

MORPHOFUNCTIONAL CHARACTERISTICS OF HEART AND PERIPHERAL VESSELS AT ARTERIAL HYPERTENSION IN COMBINATION WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASES

Aleksey Vasilievich SHABALIN, Ilya Semenovich SHPAGIN, Lubov Anatolievna SHPAGINA, Oksana Nikolaevna GERASIMENKO, Natalia Viktorovna SHLYAKHTINA

*Novosibirsk State Medical University of Roszdrav
630091, Novosibirsk, Krasnyi av., 52*

The peculiarities of clinical and functional status of the heart, peripheral vessels and microcirculation at arterial hypertension in combination with chronic obstructive pulmonary disease depending on systolic pressure level in pulmonary artery have been investigated. The study involved special functional and ultrasound methods. 104 patients with arterial hypertension (AH) in combination with chronic obstructive pulmonary disease (COPD) have been compared with the groups of 27 patients with AH, 30 patients with COPD and control group of 25 healthy men. The features of structural-functional state of the heart and peripheral vessels have been revealed. Abnormalities of cardiohemodynamics and peripheral blood flow have been shown. Various pathological hemodynamic types of microcirculation have been identified. The worst conceivable accidents of remodeling and blood flow disorders have been revealed in patients with AH in combination with COPD under condition of pulmonary hypertension.

Key words: arterial hypertension, chronic obstructive pulmonary disease, remodeling of heart and vessels, microcirculatory disorders.

Shabalin A.V. — corresponding member RAMN, doctor of medical sciences, professor, honored physician of RF
Shpagin I.S. — postgraduate student of the chair for hospital therapy, therapist
Shpagina L.A. — doctor of medical sciences, professor, head of the chair for hospital therapy, honored physician of RF
Gerasimenko O.N. — doctor of medical sciences, professor of the chair for hospital therapy, highest category physician; e-mail: 5085@ngs.ru
Shlyakhtina N.V. — candidate of medical sciences, assistant of the chair for internal diseases, physician of functional diagnostics