that can be applied to practice and Nurses must frequently consult resources including peers and general internet searches**

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A nurse documents care of a patient with a decubitus ulcer in the electronic health record. Which term describes the electronic health record in this situation? - ANSWER- **Information system**

Which statement describes nurses as knowledge workers? - ANSWER- **Nurses generate knowledge as a product.**

Beginning Nurse - ANSWER- **Uses information systems to manage patients**

Experienced Nurse - ANSWER- **Pulls trends out of data**

Informatics innovator - ANSWER- **Generates informatics theory**

Informatics nurse specialist - ANSWER- **Focuses on nursing's information needs**
The RN who works in the area of informatics. Has an interest or experience but no formal training. Ensures that information is disseminated at appropriate times for appropriate uses - ANSWER- **Informatics Nurse**

Plays an active role in research and theory development. Has advanced graduate

training in nursing informatics. - ANSWER- **Informatics Nurse Specialist**

Which of the following uses database applications to sift through large amounts of data and looks for previously hidden trends? - ANSWER- **Data Mining**

A nurse is reviewing a patient's pneumonia vaccination status in the electronic medical record. The nurse determines the patient needs this vaccine before discharge to meet the requirements of a current clinical pathway. Why would the nurse use information systems in this manner? - ANSWER- **To promote desired clinical outcomes**

A nursing informatics specialist at a small, rural hospital implemented a clinical information system utilizing an electronic health record (EHR). She obtained input from nurses regarding selection of the specific EHR. She noted that some of the nurses had negative attitudes towards a change to the EHR, but she encouraged them to try the system and note its benefits. She implemented the system after all nurses were trained about the EHR. There were numerous complaints about the EHR, which the Nursing Informatics Specialist decided to ignore since the personnel were new to the system. Which barrier to implementing technology is present in the scenario? - ANSWER- **Lack of continued support**

A computer program was implemented at a hospital that required nurses to wait until the patient arrived in the emergency room and was registered into the program before orders for critical time-sensitive treatment could be written. How could this program become a barrier to the nurses attempting to deliver patientcentered care? - ANSWER- **The time spent waiting for the program to register the patient could delay critical care being delivered in a timely manner**

Which national trend is related to nursing informatics? - ANSWER- **Barcode scanning for medication administration**

Which standardized nursing terminology is composed of nursing diagnoses, nursing actions, and nursing outcomes? - ANSWER- **ICNP**

Which of the following requires standardized nursing terminology to meet its criteria? - ANSWER- **Meaningful Use**

What is a challenge to the adoption of eHealth strategies? - ANSWER- **Creating economic incentives and policies that providers view as essential to accomplishing their financial and professional goals**

What is the importance of a nurse's active participation in electronic patient information? - ANSWER- **To ensure patient information will be current and accessible to the healthcare team**

A nurse is working on a medical surgical unit and is concerned over a patient's worsening heart failure. The nurse calls the provider to discuss the assessments. How does the electronic medical record facilitate a collaborative discussion in this situation? - ANSWER- **The provider can visualize the chest x-ray remotely.. The provider has access to the data being discussed.**

What are three types of clinical information systems? - ANSWER- **Laboratory system. Order entry system. Monitoring system.**

What are common features of the various health information systems? - ANSWER- **Creates a comprehensive record of the patient's medical history. Is unique in the way they function and provide information to clinicians. Collects, processes and distributes patient centered data to manage and provide care.**

Administrative Information Systems - ANSWER- **Admission, discharge, and transfer system. Financial system. Scheduling system**

Clinical Information Systems - ANSWER- **Radiology information system. Clinical documentation system.**

Which health information system is used to collect and store client identification and demographic data that are verified and updated at the time of each visit? - ANSWER- **Registration system**

Administration in an acute care clinic is considering adopting a health information system. A team is formed with members of clinical areas, software vendors, and an executive team of stakeholders. Which collaborative tasks are important for this team to accomplish with regard to selecting the health information system? - ANSWER- **Determine who will be accountable for the project. Determine how resources will be allocated to support the system. Assess potential for process improvement while using the system.**

An admission nurse is awaiting notification of whether a patient being monitored by telehealth will be admitted to the hospital. The physician has already documented the admission orders in the digital medical record. Due to miscommunication, the admitting nurse did not access the digital medical record. There was a significant delay in the patient's admission, which led to decreased patient satisfaction with the admission process. How can the use of the digital

health record improve this process? - ANSWER- **It prevents the delay of tests and services.. It allows for easy access to patient information.**

What are the essential components of an electronic health record? - ANSWER- **Vital signs. Lab results. Demographics.**

Which function is performed within an electronic health record system? - ANSWER- **Bar scanning medications and patients**

What can a nurse, working in a hospital, use to access a patient's electronic health record and prescription drugs from a medication administration system? - ANSWER- **Bar coded identification cards**

