

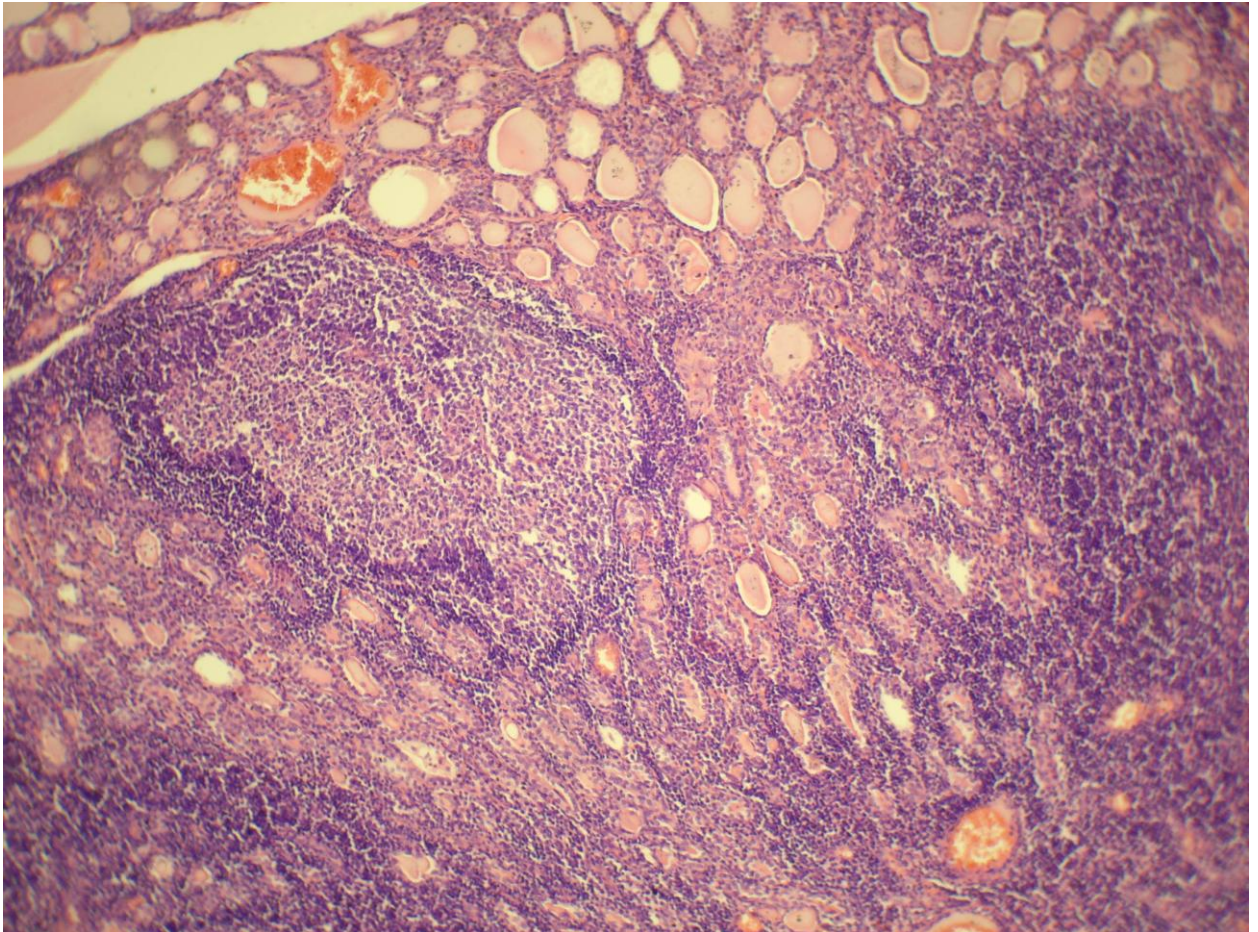
VOLGOGRAD STATE
MEDICAL UNIVERSITY
Department of Pathological Anatomy

Chronic inflammation. Granulomatosis.

