

1s

Paronychia of the patient's little finger was complicated with phlegmon of the hand and forearm. In this case the suppuration had spread through the:

- A. Vagina synovialis communis mm. flexorum
- B. Vagina tendinis m. flexor pollicis longi
- C. Canalis carpalis
- D. Vagina tendinis m. flexor carpi radialis
- E. Interfascial compartments

A patient complains of acute pain attacks in the right lumbar region. During examination the nephrolithic obturation of the right ureter in the region between its abdominal and pelvic segments has been detected. What anatomical boundary exists between those two segments?

- A. Linea terminalis
- B. Linea semilunaris
- C. Linea arcuata
- D. Linea transversa
- E. Linea inguinalis

During examination of a patient a doctor should use anatomical division of anterior abdominal wall into regions for more precise diagnostics. How many such regions can abdomen be divided into?

- A. 9
- B. 8
- C. 6
- D. 5
- E. 4

During a surgery for femoral hernia a surgeon operates within the boundaries of femoral trigone. What structure makes up its upper margin?

- A. Lig. inguinale
- B. Arcus iliopectineus
- C. Lig. lacunare
- D. Lig. pectinale
- E. Fascia lata

An obstetrician-gynecologist measures pelvis size of a pregnant woman. A caliper was used to measure the distance between the two iliac crests. What measurement of large pelvis was made?

- A. Distantia cristarum
- B. Distantia throchanterica
- C. Distantia spinarum
- D. Conjugata vera
- E. Conjugata anatomica

A doctor asked a patient to make a deep exhalation after a normal inhalation. What muscles contract during such exhalation?

- A. Abdominal muscles
- B. External intercostal muscles
- C. Diaphragm
- D. Trapezius muscles
- E. Pectoral muscles

A patient has been brought into a surgical ward with an incised wound of the anterior surface of the shoulder in its lower one-third. Flexing function was disturbed in the shoulder and elbow joints, which is caused by the damage to the:

- A. Biceps muscle of the arm
- B. Triceps muscle of the arm
- C. Anconeus muscle
- D. Deltoid muscle
- E. Coracobrachial muscle

After a hand fracture the man has lost the ability to touch his little finger with the thumb on the affected hand. Examination of the palmar surface shows one of the palmar muscles to be atrophied. Name the affected muscle:

- A. M. opponens policis
- B. Mm. lumbricales
- C. Mm. interossei
- D. M. flexor digiti minimi
- E. M. palmaris brevis

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A specimen of a parenchymal organ shows poorly delineated hexagonal lobules surrounding a central vein, and the interlobular connective tissue contains embedded triads (an artery, a vein and an excretory duct). What organ is it?

- A. Liver
- B. Pancreas
- C. Thymus
- D. Spleen
- E. Thyroid

A 35-year-old man has been delivered into a surgical ward with a suppurating wound in the neck, anterior to the trachea (previsceral space). If a surgical operation is not performed urgently, there is a risk of infection spreading to the:

- A. Thoracic cavity - anterior mediastinum
- B. Thoracic cavity - middle mediastinum
- C. Thoracic cavity - posterior mediastinum
- D. Retrovisceral space
- E. Interaponeurotic suprasternal space

The patient's pyramids of the medulla oblongata are damaged by tumor growth. As a result the conduction of nervous impulses will be impaired in the following pathway:

- A. Tr. corticospinalis
- B. Tr. corticonuclearis
- C. Tr. corticopontinus
- D. Tr. dentatorubralis
- E. Tr. spinocerebellaris

A patient with periodontitis of the lower molar came to the doctor. It was determined that the inflammatory process spread to the lymph nodes. What lymph nodes were the first to be affected by the inflammatory process?

- A. Submandibular
- B. Lateral cervical
- C. Anterior cervical
- D. Submental
- E. Facial

During experiment a part of the brain was extracted, which resulted in asynergy and dysmetria development in the test animal. What part of the brain was extracted in the animal?

- A. Cerebellum
- B. Frontal lobe
- C. Parietal lobe
- D. Mesencephalon
- E. Reticulum

As a result of a continuous chronic encephalopathy a patient has developed spontaneous motions and disorder of torsomuscle tone. These are the symptoms of the disorder of the following conduction tract:

- A. Tractus rubrospinalis
- B. Tractus corticospinalis
- C. Tractus corticonuclearis
- D. Tractus spinothalamicus
- E. Tractus tectospinalis

In the course of an experiment thalamocortical tracts of an animal were cut. What type of sensory perception remained intact?

- A. Olfactory
- B. Auditory
- C. Exteroreceptive
- D. Visual
- E. Nociceptive

A patient has a tumor of the eyesocket tissues behind the eyeball. Disruption of accomodation and pupil constriction is observed. What anatomical structure is damaged?

- A. Ganglion ciliare
- B. N. nasociliaris
- C. N. lacrimalis
- D. N. opticus
- E. N. trochlearis

A patient has damaged spinal cord white matter in the middle area of the posterior white column, disrupted proprioceptive sensibility of the lower limb joints and muscles. What fibers are affected?

