American Journal of Interdisciplinary Research and Development
ISSN Online: 2771-8948
Website: www.ajird.journalspark.org
Volume 14, March, 2023

THE ROLE OF MODERN SCLEROTHERAPY IN VASCULAR SURGERY

Zokhirov Adkhamjon Rafiqovich
Assistant of Department of General Surgery №2, Tashkent Medical Academy

Rakhimov Ulugbek Fakhriddin ogli
Student of Tashkent Medical Academy

Khujanova Shokhruza Shukhrat qizi
Student of Tashkent Medical Academy

Sobirov Shokhjakhon Sobirjonovich
Student of Tashkent Medical Academy

Dovudkhonova Sarvinozkhon Jaxongirkhon qizi
Student of Tashkent Medical Academy

Fakhriddinov Firdavs Faxriddinovich
Student of Tashkent Medical Academy

Omonullakhujaev Saidakromkhon Ubaydullaxonovich
Student of Tashkent Medical Academy

Annotation
To improve the quality of life of patients with dilated veins, suspected varicose veins and patients with comorbidities who do not have indications for a high level of invasiveness, to study the degree of change in working capacity and provide information about it.

Keywords: high radio frequency, pulse, varicose veins, sclerotherapy, diabetes melliteus, flebectomy, ethoxisclerol.

Introduction. Today, sclerotherapy is one of the most popular minimally invasive surgical methods, which allows not only to destroy varicose veins, but also to correct impaired hemodynamics in varicose veins (elimination of pathological blood flow - reflux). The popularity of sclerotherapy is due to its low cost, technical simplicity and availability, almost ideal aesthetic and functional results.
The main disadvantage of the technique is insufficient radicality - a vein that has not been surgically removed may rejoin the blood circulation as a result of recanalization, or new varicose veins may appear in place of the former veins due to the development

of the disease. At the same time, modern methods of sclerotherapy using foam preparations, ultrasound, several point injections into reflux sites, operations and endovasal thermal obliteration (EVTO) allow achieving comparable results. The correct definition of indications for sclerotherapy and its implementation by a highly qualified specialist can reliably eliminate varicose veins, especially in the early stages of varicose veins.

Purpose of Study

Treatment of varicose veins of the legs by methods of endovasal thermal obliteration (EVTO) and intravenous administration of sclerosing drugs while maintaining the ability to work and quality of life of patients with such minimally invasive surgical methods.

Materials and Methods of Research

The department of vascular surgery of the Tashkent Medical Academy examined 25 patients with varicose veins and suspected varicose veins, with concomitant diseases. The audits were carried out from February 2021 to February 2023. At the same time, patients with 0, I, II degrees of venous dilatation were observed and there is a risk of observation, patients with concomitant diseases, especially diabetes mellitus, obesity, heart and vascular diseases, open surgeries and a modern high-frequency generator (HFG) studied the extent to which the performed procedures have changed the quality of life of patients.

Results

It was noted the expansion of superficial veins 0, I, II, III levels. Studied in 25 patients at risk of dispensary observation and concomitant diseases. Of these, 24% (16/25) of patients had grade 0 dilatation, 20% (5/25) of patients had grade I dilatation, 16% (4/25) of patients had grade II dilatation, and 8% (2/25) of patients had superficial vein III degree, revealed vasodilation. 32% (8/25) of the 25 patients studied had comorbidities. Of these, 62.5% (5/8) of patients had obesity and arterial hypertension, 25% (2/8) of patients had diabetes mellitus, 12.5% (1/8) of patients had heart and vascular diseases, including cancer (2010 years) and was found to be overweight. 4 patients with level 0, 3 patients with level I, 2 patients with level II, 1 patient with cardiovascular disease, 1 patient with large body weight, 1 patient with diabetes mellitus or 48% (12/25) of patients with modern minimally invasive high sclerosis of the radiofrequency generator (RFG), in 2 patients of the III degree, in 3 patients with a large body weight, in 2 patients of the II degree, i.e. 28% (7/25) of patients underwent open flebectomy.

The remaining 24% (6/25) of patients underwent sclerotherapy. 58.3% (7/12) of patients with grade 0 and I within 3 days, 25% (3/12) of patients with grade II and cardiovascular disease within 7 days, heavy body weight and diabetes mellitus 16.7 %

(2/12) patients restored their full quality of life and ability to work within 20 days. Patients who underwent open flebectomy restored their quality of life and ability to work within 15 days. Complications during the sclerosing procedure using a modern minimally invasive high-frequency generator (HFG) were observed in 8.3% (1/12) of patients.

