QUALITY OF LIFE IN PATIENTS WITH CHRONIC VENOUS DISEASES AND METHODS OF ITS IMPROVEMENT (REVIEW)

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Summary. Assessment of the quality of life is one of the leading directions in modern medicine and continues to develop intensively, remaining an integral part of comprehensive analysis of new methods of diagnosis, treatment and prevention. This article provides information about the history of the concept "quality of life" and the ambiguity of terminology. Particular attention is paid to the necessity of studying this indicator in patients with chronic veins diseases, the relevance of this direction in the early stages of the disease, as well as medicines able to solve the main tasks of drug therapy, to restore work capacity and, as a result improve the patient's life quality.

Key words: quality of life, chronic venous diseases, diosmin.

The learning of quality of life, that based on health assessment is one of the leading directions in modern medicine. It continues to develop intensively and remains as an integral part of the comprehensive analysis of new methods of diagnosis, treatment and prevention. This concept came to medicine from sociology and meant the totality of work and rest, quality of clothes, habitation, nutrition and environmental conditions.

The history of life quality research was started in 1949 after publication of the article "Clinical evaluation of chemotherapy in cancer" written by the professor D.A. Karnovsky from the Columbia University [1]. The necessity of studying psychological and social consequences of the disease together was identified as a result of prolonged observation of cancer patients. The term "quality of life" was used first by J.R. Elkington in 1966 in the "Medicine and quality of life" [2]. This term was recognized in medicine, using as a heading in "Cumulated Index Medicus" in 1977 [3]. The conception and development of the basic techniques for the studying of quality of life in various diseases was determined in the following decades [4–7]. MAPI Research Institute, which was not only the center for the study of quality of life but also for the coordinator of all researches about life quality in the world, has been functioning in France since 1995.

Up to now there are different definitions of quality of life. A.Novik, T.Ionova (1999) defined it as an inseparable relationship of the basic human states: emotional, physical, psychological and social [3]. N. Senkevich, A.Belyavsky (2000) – as a comfort level of the individual within himself and the livability in the society where he lives [8]. The WHO defined the quality of life as a state of complete physical, mental and social well-being [9]. Nevertheless, it is generally accepted that this concept is multidimensional and reflects the impact of disease and treatment on the patient's state of health.

The study of quality of life is actively conducted in all fields of medicine [4–8], including phlebological practice, which is associated with high prevalence of chronic venous diseases. The studies on quality of life evaluated various treatment options of chronic venous diseases [10], adherence to systemic therapy of post-thrombotic disease [11], comparing conservative and surgical methods of treatment [12] allowing to evaluate the patient's perception of the outcome of any treatment.

To date, the prevalence of chronic venous insufficiency (CVI) according to various authors is 1–40% among women and 2–17% among men, the prevalence of varicose disease of the lower extremities is 1–73% among women and 2–56% among men [13]. Almost every 2nd inhabitant of the planet suffers from varicose veins already, 2 sick men account for 3–4 sick women, 62.3%
The highest prevalence of chronic venous diseases have early signs of venous reflux is growing [15]. The number of schoolchildren who are found to be women of reproductive age [14]. The best known syndromes and actual CVI of the lower extremities classifications of varicose veins, post-thrombotic syndrome and actual CVI of the lower extremities are distinguished. Their interaction helps to reduce the tone of the venous wall and leads to pathological changes on the molecular, cellular and tissue levels. As a result, it triggers conditions for increased thrombus formation. Over the past 30 years a number of classifications of varicose veins, post-thrombotic syndrome and actual CVI of the lower extremities have been proposed. The best known classification of varicose disease was suggested by F. Martorell (1972), H.J. Leu (1979), CVI Widmer (1978), J. Porter (1988), V.S. Savel'eva (1972). The international classification of CEAP (1994), along with clinical manifestations of CVI, reflects the quality of life of the patient [27].

