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**INTERNATIONAL SCIENTIFIC
AND PRACTICAL CONFERENCE**

**"ACTUAL ISSUES OF THE DEVELOPMENT OF SCIENCE
AND ENSURING THE QUALITY OF EDUCATION"**

**Florence, Italy
March 28 -31, 2023**

ISBN 979-8-88955-323-6

DOI 10.46299/ISG.2023.1.12

ACTUAL ISSUES OF THE DEVELOPMENT OF SCIENCE AND ENSURING THE QUALITY OF EDUCATION

Proceedings of the XII International Scientific and Practical Conference

Florence, Italy
March 28 – 31, 2023

UDC 01.1

The 12th International scientific and practical conference “Actual issues of the development of science and ensuring the quality of education” (March 28 – 31, 2023) Florence, Italy. International Science Group. 2023. 428 p.

ISBN – 979-8-88955-323-6

DOI – 10.46299/ISG.2023.1.12

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RESULTS OF USE OF LOCAL COAGULANT TO STOP BLEEDING

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Bleeding is a consequence of surgical interventions and injuries and poses a threat to human life. Today, both in Europe and in Ukraine, recommendations have been developed to stop bleeding by applying pressure on the wound, applying a tourniquet, packing the wound, using hemostatic agents [1, 2].

There are also direct-acting coagulants, which are based on gelatin, collagen, oxidized cellulose and chitosan, which accelerate the process of blood clotting and the formation of a blood clot. It is known that many scientists are developing new hemostatic agents, because the creation of coagulants for local use will solve the problem of treating patients with massive bleeding [1, 3].

Purpose. Studying the results of using a hemostatic agent in the form of a composite powder "PLANTOR" (Technical specification 20.4-44827581-001:2022), of the trade

mark “PLANTOR tm” and “Dr. Sokolovskiy R” of the manufacturer “Medpro Nutraceuticals” (Latvia) by order of LLC “Plantor” (Ukraine, Dnipro).

Materials and methods. The study was conducted in 78 patients aged 27 to 58 years with critical and non-critical bleeding. We used of semantic, analytical and statistical methods.

Results. In trauma patients, 32% of cases had critical bleeding from the extremities, when blood stains on clothes spread profusely or blood gushed from an open wound and the pool of blood quickly increased. This is patients had orthostatic hypotension. Other patients (68%) had bleeding from other parts of the body, including from hard-to-reach places for tourniquet application. Except compression, tamponade and the application of a tourniquet, we used of local coagulant powder “PLANTOR” to stop bleeding. The composition of this drug includes Aerosil, Karaginan, a mixture of volatile oils. These components enhance blood clotting and provide a hemostatic, sorption and antiseptic effect within 30 seconds. The use of a new hemostatic agent made it possible to prevent fatal consequences and prevent complications such as fainting, collapse and hemorrhagic shock. It also prevented the development of ischemia, reperfusion after prolonged use of tourniquet-tourniquet and neuropathy when the nerve was compressed. This is possible to reduce the terms of treatment and medical rehabilitation of patients. The main indications for the use of the local coagulant powder “PLANTOR” are all wounds that bleed and other lacerations, abrasions and cuts. This drug is produced according to all international standards of the European Union and meets all GMP requirements as a high-quality product of international level.

Conclusion. The use of a new local hemostatic drug “PLANTOR” can be recommended as an adjunct to revitalization and local coagulation in the provision of emergency medical care for bleeding.

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