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CPHIMS Exam Questions and Answers With Explanations (2023 – 2024) 100% Correct

Which of the following functions are typically performed by a health information management professional?

1. Diagnosis and procedure coding
2. System implementation
3. Content retention
4. record administration - ANSWER: 1, 3, and 4 only

Item #3, system implementation, typically involves hardware, software, network and training. This would not be performed by a health information management professional.

A CIO is hearing from staff members that the team needs additional resources to be successful with maintaining all of the organization's current systems. The MOST appropriate first step for the CIO would be to:

- A. poll each member to understand their thoughts on what skill sets and abilities are needed from the new hires.
- B. review performance indicators and service metrics along with organizational perception of the team's effectiveness
- C. adjust the departmental budget to allow for the h - ANSWER: B. review performance indicators and service metrics along with organizational perception of the team's effectiveness.

The review of performance indicators, service metrics, and customer satisfaction validates the staff's concerns.

At which of the following care settings should a large, orthopedic healthcare organization anticipate the highest volume of postoperative patient services?

1. urgent care
 2. rehabilitation
 3. assisted-living
 4. home health
- A. 1 and 3 only
 - B. 1 and 4 only
 - C. 2 and 3 only
 - D. 2 and 4 only - ANSWER: D. 2 and 4 only

A rehabilitation center's (#2) primary service is therapies designed to restore functioning to patients following orthopedic surgery which means a large number of

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HIMSS Certified Professional in Healthcare Information and Management

Systems Sample Questions (Q29-Q34):

NEW QUESTION # 29

The MOST significant outcome of achieving interoperability of medical devices is

- A. regulatory compliance.
- **B. patient safety.**
- C. optimal workflow.
- D. reduced data errors.

Answer: B

Explanation:

The most significant outcome of achieving interoperability of medical devices is patient safety. When devices such as infusion pumps, ventilators, cardiac monitors, and anesthesia machines are interoperable with clinical information systems (e.g., EHRs), data flows automatically and accurately between systems. This reduces the need for manual transcription of vital signs, medication rates, and device settings—thereby minimizing transcription errors, omissions, and delays in documentation.

While reduced data errors (option B) is a direct and measurable benefit, it ultimately supports the broader and more critical goal of protecting patients from harm. For example, real-time device integration allows clinicians to see accurate, up-to-date physiologic data, supports clinical decision support alerts (e.g., unsafe infusion parameters), and improves alarm management. These capabilities directly influence timely interventions and prevention of adverse events.

Optimal workflow (option A) is also improved through automation, and regulatory compliance (option C) may be facilitated through accurate documentation and audit trails; however, these are secondary benefits. In healthcare technology strategy and informatics practice, improvements are evaluated primarily by their impact on safety and quality of care. Therefore, patient safety is the most significant outcome of medical device interoperability.

NEW QUESTION # 30

Clinical guidelines, data flow sheets, documentation templates, alerts, and reminders can be found in a

- **A. Clinical Decision Support System**
- B. Uniform Data System
- C. Clinical Data Repository System
- D. Health Information Exchange System

Answer: A

Explanation:

A Clinical Decision Support System (CDSS) is designed to deliver knowledge and patient-specific information to clinicians and staff at appropriate times to enhance decision-making and standardize care. The items listed—clinical guidelines, data flow sheets, documentation templates, alerts, and reminders—are hallmark CDSS capabilities because they operationalize evidence-based practice and workflow support directly within clinical processes. Guidelines and protocols can be embedded as order sets, pathways, and standardized documentation tools. Flow sheets and templates structure data capture so clinicians document consistently and can trend key measures over time (e.g., vitals, intake/output, pain scores, ventilator settings).

Alerts and reminders provide real-time prompts for safety and quality (e.g., allergy checking, drug-drug interactions, overdue preventive screenings, abnormal results follow-up).

By contrast, a Health Information Exchange (HIE) focuses on sharing data across organizations, not generating point-of-care guidance and alerts. A Clinical Data Repository (CDR) stores and aggregates clinical data for reporting and analytics; it may feed CDSS logic but is not where end-user alerts/templates are

"found" as a functional toolset. "Uniform Data System" is not the standard system used for these bedside clinical guidance functions. Therefore, the correct answer is Clinical Decision Support System.

