A Young man of 40 years suffered with acute hypoxic attack and rushed to hospital emergency where with in no time he gets treatment and oxygen perfusion. He recovered and his laboratory diagnostic tests are of normal base line.

- A- What is the type of this injury?
- B- What are various cause of cell injury?
- C- What are morphological changes of reversible injury?.

(These changes are appreciated by viewing this image.)



Hypoxia, physical agent. Chemical and drugs, intections agent. Reversible type of injury fok, 1/5

Cellular swelling b- plasma membrane alice alico a comproblemental changes immunological factors, genetic derangements and municipal installance d- dilatation of ER.

Montin Tel Plasma m 6.54-year-old man with a chronic cough has a squamous cell carcinoma diagnosed in his state that the bilar lyn diagnosed in his right lung. On examination, it was notes that the hilar lymph nodes are small of the hilar lymph. nodes are small, 0.5 to 1.0 cm in size, and jet black in color throughout.

A. What is most likely diagnosis

Anghorosis.

B. What are pigments.

C. What are endogenous type of pigments. His Wes

KEY:-

ANTHRACOSIS

■ Pigments of the Body.

■ They are the coloring substance deposited in the tissue

A. ENDOGENOUS PIGMENTS

- 1. Melanin
- 2. Melanin-like pigment :
- a. Alkaptonuria
- b. Dubin-Johnson syndrome
 - 3. Haemoprotein-derived pigments
- i) Haemosiderin
- ii) Acid haematin (Haemozoin)
- c. Bilirubin
- 4. Lipofuscin (Wear and tear pigment).

 Lipofuscion d. Porphyrins

An obese man of 45 years having the habit of alcohol-drinking have abnormal liver function tests with raised in ALT, AST and gamma gt and also high cholesterol level.



Q-

- A- BY correlating the picture above with his laboratory tests what is most likely lesion
- B-What are main causes of this lesion
- C- What will be the microscopic finding of his liver biopsy

Fatty change of liver Definition;

Fatty change refers to any abnormal accumulation of triglycerides within parenchymal cells.

liver, most common site heart, skeletal muscle, kidney, and other organs

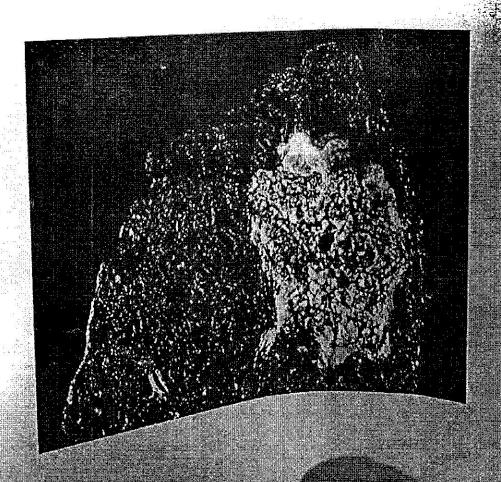
Causes of fatty change

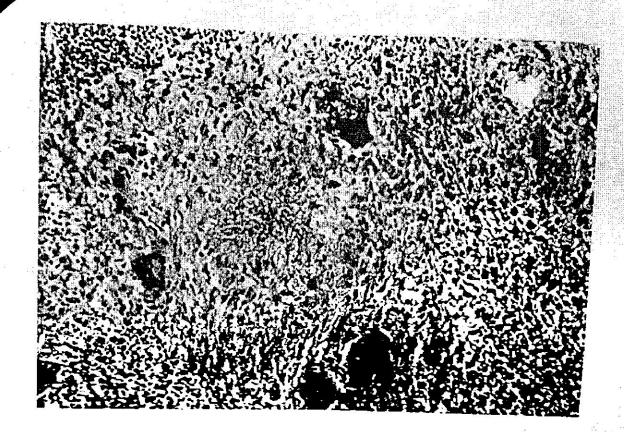
- oxins (most importantly: Alcohol abuse)
- EDM (2)
- Protein malnutrition (starvation)
- Obesity (1)
- Anoxia Toxins (most importantly: Alcohol abuse)
- DM
- Protein malnutrition (starvation)
- Obesity
- Anoxia

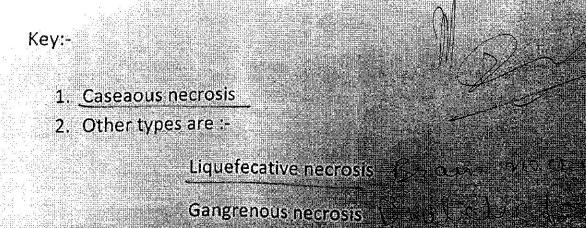
A 65 years old man having productive cough with low grade fever at evening time with loss of weight and his chest X-ray reveals apical opacity. His Biopsy report shows structures less eosinophilis material with epithelioid cells and multinucleated giant cells.

- 1. What is the name of necrosis?
- 2. What are others various forms of necrosis?

vote - can be appreciated by looking at these images)







Coagulative necrosis

Fat necrosis.

Pour choose

Brost