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A child of 5 months old died of pneumonia. While macroscopic examination it was found an oblique slant of palpebral fissures, falling back dorsum of nose, high disposition of palate, low disposition of small auricle, and while autopsy – heart and great vessels development defect. While genetic examination it was found a trisomy behind the 21st pair of autochromosome. Which of the following diagnosis is the most trustworthy?

- + Down's disease;
- Patau's syndrome;
- Turner's syndrome;
- Edwards' syndrome.

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While examining a tissue sampling of the sick who suffered of allergic angitis it was found: side of the vessels is thickened, homogeneous coloured yellow by picrofucsin. What pathological process developed in the side of the vessels?

- + fibrinogenous swelling
- amiloidosis
- mucous swelling
- hyalinosis
- lipoidosis

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While examining an extracted stomach the doctor found out in the antral section on the lesser curvature of stomach a deep defect, which reached muscular layer, 1.5cm in diameter, rounded, with even edges, on the floor of the defect semi-transparent dense area is determined, which looked like hyaline gristle. What process developed in they stomach on the floor of the defect?

- + local hyalinosis
- amiloidosis
- mucous swelling
- fibrinogenous swelling
- general hyalinosis

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While external examination of the newborn evident changes of all coverlets were found. The skin is dry, dull, with uneven surface and with they presence of grey exfoliating plates. With what kind of dystrophy are these changes connected?

- + keratinization
- hydroptic
- hyaline
- fibrinogenous swelling
- mucous swelling

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The sick who suffered of tuberculosis. In the biopsy material, while histological study, in the focus of caseous necrosis small rambling kernels of chromatin were revealed. What caused the following changes?

- + karyorrhexis
- carrhyolysis
- nuclei piknosis
- mitotic activity of nucleus
- apoptosis

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The sick in the phlegm and biopsy material of the lungs had cells with intracellular brown granules, which gave positive reaction on the iron. Development of what process serves the presence of brown granules in cytoplasm?

- + phagocytosis
- macropynocytosis
- micropynocytosis
- apoptosis
- resorption

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Woman, 36 years old, who suffered of diphtheria, died of acute impaired cardial function. On postmortem examination heart cavities are dilated, heart muscle is dull, with yellowish areas on the incision. What process is revealed in cardiac hystiocyte?

- + fatty degeneration
- carbohydrate degeneration
 - ballooning degeneration
 - hyaline degeneration
- hydroptic degeneration

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A man suffered of pancreatic diabetes for 15 years, died of cerebral haemorrhage. On the postmortal examination kidneys are reduced in size, surface is small-granulated. Tubules epithelium of distal segment is high, with light foamy cytoplasm, while colouring carmine Best и ШИК-реакции is of ruby colour. Changes in epithelium are determined by presence of:

- + glycogen
- lipid
- hyalin
- protein
- amyloid

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While electronic-microscopical examination of liver biopsy material it is found that between numerous mitochondrium there is a large number of plane cisterns and vesicles with secretory granules, walls of which are made of membranes. Hyperplasia of what composing ultrastructure is it?

- + Golgi apparatus
- pinocytic vesicles
- endoplasmatic reticulum
- lysosome
- microtubules

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The woman, 45 years old, died of chronic alcoholic intoxication. On the autopsy it was found, that the liver is sharply enlarged, yellowish and paste-like in form. Microscopically in cytoplasm of hepatocytes, while colouring by hematoxylin and eosin, different in size optically empty vacuoles were revealed. What kind of degeneration is it?

- + parenchymatous fatty degeneration
- carbohydrate parenchymatous degeneration
- hyaline degeneration
- mesenchimal degeneration
- hydropic degeneration

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While ultrastructural study of biopsy material it is ascertained, that in cytoplasm of macrophage, which is a part of inflammation infiltration, appears to be considerable increase of lisosom number. Evidence of what is it?

- + phagocytosis activation
- proliferative cell activity
- slowing-down of phagocytosis
- apoptosis activation
- slowing-down of apoptosis

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Severe intoxication of woman, determined by sepsis, was the direct cause of her death. On the postmortal examination the "tiger heart" was found. Microscopically in cytoplasm of cardiomyocytes lipids were detected. What morphogenetic mechanism of development does mainly underlie in this dystrophy?

- + decomposition
- infiltration
- transformation
- perverted synthesis

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The girl of 18 years old got a sharp pain while swallowing, lymphadenopathy of the neck, rise in temperature till 39 degrees. On the mucous tunic of the tonsils there are white-yellow pellicles, which are difficult to come off, with defect formation. The condition was progressively becoming worse. The sick died on the eighth day of the illness, with increasing effects of impaired cardial function. What histological changes in cardiomyocytes most likely will be revealed?

- + fatty degeneration
- hydropic degeneration
- hyaline degeneration
- ballooning degeneration
- mucous degeneration

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A man, 45 years old died of sudden cardiac arrest. Symmetric type of obesity of the 3rd degree, wall rupture of the right ventricle of heart with hemopericardium were found; there are surplus fat depositions under the epicardium. Microscopically: adipose tissue from epicardium extends to myocardosis with atrophy of muscle fibers. What process is the most probable?

- + fatty heart
- fatty miocardosis

- acute myocardium infection
 - ischemic heart disease
 - essential hypertension
- ?

A man, 45 years old, died of sudden cardiac arrest. Symmetric type of obesity of the 3rd type, breach of wall of the right ventricle of heart with homopericardium was found; there was surplus fat accumulation under the epicardium. Microscopically: fatty tissue from epicardium penetrated to the myocardosis with atrophy of muscle fibers. Point, what of the pathological processes named above is the most trustworthy?

