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Connection of Metabolic Syndrome with Other Human Diseases

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Introduction

One of the most discussed interdisciplinary problems of modern medicine in recent years has become the metabolic syndrome (MetS), which is discussed by cardiologists, endocrinologists, gastroenterologists, hepatologists, gynecologists, rheumatologists, sexopathologists, surgeons and other specialists. Typically, the pathological state of MetS includes: insulin resistance, arterial hypertension, abdominal obesity, atherogenic dyslipidemia, ischemic heart disease. Analysis of a large study showed that MetS occurs in 47 million Americans, which is 23.7% of the total population [1]. Participation in scientific conferences, discussions with leading Russian cardiologists, retrieval of information search in the literature. Our team of researchers found that many of the changes in the cardiovascular system starts, due to improper operation of large arteriovenous anastomoses (AVA). Direct driver of violations of the capillary circulation is the presence of open AVA, excessive leakage of arterial blood into the venous bed, the rise of venous pressure. The opening / closing of AVA anastomoses in the human vascular system is caused by the need to urgently lower arterial pressure due to stresses, disorders, unduly small physical exertion.

After the overflow of hollow veins, mechano-induced arrhythmia, including ventricular tachycardia, can begin. After damage to the venous valves, the excess pressure transmitted through the AVA can reach small veins and venules, primarily pelvic organs and legs. There are problems: swelling, varicose veins, thrombosis, necrosis, etc. [2].

In official medicine, there are several definitions of metabolic syndrome (MetS). Several-means, there is none of the right. Typically, in the pathological condition of MetS include: insulin resistance, abdominal obesity, arterial hypertension, atherogenic dyslipidemia, coronary heart disease etc. The aim of our study is to find a global mechanism that leads not only to MetS, but also to many other human diseases. Participation in scientific conferences, discussions with leading Russian cardiologists, retrieval of information search in the literature [3].

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Known, cases of large AVA between the mesenteric artery and portal vein. This means that a person is in the sitting or standing positions to the liver via the portal instead of the veins venous blood will receive a mixture of arterial and venous. This mixture will be overly saturated with oxygen [5]. At the same time, some groups of working cells of the pelvic and intestinal organs will experience acute ischemia and stagnation for a long time (before taking a horizontal position by the body). This condition violates the conditions for optimal blood circulation and cellular metabolism of fats, proteins, carbohydrates, disturbed delivery to the addresses of hormones, enzymes. This leads to a state of "metabolic syndrome". Our group was able to show analytically that due to venous plethora there are many CVD and some types of cancer. Healthy lifestyle plus periodic extraction of venous blood and interstitial fluid from areas of stagnation can improve people's health. This is confirmed, among other things, by donor practice. The New theory of the CVD finds more and more positive arguments and facts. At this stage, it is necessary to confirm the universality of the new theory in special experiments [6].

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