Adaptive Health Management Information Systems 4th edition Tan Test Bank

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Chapter: Chapter 02 - Quiz

Multiple Choice

1. In precision medicine, providers seek to alter the course of disease using knowledge of:
A) basic biometrics.
B) general molecular and genetic alterations.
C) biochemical concentrations in the body.
D) ethnic groups.
Ans: B
Complexity: Difficult
Ahead: Introduction
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

2. Knowledge of which of the following is part of the data used in PM?
A) Geographic location
B) Ethnic history
C) Smoking history
D) Gene activity
Ans: D
Complexity: Moderate
Ahead: Background: What Is PM?
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

3. A patient who has a mutation in a key cancer gene, compared to other family members, displays:
A) variant calling.
B) gene expression.
C) a phenotype.
D) no useful difference.
Ans: A
Complexity: Difficult
Ahead: Key Events in the History of PM
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

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4. Which part of PM least revolves around the work of a medical professional?
A) Patient self-reporting
B) IoT
C) Wearable devices
D) Smart phones
Ans: A
Complexity: Difficult
Ahead: Current Perspective
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

5. Which of the following has recently arisen in conjunction with PM?
A) Large private databases
B) Increased availability of nursing
C) Younger patient populations
D) Fewer foreign-born doctors in the United States
Ans: A
Complexity: Moderate
Ahead: Current Perspective
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

6. An example of a genomic atlas is:
A) TCGA.
B) EKG.
C) MPS.
D) the Human Genome Project.
Ans: A
Complexity: Easy
Ahead: Current Perspective
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

7. Clinical trials organized around molecular information:
A) have a long history.
B) are a recent phenomenon.
C) cannot be funded by the government.
D) require state permits.
Ans: B
Complexity: Moderate
Ahead: Current Perspectives
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8. Which phase of a molecular clinical trial would test how much of an RNA-based therapy to give a patient?
A) Phase 1
B) Phase 2
C) Phase 3
D) Post-trial testing
Ans: A
Complexity: Difficult
Ahead: Current Perspectives
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

9. A patient with a tumor consisting of only one type of skin cancer cell might participate in a(n):
A) basket trial.
B) state trial.
C) umbrella trial.
D) baseline trial.
Ans: C
Complexity: Difficult
Ahead: Current Perspectives
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

10. When did the NRC lay out the taxonomy for molecular diseases?
A) 2000
B) 2003
C) 2009
D) 2013
Ans: D
Complexity: Easy
Ahead: Future Trends
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

11. In the United States, how are EHRs services provided?
A) By each hospital
B) By a few large companies
C) By states
D) By overseas providers
Ans: B
Complexity: Moderate
Ahead: Future Trends
Subject: Chapter 2
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12. A common data model for IS/IT requires:
A) a multistate compact for data sharing.
B) a common dictionary of terms.

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C) a legal framework.
D) the participation of professional groups for nurses.
Ans: B
Complexity: Easy
Ahead: Future Trends
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

True/False

1. True or False? The current model for diagnosis is the P4 model.
Ans: True
Complexity: Easy
Ahead: Scoping the HMIS Field: A Digital Health Ecosystem Perspective
Subject: Chapter 2
Title: Background: What Is PM?

2. True or False? A hospital that lacks molecular testing lacks the ability to practice PM.
Ans: True
Complexity: Moderate
Ahead: Key Events in the History of PM
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

3. True or False? MPS has greatly accelerated the pace of sequencing today as compared to the pace in 1990–2000.
Ans: True
Complexity: Moderate
Ahead: Key Events in the History of PM
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

4. True or False? A basket trial can include multiple tumor types.
Ans: True
Complexity: Easy
Ahead: Current Perspectives
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

5. True or False? The key to conducting PM is to group large amounts of data to look for subgroups and patterns.
Ans: True
Complexity: Moderate
Ahead: Future Trends

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Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

6. True or False? A patient whose participation in a clinical trial requires use of a wearable device that creates non-anonymized data presents serious issues for HIPAA compliance.
Ans: True
Complexity: Difficult
Ahead: Future Trends
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

7. True or False? A patient being treated for breast cancer using PM as a paradigm would need to see a range of specialists for a wide range of comparative data to be collected.
Ans: True
Complexity: Moderate
Ahead: Future Trends
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

8. True or False? In a sense, a patient who is the only worldwide sufferer of a particular disease cannot be treated using PM.
Ans: True
Complexity: Difficult
Ahead: Future Trends
Subject: Chapter 2
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9. True or False? A healthcare database containing data on middle-class residents of the Middle Atlantic states is of somewhat limited value in PM.
Ans: True
Complexity: Moderate
Ahead: Future Trends
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

10. True or False? The home genealogy DNA tests that are now commonly available have a potential role in PM.
Ans: True
Complexity: Moderate
Ahead: Future Trends
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11. True or False? One lesson of precision medicine is that diseases that were once treated identically from patient to patient may now be treated very differently in different patients.
Ans: True
Complexity: Moderate
Ahead: Future Trends
Subject: Chapter 2
Title: Precision Medicine: Decoding the Biology of Health and Disease

Short Answer

1. The information in DNA must flow through _____ before it can become the information in a protein.
Ans: RNA
Complexity: Moderate
Ahead: Key Events in the History of PM
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2. IDH1 is a mutation commonly associated with _____.
Ans: brain tumors
Complexity: Moderate
Ahead: Current Perspectives
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