

# **Practical skills in pathological anatomy-2**

## **MODULE: CARDIOVASCULAR SYSTEM**

**Topic №3** «Chronic heart insufficiency, pathomorphological manifestations, outcomes, complications, causes of death. The syndrome of acute circulatory insufficiency. Peculiarity in children»

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# The purpose

- Secure the knowledge of the mechanism of formation of acute and chronic heart insufficiency, peculiarity in children

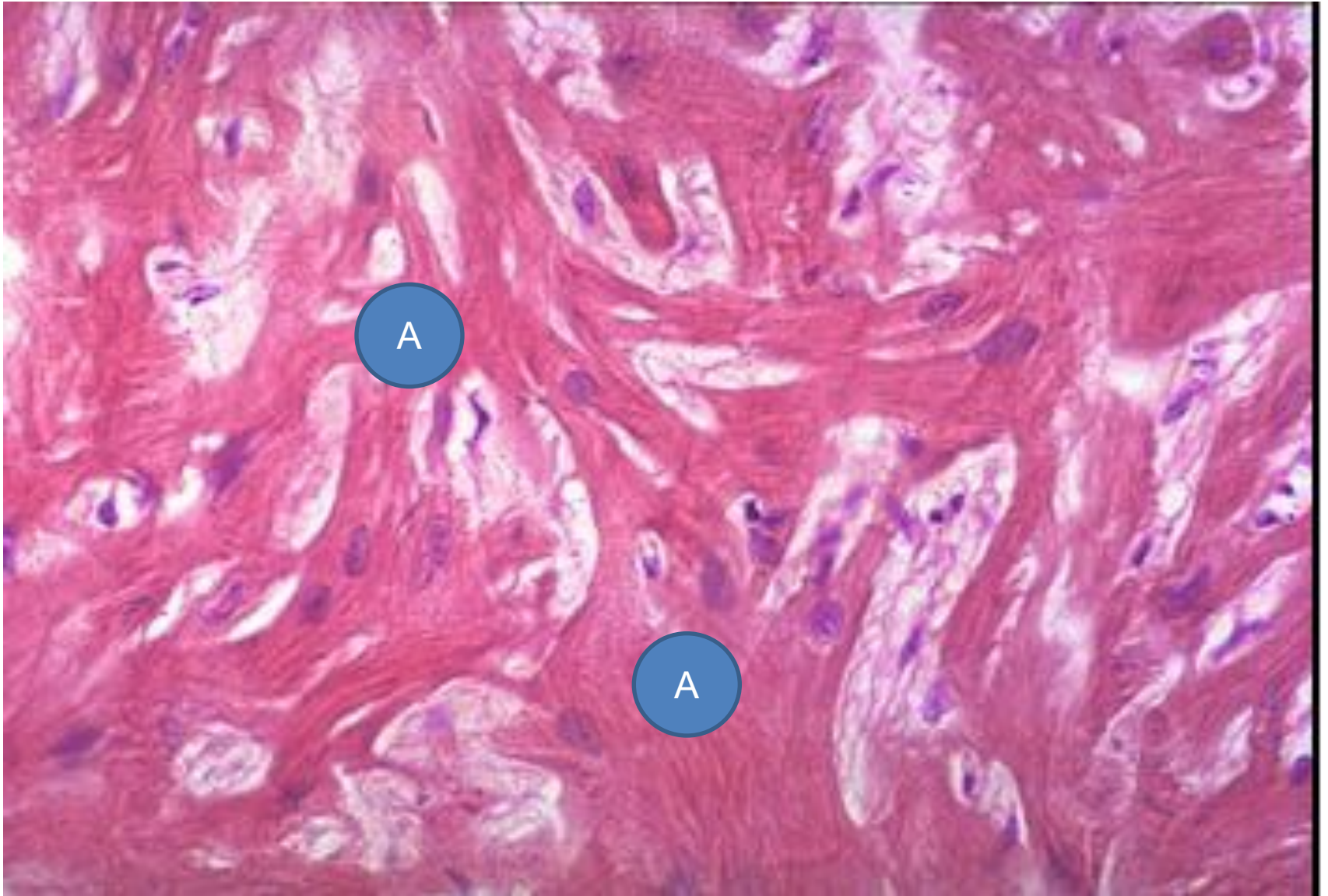
# Learning objectives:

- **The student should know:**
  - morphological characteristics of syndromes of acute and chronic heart insufficiency
- **The student should be able to:**
  - be able to explain the mechanism of acute and chronic heart insufficiency
  - interpret the macro- and microscopic picture of the changes in the heart and blood vessels during the syndrome of acute and chronic heart insufficiency

# Hypertrophic cardiomyopathy



# Hypertrophic cardiomyopathy



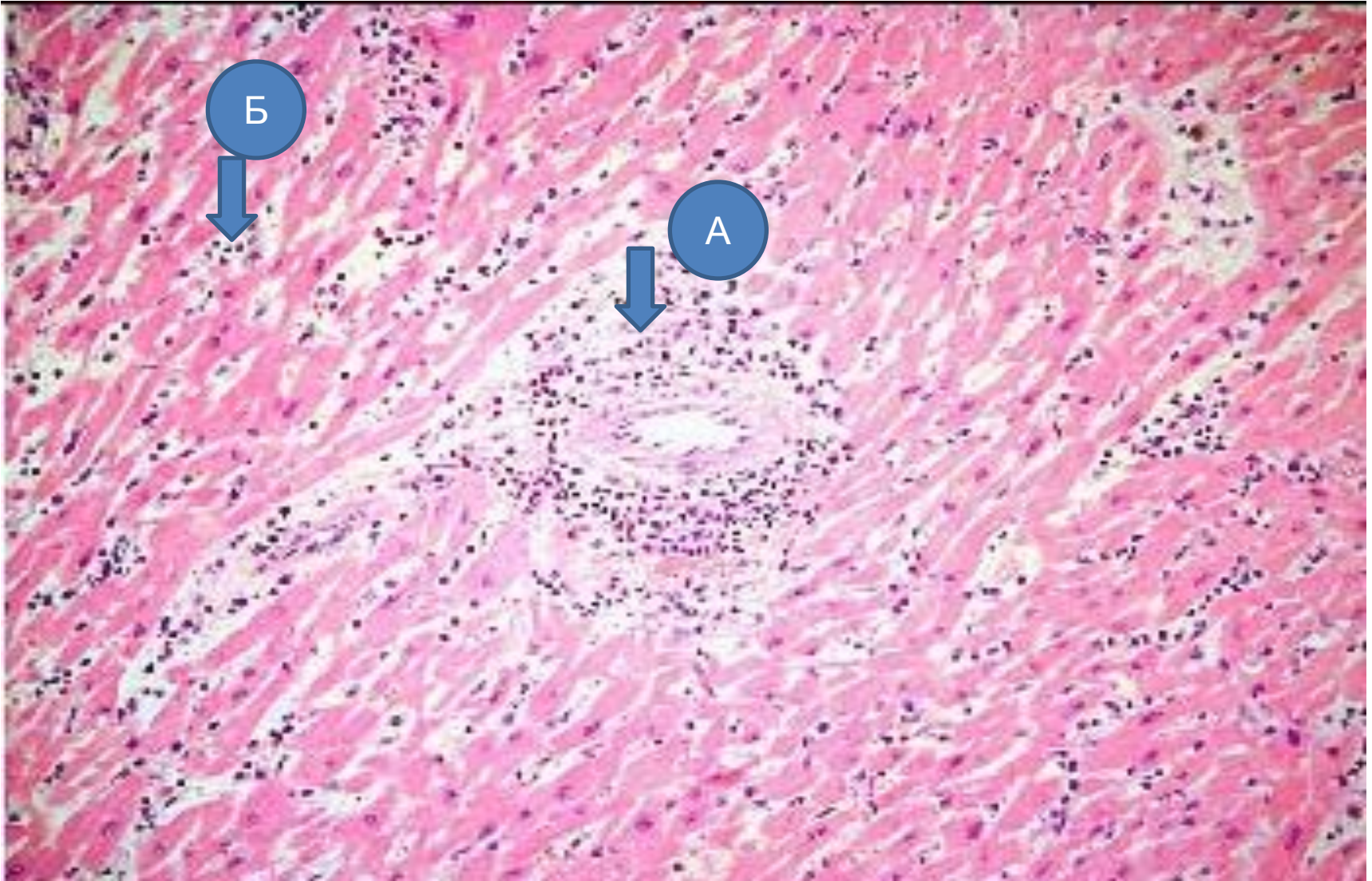
- A. Hypertrophy of cardiomyocytes

# Myocarditis



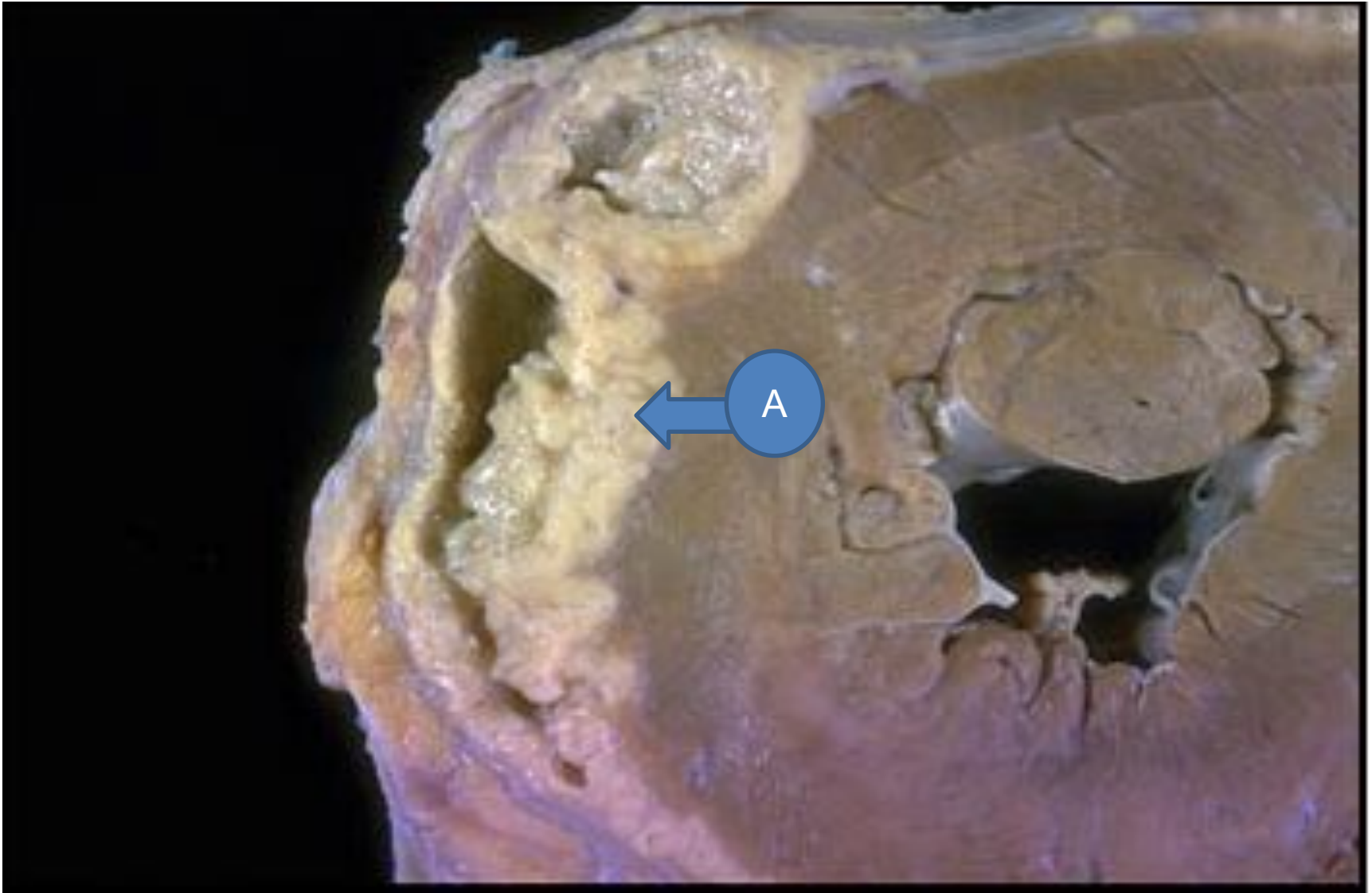


