

CARDIO VASCULAR PROTECTION

Only strong, healthy and toxins free cardio-vascular system can vouchsafe valuable circulation of blood within human body.

The vascular system consists of variety of veins, arteries and capillaries. The quality of nourishment of various parts of human body, which is being provided through the blood, depends on the elasticity of the vascular lining. It is very important, how all organs are supplied with blood via capillaries. The circulation system and intercellular liquid circulation are major. The permeability level of major arteries and small capillaries are not of less importance.

Injuries of capillaries are the reasons of almost all cases of diseases of internals. It means that blood supply of the appropriate part of human body is insufficient. The present part becomes weaker when it doesn't get enough nourishment. If the circulation of blood slows down in the capillaries, the blood viscosity occurs. It is dangerous because of development of thrombosis. The smallest gaps of permeability of the capillaries are of the same size as the blood cell. Under presentation of toxins in the human organism they soon block up capillaries and disturb normal blood circulation.

The heart is like a pump. It performs blood circulation non-stop. The blood gets into the heart through the coronary arteries. If the permeability of arteries declines, inadequate blood supply may occur. The atherosclerosis plaques grow on the lining of arteries. These plaques disturb the circulation of blood. At the moment when the insufficient amount of blood flows in the heart, the pain starts. Atherosclerosis is the most important reason of heart ischemia.

Injuries of the cardiac veins and also some of inborn or acquired defects are the reason of ischemia and the disorder of normal activity of cardiac muscle. They are the obstacles for the cardiac muscle to function in a full potential and to adapt to the new loads. Therefore a great attention is to be paid on the improvement of blood supply for the myocardium. For that reason glucose injections may be applied in order the cardiac muscle to provide with energy. However, there are cases when overdosage of glucose is damaging, because the organism can not assimilate it. Under such conditions it is effective to proportionate glucose with amber acid.

The heart hypertonia is permanent increase of blood pressure. The heart is forced to work under increased stress, which results in heart alterations, i.e. enlargement of the size of heart, the linings become thicker and the permeability of the veins, which supply the heart with blood, reduces. In the case of ischemia, which usually goes with hypertonia, the blood pressure can not be reduced sharply, because it may disturb the heart's supply with blood, to raise the angina pectoris, stroke or even myocardial infarction or cerebral stroke. To improve blood circulation is the most important thing in order cardiac muscle to provide with the bigger amount of energy. The amber acid is suitable for this case, because it is the harmless remedy and due to this it is very important for the elderly people, who mostly suffer from those diseases.

Anti-ischemic effect of the amber acid is associated not only with the activation of oxidation of enzymes but also with the stimulation of the activity of the main enzyme of respiratory chain within cells of mitochondrion. The effect of the amber acid for the arrhythmia is under the influence of the improvement of metabolic processes in the cardiac muscle and stabilization of the coronary circulation of blood.

The effect of combination of amber acid with procaine hydrochloride is well known. Apart of influence on the metabolic processes of myocardium improvement of potassium/calcium metabolism at the extent of cells of cardial muscle are likely to occur. During the period of reanimation amber acid effectively influences normalization of the central nervous system, lowers sensitiveness to stress and regenerates morphological changes blood and brain cord.