Conclusion

It has been established that the quality of the sclerosing procedure performed using a modern minimally invasive high-frequency generator depends on the level of the disease and the presence of concomitant diseases in patients. In particular, this method is preferable for patients due to the absence of cosmetic defects and quick recovery, and the disadvantages are that in some cases, due to microwave energy, which gives the quality of this device, it can cause ulcers in patients with diabetes mellitus. In addition, it is possible to find out to what extent the blood vessels work by converting the oscillations that occur in the blood vessels into impulses using the apparatus created and improved by the authors.

List of References

1. Каримов, Ш. И., Ирназаров, А. А., Асраров, У. А., Авлоназаров, Х. А., Бобоев, Б. М., Зохиров, А. Р., ... & Агзамов, Р. В. (2019). Построение математических моделей оценки степени тяжести и прогноза эффективности лечения критической ишемии нижних конечностей при мультифокальном атеросклерозе.
2. Yusufjanovich, E. U., Rafiqovich, Z. A., & Tohirovich, G. B. (2023). PRINCIPLES OF STUDYING LIVER MORPHOLOGY IN EXPERIMENTAL DIABETIC FOOT SYNDROME. *World Bulletin of Public Health*, *19*, 63-65.
3. Abduraimovna, A. F., Komilovna, S. G., Yusufjanovich, E. U., & Rafiqovich, Z. A. (2023, February). EVALUATION OF THE EFFECTIVENESS OF PHYSICAL ACTIVITY IN PELVIC ORGAN PROLAPSE. In *E Conference Zone* (pp. 42-48).
4. Атаходжаева, Ф. А., Сохибова, Г. К., Эргашев, У. Ю., & Зохиров, А. Р. (2023, February). ВЛИЯНИЯ ВИТАМИНА Д НА ТАКТИКУ ВЕДЕНИЯ ЖЕНЩИН С МИОМОЙ МАТКОЙ. In *E Conference Zone* (pp. 35-41).
5. Yusufjanovich, E. U., Irisbaevich, M. G., Rafiqovich, Z. A., Abduraimovna, A. F., & Komilovna, S. G. (2023, February). IDIOPATHIC THROMBOCYTOPENIC PURPURA IN PREGNANCY. In *E Conference Zone* (pp. 13-20).
6. Rafiqovich, Z. A. (2023, February). IMPROVING THE DETECTION OF MORPHOLOGICAL CHANGES IN PURULENT WOUNDS. In *E Conference Zone* (pp. 51-57).
7. Zokhirov, A. R. Ernazarov Kh. I. THE STUDY OF PATHOPHYSIOLOGICAL CHANGES IN PURULENT-NECROTIC PROCESSES OF THE DIABETIC FOOT SYNDROME." International scientific forum-2022". June 2022. p597-605.