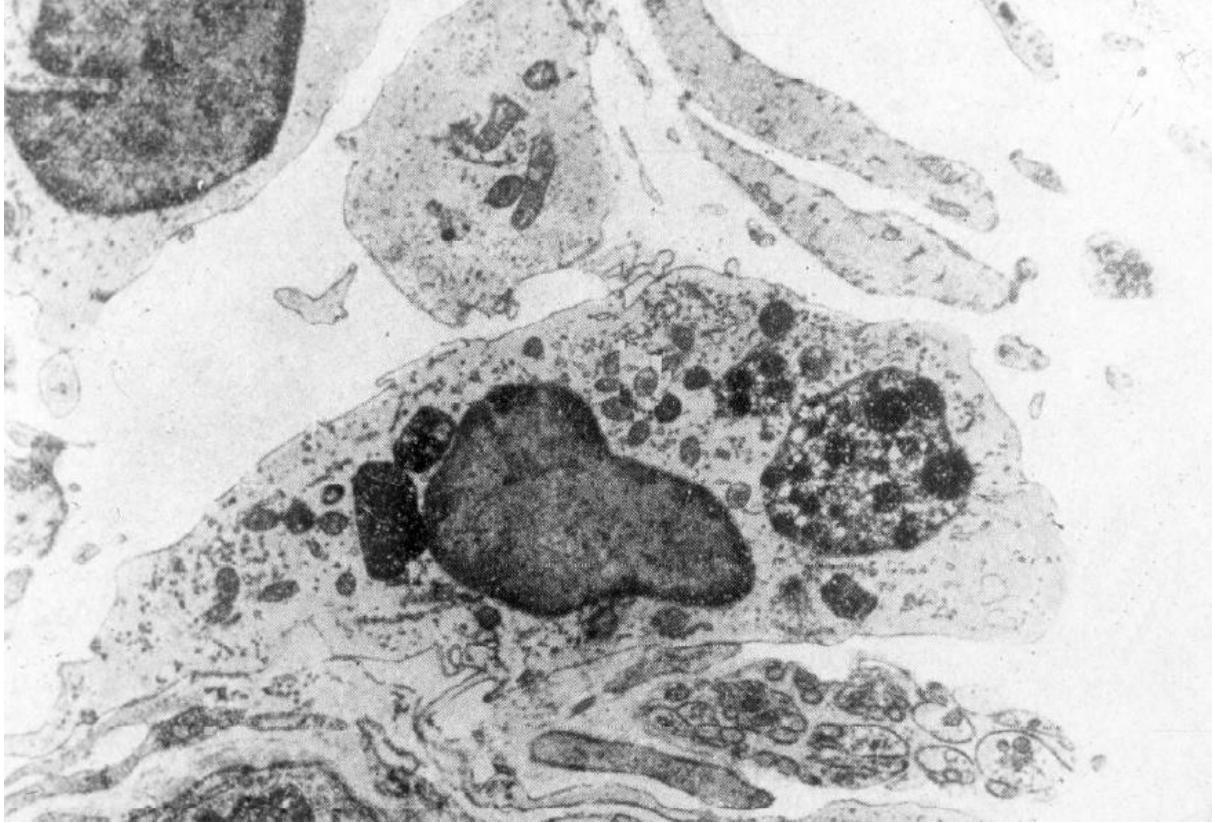
Lesson plan.

Explore and describe:

1. To study the interstitial (interstitial) inflammation by the microscopic picture. Describe the micropreparation "Autoimmune thyroiditis" (staining with hematoxylin and eosin). Pay attention to the cellular composition and localization of the inflammatory infiltrate, the amount of connective tissue elements in the myocardium / or thyroid tissue; assess the state of parenchymal cells in the area of inflammation, note the formation of lymphoid follicles with germinal centers in the thyroid gland.



