

While histological examination of the womb mucous tunic were found sinuous glands, serrated and corkscrew-like, extended, stroma growings with cells proliferation. Your diagnose:

- + glandular hyperplasia of endometrium
- acute endometrium
- leiomyoma
- hydated mole
- placental polyp

On the ventral surface of the tongue a man with prosthetic appliance on the lower jaw dense grey plaque of irregular form with uneven surface and clear-cut borders. While histological examination of formation preserved structure of multi-layer plane epithelium is noticed, it is thickened at the expense of dogrose-like and basal layers, hyperkeratosis, akantosis; lymphomacrophagal infiltration of subjecting conjunctive tissue. Diagnose the disease:

- + leukoplakia
- erythroplakia
- papilloma
- carcinoma in situ
- condyloma

The right lung of the sick was extracted apropos of the swallowing, after it volume of the lung enlarged on 50%. What process developed in the left lung?

- + vicarial hypertrophy
- neurohumoral hypertrophy
- pseudohypertrophy
- work hypertrophy
- hypertrophic growing

To the woman with dysfunctional womb bleeding it was made diagnostic scraping out. Histologically in scrape numerous sinuous glands were found, gleams of some glands are cyst widened. Name the type of general pathologic process in endometrium.

- + ferriferous-cyst hyperplasia
- atrophy
- metaplasia
- displasia
- hyperthrophic growings

The sick with amputated lower extremity in the stump appeared painful nodules. While microscopical examination amputation neuromas were revealed. To what pathological process are these formations related?

- + pathological regeneration
- full reparative regeneration
- inflammation
- incomplete reparative regeneration
- metaplasia

The sick died of cardial insufficiency, in anamnesis there is pulmonectomy apropos of the right lung cyst. On the postmortal examination enlarged left lung was found. Name the pathological process in the left lung.

- + vicarial hypertrophy

- neurohumoral hypertrophy
- dysfunctional atrophy
- discircular atrophy
- neurotic atrophy

While postmortal examination of the woman's (69 years old) body, who suffered for a long time of essential heart hypertension, pathologist found that her both kidneys are dense, considerably reduced in size, the surface is small-grained. Such changes testify of:

- + atrophy because of blood supply deficiency
- atrophy because of pressure
- senile atrophy
- dysfunctional atrophy
- hypoplasia

In the biopsy material of bronchial tube mucous tunic of the man, who suffered of chronic bronchitis, areas of multi-layer plane not becoming horny epithelium were found. Diagnose pathological process in mucous tunic of bronchial tube

- + metaplasia
- atrophy
- hyperplasia
- displasia

After trauma of liver became the full renewal of structure and functions of liver. What kind of regeneration is this?

- + restitution
- incomplete regeneration
- pathological regeneration
- simple physiological regeneration
- substitution

The sick of chronic cystitis in the biopsy material of bladder mucous tunic with transitional epithelium areas of multi-layer plane not becoming horny epithelium were found. What process lies in the basis of the described changes in epithelium?

- + metaplasia
- dystrophy
- hyperplasia
- displasia
- hyperkeratosis

While examination of mouth cavity on the mucous tunic of the cheek dense spot of white colour 1cm in diameter is determined, which towers above the surface of mucous tunic. What pathological process is this?

- + leukoplakia
- erythroplakia
- carnification
- organization
- mucous swelling

To the pathomorphological department was sent a piece of tunic from the edge of chronic stomach ulcer. While histological examination in it was found: necrosis, granulation tissue, surplus development of fibrous conjunctive tissue and metaplasia of epithelium. What kind of compensatory-adaptable process is this?

- + pathological regeneration with disturbance of phases changing
- hypertrophy
- physiological regeneration
- reparative regeneration (substitution)
- reparative regeneration (restitution)

In the biopsy material of bronchial tube mucous tunic of the sick, 50 years old, who suffered for twenty years of chronic bronchitis, thinning of mucous tunic, cyst-like transformation of the mucous glands were found, there were also focuses of substitution of prismatic epithelium on the multi-layer plane epithelium. What of the heart pathological processes enumerated above is the most trustworthy?

- + metaplasia
- hyperplasia
- heterotrophy
- heteroplasia
- displasia

The sick, who suffered for a long time of chronic bronchitis, got the development of chronic heart insufficiency. On the postmortal examination in the lungs there is: emphysema and pulmonary sclerosis. What heart changes develop in such case?

- + hypertrophy of the right heart ventricle
- hypertrophy of the left heart ventricle
- hypertrophy of all heart ventricles
- diffusive cardiosclerosis
- myocardium atrophy

On the postmortal examination of the sick, 57 years old, which suffered of essential heart hypertension and died of heart decompensation, it was found an enlarged heart with expanded cavity (mass is 550g, thickness of wall is 2.5cm), microscopically cardiomyocytes are noticeably enlarged, with fatty degeneration and barrel-like nuclei. What of pathological processes enumerated above is the most trustworthy?

