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**CELL INJURY**

**1 Cell injury**

- a. Is characterized by increased oxidative phosphorylation – decreased -> anaerobic glycolysis
- b. Results in efflux of calcium from the cell – influx and release of mitochondrial
- c. May result in free radical induced damage – may result from, or cause it...
- d. May be increased by enzymes such as catalase – catalase is free radical scavenger H<sub>2</sub>O<sub>2</sub> -> H<sub>2</sub>O and O<sub>2</sub>
- e. Results in increased membrane phospholipid – loss of

**2. Tissue**

- a. Hypertrophy is characterized by increased numbers of cells
- b. Hyperplasia is characterized by increased size of cells
- c. Necrosis is always pathological - true
- d. Response to injury may involve apoptosis, which is never a normal response
- e. Reperfusion after ischaemia never results in full cell recovery

**3. Hypertrophy**

- a. occurs after partial hepatectomy - hyperplasia
- b. increases function of an organ exponentially
- c. is triggered by mechanical and trophic chemicals - true
- d. occurs after denervation - atrophy
- e. is usually pathological

**4. All of the following are features of apoptosis EXCEPT:**

- a. Cell swelling - shrinkage
- b. Chromatin condensation
- c. Formation of cytoplasmic blebs
- d. Lack of inflammation
- e. Phagocytosis of apoptotic bodies

**5. Dystrophic calcification**

- a. Is formed only in coagulative necrosis – occurs in atherosclerosis, damaged heart valves and areas of necrosis (coagulative, liquefactive and caseous)
- b. Does not occur on heart valves
- c. Rarely causes dysfunction
- d. Is rarely found on mitochondria – initiation of intracellular calcification occurs in mitochondrial of dead or dying cells
- e. Is formed by crystalline calcium phosphate mineral – similar to bone hydroxyapatite

**6. Irreversible cell injury is characterized by**

- a. Dispersion of ribosomes
- b. Cell swelling
- c. Nuclear chromatin clumping
- d. Lysosomal rupture
- e. Cell membrane defects – characterized by mitochondrial dysfunction and profound disturbances in membrane function

**7. Metaplasia**

- a. Can be caused by vitamin B12 deficiency – Vit A (retinoic acid)
- b. Preserves mucus secretion in the respiratory tract – will affect b/c loss of mucous production and ciliary action
- c. Is typically an irreversible process
- d. Is the process that occurs in Barrett's oesophagitis - squamous -> columnar
- e. Is an increase in the number and size of cells in a tissue

**8. Which of the following is not associated with atrophy**

- a. Decreased smooth endoplasmic reticulum
- b. Decreased rough endoplasmic reticulum
- c. ?
- d. ?





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