- A. Fasciculus gracilis
- B. Tr. spinothalamicus lateralis
- C. Tr. spinocerebellaris anterior
- D. Tr. spinocerebellaris posterior
- E. Fasciculus cuneatus

A soldier with explosion-caused trauma was delivered to a hospital. Examination revealed his tympanic membrane to be intact. What defense reflex prevented the tympanic membrane from rupturing?

- A. Contraction of m. tensor tympani
- B. Relaxation of m. tensor tympani
- C. Contraction of m. auricularis anterior
- D. Relaxation of m. auricularis anterior
- E. Relaxation of m. stapedius

Doctors make mostly radial incisions during mammary gland surgery. What particulars of anatomical organization make such surgical technique preferable?

- A. Lobe apexes converge towards nipples

- B. Lobe bases radiate from nipples
- C. Transversal position of gland lobes
- D. Vertical position of gland lobes

A surgeon has to find the common hepatic duct during operative intervention for treatment of concrements in the gall ducts. The common hepatic duct is located between the leaves of:

- A. Hepatoduodenal ligament
- B. Hepatogastric ligament
- C. Hepatorenal ligament
- D. Round ligament of liver
- E. Venous ligament

A patient complains of pain in the right lateral abdomen. Palpation revealed a dense, immobile, tumor-like formation. The tumor is likely to be found in the following part of the digestive tube:

- A. Colon ascendens
- B. Colon transversum
- C. Colon descendens
- D. Colon sigmoideum
- E. Caecum

When playing a child received a hit to the presternum region. As a result of this trauma an organ located behind the presternum was damaged. Name this organ:

- A. Thymus
- B. Thyroid gland
- C. Heart
- D. Pericardium
- E. Larynx

A patient complains of pain in the upper umbilical region. On palpation there is a mobile painful intestine. What intestine is being palpated by the doctor?

- A. Transverse colon
- B. Jejunum
- C. Duodenum
- D. Ileum
- E. Sigmoid colon

A laboratory experiment on a dog was used to study central parts of auditory system. One of the mesencephalon structures was destroyed. The dog has lost the orienting response to auditory signals. What structure was destroyed?

- A. Inferior colliculi of corpora quadrigemina
- B. Superior colliculi of corpora quadrigemina
- C. Substantia nigra
- D. Reticular formation nuclei
- E. Red nucleus

After an X-ray examination of the tuberculosis clinic patient, he was diagnosed with tumor of the right lung. During operation the surgeon removed the middle lobe of the patient's right lung. This lobe includes:

- A. Segmentum laterale et segmentum mediale
- B. Segmentum basale anterius et posterius
- C. Segmentum anterius et segmentum apicale
- D. Segmentum lingualare superius et inferius
- E. Segmentum apicale (superius) et segmentum basale mediale

A child diagnosed with purulent inflammation of the middle ear was brought to the otolaryngology department. The disease started with the inflammation of the nasopharynx. It was determined that the infection had reached the tympanic cavity through the eustachian tube that is located in the:

- A. Canalis musculotubarius
- B. Canaliculus tympanicus
- C. Canalis caroticus
- D. Canaliculus chordae tympani
- E. Canaliculi carotico tympanici

A 64-year-old woman presents with disturbed fine motor function of her fingers, marked muscle rigidity, and tremor. The neurologist diagnosed her with Parkinson's disease. What brain structures are damaged resulting in this disease?

- A. Substantia nigra
- B. Thalamus
- C. Red nuclei
- D. Cerebellum
- E. Reticular formation

Histological specimen shows organ parenchyma to consist of lymphoid tissue that forms lymph nodules; the nodules are located diffusely and have a central artery. What anatomical structure has such morphological characteristics?

- A. Spleen
- B. Tonsil
- C. Lymph node
- D. Thymus
- E. Red bone marrow

A man has an inguinal hernia. The hernial sac exits through the following opening:

- A. Anulus superficialis canalis inguinalis
- B. Foramen suprapiriforme
- C. Linea alba
- D. Anulus profundus canalis inguinalis
- E. Anulus femoralis

During surgery performed in abdominal cavity a surgeon located the ligament of liver stretching from the anterior abdominal wall (navel) to the inferior surface of liver.

What ligament is it?

- A. Round ligament of the liver
- B. Falciform ligament of the liver
- C. Coronary ligament of the liver
- D. Venous ligament of the liver
- E. Triangular ligament of the liver

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After a case of cold the patient developed a lacrimation disorder. This disorder was caused by functional disturbance of the following autonomic ganglion:

- A. Pterygopalatine
- B. Ciliary
- C. Otic
- D. Submandibular
- E. Sublingual

Investigation of an isolated cardiac myocyte determined that it does not generate excitation impulses automatically, which means this cardiac myocyte was obtained from the following cardiac structure:

- A. Ventricles
- B. Sinoatrial node
- C. Atrioventricular node
- D. His' bundle
- E. Purkinje's fibers

A specimen shows an organ covered with connective tissue capsule with trabeculae radiating inward the organ. The organ's cortex contains lymph nodules; there are medullary cords made of lymphoid cells. What organ is under study?