- + eccentric hypertrophy
- myocarditis
- concentric hypertrophy
- angiogenic cardiosclerosis
- cardiomyopathy

A sick child, 12 years old, who suffers of poliomyelitis, somatic muscles are weak, reduced in volume, skin is dry and pale, while morphological examination of the soft tissues biopsy material typical morphologic changes were revealed. Define the character of pathological process of the soft tissues.

- + atrophy
- hypertrophy
- hyperplasia
- metaplasia

- hyperplasia

The sick, who for a long time smoked too much, got coughing with excretions of viscous mucus, weakness after physical exercises, paleness of skin, during last 2 months he lost his weight on 12kg. while endoscopic examination of the bronchial tube biopsy material was given a diagnose: epidermoid cancer. Define the character of pathological process, which preceded the formation of swallowing.

- + metaplasia
- hypoplasia
- hyperplasia
- necrosis
- sclerosis

The sick, 65 years old, was operated in the urological department apropos of adenomatous hyperplasia of prostate gland. While operation it was found, that wall of bladder is thickened to 1cm. It can be explained by:

- + work hypertrophy
- vicarial hypertrophy
- hormone hypertrophy
- hormone hyperplasia
- protective hyperplasia

The sick, 72 years old, who suffered of pancreatic diabetes, was delivered to surgeon department with shin ulcer, which didn't close up for a long time. After 3 weeks of treatment while the ulcer examination its bottom looks soft, juicy, rosy with small-grained surface. What histological description corresponds to this process?

- + many thin-walled capillaries and proliferating cells
- extensive necrosis, accumulation of segmental leukocytes
- multi-layer, plane, becoming horny epithelium
- existence of fibroblasts and fascicles of collagenous fibres
- among mature fibrous tissue sharply widened vessels

The sick, 70 years old, was delivered to the thoracic department with the diagnose of lung abscess, with the symptoms of growing cordial insufficiency he died. On the postmortal examination it was found, that lymph nodes of mediastinum are enlarged, juicy, of rosy-red colour. Spleen is enlarged, slack, with rich scrap of pulp. By what can changes in spleen and lymph nodes be explained

- + protective hyperplasia
- compensatory hyperplasia
- hormone hyperplasia
- passive congestion
- purulent inflammation in lymph node and spleen

Ten years ago a male patient's right lung was removed because of a tumour, since then the capacity of his left lung has increased by 50 %. What process has developed in the left lung?

- + Vicarious hypertrophy
- Neurohumoral hypertrophy
- Vicarious hypertrophy
- Work hypertrophy

- Hypertrophic vegetations

An autopsy of a male patient, who died from hypertensive disease, revealed an enlarged heart weighing 600 g, with a thickened left ventricular wall up to 2 cm and a dilated cavity of the left ventricle. Name the kind of an adaptive reconstruction in the heart.

- Eccentric atrophy
- Concentric hypertrophy
- Vicarious hypertrophy
- + Eccentric hypertrophy
- Vicarious hypertrophy

A youth complains of thinning of the muscles and reduction in the volume of the shin that appeared after a fracture of the femur which did not heal for a long period of time and was not accompanied by any impairment of the nerves. What is the name for such an atrophy of muscles?

- Neurotic
- Caused by insufficient blood supply
- Atrophy owing to pressure
- + Dysfunctional
- Caused by physical factors

An autopsy of a male, who suffered from hypertensive disease for a long period of time, revealed a sharply enlarged heart weighing 800.0 g. Name the kind of compensatory hypertrophy of the heart.

- Vicarious
- Hypertrophic vegetations
- Vicarious
- Neurohumoral
- + Work

As a result of falling down, a small abrasion formed of the knee of a child and some time later it epithelialized completely without formation of any scar. What form of regeneration took place in this case?

- Physiological
- Substitution
- + Restitution
- Pathological
- Intracellular

A 74-year-old male died from chronic heart failure. On autopsy, an old postinfarction scar was found in the heart. A histological examination revealed a focus of fibrosis and hypertrophy of cardiomyocytes. What regeneration do the described changes manifest?

- Pathological
- Physiological
- + Substitution
- Restitution
- Intracellular

Following a traumatic injury of the liver, there was a complete restoration of its structure and functions with time. What is the name for such a kind of regeneration?

- + Restitution
- Substitution
- Pathological
- Physiological
- Intracellular

A 20-year-old male patient with a posttraumatic variceal dilation and thrombosis of the subcutaneous vein in the middle third part of the shin underwent its surgical removal. Histologically, an obstructive thrombus was found in the lumen of the vein with growing of a connective tissue into the thrombus from the side of the vascular wall. What process did the changes in the thrombus result from?

- + Organization
- Reconstruction
- Canalization
- Revascularization
- Repair

A male patient with chronic cystitis revealed, along with the transitional epithelium, foci of the stratified squamous one without keratinization in a biopsy of the mucosa of his bladder. What pathological process does it indicate?

- + Metaplasia
- Leukoplakia
- Hyperplasia
- Dysplasia
- Hyperkeratosis

A 30-year-old male patient, who 10 years before had undergone removal of his traumatized left kidney, against a background of good health revealed a twice-fold enlargement of the right kidney in comparison with the norm on prophylactic medical examination. Which of the listed processes was the most probable one in the kidney?

