

Neoplasia Pathogenesis and Causes

Oncology · Practice Test · 10 Questions

1. What is a primary cause of neoplasia mentioned in the text?

- A) Bacterial infections
- B) Spontaneous genetic mutations
- C) Nutritional deficiencies
- D) Hormonal imbalances

2. UV radiation can lead to neoplasia by causing what type of damage?

- A) Protein denaturation
- B) Lipid peroxidation
- C) DNA damage
- D) Carbohydrate breakdown

3. What cellular repair mechanism can correct genetic mutations if the cell survives?

- A) Apoptosis
- B) The repair mechanism
- C) Cellular division
- D) Immunological surveillance

4. When do body mechanisms like NK and CTL cells fail to prevent neoplasia?

- A) When mutations are minor
- B) When the cell survives damage and mutations occur
- C) When the immune system is overactive
- D) When cells have no genetic mutations

5. Mutations that can lead to uncontrolled cell growth often occur in which types of genes?

- A) Mitochondrial genes
- B) Ribosomal genes
- C) Proto-oncogenes and regulatory genes
- D) Histone genes

6. What is a specific type of DNA damage caused by UV radiation mentioned?

- A) Single-strand breaks
- B) Double-strand breaks
- C) Generation of pyrimidine dimers
- D) Cross-linking of DNA strands

7. What can occur in transcription if there are errors?

- A) Protein synthesis acceleration
- B) Transcription errors
- C) DNA replication enhancement
- D) RNA degradation

8. What is a challenge when distinguishing between radiation and chemical carcinogens?

- A) Their detection methods are too similar
- B) Their effects on cells can be difficult to differentiate
- C) Both are naturally occurring in the body
- D) Their molecular structures are identical

9. What is the term for cells that have undergone transformation leading to neoplasia?

- A) Normal cells
- B) Differentiated cells
- C) Transformed cells
- D) Stem cells

10. The failure to repair DNA damage can lead to what?

- A) Cellular dormancy
- B) Apoptosis
- C) Neoplastic transformation
- D) Increased cell differentiation