Which mechanism is used to streamline caregivers' workflow that needs to include past medical history, patient demographics, immunizations, and medication history? - ANSWER- **Electronic health record**

What are some benefits of using an electronic health record (EHR) system in an ambulatory care clinic? - ANSWER- **Decrease medication errors. Increase clinic reimbursement. Improve provider documentation. Increase delivery of guideline based care**

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A local medical clinic is attempting to develop an electronic health record (EHR) system. Which challenges should the organization anticipate? - ANSWER- **Identifying data needs for differing nursing practice specialties. Implementing standardization of documentation across physician offices**

Administration in an acute care clinic is considering adopting a health information system. A team is formed with members of clinical areas, software vendors, and an executive team of stakeholders. Which collaborative tasks are important for this team to accomplish with regard to selecting the health information system? Choose 3 answers

Determine who will be accountable for the project

Determine how resources will be allocated to support the system.

Assess potential for process improvement while using the system

An admission nurse is awaiting notification of whether a patient being monitored by telehealth will be admitted to the hospital. The physician has already documented the admission orders in the digital medical record. Due to miscommunication, the admitting nurse did not access the digital medical record.

There was a significant delay in the patient's admission, which led to decreased patient satisfaction with the admission process. How can the use of the digital health record improve this process? Choose 2 answers

It prevents the delay of tests and services.

It allows for easy access to patient information.

A student is behind on morning medication administration. The instructor is pressuring the student to pass quickly without any errors. One of the clients assigned to the student's care asks for pain medication. Which nursing intervention is questionable?

Computer scan the meds and come back later to administer them

Classify the mechanisms as either physical or logical security measures for protecting electronic information. Answer options may be used more than once or not at all.

Authentication --Logical

Placing computers, servers and routers in restricted --Physical

Installing a firewall--Logical

Automatic sign-off--Logical

Setting up surveillance--Physical

A computer program was implemented at a hospital that required nurses to wait until the patient arrived in the emergency room and was registered into the program before orders for critical time-sensitive treatment could be written. How could this program become a barrier to the nurses attempting to deliver patient-centered care?

The time spent waiting for the program to register the patient could delay critical care being delivered in a timely manner.

During a crisis, a nurse manager is looking for the written, hospital-wide procedural policy. The nurse is unable to locate it. What can the nurse manager use to solve this issue?

Decision support tools

How can clinical decision support tools lead to safer patient care? Choose 2 answers

They give timely information to nurses and other healthcare providers.

They reduce waste of nurse's time looking through the medical record.

How does information literacy support the use of evidence-based-practice (EBP) in nursing? Choose 2 answers

-The nurse can discern research findings that can be applied to practice

-nurses must frequently consult resources including peers and general internet searches.

How does meaningful use of electronic health records (EHR) relate to quality patient care? Choose 2 answers

Computerization of prescriber order entry (CPOE)

Maintenance of active patient medication lists

How is information related to data?

information is data that have been interpreted.

In regards to a secure network, what gives employees confidence that the information they are reading is true?

Integrity

Label the descriptions as belonging to the role of either the informatics nurse or the informatics nurse specialist. Answer options may be used more than once or not at all.

the RN who works in the area of informatics -- informatics nurse

has an interest or experience but no formal training in informatics-- informatics nurse

plays an active role in research and theory development-- informatics nurse specialist

has advanced graduate training in nursing informatics. -- informatics nurse specialist

ensures that information is disseminated at appropriate times for appropriate uses. -- informatic nurse

A local medical clinic is attempting to develop an electronic health record (EHR) system. Which challenges should the organization anticipate? Choose 2 answers

Identifying data needs for differing nursing practice specialties

Implementing standardization of documentation across physician offices

Match each term with its healthcare information system. Answer options may be used more than once or not at all.

admission, discharge, and transfer system--- administrative information systems

radiology information system --- clinical information systems.

financial system --- administrative information systems

clinical documentation system--- clinical information systems.

scheduling system--- administrative information systems.

Match the level of nurse practice with appropriate skill criteria. Answer options may be used more than once or not at all.

beginning nurse --- uses information systems to manage patients

experienced nurse --- pulls trends out of data

informatics innovator --- generates informatic theory

informatics nurse specialist --- focuses on nursing information needs

Match the situation with the appropriate and effective telecommunication strategy. Answers options may be used more than once or not at all.

An elderly homebound patient is concerned about the palpitations she is feeling. -- real time remote monitoring

a nurse is struggling to work full time in a hospital setting while complete her masters -- online class room

a cardiologist with a rural office practice has no one to cover his patient when he is away. --- teleconsultants

a family member is unsure what to do for a home hospice patient who is restless and agitated during the night -- real time monitoring

A nurse documents care of a patient with a decubitus ulcer in the electronic health record. Which term describes the electronic health record in this situation?