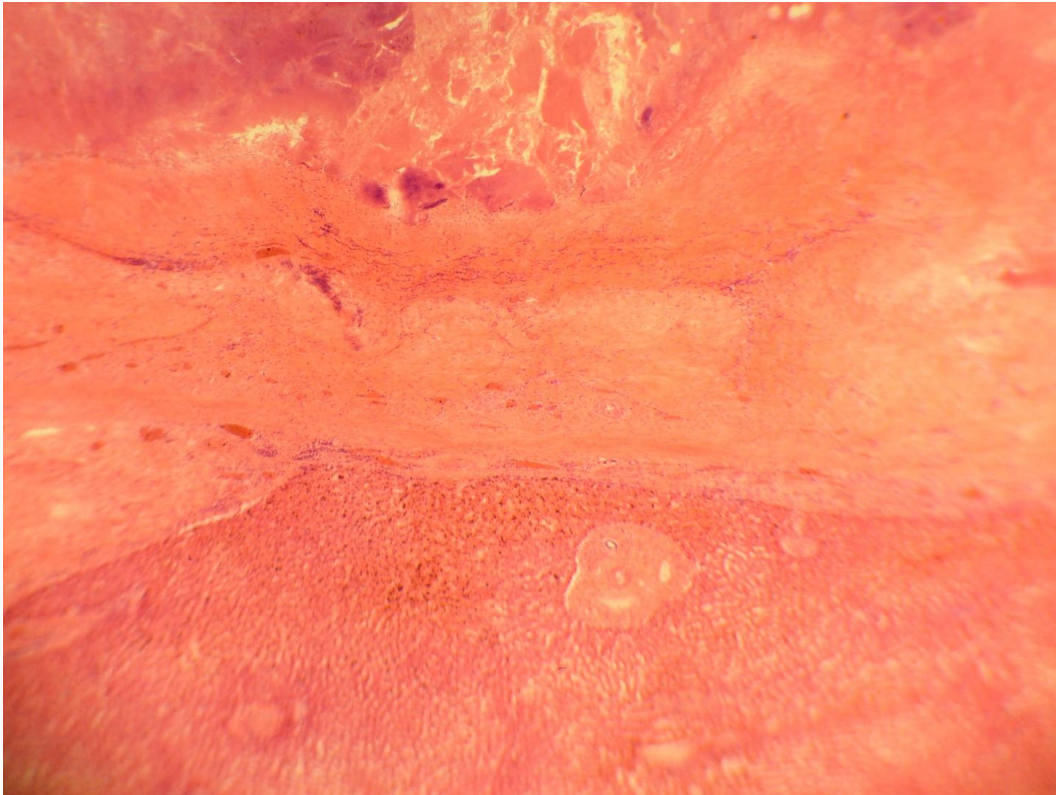
2. To study the structure of the macrophage and the giant cell of Pirogov-Langhans using . Describe the patterns electronogramme "Macrophage of tissue infiltrate" and "Giant cell of Pirogov-Langhans". Pay attention to the state of ultrastructures: the number of lysosomes and phagolysosomes, the presence and nature of inclusions in the tubules of the cytoplasmic reticulum in both cells.



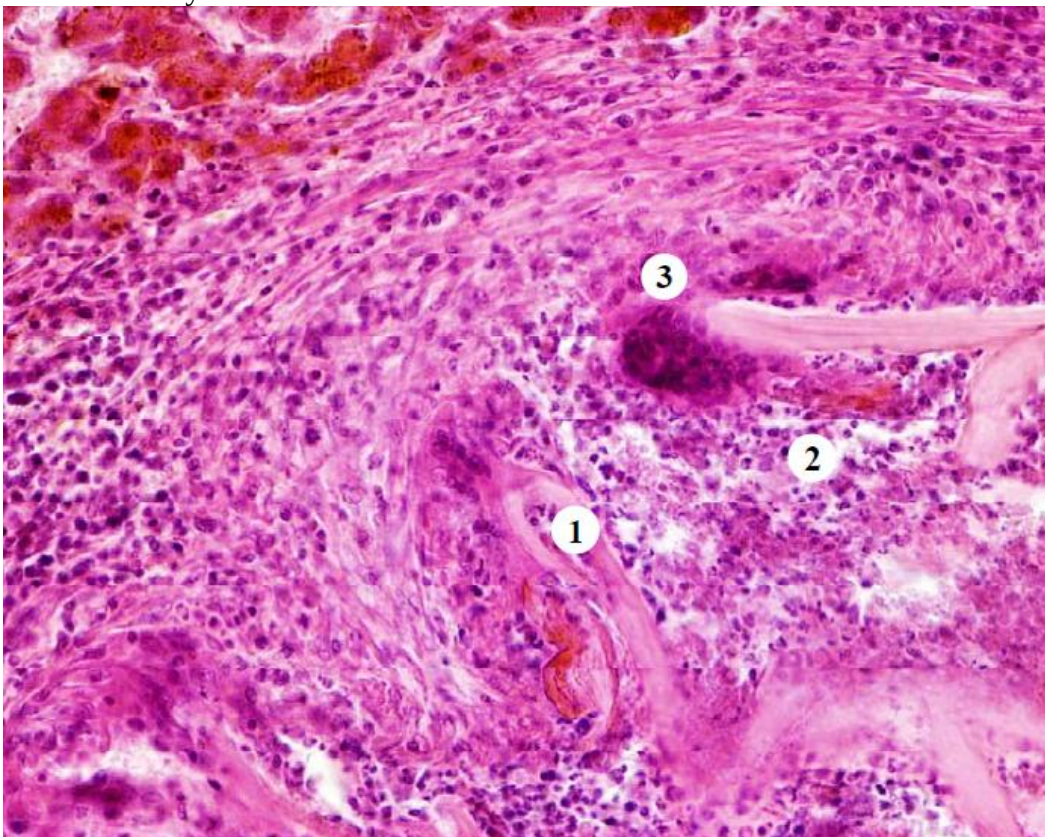
3. To study the productive inflammation around the animal parasite by the macroscopic picture. Describe the macropreparation "Alveococcosis of the liver". Pay attention to the size and consistency of the liver, especially its structure in the section.