- + ordinary heart obesity
- fatty degeneration of myocardosis
- ischemic heart disease
- essential hypertension
- acute myocardium infarction

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The sick of stomach cancer with lots of metastases died of cancer cachexy. Define typical changes of the heart, which were found on the postmortal examination:

- + brown atrophy of myocardium
- amyloid megalocardia
- dilated cardiomyopathy
- "tiger heart"

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The sick S. suffered of chronic alcoholism and cirrhosis. Profuse hemorrhage developed from varicose veins of gullet, as the result patient died. On the autopsy liver is small-hilly, reduced in size, dense and yellowish. While histological examination of cryostatic liver sections (coloured by hematoxylin and eosin) in hepatocytes can be seen large optically hollow vacuoles, in which there is a substance coloured in black while using osmium acid. Optically hollow vacuoles of hepatocytes are:

- + large dropsical fatty degeneration
- pseudo vacuoles of hyaloplasm
- alcohol hyaline (Mallory corpuscles)
- vacuole and hydropic degeneration
- inclusions of hyaline

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While postmortal examination of an elderly man's corpse a little reduced spleen of pale –rosy colour was found. While microscopical examination follicles are reduced, wall of arterioles and trabecules are thickened and are presented by homogeneous eosinophilic ШИК-ПОЗИТИВНЫМИ masses. While additional colouring by jod-grun masses are coloured in green. Such changes testify of existence of:

- + hyalinosis
- amyloidosis
- mucous swelling
- fibrinous swelling
- sclerosis (fibrosis)

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The sick died of cardiopulmonary insufficiency. On the postmortal examination sharply enlarged anemic paste-like yellow liver was found. While colouring with hematoxylin and eosin different in size vacuoles in cytoplasm of hepatocytes were found. What degeneration is this?

- + parenchymale degeneration
- carbohydrate parenchymale
- hyaline
- mesenchimal
- hydropic

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On the postmortal examination of the man's (62 years old) body, which died with symptoms of progressing cardiac insufficiency, enlarged heart was found. Heart is slack, heart chambers are stretched, myocardium on the section is dull, yellow. From the side of endocardium yellow-white banding, strongly pronounced in papillary muscles can be noticed. What pathological process is the most probable?

- + fatty myocardium degeneration
- fatty heart
- dilated cardiomyopathy
- myomalacia
- cardiosclerosis

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While postmortal examination of the woman's corps, which died with the symptoms of impaired cardial function, heart is enlarged, slack, myocardium is loamy-yellow, dull; from the side of endocardium one can see yellow-white banding (tiger heart). Microscopically: in groups of cardiomyocytes there is no transversal banding, in cytoplasm of cardiomyocytes there are small drops, which are coloured by Sudan-IV in black. Your diagnose?

- + fatty myocardium degeneration
- cardiosclerosis
- rheumatic myocarditis
- fatty heart
- myomalacia

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The sick had had peritonitis 10 years before death. On the postmortal examination liver and spleen capsules here and there are sharply thickened, dense and semi-transparent. It is probably:

- + hyalinosis
- necrosis
- mucous swelling
- fibrinogenous swelling
- amiloidosis

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The child got the diagnose of faucial diphtheria in clinic. He died of acute impaired cardial function. On the postmortal examination it was found that heart cavity is dilated in diameter. Heart muscle is dull, slack, many-coloured with yellow areas on the section. In cytoplasm of some cardyomiocytes with cytoplasm preserved there are small vacuoles. On the frozen sections vacuoles are coloured by Sudan III in orange. What kind of degeneration is revealed in cardyomiocytes?

- + fatty
- carbohydrate
- hyaline
- hydropic

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The dead who died of chronic impaired cardial function on the postmortal examination "tiger heart" was found. From the side of endocardium one can see yellowish-white banding, myocardium is dull, loamy-yellow. What process determined this pathology?

- + parenchymatous fatty degeneration
- carbohydrate degeneration
- hyaline degeneration
- amiloidosis

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A man, 70 years old, entered the hospital with pain in small joints of arms and legs. Joints are misshapen and painful. Higher level of uric acid salts in blood and urine was found. What dysbolism is it?

- + nucleoprotein
- calcium
- chromoproteids
- lipoproteids
- potassium

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While postmortal examination of the man, 49 years old, which came to the hospital with symptoms of hepatotropic intoxication and then suddenly died; liver is enlarged, slack, of yellow-brown colour; on the surface of liver section and knife blade one can see drops of fat. Microscopically hepatocytes along the periphery of classic liver lobules are found, which contain many small drops, filling cytoplasm and moving nucleus away to the periphery. What process is most probable in the liver?

- + fatty liver degeneration
- cerebrosine lipoidosis (Gaucher's disease)
- infantile type of cerebral sphingolipidosis (Tay-Sachs disease)
- generalized gangalidosis (Normann-Landing disease)

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On the postmortal examination of the sick, which suffered during his lifetime of leucosis and died of growing chronic anemia, heart is enlarged, heart muscle on the section is dull, pale-grey, under endocardium yellow spots and stripes can be seen. What pathological process developed in the heart?

- + parenchymatous fatty degeneration
- vacuole degeneration
- hyaline degeneration
- mesenchimal fatty degeneration

- work hypertrophy

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On the postmortal examination of the corps on the grounds of typical microscopic changes parenchymatous fatty degeneration of heart myocardium was diagnosed. What is the figurative name of the heart in case of this degeneration?

+ tiger heart

- bovine heart

- hairy heart

- stone heart

- cor pulmonate