Information system

A nurse is administering a new medication to a patient who has never taken this medication in the past. The patient is already taking seven different medications at this time. Which nursing intervention should the nurse do before administering this medication?

Review the drug-to-drug, drug-allergy check in electronic health record

A nurse is reviewing a patient's pneumonia vaccination status in the electronic medical record. The nurse determines the patient needs this vaccine before discharge to meet the requirements of a current clinical pathway. Why would the nurse use information systems in this manner?

To promote desired clinical outcomes

A nurse is working on a medical surgical unit and is concerned over a patient's worsening heart failure. The nurse calls the provider to discuss the assessments. How does the electronic medical record facilitate a collaborative discussion in this situation? Choose 2 answers

The provider can visualize the chest x-ray remotely.

The provider has access to the data being discussed.

A nurse learns that a colleague has accessed electronically stored health information of a patient that the colleague is not involved in treating. What should the nurse do?

Report the colleague to their employer

A nurse manager identifies several advanced practice nurses at an ICU workstation responding to multiple patient alarms. She notices that the acuity of one patient drastically increases the demand for staff resources. How can workflow analysis impact practice in this situation?

It provides observation and documentation of what is happening in the current environment.

A nurse manager views patient data collected over the last three months of hospital admissions. Trends show that nosocomial infections have increased on the geriatric unit. Which actions can patient data facilitate quality improvement in the future? Choose 2 answers

Using the data to implement evidence-based practice procedures

Using the data to monitor infection trends

A nurse receives a computerized alert of a critical lab value on her patient. This computerized alert informs the nurse that an action needs to be taken and provides suggestions for clinical intervention. Which technology did the nurse employ to achieve an enhanced safe practice environment?

Use of a clinical decision support tool

A nurse uses an internet blog to give a patient shift report to a nurse coming on to the next shift. Why is this nursing action a problem? Choose 2 answers

Giving a nursing report via a blog does not meet HIPAA requirements

Healthcare information discussed on the blog violates a patient's privacy

A nursing informatics specialist at a small, rural hospital implemented a clinical information system utilizing an electronic health record (EHR). She obtained input from nurses regarding selection of the specific EHR. She noted that some of the nurses had negative attitudes towards a change to the EHR, but she encouraged them to try the system and note its benefits. She implemented the system after all nurses were trained about the EHR. There were numerous complaints about the EHR, which the Nursing Informatics Specialist decided to ignore since the personnel were new to the system. Which barrier to implementing technology is present in the scenario?

Lack of continued support

A patient is in the ICU after a motorcycle accident. The patient sustained multiple contusions and fractures. Various digital monitoring devices are being used to track the patient's vital signs, pulse oximetry, and cardiac rhythm. How can the appropriate use of these technologies impact this patient's outcome? Choose 2 answers

Decreased recovery time

Timely treatment of potential complications

What are common features of the various health information systems? Choose 3 answers

creates a comprehensive record of the patients medical history

is unique in the way they function and provide information to clinicians

collects, processes and distributes patient centered data to manage and provide care.

What are common personal data access security threats in healthcare? Choose 2 answers

Unencrypted data

Weak passwords

What are some benefits of using an electronic health record (EHR) system in an ambulatory care clinic? Choose 4 answers

Decrease medication errors

Increase clinic reimbursement

Improve provider documentation

Increase delivery of guideline based care

What are the essential components of an electronic health record? Choose 3 answers

Vital signs

Lab results

Demographics

What are the features of a clinical decision support tool? Choose 3 answers

Provides practice guidelines

Delivers online information retrieval

Issues computerized alerts and reminder

What are three types of clinical information systems? Choose 3 answers

laboratory system

order entry system

monitoring system

What are two common characteristics of telehealth? Choose 2 answers
the use of video streaming technology

transmission of biological data from a remote location

What can a nurse, working in a hospital, use to access a patient's electronic health record and prescription drugs from a medication administration system?

Bar coded identification cards

What is a challenge to the adoption of eHealth strategies?

Creating economic incentives and policies that providers view as essential to accomplishing their financial and professional goals

What is a function of a clinical decision support tool?

Providing clinicians with knowledge and person-specific information

What is an important legal consideration in the use of telehealth nursing?

The nurse is licensed in each state in which the remote clients are located

What is a principle provision of the Health Information Technology for Economic and Clinical Health (HITECH) Act?

To improve healthcare quality by enhancing coordination of services among providers

What is a prominent socioeconomic factor driving telehealth medicine?

An increase in chronic disease conditions

What is one way that technology acts as a change agent in the nursing process?

It reduces the time spent on documentation

What is the importance of a nurse's active participation in electronic patient information?

To ensure patient information will be current and accessible to the healthcare team

What represents the greatest potential threat to data security

Removable storage device

Which example is a telehealth non-clinical application?

Distant patient education via computer

Which function is performed within an electronic health record system?