4. To study the productive inflammation around the animal parasite on the microscopic picture. Describe the micropreparation "Echinococcal cyst of the liver" (staining with hematoxylin and eosin). Pay attention to the localization of the parasite, the structure of its shell, the localization and cellular composition of the inflammatory infiltrate, the state of the liver tissue. x40.



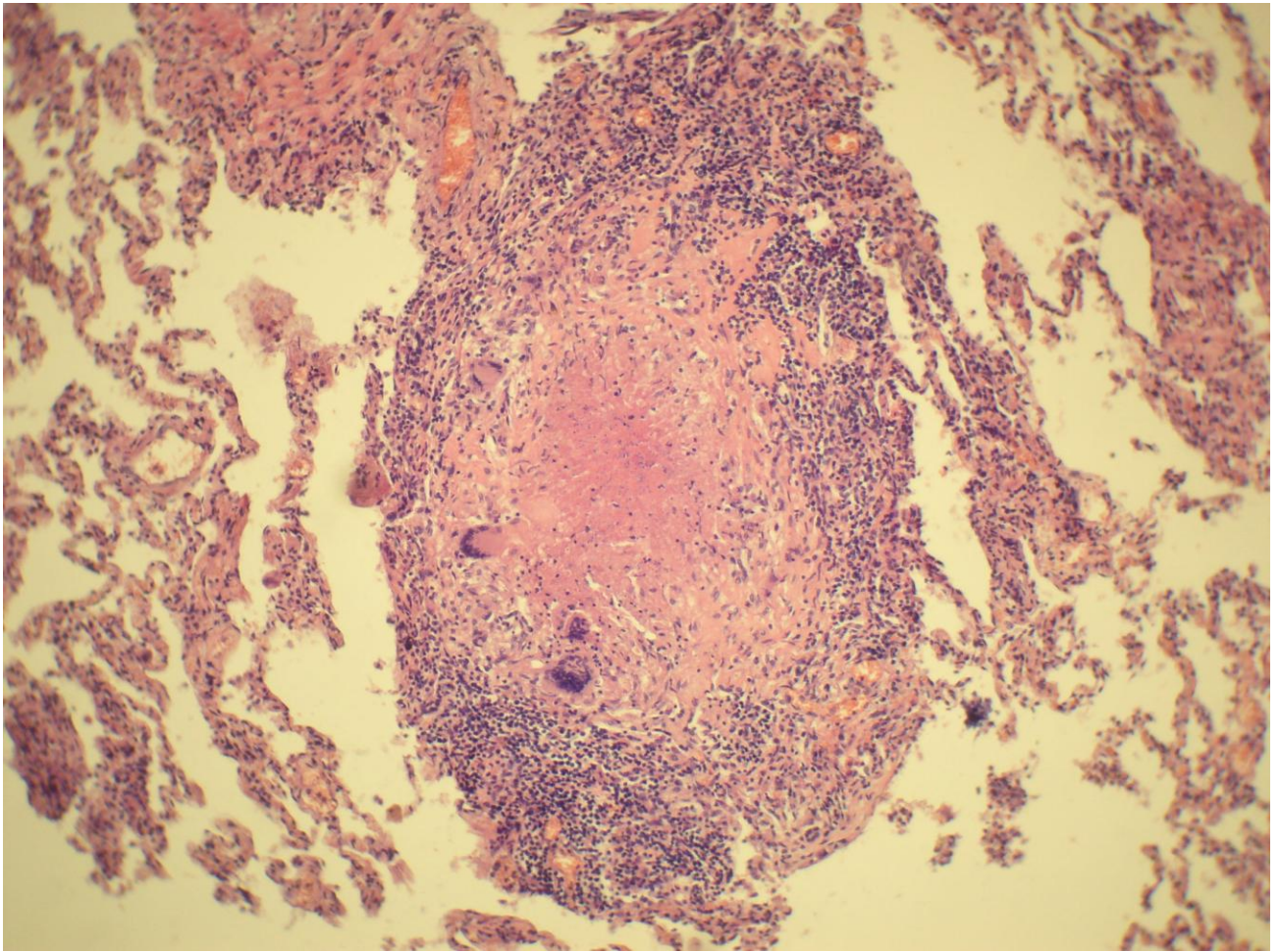
Alveococcal cyst of the liver x400.



