

'Bioregulator' in Therapeutic Curing of Thrombosis

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Nowadays we have balloon angioplasty and thrombolysis as well known ways to cure thromboses. Balloon angioplasty is provided in high specialised institutions and needs accurate detection of place and size of thromboses and also x-ray control for efficient manipulation. This may be complicated if vessels are fragile or they have small lumen. Use of thrombolysis is limited in the postsurgical period because of the risk of bleeding. We offer a physiotherapeutic method combining both mechanisms which suffers none of the complaints above.

The proposed method of volumetric pneumopressure is carried out in conjunction with the complex 'Bioregulator-004M' apparatus which does not need additional diagnostic analysis or consumables. There is no need for qualified personnel or accurate detection of place and number of clots to execute manipulation. The risk of damaging vessels or bleeding meets physiological limits and the allergic reaction to drugs is absent. The method is cheap and easy to use.

A multi-sectional pneumatic cuff is worn on the problematic limb. Its modules are inflated according to certain algorithms to press on soft tissues and vessels. The resulting waves drive blood, lymph and tissular liquid. Ascending shifts of tension on endothelium helps to produce and activate thrombolysis factors. The work of the vasomotoric muscles is recreated, angiospasm cuts off and laminarity of blood flow is regenerated.

The external mechanical pressure acts on the clot, not stretching but clenching the walls of vessels (so that soft tissues absorb the pinch) and this excludes the probability of rupture. The width of the pneumatic cuff enables it to occupy any damaged area without having to detect the accurate location of thromboses, their size and number.

The 'Bioregulator-004M' and the ways of using it in therapeutic curing of deep and parietal thromboses are protected by Ukraine Patents No 26028, 6501A, 52011A. The methods are tested at the Research Institute of Vessel Surgery and Transplantology of the AMS of Ukraine.

So applying volumetric pneumopressure in combination with the complex 'Bioregulator-004M' apparatus results in a non-invasive cure that solves many problems for patients in a quicker, cheaper and more accessible way.