Bar scanning medications and patients

Which health information system is used to collect and store client identification and demographic data that are verified and updated at the time of each visit?

Registration system

Which informatics tools are commonly used for collecting and analyzing patient data? Choose 2 answers

PDA's

bedside computers

Which mechanism is used to streamline caregivers' workflow that needs to include past medical history, patient demographics, immunizations, and medication history?

Electronic health record

Which national trend is related to nursing informatics?

Barcode scanning for medication administration

Which of the following requires standardized nursing terminology to meet its criteria?

Meaningful Use

Which of the following uses database applications to sift through large amounts of data and looks for previously hidden trends?

Data Mining

Which procedures are essential to creating and maintaining a culture of safety during the medication administration cycle? Choose 2 answers

Performing double verification among nurses when administering high alert medications

Barcode scanning the patient and the medication to ensure positive patient ID

Which standardized nursing terminology is composed of nursing diagnoses, nursing actions, and nursing outcomes?

ICNP

Which statement describes nurses as knowledge workers?

Nurses generate knowledge as a product.

Which statement represents one of the principle provisions of the Health Information Portability and Accountability Act (HIPAA) related to information security?

Nurses should notify a supervisor immediately when observing a breach of patient confidentiality.

Which statements by the nurse demonstrate understanding of the reason for a clinical information system? Choose 2 answers

The information retrieved can be used for research.

It improves compliance with nursing documentation

Which type of technology offers support during the medication administration cycle?

Viewing of the digital health record during a home health visit

You are a nurse manager at a hospital. The informatics department at the hospital has established a no flash drive policy. In addition, all patient files must be saved on the secure O: drive. What would be an appropriate way to describe these changes to your staff? Choose 2 answers

The hospital is implementing a security program to prevent patient data from being compromised.

The hospital is eliminating the need for flash drives to prevent the loss of sensitive data.

You are the informatics nurse at a hospital. You are running a random report evaluating users on your new electronic health record (EHR). You notice that the charge nurse from the emergency department just underwent a radical mastectomy and is recovering on the surgical floor. You then notice that four nurses from the ER have accessed this record. What should you do? Choose 3 answers

Talk to each nurse and explain the legal and ethical ramifications of accessing the EHR.

Explain to the patient their information has been breached.

Provide training to nurses in the emergency department about protected patient information.

Lack of continued support

A nursing informatics specialist at a small, rural hospital implemented a clinical information system utilizing an electronic health record (EHR). She obtained input from nurses regarding selection of the specific EHR. She noted that some of the nurses had negative attitudes towards a change to the EHR, but she encouraged them to try the system and note its benefits. She implemented the system after all nurses were trained about the EHR. There were numerous complaints about the EHR, which the Nursing Informatics Specialist decided to ignore since the personnel were new to the system. Which barrier to implementing technology is present in the scenario?

Inadequate training

Lack of continued support

Lack of end user involvement

Ignoring attitudes early in the process

Information is data that have been interpreted

How is information related to data?

Information is data that have been interpreted

Information forms the base for accurate data collection

Data provide an explanation of information

Data is constructed through information synthesis

The nurse can discern research findings that can be applied to practice

Nurses must frequently consult resources including peers and general internet searches

How does information literacy support the use of evidence-based-practice (EBP) in nursing?

Choose 2 answers

The nurse can discern research findings that can be applied to practice

Nurses consistently role-model this behavior in their practice environment

Nurses are comfortable in performing data base searches

Nurses must frequently consult resources including peers and general internet searches

Information System

A nurse documents care of a patient with a decubitus ulcer in the electronic health record.

Which term describes the electronic health record in this situation?

Information system

Information science

Information technology

Information processing

To promote desired clinical outcomes

A nurse is reviewing a patient's pneumonia vaccination status in the electronic medical record. The nurse determines the patient needs this vaccine before discharge to meet the requirements of a current clinical pathway.

Why would the nurse use information systems in this manner?

To ensure cost effectiveness

To control communicable disease

To promote desired clinical outcomes

To meet requirements of the nurse practice act

Nurses generate knowledge as a product.

Which statement describes nurses as knowledge workers?

Nurses design and maintain knowledge.

Nurses generate knowledge as a product.

Nurses evolve knowledge based on information.

Nurses provide efficient means of capturing knowledge.

Beginning nurse = Uses information systems to manage patients

Experienced nurse = Pulls trends out of data

Informatics innovator = Generates informatics theory

Informatics nurse specialist = Focuses on nursing's information needs

Match the level of nurse practice with appropriate skill criteria.

Answer options may be used more than once or not at all.

The RN who works in the area of informatics = Informatics nurse

Has an interest or experience, but no formal training in informatics = Informatics nurse

Plays an active role in research and theory development = Informatics nurse specialist

Has advanced graduate training in nursing informatics = Informatics nurse specialist

Ensures that information is disseminated at appropriate times for appropriate uses = Informatics nurse

Label the descriptions as belonging to the role of either the informatics nurse or the informatics nurse specialist.

