



Scientific team

<1> A 20-year-old man is involved in a motor vehicle accident which results in multiple blunt trauma and lacerations to his lower extremities. The left femoral artery is lacerated, and he incurs extensive blood loss and patient remains hypotensive for hours and his hemoglobin drop dramatically due to the blood loss. Which of the following tissues is most likely to withstand the impact of these events with the least damage?

- A-Skeletal muscle
- B-Intestinal epithelium C-Retina
- D-Brain
- E-cardiac myocytes

Answer: A

2>A 45-year-old man has a traumatic injury to his forearm and incurs extensive blood loss. On physical examination in the emergency department, his blood pressure is 70/30 mm Hg.

Which of the following cellular changes is most likely to represent irreversible cellular injury as a result of this injury?

- A-Epithelial dysplasia
- B-Cytoplasmic blunting
- C-Swelling of mitochondria
- D-Atrophy
- E-Nuclear pyknosis

Answer: E

<3> Choose the Correct answer regarding Hypertrophy:

- A-occurs after partial hepatectomy.
- B-increases function of an organ exponentially.
- C-is triggered by mechanical and trophic chemicals.
- D-Occurs after denervation
- E-It is always pathological

Answer: C



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<4> Regarding Accumulation of intracellular substance all the following statements are Correct EXCEPT:

A-Russel body is an accumulations of synthesized immunoglobulines in the RER of atypical and neoplastic plasma cells seen in multiple myeloma.

B- Mallory bodies are inclusions composed predominantly of aggregated intermediate filaments that resist degradation seen in alcoholic liver disease.

C-In poorly controlled diabetes mellitus , glycogen Accumulates in renal tubular epithelium and cardiac myocytes.

D- Dystrophic calcification is deposition of calcium salt in normal tissue in patient with hypercalcemia , as in TB caseous necrosis .

E-Hemosiderosis is a condition characterized by systemic overload of iron, with hemosiderin deposited

Answer: D

<5>Most forms of pathologic hyperplasia are caused by excessive hormonal stimulation or growth factors acting on target cells. If a patient had hyperplasia of the endometrium, which of the following is the most likely?

A- Increased risk of miscarriage (abortion) B-Decreased risk of miscarriage (abortion)

C-Increased risk of endometrial cancer D- No risk of endometrial cancer

E-Increased risk of neurologic disease

Answer: C

<6>Patient presented with hepatitis (Viral infection of liver cells ) , which one of the following intracellular enzymes leaking from necrotic cells and Increases in the blood of this patient?

A-Creatine kinase B-Troponin

C-lipase

D-Transaminase (GOT and GPT)

[E-Cytochrome C

Answer: D