

VOLGOGRAD STATE
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Department of Pathological Anatomy

**Blood circulation disorders. Venous congestion. Arterial hyperemia. Bleedings.
Hemorrhages.**

Volgograd, 2020

4. QUESTIONS

Select all correct answers

... a 23-year-old woman had a mitral valve defect with a predominance of stenosis, which led to the development of venous stasis in the pulmonary and systemic circulation. Systemic manifestations of chronic venous stasis:

- a) brown induration of the lung,
- b) nutmeg liver,
- c) anasarca,
- d) fibrosing alveolitis,
- e) chronic hepatitis.

2. Chronic venous congestion of the lungs is characterized by:

- a) inflammation,
- b) diffuse pneumosclerosis,
- c) perivascular sclerosis,
- d) diffuse hemosiderosis,
- e) blood clots in the microvasculature.

H. Portal hypertension is characterized by:

- a) hypertrophy of the right ventricle of the heart,
- b) splenomegaly,
- c) ascites,
- d) varicose expansion of the superior vena cava,
- e) varicose expansion of extrahepatic portocaval anastomoses.

4. The variegated appearance of the liver in chronic venous stasis is caused by:

- a) expansion and plethora of sinusoids,
- b) proliferation of connective tissue,
- c) fatty degeneration of hepatocytes,
- d) regeneration of hepatocytes,
- e) balloon dystrophy of hepatocytes.

5. The death of a 43-year-old man, suffering from chronic hepatitis B with an outcome in cirrhosis, occurred from bleeding from the veins of the esophagus. Causes of ruptured veins of the esophagus:

- a) varicose veins of the round ligament of the liver,
- b) varicose veins of the esophagus and cardia of the stomach,
- c) pulmonary hypertension,
- d) venous congestion in the portal vein system.

b. Portal hypertension leads to:

- a) the development of ascites,
- b) cirrhosis of the liver,
- c) kidney enlargement,
- d) enlargement of the spleen,
- e) intravital blood coagulation in the cavities of the heart.

7. Complications of massive blood loss:

- a) hypovolemic shock,
- b) a decrease in the amount of iron,
- c) lowering blood pressure,

- d) DIC syndrome,
- e) increasing tissue hypoxia.

8. Complications of pilots during high-speed starts:

- a) fat embolism,
- b) air embolism,
- c) gas embolism,
- d) lung infarction,
- e) obstruction of blood vessels by air bubbles.

9. Unfavorable outcomes of hematoma:

- a) anemia,
- b) hypovolemic shock,
- c) organization,
- d) suppuration,
- e) petrification.

10. Choose the correct statements:

- a) venous congestion - increased blood supply to an organ or tissue due to a decrease in blood outflow,
- b) venous congestion - increased blood filling of an organ or tissue due to increased blood flow,
- c) bleeding the release of blood from a blood vessel or heart cavity into tissue or into the environment,
- d) hematoma - an accumulation of coagulated blood in tissues with a violation of their integrity,
- e) petechiae are planar hemorrhages in the subcutaneous tissue.

Choose one correct answer

and. a 63-year-old woman has ascites on the background of venous congestion in the portal vein system; when fluid was evacuated from the abdominal cavity, collapse developed. The reason for the drop in blood pressure:

- a) turning off the main artery,
- b) fast evacuation of ascitic fluid,
- c) hypovolemic shock,
- d) a large loss of proteins and ions,
- e) varicose expansion of portocaval anastomoses.

12. A 22-year-old man with rheumatic mitral valve disease had heart disease cells in his sputum. It:

- a) plasma cells filled with immunoglobulins,
- b) macrophages filled with hemosiderin,
- c) macrophages filled with lipofuscin,
- d) multinucleated giant cells,
- e) leukocytes filled with pigment.

13. A 70-year-old man suffers from hypertension, 10 years ago suffered a cerebral hemorrhage. The brain determines:

- a) blood in the ventricles of the brain,

- b) hemosiderosis of the subcortical nuclei,
 - c) a focus of gray softening,
 - d) a cyst with rusty walls,
 - e) blood clots in the brain tissue.
14. Precise hemorrhages are:
- a) purple,
 - b) ecchymosis,
 - c) petechiae,
 - d) hematomas.

15. Purpura is:
- a) small punctate hemorrhages,
 - b) large multiple hemorrhages.
16. Hemorrhagic diathesis is:
- a) progressive activation of coagulation,
 - b) spontaneous bleeding in response to minor damage,
 - c) multiple punctate hemorrhages,
 - d) common petechiae and ecchymosis.

5. List of recommended literature:

Basic literature:

1. "Basic pathology" Vinay Kumar, Ramzi S. Cotran, Stanley L. Robbins, 1997.

Additional literature:

1. "Pathology. Quick Review and MCQs" Harsh Mohan, 2004.
2. "Textbook of Pathology" Harsh Mohan, 2002.
3. "General and Systemic Pathology" Joseph Hunter, 2002.
4. "General and Systematic Pathology" Ed. J.C.E. Underwood – Edinburgh: Churchill Livingstone, 1996 (2th).
5. "Histology for Pathologist" Ed. S.S.Sternberg – Philadelphia: Lippincott Raven Publ, 1997 (2th).
6. "Histopathology. A Color Atlas and Textbook" Damjanov I., McCue P.A. – Baltimore, Philadelphia, London, Paris etc.: Williams and Wilkins, A Waverly Co., 1996.
7. "Muir's Textbook of Pathology" Eds. R.N.M. MacSween, K. Whaley London: ELBS, 1994 (14th).
8. "Pathology" Eds. Rubin, J.L. Farber – Philadelphia: Lippincott Raven Publ, 1998 (3th).
9. "Pathology Illustrated" Govan A.D.T., Macfarlane P.S., Callander R. – Edinburgh: Churchill Livingstone, 1995 (4th).
10. "Robbins Pathologic Basic of Disease" Eds. R.S.Cotran, V.Kumar, T.Collins – Philadelphia, London, Toronto, Montreal, Sydney, Tokyo: W.B.Saunders Co., 1998 (6th).
11. "Wheater's Basic Histopathology. A Color Atlas and Text" Burkitt H.G., Stevens A.J.S.L., Young B. – Edinburgh: Churchill Livingstone, 1996 (3th).
12. "Color Atlas of Anatomical Pathology" Cooke R.A., Steward B. – Edinburgh: Churchill Livingstone, 1995 (10th).
13. "General Pathology" Walter J.B., Talbot I.C. – Edinburgh: Churchill Livingstone, 1996 (7th).
14. "Concise Pathology" Parakrama Chandrasoma, Glive R. Taylor.
15. "Pathology" Virginia A. LiVolsi, Maria J. Merino, John S. J. Brooks, Scott H. Saul, John E. Tomaszewski, 1994.
16. "Short lectures on pathology" Zagoroulko A., 2002
17. "Robbins pathologic basis of diseases" Cotran R., Kumar V., Collins T.
18. "General pathology" Dr. Fatma Hafez, 1979.
19. "Anderson's Pathology" Damjanov I., Linder J. – St. Louis: Mosby Inc., 1995 (10th).

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