- A. Lymph node
- B. Thymus
- C. Spleen
- D. Red bone marrow
- E. Tonsils

A woman suffers from tonsillitis complicated with retropharyngeal abscess that is localized in the spatium retroviscerale. In this case the suppurative process can spread to the:

- A. Mediastinum posterius
- B. Spatium interaponeuroticum suprasternale
- C. Mediastinum anterius
- D. Spatium pretracheale
- E. Spatium interscalenum

The brain trauma unit received a patient with damaged greater wing of the sphenoid bone. The fracture line crosses the spinous foramen of the sphenoid. What vessel was damaged?

- A. Middle meningeal artery
- B. Superficial temporal artery
- C. Lateral pterygoid artery
- D. Anterior deep temporal artery
- E. Posterior deep temporal artery



An injured person with wound of the anterior cervical region presents with hemorrhage. The outflowing blood is dark. What vessel is damaged?

- A. V. jugularis anterior
- B. V. jugularis externa
- C. V. jugularis interna
- D. A. carotis externa
- E. A. thyroidea superior

Due to trauma the patient presents with disturbed function of the parotid gland. What nerve ensures its secretion function?

- A. N. petrosus minor
- B. N. petrosus major
- C. N. petrosus profundus
- D. N. auricularis minor
- E. N. auricularis major

Angiocardiology of a 60-year old man revealed constriction of the vessel located in the left coronary sulcus of his heart. Name this pathological vessel:

- A. Ramus circumflexus
- B. Ramus interventricularis posterior
- C. A. coronaria dextra
- D. V. cordis parva
- E. Ramus interventricularis anterior

During appendectomy a patient had the a. appendicularis ligated. This vessel branches from the following artery:

- A. A. ileocolica
- B. A. colica dextra
- C. A. colica media
- D. A. sigmoidea
- E. A. mesenterica inferior

A patient has been found to have a marked dilatation of the saphenous veins in the region of anterior abdominal wall around the navel. This is symptomatic of pressure increase in the following vessel:

- A. V. portae hepatis
- B. V. cava superior
- C. V. cava inferior
- D. V. mesenterica inferior
- E. V. mesenterica superior

A patient with suspected necrosis of the upper abdominal cavity organs was delivered to a surgical department. This condition is associated with acute circulatory disturbance of the following vessel:

- A. Truncus coeliacus
- B. A. mesenterica inferior
- C. A. mesenterica superior

- D. A. iliaca communis
- E. A. renalis

During cholecystectomy besides a. cystyca another artery was pulled into the ligature. Ligation of this artery resulted in right-sided necrosis of the liver which led to the death of the patient. What artery was mistakenly ligated along with a. cystyca?

- A. Ramus dexter a. hepatica propria
- B. A. hepatica communis
- C. A. gasro-duodenalis
- D. Ramus sinister a. hepatica propria
- E. A. pancreato-duodenalis superior

After a case of common cold the patient developed numbness of the right side of the face. Examination revealed disturbed pain and thermal sensitivity in the right half of the face. What nerve was damaged?

- A. Trigeminal
- B. Facial
- C. Glossopharyngeal
- D. Vagus
- E. Hypoglossal

A patient presents with dilated blood vessels of the anterior medial surface of the lower leg. This condition resulted from the dilation of the following blood vessel:

- A. V. saphena magna
- B. A. tibialis anterior
- C. V. saphena parva
- D. A. tibialis posterior
- E. V. poplitea

A boxer had sustained a blow to the left parotid area, after which he developed paralysis of the facial muscles on this side. What nerve had been damaged?

- A. Facial
- B. Ophthalmic
- C. Maxillary
- D. Mandibular
- E. Lesser petrosal

An oncology patient is to undergo a surgery on the descending colon. Name the main source of blood supply to this organ:

- A. Inferior mesenteric artery
- B. Superior mesenteric artery
- C. Celiac trunk
- D. Middle colic artery
- E. Splenic artery

A traumatology unit has received a patient with a wrist trauma and a clinical presentation of the damage to the nerve that passes through the carpal tunnel. Name

this nerve:

- A. N. medianus
- B. N. ulnaris
- C. N. radialis
- D. N. axillaris
- E. N. musculocutaneus

Parenchyma of an organ is composed of pseudounipolar neurons localized under the capsule of connective tissue. Central place belongs to nerve fibers. Name this organ:

- A. Spinal ganglion
- B. Sympathetic ganglion
- C. Intramural ganglion
- D. Nerve trunk
- E. Spinal cord

A patient has disturbed blood supply to the anterior papillary muscle of the left ventricle. What cardiac artery supplies this muscle with blood?

- A. Ramus interventricularis anterior
- B. Ramus interventricularis posterior
- C. A. coronaria dextra
- D. Ramus circumflexus
- E. Ramus marginalis

After a trauma the man has lost skin sensitivity on the lateral surface of his forearm. What nerve of the brachial plexus provides sensitivity of the affected area?

- A. N. musculocutaneus
- B. N. medianus
- C. N. ulnaris
- D. N. axillaris
- E. N. radialis