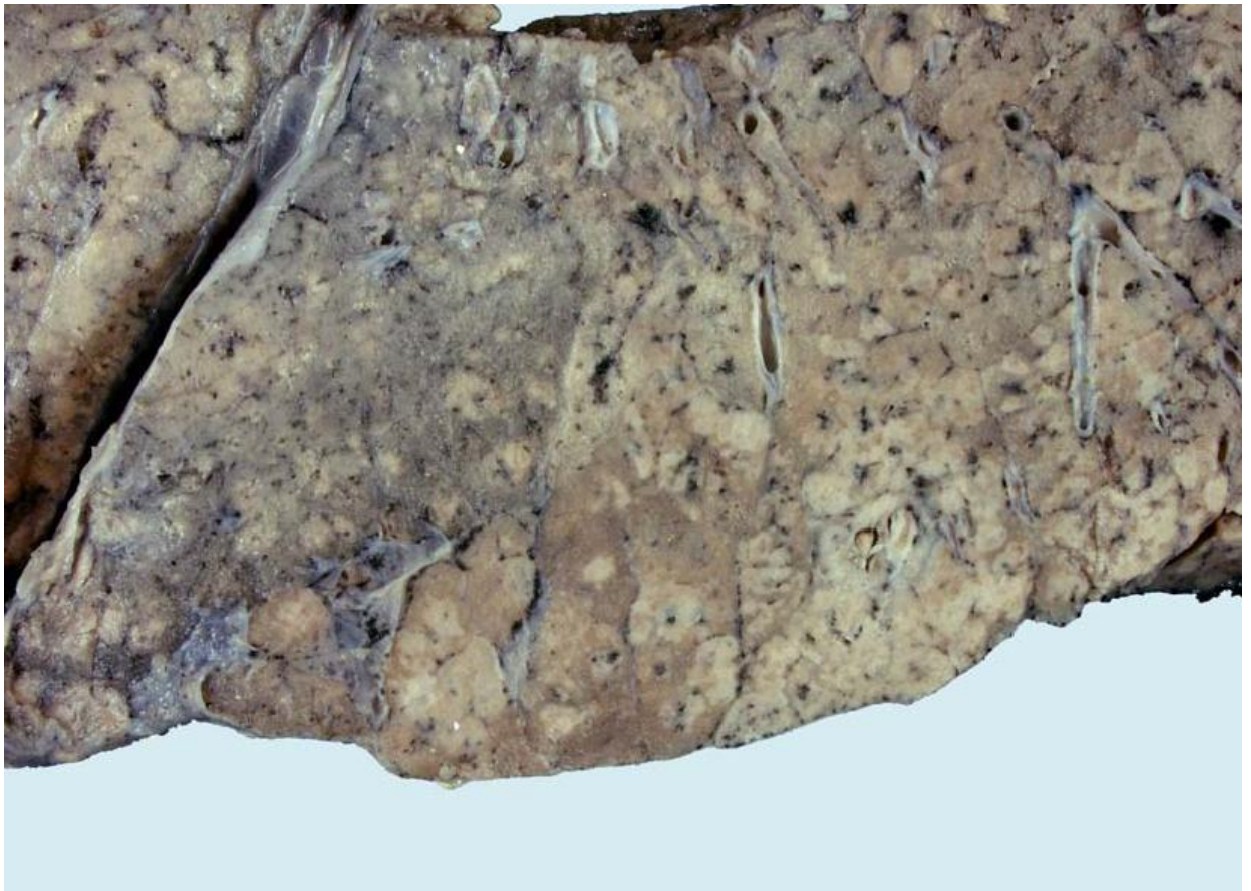
5. To study miliary pulmonary tuberculosis by macroscopic picture. Describe the macropreparation "Miliary pulmonary tuberculosis". Pay attention to the size and consistency of the lung, the number, localization, size and color of tuberculous tubercles.



