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Report of a Member of the Thesis Council on the Thesis by KEBRIAKOV Aleksei Vladimirovich on “*Ways to Optimize the Results of Profundoplasty in the Treatment of Chronic Lower Limb Ischemia*”.

Dear Colleagues,

I have had the pleasure of reading Dr. Kebriakov’s Thesis. It consists of an introduction and five chapters in addition to a conclusion and practical recommendations. I will review it in order.

Introduction and Relevance

The introduction is logically presented. The goal set by the author of the dissertation research - to improve the results of profundoplasty in patients with chronic ischemia of the lower extremities by optimizing the tactics and improving the methods of surgical treatment seems to be timely, relevant and significant.

Scientific Novelty of the Study, the Results Obtained, Conclusions and Practical Recommendations Formulated in the Thesis

The scientific value of the study is beyond doubt and consists in assessing and compiling an algorithm for the surgical treatment of patients with critical lower limb ischemia who have a hemodynamically significant atherosclerotic lesion of the deep femoral artery and occlusion of the superficial femoral artery. Indications for profundoplasty and limb revascularization through the deep femoral artery are formulated. In addition, a new modification of the classical profundoplasty is presented, which has proven its effectiveness in combination with the restoration of the iliac segment patency as part of a hybrid operation. A new minimally invasive method for the treatment of pseudoaneurysm that has arisen after endovascular access has also been developed.

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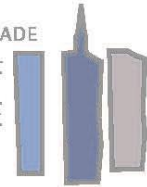
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Significance of the Obtained Results for Theory and Practice

The application in practice of the main provisions of the Thesis makes it possible to improve the results of surgical treatment of chronic arterial insufficiency of the lower extremities, in particular after profundoplasty with an occluded superficial femoral artery. The data obtained by the author in the course of the study contribute to the implementation of a differential approach to the use of various methods of limb revascularization and reduce the number of "major" amputations.

Validity and Reliability of Scientific Provisions and Conclusions

The validity of the provisions formulated in the Thesis is due to a clearly defined goal and the correct formulation of tasks aimed at its implementation. Research methods are adequate to the tasks set, modern and relevant. The studies presented in the work are reliable, the conclusions and recommendations are justified and do not raise objections.

Conclusion

Due to the numerous proximal and distal collateral branches that connect it with the iliac and popliteal artery, the deep femoral artery is of great importance for the vascularization of the lower extremities. Procedures on the deep femoral artery significantly increase the immediate and long-term effects of arterial reconstructions on the lower extremities. Although this has been known in vascular surgery for 50 years, its importance has not diminished.

Profundoplasty is sometimes sufficient as an isolated procedure. Almost regularly, it is an integral part of aorto-iliac-femoral reconstructions. It can also be part of femoral distal reconstructions. Not infrequently, it excludes the need for femoro-distal reconstruction. This shortens and simplifies the entire procedure.

Due to this, profundoplasty has not lost its importance even in the endovascular era. Moreover, new techniques were created for its performing. In addition to classical surgery, there are endovascular and hybrid ones. Because

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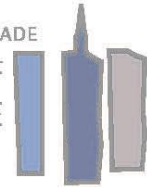
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of that, this Thesis which once again explains in detail the potential of profundoplasty in patients with POAD and lists new techniques of performing, is of exceptional importance.

In summary, the independently conducted research by Kebriakov is both novel and a worthy addition to the literature. It meets the requirements established by the University for awarding the degree to which he has applied.

Respectfully,

Lazar Davidović, MD, PhD, FETCS

Date: September 10th 2023.

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