Answer options may be used more than once or not at all.

The provider can visualize the chest x-ray remotely.

The provider has access to the data being discussed.

A nurse is working on a medical surgical unit and is concerned over a patient's worsening heart failure. The nurse calls the provider to discuss the assessments. How does the electronic medical record facilitate a collaborative discussion in this situation?

Choose 2 answers

The provider can enter new orders remotely.

The provider can visualize the chest x-ray remotely.

The provider has access to the data being discussed.

The primary care past medical record can be reviewed.

Registration system

Laboratory system

Order entry system

What are three types of clinical information systems?

Choose 3 answers

Registration system

Laboratory system

Order entry system

Scheduling system

Monitoring system

Creates a comprehensive record of the patient's medical history

Is unique in the way they function and provide information to clinicians

Collects, processes and distributes patient centered data to manage and provide care

What are common features of the various health information systems?

Choose 3 answers

Physicians only are allowed to enter data

Creates a comprehensive record of the patient's medical history

Are standardized to be exactly the same to allow for continuity of care

Is unique in the way they function and provide information to clinicians

Collects, processes and distributes patient centered data to manage and provide care

Admission, discharge, and transfer system = Administrative Information Systems

Radiology information system = Clinical Information Systems

Financial system = Administrative Information Systems

Clinical documentation system = Clinical Information Systems

Scheduling system = Administrative Information Systems

Match each term with its healthcare information system.

Answer options may be used more than once or not at all.

Administrative Information Systems or Clinical Information Systems

Admission, discharge, and transfer system

Radiology information system

Financial system

Clinical documentation system

Scheduling system

Determine who will be accountable for the project

Determine how resources will be allocated to support the system

Assess potential for process improvement while using the system

Administration in an acute care clinic is considering adopting a health information system. A team is formed with members of clinical areas, software vendors, and an executive team of stakeholders. Which collaborative tasks are important for this team to accomplish with regard to selecting the health information system?

Choose 3 answers

Determine which type of computer to use
Determine who will be accountable for the project
Access patient records to view personal information
Determine how resources will be allocated to support the system
Assess potential for process improvement while using the system
Decrease medication errors
Increase clinic reimbursement
Improve provider documentation
Increase delivery of guideline based care
What are some benefits of using an electronic health record (EHR) system in an ambulatory care clinic?

Choose 4 answers

Decrease medication errors
Increase clinic reimbursement
Improve provider documentation
Increase delivery of guideline based care
Less complicated patient treatment regimens
Authentication = Logical
Placing computers, servers and routers in restricted = Physical
Installing a firewall = Logical
Automatic sign-off = Logical
Setting up surveillance = Physical
Classify the mechanisms as either physical or logical security measures for protecting electronic information.

Answer options may be used more than once or not at all.

Physical or Logical

Authentication
Placing computers, servers and routers in restricted
Installing a firewall
Automatic sign-off
Setting up surveillance
To improve healthcare quality by enhancing coordination of services among providers
What is a principle provision of the Health Information Technology for Economic and Clinical Health (HITECH) Act?

To secure patient confidentiality and security of patient records

To create a universal single-payer healthcare system in the United States

To improve healthcare quality by enhancing coordination of services among providers

To decrease the number of uninsured Americans and reducing the overall costs of healthcare

Report the colleague to their employer

A nurse learns that a colleague has accessed electronically stored health information of a patient that the colleague is not involved in treating. What should the nurse do?

Disregard the incident

Confront the colleague

Report the colleague to their employer

Report the incident to a hospital security guard

Removable storage device

What represents the greatest potential threat to data security?

Hospital system networks

Removable storage device

Data stored on local hard drives

Internet access on hospital computers

Viewing of the digital health record during a home health visit

Which type of technology offers support during the medication administration cycle?

Online chats during nursing conference sessions

Virtual reality exercise involving anchoring a urinary catheter

Viewing of the digital health record during a home health visit

Watching a webcast regarding pathophysiology of renal failure

The information retrieved can be used for research.

It improves compliance with nursing documentation.

Which statements by the nurse demonstrate understanding of the reason for a clinical information system?

Choose 2 answers

The information replaces unit training needs.

The information retrieved can be used for research.

It improves compliance with nursing documentation.
It replaces the need for unit evidenced-based projects.
Provides practice guidelines
Delivers online information retrieval
Issues computerized alerts and reminders
What are the features of a clinical decision support tool?

Choose 3 answers

Offers technical support
Provides practice guidelines
Delivers online information retrieval
Issues computerized alerts and reminders
Provides access to printed policies and procedures
Providing clinicians with knowledge and person-specific information
What is a function of a clinical decision support tool?