6. Examine the tuberculous granuloma on the microscopic picture. Describe the micropreparation "Tuberculous granuloma in the lungs (miliary tuberculosis)" (stained with hematoxylin and eosin). Pay attention to the localization, cellular composition, the state of the central part of the tuberculosis granuloma, changes in the surrounding lung tissue.



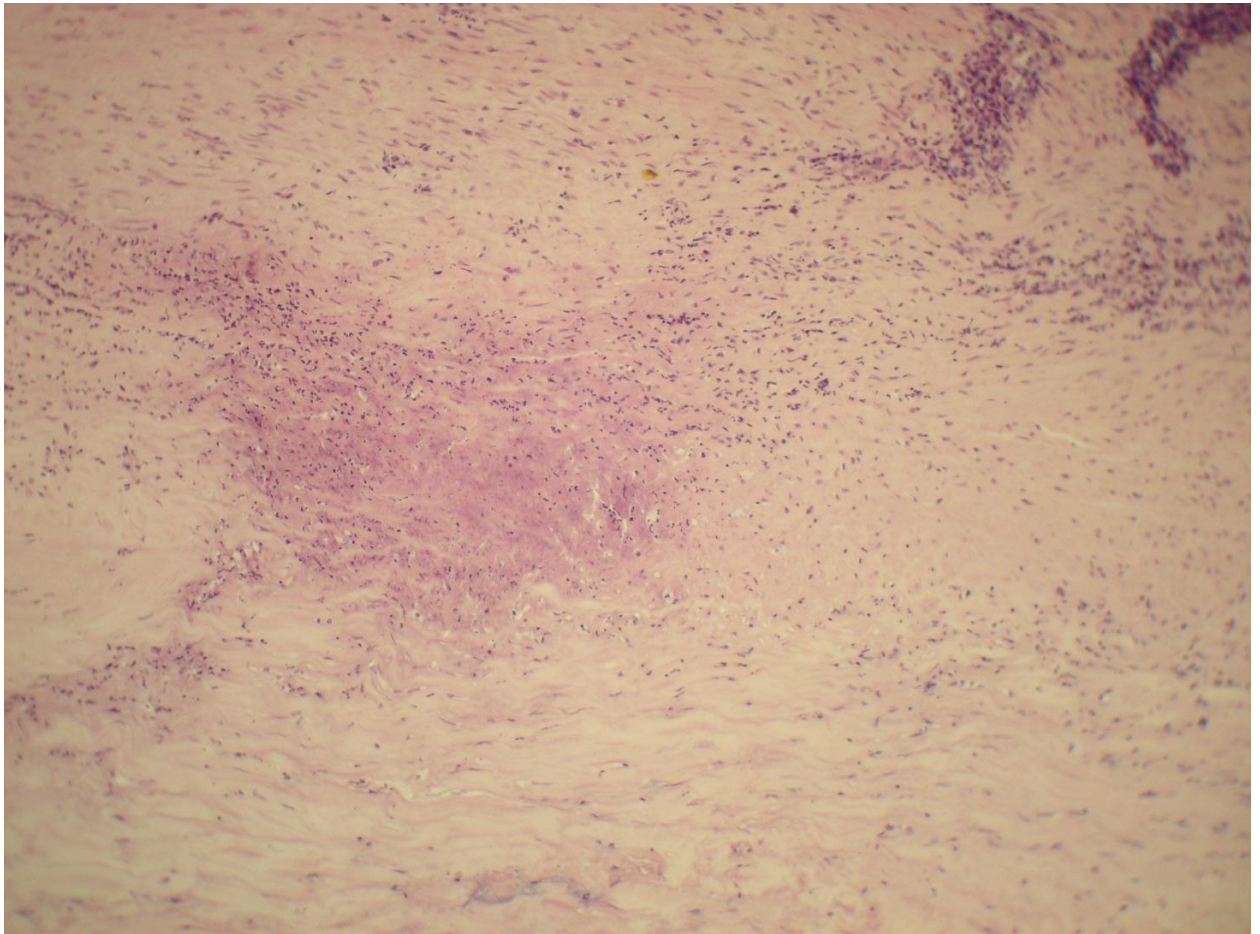
7. To study caseous pneumonia according to the macroscopic picture. To describe the macro-preparation "Caseous pneumonia". Pay attention to the area of the lesion, texture, color of the lung tissue in these areas.