8. Эрназаров, Х., Зохиров, А., Эргашев, У. Ю., & Исраилов, Р. (2022). ПАТОМОРФОЛОГИЧЕСКАЯ КАРТИНА ЖИЗНЕННО ВАЖНЫХ ОРГАНОВ ПРИ ЭКСПЕРИМЕНТАЛЬНОЙ МОДЕЛИ ДИАБЕТИЧЕСКОЙ СТОПЫ.
9. Зохиров, А. Р., & Эрназаров, Х. И. Патоморфологическая картина жизненноважных органов при экспериментальной модели диабетической стопы. International scientific forum-2022". June 2022. p146-153.
10. Зохиров, А. Р., Эрназаров, Х. И., & Эргашев, У. Ю. (2022, January). ПАТОМОРФОЛОГИЧЕСКИЕ ОСОБЕННОСТИ ЗАЖИВЛЕНИЯ РАН ПРИ ЭКСПЕРИМЕНТАЛЬНОЙ МОДЕЛИ ДИАБЕТИЧЕСКОЙ СТОПЫ. 64-ОЙ НАУЧНО-ПРАКТИЧЕСКОЙ КОНФЕРЕНЦИИ ОБУЧАЮЩИХСЯ «НАУКА И ЗДОРОВЬЕ» ПОСВЯЩЕННАЯ ДНЮ НАУКИ РЕСПУБЛИКИ КАЗАХСТАН С МЕЖДУНАРОДНЫМ УЧАСТИЕМ.
11. Ergashev, U. Y., Zokhirov, A. R., & Minavarkhujaev, R. R. (2023). Study and treatment of changes in biochemical processes in complications of diabetes mellitus.
12. Эрназаров, Х. И., Эргашев, У. Ю., Зоҳиров, А. Р., & Каримов, Х. Я. (2022). ЭФФЕКТИВНОСТЬ ИСПОЛЬЗОВАНИЕ ПРЕПАРАТА РЕОМАННИСОЛ В ЛЕЧЕНИИ ЭКСПЕРИМЕНТАЛЬНОЙ МОДЕЛИ ДИАБЕТИЧЕСКОЙ СТОПЫ.
13. Ergashev, U. Y., Zokhirov, A. R., & Minavarkhujaev, R. R. (2022). Determination of changes in the lipid peroxidase index in purulent-necrotic lesions of the lower extremities.
14. Зохиров, А. Р., & Набиева, А. Ш. (2023). ИЗУЧЕНИЕ ПАТОМОРФОЛОГИЧЕСКИХ ОСОБЕННОСТЕЙ СОВРЕМЕННОГО ЛЕЧЕНИЯ ГНОЙНО-НЕКРОТИЧЕСКИХ ПРОЦЕССОВ ПРИ САХАРНОМ ДИАБЕТЕ. *Interpretation and researches*, *1*(2), 25-36.
15. Зохиров, А. Р. (2023). ОБОСНОВАНИЕ ПРОЦЕССОВ ЭПИТЕЛИЗАЦИИ И РЕГЕНЕРАЦИИ ПРИ ГНОЙНО-НЕКРОТИЧЕСКИХ ПРОЦЕССАХ НИЖНИХ КОНЕЧНОСТЕЙ ПРИ САХАРНОМ ДИАБЕТЕ. *Conferencea*, 174-180.
16. Rafiqovich, Z. A. (2023). OBSERVATION OF BIOCHEMICAL RESULTS IN EXPERIMENTAL DIABETIC FOOT SYNDROME. *Conferencea*, 181-188.
17. Rafiqovich, Z. A. (2023). MONITORING OF THE REGENERATION PROCESS IN PURULENT-NECROTIC PROCESSES OF THE LOWER EXTREMITIES. *Conferencea*, 189-194.
18. Rafiqovich, Z. A. (2023). STUDY OF THE EFFECT OF LIPID PEROXIDASE ANALYSIS ON THE BODY IN DIABETIC FOOT SYNDROME. *Conferencea*, 76-82.
19. Rafiqovich, Z. A. (2023). CONTROL OF INDICATORS OF ENDOTOXICOSIS IN DIABETIC FOOT SYNDROME. *Conferencea*, 83-90.
20. Yusufjanovich, E. U., Irisbaevich, M. G., Rafiqovich, Z. A., & Irsaliyevich, E. K. (2023). EVALUATION OF EFFECTIVENESS OF SPLENECTOMY IN CHRONIC LEUKEMIAS. *World Bulletin of Public Health*, *19*, 79-83.
21. Yusufjanovich, E. U., Rafiqovich, Z. A., Tashkarganovich, M. A., & Tohirovich, G. B. (2023). ASSESMENT THE EFFECTIVENESS OF MINIMALLY INVASIVE

SURGICAL METHODS IN ACUTE CHOLECYSTITIS. *International Journal of Scientific Trends*, *2*(2), 14-23.

22. Yusufjanovich, E. U., & Rafiqovich, Z. A. (2023). The Use of Endovascular Laser Coagulation in the Recurrence of Varicose Veins of the Lower Extremities. *International Journal of Scientific Trends*, *2*(2), 24-31.

23. Эргашев, У. Ю., & Зохиров, А. Р. (2023). ОЦЕНКА ЭФФЕКТИВНОСТИ МАЛОИНВАЗИВНЫХ ОПЕРАЦИЙ ПРИ МЕХАНИЧЕСКОЙ ЖЕЛТУХЕ И ПРИМЕНЕНИЕ АЛГОРИТМА. *European Journal of Interdisciplinary Research and Development*, *12*, 6-16.