NEW QUESTION # 31

What public health benefit can be derived from data collected from social media and internet search engines?

- A. Improved statistical analysis.
- **B. The revelation of associations and patterns.**
- C. Increased data visualization.
- D. The discovery of semi-structured and structured data types.

Answer: B

Explanation:

Data from social media and internet search engines can provide a public health benefit through the revelation of associations and patterns (Option D). These data sources are often high-volume, rapidly generated, and reflective of real-time behaviors—such as symptom searching, discussions of illness, medication side effects, or concerns about local outbreaks. When analyzed appropriately, they can help identify emerging trends, detect unusual clusters of symptoms, and signal potential outbreaks earlier than traditional reporting pathways that depend on clinical visits, laboratory confirmation, and formal case reporting. Pattern and association discovery is a core capability of analytics and informatics: mining large datasets to find relationships (e.g., increases in searches for "fever and cough" correlated with rising influenza-like illness) and temporal/geographic trends that support situational awareness and targeted interventions.

The other options are less directly tied to a public health "benefit." Data visualization (A) and statistical analysis (B) are methods that can be applied to many datasets but do not describe the specific actionable value derived from these unconventional sources. Discovering data types (C) is a technical characterization and not a direct public health outcome. In contrast, identifying patterns and associations can inform earlier surveillance, resource planning, risk communication, and focused prevention strategies—making D the best answer.

NEW QUESTION # 32

Data mining

- A. reveals trends, patterns, and relationships that might otherwise have gone undetected.
- B. creates a simulation model of a working process or function.
- C. uses the scientific method to predict future outcomes.
- D. enables the storage of vast amounts of dissimilar data.

Answer: A

Explanation:

Data mining refers to the analytical process of examining large datasets to discover hidden patterns, correlations, trends, and relationships that are not immediately apparent through routine reporting. In healthcare information and systems management, data mining plays a critical role in transforming raw clinical, financial, operational, and administrative data into actionable knowledge. Using statistical algorithms, machine learning techniques, clustering, classification, association rule discovery, and predictive modeling, healthcare organizations can uncover insights such as risk factors for readmissions, patterns of medication utilization, disease prevalence trends, fraud detection indicators, and workflow inefficiencies.

Option A describes simulation modeling, which is a different analytical method used to replicate processes for testing scenarios.

Option B refers to data warehousing or database management systems, which focus on storage rather than analysis. Option C more closely aligns with predictive analytics or formal research methodology, not specifically data mining itself.

Within healthcare IT governance and HIMSS-aligned informatics principles, data mining supports evidence-based decision-making, quality improvement initiatives, population health management, and strategic planning. By revealing previously undetected relationships in large datasets, healthcare leaders can improve patient outcomes, enhance operational efficiency, reduce costs, and support regulatory reporting requirements.

NEW QUESTION # 33

The infection control report indicates that the number of bloodstream infections this month has decreased.

This information is best displayed using a

- A. Spider chart.
- B. Flow chart.
- C. PERT chart.
- D. Control chart.

Answer: D

Explanation:

A control chart is the best display for showing that bloodstream infections have decreased because it is designed to track a measure over time and distinguish normal process variation from meaningful change. In infection prevention and quality management, bloodstream infection counts or rates are monitored monthly to determine whether improvement interventions (e.g., central-line bundles, hand hygiene reinforcement, standardized insertion checklists) are producing a sustained effect. A control chart plots the data sequentially and adds a center line (process average) along with statistically derived upper and lower control limits. This

structure helps leaders and clinical teams see whether the observed decrease represents special-cause variation (a real shift in performance) versus random fluctuation that can occur in any process.

A PERT chart is used for project scheduling and task dependencies, not for outcome trends. A spider (radar) chart compares multiple dimensions at one time point and is not optimal for time-series infection surveillance.

A flow chart maps process steps (e.g., line insertion workflow) and is useful for understanding how work occurs, but it does not display performance trends. Therefore, when the goal is to communicate a reduction in infections and assess whether the change is stable and significant, the control chart is the most appropriate tool.

NEW QUESTION # 34

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