- Work hypertrophy
- + Vicarious hypertrophy
- Hyperplasia
- Neurohumoral hypertrophy
- Pseudohypertrophy

A microscopic examination of a myocardium revealed postinfarction transmural cardiosclerosis surrounded by enlarged cardiomyocytes with large hyperchromatic nuclei rich in DNA. Which of the listed morphological processes in the cardiomyocytes was the most probable?

- Physiological regeneration
- Complete reparative regeneration
- + Regenerative hypertrophy
- Pathological regeneration
- Work hypertrophy

An autopsy of a 75-year-old male patient, who suffered from a prostatic adenoma and died of renal insufficiency, revealed enlarged kidneys; on section, there was an atrophy of the parenchyma and a lot of thin-walled cavities filled with urine. Which of the listed kinds of an atrophy in the kidney was the most probable?

- Caused by physical factors
- Dysfunctional
- + Caused by pressure
- Neurotic
- Caused by insufficiency of blood circulation

In a postoperative wound of a 10-year-old child, who was operated for acute appendicitis; 2-3 days later appeared some granulation tissue and on the 10th day a small thin scar was formed. Name the kind of healing.

- Simple
- Under a crust
- + By first intention
- By second intention

An X-ray film of a male patient, who underwent an operation of bone fragment repositioning after a fracture of his elbow bone with displacement, one month after the surgical intervention revealed a cartilaginous callus. Name the kind of regeneration of the bone tissue.

- + Secondary osseous consolidation
- Primary osseous consolidation
- Connective-tissue callosity
- Preceding callus
- Final callus

A histological examination of a scrape from the mucous membrane of the uterus was made in a 50-year-old female patient who complained of a disorder in the ovarimenstrual cycle manifested by irregular significant haemorrhages. A cystoglandular hyperplasia of the endometrium was diagnosed. Name the kind of the pathological process in the endometrium.

- + Neurohumoral hyperplasia
- Hypertrophic vegetation
- Vicarious hypertrophy
- Regenerative hypertrophy
- Vicarious hypertrophy

A biopsy of a bronchus of a 50-year-old male patient, who suffered from chronic bronchitis for 20 years, revealed foci of substitution of the stratified squamous epithelium for the columnar one. Which of the pathological processes listed below took place?

- Hyperplasia
- + Metaplasia
- Heterotopia
- Heteroplasia
- Dysplasia

For examination, a scrape from the mucous coat of the uterus of a 45-year-old woman suffering from dysfunctional uterine bleedings was sent. Histologically, an increased number of endometrial glands and their intensified branching with a cyst-like dilation of the lumens were found. Which of the pathological processes listed below was the most probable?

- Hypertrophy
- + Hyperplasia

- Metaplasia
- Dysplasia
- Aplasia

An autopsy of a 57-year-old male patient, who suffered from hypertensive disease and died of cardiac decompensation, revealed an enlarged heart with dilated cavities. Microscopically, the cardiomyocytes were significantly enlarged and had fatty degeneration with hyperchromatic barrel-like nuclei. Which of the listed morphological processes in the heart was the most probable?

- + Eccentric hypertrophy
- Hypertrophic vegetations
- Brown atrophy
- Concentric hypertrophy
- Vicarious hypertrophy

At the person with the tumour of anterior lobe of hypophysis as a result of the increased secretion of corticotropin develops the hypertrophy of adrenal cortex. How is called such kind of the hypertrophy?

- + Correlative
- Regenerative
- Vicarial
- Work

At the histological research of biopsy of the wall of bronchus is discovered that monolayer ciliated epithelium is replaced with multilayer plane epithelium. What kind of general pathological process did the doctor diagnose?

- + Metaplasia
- Regeneration
- Hypertrophy
- Organization
- Hyperplasia

A child of 3 years old was wearing a plaster cast of a right hip joint during 6 month in connection with tuberculous coxitis. After unbandaging, is defined, that a measurement round the left hip is in 7cm larger, than a right one. In this case the question is about:

- + dysfunctional atrophy
- pressure atrophy
- neurotic atrophy at denervation
- atrophy, caused by circulatory insufficiency
- hypoplasia

At the postmortem dissection of a man with a clinical diagnosis of cancer of the stomach is marked, that a hypodermic-fatty layer is of orange colour, its thickness on the front abdominal wall is 0,3cm. The macroscopic picture is corresponds to:

- + panatrophly
- norm
- hormonal atrophy
- adipose degeneration
- adiponecrosis



At adenoma of prostate gland, narrowing the urethra, a thickening of the wall of urinary bladder is noticed. What kind of hypertrophy is this?

- + Work hypertrophy
- Vicarious hypertrophy
- Restoratory hypertrophy
- Displasia

A patient with diabetes mellitus was performed a lancing of abscess in the nuchal region. A wound healing protracted during one and a half month, the pyogenic content constantly effused out of wound. After the wound healing has formed a cicatrix on its place. What kind of wound healing was in this case?

- + Secondary wound healing
- Cuticularization
- Primary wound healing
- Mixed wound healing