Intersecting of computer, information, and nursing science
Educating by research generated evidence of best practices
Creating new understandings generated in research into practice
Providing clinicians with knowledge and person-specific information
Decision support tools
During a crisis, a nurse manager is looking for the written, hospital-wide procedural policy. The nurse is unable to locate it. What can the nurse manager use to solve this issue?

Change agents
Nursing process
Point of care charting
Decision support tools
Computerization of prescriber order entry (CPOE)
Maintenance of active patient medication lists
How does meaningful use of electronic health records (EHR) relate to quality patient care?

Choose 2 answers

Computerization of prescriber order entry (CPOE)
Decreasing the storage of medical files
Maintenance of active patient medication lists
Fosters segregation of care

Decreased recovery time

Timely treatment of potential complications

A patient is in the ICU after a motorcycle accident. The patient sustained multiple contusions and fractures. Various digital monitoring devices are being used to track the patient's vital signs, pulse oximetry, and cardiac rhythm. How can the appropriate use of these technologies impact this patient's outcome?

Choose 2 answers

Prevention of infection

Improved wound healing

Decreased recovery time

Timely treatment of potential complications

It provides observation and documentation of what is happening in the current environment.

A nurse manager identifies several advanced practice nurses at an ICU workstation responding to multiple patient alarms. She notices that the acuity of one patient drastically increases the demand for staff resources. How can workflow analysis impact practice in this situation?

It dictates a protocol approach to review and modify hospital policy.

It provides observation and documentation of what is happening in the current environment.

It provides evidence for development of an online triage program to improve team dynamics.

It involves the upper administration input on proper use of hospital resources in future similar events.

The use of video streaming technology

Transmission of biological data from a remote location

What are two common characteristics of telehealth?

Choose 2 answers

The use of video streaming technology

Hands-on assessments performed remotely

The need for specialized computer knowledge

Transmission of biological data from a remote location

An increase in chronic disease conditions

What is a prominent socioeconomic factor driving telehealth medicine?

An aging urban population

Advanced computer technologies
An increase in chronic disease conditions
An increase in rural access to healthcare
Distant patient education via computer
Which example is a telehealth non-clinical application?

Distant patient education via computer
Monitoring maternal contractions remotely
Utilizing live video feed for remote assessment
Transmitting a radiology image for assessment
An elderly homebound patient is concerned about the palpitations she is feeling. =
Real-time remote monitoring
A nurse is struggling to work full-time in a hospital setting time while completing her Masters. = Online classroom
A cardiologist with a rural office practice has no one to cover his patients when he is away. = Teleconsultants
A family member is unsure what to do for a home hospice patient who is restless and agitated during the night. = Real-time remote Monitoring
Match the situation with the appropriate and effective telecommunication strategy.

Answers options may be used more than once or not at all.

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Real-time remote monitoring, Teleconsultants, Online classroom, or telephony

An elderly homebound patient is concerned about the palpitations she is feeling.
A nurse is struggling to work full-time in a hospital setting time while completing her Masters.
A cardiologist with a rural office practice has no one to cover his patients when he is away.
A family member is unsure what to do for a home hospice patient who is restless and agitated during the night.

ICNP

Which standardized nursing terminology is composed of nursing diagnoses, nursing actions, and nursing outcomes?

NIC

NOC

ICNP

NANDA

Meaningful Use

Which of the following requires standardized nursing terminology to meet its criteria?

HIPAA

Meaningful Use

HITECH Act

The TIGER initiative

Creating economic incentives and policies that providers view as essential to accomplishing their financial and professional goals

What is a challenge to the adoption of eHealth strategies?

Variability in Web access capabilities of health care consumers

Creating economic incentives and policies that providers view as essential to accomplishing their financial and professional goals

Readiness to adopt mechanisms to comply with HIPAA

Difficulty in finding appropriate health care Web site designers

It reduces the time spent on documentation.

What is one way that technology acts as a change agent in the nursing process?

It increases time spent on documentation.

It reduces the time spent on documentation.

It increases the need for advanced degrees for nurses.

It reduces the amount of education required for nurses.

Use of a clinical decision support tool

A nurse receives a computerized alert of a critical lab value on her patient. This computerized alert informs the nurse that an action needs to be taken and provides suggestions for clinical intervention. Which technology did the nurse employ to achieve an enhanced safe practice environment?

Use of clinical guidelines

Use of a clinical information system

Use of a clinical decision support tool

Use of a clinical documentation system

They give timely information to nurses and other healthcare providers.

They reduce waste of nurse's time looking through the medical record.

How can clinical decision support tools lead to safer patient care?

Choose 2 answers

They provide more human resources to assist with patient care.

They give timely information to nurses and other healthcare providers.

They give nurses access to information they would not normally have.
They reduce waste of nurse's time looking through the medical record.

Unencrypted data

Weak passwords

What are common personal data access security threats in healthcare?

Choose 2 answers

Unencrypted data

Weak passwords

Digital charting template

Electronic physician orders

The hospital is implementing a security program to prevent patient data from being compromised.