The initial degree of CVI is characterized by functional symptoms without special cosmetic effects. But such complaints as paresthesia, skin itching, night cramps can reduce the patient's QL. Progression of CVI manifested by persistent severe pain in the lower extremities and edema, increased after insignificant physical exertion, development of hyper- or hypopigmentation, trophic skin disorders and their complications sharply reduce patient's quality of life, lead to a decrease or loss of ability to work and permanent disability. Therefore, early symptoms should be regarded as a signal that the patient should see a doctor.

Subjective and objective methods of investigation are important to confirm a disorder of the venous system of the lower limbs and determine the kind of treatment. Thorough history taking is vital: characteristics of work and sport activity, characteristics of everyday clothes, past medical history, family history, etc. On examination it is necessary to inspect both lower extremities, inguinal areas, anterior and lateral walls of the abdomen, paying attention to the presence of dilated intradermal and subcutaneous veins, signs of varicose veins of large and small saphenous veins and presence of edema and trophic disorders on the skin of the legs. Dilation of veins on the legs can vary from small vascular "asterisks" and intradermal (reticular) nodules to large sinuous trunks, nodes, protrudingplexuses that clearly appear in the vertical position of the patient.

Palpation allows to reveal the signs of thrombophlebitis and to determine the boundary zone of indurative cellulitis. Extended veins are elastic consistency, easily compressed with increased skin temperature above them. In recumbent position, the tension of the veins and the size of the varicose veins is decreased.

In all cases it is necessary to determine the pulsation of the arteries on feet. Instrumental diagnostic methods are used in cases when diagnosis and the nature of treatment are not clear, the scope of possible surgical manipulations is unclear.

Treatment of CVI should be complex and combine medical therapy, compression, sclerotherapy and surgical treatment. In recent
decades, the role of pharmacotherapy has significantly increased, the main goals of which are elimination/reduction of CVI, prevention of recurrence of the disease, postoperative rehabilitation, retention of work capacity, improvement of patient's quality of life, and prevention of CVI in risk groups. Oral venotropic drugs of plant or synthetic origin are able to solve the main tasks of drug therapy.

There are 4 groups of phlebotonics. So far drugs have been based on diosmin, which is considered to be the reference chemical compound for the production of various dosage forms [28]. This is natural isoflavonoid, obtained from plants of the Rutaceae family and it can be obtained by chemical synthesis [29]. Clinical efficacy and safety of diosmin have been widely studied. It has been shown to accumulate in venous vessels [30], to reduce norepinephrine metabolism in comparison with patients who did not take this drug [31], to improve microcirculation [32]. A clinical study with 16728 patients has convincingly demonstrated the ability of diosmin (600 mg) to effectively reduce the perimeter of the ankle independently from the age, gender and degree of CVI, good tolerance and low incidence of side effects [33], so it remains the drug of choice at all stages of the disease, including complicated forms [34]. Semisynthetic diosmin 600 mg was taken once a day and 300 mg was taken twice a day by 255 patients. It was compared in a double-blind, placebo-controlled therapeutic study. The obtained results were comparable, but clinical effect was more rapid with the 600 mg diosmin taken once a day [35]. In a prospective study with 80 patients, monotherapy with high diosmin dose showed reliable reduction of the severity of clinical symptoms of CVI, and changing the stage of the disease (according to the CEAP classification), and improvement of the quality of patient's life [36].

In addition, diosmin in the dose of 600 mg is successfully used in obstetrics and gynecology, it is not contraindicated to pregnant women [37, 38], has a positive effect on glucose metabolism [39, 40], hepatoprotective effects [40] and is used in the treatment of cardiovascular diseases [41].

Thus, diosmin-containing venoprotectors are a bioavailable and biosafe group of drugs that are effective at all stages of chronic veins diseases, including complicated forms, and in patients with accompanying therapeutic pathology. Long-term administration of high doses of diosmin promotes regression of the disease, manifested by a decrease in the severity of clinical manifestations, improvement of venous and lymphatic outflow, correction of hemorheological disorders with minimal side effects. This leads to the restoration of work capacity and, as a result, to improving of the quality of the patient's life.

Conflict of interests
There is no conflict of interests.

References


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