# Myocarditis



- A. Perivascular lymphocytic inflammatory infiltrate
- Б. Interstitial cells

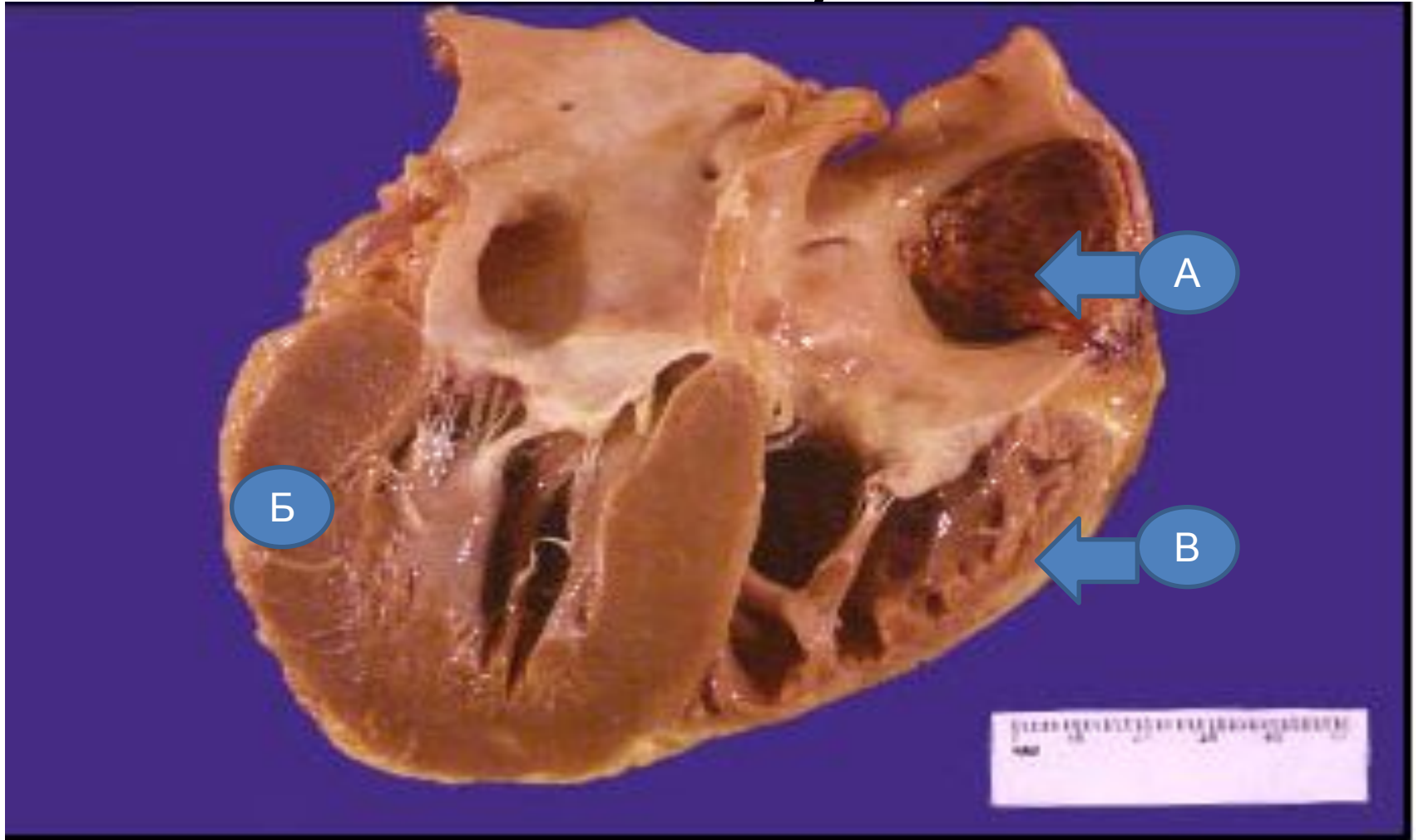
# Pericarditis



- A. Granulomatous pericarditis



# Heart, amyloidosis



- A. Thrombosis of the right atrium
- B. The left ventricle
- B. Right ventricle