The hospital is eliminating the need for flash drives to prevent the loss of sensitive data.

You are a nurse manager at a hospital. The informatics department at the hospital has established a no flash drive policy. In addition, all patient files must be saved on the secure O: drive. What would be an appropriate way to describe these changes to your staff?

Choose 2 answers

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The hospital is streamlining staff access to computers to prevent medical mistakes.
The hospital is implementing a security program to prevent patient data from being compromised.

The hospital is eliminating the need for flash drives to prevent the loss of sensitive data.

The hospital has decided nurses do not need sensitive patient data.

Identifying data needs for differing nursing practice specialties

Implementing standardization of documentation across physician offices

A local medical clinic is attempting to develop an electronic health record (EHR) system. Which challenges should the organization anticipate?

Choose 2 answers

Ensuring Internet access when documenting in the EHR

Preparing for increased utilization of patient care services

Identifying data needs for differing nursing practice specialties

Implementing standardization of documentation across physician offices

Bar coded identification cards

What can a nurse, working in a hospital, use to access a patient's electronic health record and prescription drugs from a medication administration system?

- Nursing license
- Bar coded identification cards
- Magnetic strip on driver's license
- Nurse manager's log on information
- Vital signs
- Lab results
- Demographics

What are the essential components of an electronic health record?

Choose 3 answers

- Vital signs
- Lab results
- Demographics
- Name of workplace
- Cost of procedures
- Expected discharge date

It prevents the delay of tests and services.

It allows for easy access to patient information.

An admission nurse is awaiting notification of whether a patient being monitored by telehealth will be admitted to the hospital. The physician has already documented the admission orders in the digital medical record. Due to miscommunication, the admitting nurse did not access the digital medical record. There was a significant delay in the patient's admission, which led to decreased patient satisfaction with the admission process.

How can the use of the digital health record improve this process?

Choose 2 answers

It prevents the delay of tests and services.

It allows for easy access to patient information.

Information is recorded and stored in brief episodes.

The nurse no longer needs to obtain an admission order.

To ensure patient information will be current and accessible to the healthcare team

What is the importance of a nurse's active participation in electronic patient information?

- To identify the roles and titles of nurses across the continuum of care
- To anticipate the educational and professional needs of nurses and staff
- To provide replicate information across the system for the healthcare team
- To ensure patient information will be current and accessible to the healthcare team

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APPLICATION OF TECHNOLOGY Q&A

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1. information literacy: the ability to recognize when information is needed as well as the skills to find, evaluate, and use needed information effectively
2. information: used to describe data that has been interpreted
3. information science: Focus on how to gather, process and transform information into knowledge. It also incorporates features from 5 other sciences
 - communication science
 - computer science
 - social science
 - library science
 - cognitive science
4. clinical practice guidelines: allow for the creation of nursing policies; rooted in evidenced based research
5. CPOE: the name used to describe the process by which the physician or provider enters orders electronically into the HER
6. Radio Frequency Identifier (RFID): a type of technology that is used to identify and track supplies and medications within a healthcare environment
7. Nursing informatics: uses information and technology to communicate, manage knowledge, mitigate error, and support decision making
8. Foundation of Knowledge model. The basis for which knowledge is used to meet the needs of the healthcare delivery system. It is derived from its 3 key elements of knowledge acquisition, knowledge processing and knowledge dissemination
9. Strategic Planning: the development of a comprehensive, long-range plan for guiding the activities and operations of an organization
10. Project Scope: the size and details of a collaborative effort
11. Local area network (LAN) access: the type of connection needed to access the EHR when an internet connection is lost
12. order entry systems: this type of health information system ensures the accuracy of physician orders
13. Health information systems: A group of systems used within the hospital to support and enhance healthcare
14. Perioperative Nursing Data Set (PNDS): Which nursing terminology contains a nursing diagnosis, interventions and outcomes specific to the perioperative experience

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and exchange of clinical data

16. Using the EHR to document care of a patient with a fractured femur is an example of using the EHR in which way?: Information system

17. How can using simulation technology with your patients improve overall outcomes?: By allowing them hands on practice and immediate feedback of the skill being learned

18. Knowledge worker - nurses in this type of role:: Are continuous learners Use technology to support and inform nursing practice
Generate knowledge as a product

19. Characteristics of an experience nurse:: Fully integrate informatics through- out the course of his/her practice, not just for basic data entry and retrieval

Know how to pull trends out of data

20. Characteristics of a beginner nurse:: Uses information systems to manage patients

21. CPOE, Barcode Medication Administration, and Clinical Decision Support are all examples of:: Information Technologies (functions within the informa- tion systems)

22. Clinical pathways and computer-generated care plans (examples of clin- ical decision support) are examples of: how informatics can affect nursing