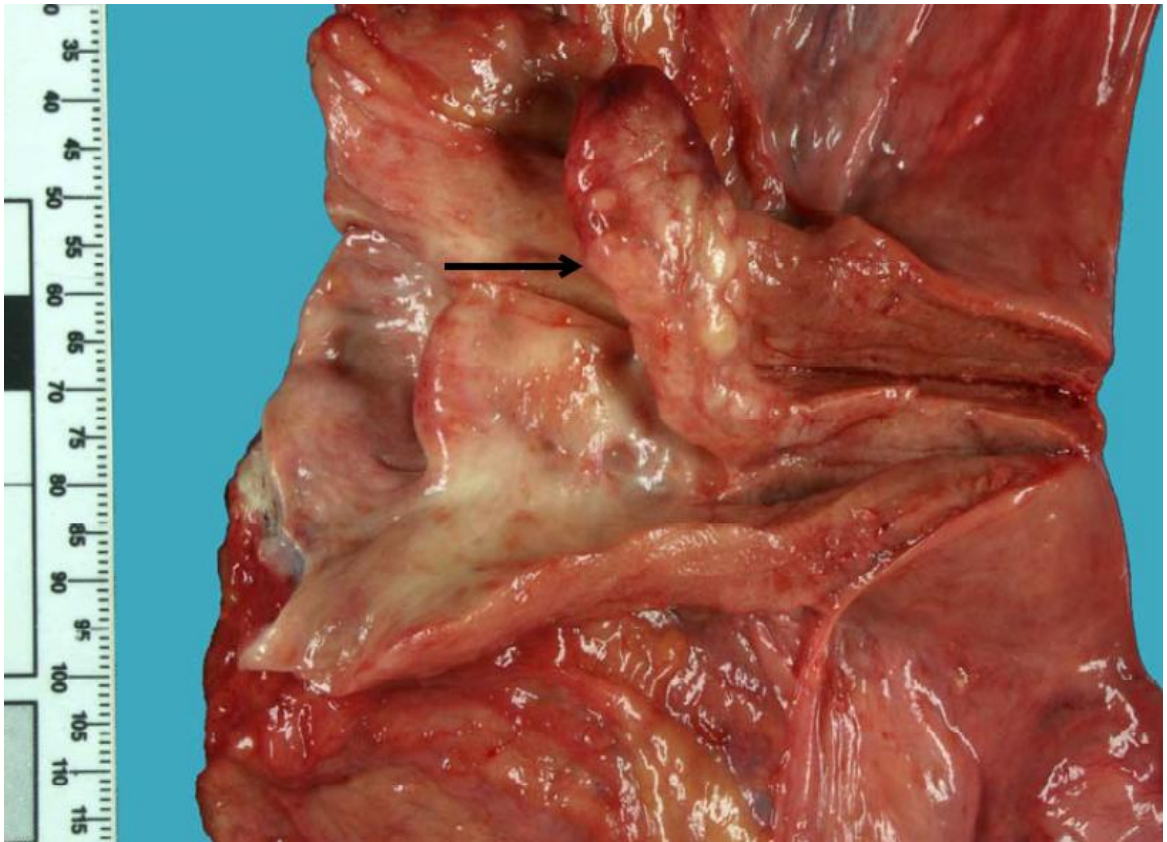
8. To study syphilitic mesaortitis on a macroscopic picture. To describe the macropreparation "Syphilitic mesaortitis (syphilitic aortic aneurysm)". Pay attention to the localization of the lesion in the aorta, the perimeter and thickness of the aortic wall in the damaged section, the nature of the intimal lesion.



9. To study syphilitic mesaortitis by microscopic picture. Describe the micropreparation "Syphilitic mesaortitis" (stains with hematoxylin and eosin, fuchselin). Pay attention to the localization and cellular composition of the infiltrate, the state of elastic fibers in the aortic wall and lesions.



11. Examine the endometrial polyp in the macroscopic picture. Describe the macro-preparation "Endometrial polyp". Pay attention to the localization of the lesion in the uterus, the size and color of the formation.



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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