24. Эргашев, У. Ю., Зохиров, А. Р., Мустафакулов, Г. И., & Моминов, А. Т. (2023). ОЦЕНКА ПРИМЕНЕНИЯ И ЭФФЕКТИВНОСТИ СОВРЕМЕННЫХ ОПЕРАТИВНЫХ ВМЕШАТЕЛЬСТВ НА ПАТОЛОГИЧЕСКИХ ПРОСТРАНСТВАХ ПЕЧЕНИ. *European Journal of Interdisciplinary Research and Development*, *12*, 17-26.

25. Эргашев, У. Ю., & Зохиров, А. Р. (2023). ИЗУЧЕНИЕ ПАТОМОРФОЛОГИИ ПЕЧЕНИ ПРИ ЭКСПЕРИМЕНТАЛЬНОМ СИНДРОМЕ ДИАБЕТИЧЕСКОЙ СТОПЫ. *European Journal of Interdisciplinary Research and Development*, *12*, 27-31.

26. Ergashev, U. Y., Zohirov, A. R., Minavarkhojayev, R. R., & Mominov, A. T. (2023). IMPROVING METHODS FOR DIAGNOSING AND MONITORING ENDOTOXICOSIS IN EXPERIMENTAL DIAETIC FOOT SYNDROME. *World Bulletin of Public Health*, *19*, 84-95.

27. Zohirov, A. R., Ergashev, U. Y., & Ernazarov, H. I. Qandli diabetda oyoqning yiringlinekrotik shikastlanishlarining patomorfologik jihatlarini kompleks davolashni o'rganish. International scientific forum-2022". June 2022. p132-136.

28. Ergashev, U. Y., Zokhirov, A. R., & Minavarkhujaev, R. R. (2023). The study of pathological physiology of indicators of endogenous intoxication in purulent-necrotic lesions of the lower extremities.

29. Ergashev, U. Y., Zokhirov, A. R., & Ernazarov, K. I. (2022). THE STUDY OF PATHOMORPHOLOGICAL DIAGNOSIS OF VITAL ORGANS AFTER MODERN TREATMENT OF DIABETIC FOOT SYNDROME.

30. Ergashev, U. Y., Zokhirov, A. R., & Ernazarov, K. I. (2022). THE STUDY OF DIAGNOSTICS AND PREVENTION OF PATHOPHYSIOLOGICAL PARAMETERS AFTER MODERN TREATMENT OF PURULENT-NECROTIC PROCESSES IN DIABETIC.

31. Каримов, Ш. И., Ирназаров, А. А., Асраров, У. А., Авлоназаров, Х. А., Бобоев, Б. М., Матмурадов, Ж. К., & Агзамов, Р. В. (2019). ПРИМЕНЕНИЕ ГИБРИДНЫХ ХИРУРГИЧЕСКИХ ВМЕШАТЕЛЬСТВ У БОЛЬНЫХ С КРИТИЧЕ-СКОЙ ИШЕМИЕЙ НИЖНИХ КОНЕЧНОСТЕЙ ПРИ МУЛЬТИФОКАЛЬНОМ АТЕРОСКЛЕРОЗЕ. *Тиббиет янги куни*, *3*, 27.

32. Yusufjanovich, E. U., & Rafiqovich, Z. A. (2023). Evaluation of the lipid peroxidase index in diabetic complications. *Conferencea*, 68-73.
33. Yusufjanovich, E. U., & Rafiqovich, Z. A. (2023). Treatment of purulent-necrotic lesions of the lower extremities with modern drugs. *Conferencea*, 88-94.
34. Ergashev, U. Y., Mustafakulov, G. I., Mominov, A. T., Yakubov, D. R., Zohirov, A. R., & Ernazarov, X. I. (2022). Effective of Simultaneous Surgeries in Chronic Immune Thrombocytopenia. *Jundishapur Journal of Microbiology*, *15*(2), 638-644.
35. Ergashev, U. Y. (2022). Ernazarov Kh. I., Zohirov AR, Alzabni ID 2022. Complex Treatment of Experimental Model of Diabetic Foot Syndrome. *American Journal of Medicine and Medical Sciences*, *12*(5), 471-480.
36. Yusufjanovich, E. U., Rafiqovich, Z. A., & Irsalievich, E. K. (2023). Assessment of the Process of Epithelialization After Complex Treatment of Diabetic Foot Syndrome. *Texas Journal of Medical Science*, *16*, 19-23.