23. A patient's height, weight, code status, and date of birth are all examples of:: Data

24. Emerging trends in healthcare: Error reduction A push for patient safety
Additional regulatory requirements

25. This is the purpose or reason for an organization's existence: The mission

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understand software and electronic processes:: It can affect success or failure of the project

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They often determine budget allocations

27. Strategic planning is driven by:: Organization's mission and values
Services offered

Long-term goals

28. National trends related to nursing informatics:: Barcode medication administration

CPOE

Clinical decision support tools

29. 4 Phases of the Information system life cycle: Needs assessment phase
- organization performs a gap analysis determining the "needs" and "wants" in an information system

System selection phase - Organization seeks out a vendor company that offers them a system that best fits their needs; RFI (request for information document), RFP (request for proposal), RFQ (request for quote)

System Implementation Phase - go-live planning; training of end-users; execute system changes

Maintenance Phase - problem solving/debugging; backup files; installing system upgrades

30. Why is the nurse's active participation in electronic patient information important?: To ensure the information is current and accessible to the healthcare team

31. Responsibilities of the project implementation team:: Knowledge of current workflows

Active involvement in user

participation Execution of system changes

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document includes:: Company history

33. Essential component of the EHR:: Evidence-based decision support

Assessment findings

Patient demographics

Vital signs

34. Function of EHR: Barcode Medication Administration

35. Benefits to using the EHR:: Reduces medication

error Improves provider documentation

Provide patient support (patient education material such as reducing sodium intake)

36. Primary goal of EHR functionality in contrast to that of a health information system:: To promote patient safety

37. Health information systems is an umbrella term that incorporates the following:: Administrative Information Systems (Registration system, financial system, scheduling systems)

Clinical Information Systems (laboratory systems, pharmacy systems, clinical documentation systems [EHR])

38. Potential challenges that can occur when implementing an EHR throughout a medical center with various outpatient clinics::

Standardization of data/different data needs for each outpatient clinic

39. How does the EHR help patients receive quality care when going from one facility to another?: By providing continuity of care, it allows healthcare professionals to see what the patient has been receiving, thereby providing the appropriate treatment

40. Which 2 items could the RN use to access a patient's meds from a medication administration system such as a Pyxis?: Barcoded ID card/employee badge

Biometrics such as a fingerprint

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system (admission, discharge, transfer)

42. Why is it important to secure staff nurses active participation when implementing a health information system?: Nurses' knowledge of current patient care workflow may improve implementation decisions

43. Why are standardized terminologies important to nursing: They improve communication among interdisciplinary teams

44. The development of Standardized Terminologies in Nursing Informatics is driven by the following principles:: Accessibility

Ubiquity (can be applied and available wherever needed) Longevity

Reusability

45. Why is it important that departments collaborate with one another when selecting a health information system?: Collaboration leads to knowledge sharing

46. Clinical information systems are effective for all of the following:: The information retrieved can be used to foster research

It can improve clinician workflow

Improves nursing documentation compliance

47. Financial systems are designed to:: Manage the expenses and revenue of providing healthcare

Report and track fiscal outcomes as they relate to organizational goals

Help to determine the organization's strategic decision

48. What challenge might an organization face when trying to implement a health information system throughout their various specialty clinics::

Identifying the different data needs for each specialty practice

49. Clinical decision support examples:: Pop ups within an

EHR Computer generated care plans

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Smart infusion pumps (have built in library; locks out when wrong calculation is entered)

Clinical pathways (very common within post-op patients) Electronic drug references

50. Organization's culture of safety:: Being a commitment of resources (organization has provided you with training, tools, technology, to properly treat patient)

Cross-collaboration (continuously collaborating with other healthcare workers; cross-monitoring [double nurse check off, like insulin])

Blame-free environment (if errors occur, we can use these as a teaching opportunity)

51. Information Security: Greatest threats for data security = unauthorized personnel getting access to equipment; use of removable storage devices (flash drive)

52. 2 governing authorities that govern nurses to protect patient information-

: HIPAA

ANA Code of Ethics

53. Physical ways to protect patient information:: Surveillance cameras Use of restricted areas

Shredding hard copies of material

54. Logical ways to protect patient information: Installing firewalls Use of biometrics (scanning fingerprints)

Authentication (user-specific passwords)

Automatic sign-off

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location to another; used a lot of times with pathology reports and radiology images

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areas) Continuity of care (telemonitoring)

Ratio of patients to available providers (tele consultants)

Increase in chronic diseases (needing to be managed 24/7)

57. Ethical and legal implications with telehealth: Telehealth nurses need to keep extensive documentation on a visit

Nurses need to be licensed in every state that they practice telehealth

58. Clinical applications in telehealth:: Transmitting a chest xray to be read (store and forward technology)

Mobile device to monitor

patient Live video conferencing

59. Non-clinical applications in telehealth:: Research using online database Professional development online

Administrative meeting using live video conferencing

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