

**REPORT**  
**on the results of the pilot testing of the project**  
**«Medical tubular bandages containing camel hair «LEONARDA»,**  
**at the site of a Separate structural unit – the Russian**  
**Gerontological Scientific and Clinical Center» Federal State Budgetary Educational**  
**Institution of Higher Education «Russian Research Medical University named after N.I.**  
**Pirogov»**  
**of the Ministry of Health of the Russian Federation**

Moscow

«16» September 2020

**1. The list of persons who participated in the evaluation of the results of the pilot testing:**

– Abroskin Olga Vladimirovna, Deputy Head of the Federal Center for Coordination of Activities of the Subjects of the Russian Federation for the development of the organization of medical care in the "geriatrics" profile of the OSP RGNCC FGAOU at the N.I. Pirogov RNIMU of the Ministry of Health of the Russian Federation.

– Tsareva Irina Vladimirovna is the chief nurse of the OSP RGNCC FGAOU at the N.I. Pirogov RNIMU of the Ministry of Health of the Russian Federation.

**2. General information:**

*2.1. Information about the pilot testing project:*

Medical elastic bandage, ribbon, perforated "LEONARD" of medium stretchability 8cm\*5.0m.

*Description of the pilot testing object:*

Elastic medical bandage, ribbon, perforated "LEONARDA"

(RU No. RZN 2019/9401), is an elastic perforated knitted fabric, of medium stretchability.

The solution is intended for the treatment and prevention in the complex therapy of diseases: varicose veins, chronic venous insufficiency, tissue nutrition problems, prevention of bleeding and hematomas after operations on veins and joints, fixation of soft tissues and articular ligaments after injuries and sprains, prevention of injuries and sprains of soft tissues and articular ligaments.

This innovative solution, by creating compensating pressure on the limbs, allows you to prevent or eliminate destructive changes in veins, injuries and sprains

*2.2. Location of the pilot testing:*

The pilot testing is carried out at the site of a separate structural subdivision of the Russian Gerontological Scientific and Clinical Center of the Federal State Autonomous Educational Institution of Higher Education "Russian National Research Medical University named after N.I. Pirogov" of the Ministry of Health of the Russian Federation (hereinafter - OSP RGNCC FGAOU IN RNIMU named after N.I. Pirogov of the Ministry of Health of the Russian Federation), located at the address: 16 1st Leonova str., Moscow, 129226.

### *2.3. Grounds for conducting pilot testing of the Project:*

Trilateral cooperation Agreement within the framework of the pilot testing of the innovative solution "Medical elastic, tape, perforated bandages" by LEONARD dated 07/13/2020 No. 15 between GBU "Agency of Innovations of Moscow", OSP R1 NCC of the Federal State Budgetary Educational Institution of the Russian Federation named after N.I. Pirogov RNIMU of the Ministry of Health of the Russian Federation and LLC "LEONARDA-SERVICE"

Methodology of conducting and evaluation of the results of the pilot testing of the project "Elastic, tape, perforated medical bandages" at the site of the OSP RENCC FGAOU at the Pirogov RNIMU of the Ministry of Health of the Russian Federation.

### *2.4. The timing of the pilot testing of the Project: 15.07.2020 - 15.09.2020*

### *2.5. Conditions for conducting pilot testing of the Project:*

The main objectives of the institution's activities are to conduct fundamental and applied scientific research in the field of studying the mechanisms of aging and developing effective means of preventing and slowing down the aging process; providing specialized, including high-tech medical care to patients.

## **3. The purpose of the pilot testing of the Project:**

determination of the effectiveness of the product in the real conditions of a medical institution

identification of characteristics that require product refinement to achieve maximum results

analysis of the prospects for scaling the product in specialized medical institutions in Moscow.

## **4. Applied methods for evaluating the results of the pilot testing of the Project:**

4.1 Interviewing patients (42 people) about the experience of using the product "Medical elastic bandages, tape, perforated" by LEONARDA:

- a) collecting information on the timing and frequency of operation of the product;
- b) evaluation of the comfort of using the product;
- c) assessment of the effects of the product on improving the condition (well-being);

4.2 A survey of medical personnel on the effectiveness of using the product "LEONARD's elastic, ribbon, perforated medical bandages" in the complex therapy of diseases, after surgical intervention for varicose veins, prevention of bleeding and hematomas after operations on veins.

## **5. Employees involved:**

Medical personnel (doctors and nurses) of the orthopedic (surgical) and physiotherapy departments, the Department of Anesthesiology and Intensive Care of the OSP RGNCC of the Federal State Budgetary Educational Institution of the Russian National Research University named after N.I. Pirogov of the Ministry of Health of the Russian Federation.

## **6. The results of the pilot testing of the Project:**

### *6.1. Conclusion on compliance with the declared characteristics of the tested Project.*

In order to evaluate the effectiveness of the product, a survey was conducted on the Site of patients using the product "Elastic, tape, perforated medical bandages" for different periods of time (on average from 10 to 20 days). 96% of the patients who used the product noted that when wearing the product, it retains elasticity and color during the entire time of wearing the product. All participants of the testing, including those who have used the products for more than 15 days, noted that medical bandages are not subject to deformation when used, they retain their shape very well. The elasticity of the bandage is also perfectly preserved after washing the product. 98.5% answered positively to questions about improving their condition as a result of wearing bandages, of which half of the patients noted improvements from using bandages already at the first use of the product, the rest - with constant use for a long period of time (from a week or more). The remaining patients who refrained from assessing their condition are exclusively patients with severe chronic forms of diseases. All patients noted that they would use the product in the future and recommend it as effective. Elastic, bandaged, perforated medical bandages were used by medical professionals in combination with complex methods of treating patients after surgical intervention for varicose veins.

Medical workers have noted the high quality of LEONARDA's medical bandages: they retain their shape, elasticity, are comfortable to wear, do not rub the skin of patients, do not restrict movements, and have an aesthetic appearance. Bandages have shown themselves to be a very comfortable product, highly elastic - they do not fall off the patient's body, and at the same time do not pinch soft tissues, reliably fix the limb to prevent sprains of soft tissues and articular ligaments. Wear-resistant, do not lose elasticity during use. The advantage of the product is the breathability of bandages due to the technologically calculated number of holes in the fabric, which allows the skin to breathe and reduce excessive sweating.

6.2. The possibility of further use of the technology in the city of Moscow.

We recommend the use of the product in medical organizations of the city of Moscow.

7. Comments and suggestions:

No. The product parameters stated by the manufacturer have been fully confirmed.

8. Conclusion:

The use of medical elastic, ribbon, perforated bandages "LEONARD" (RU No. RZN 2019/9401), after surgical intervention for varicose veins, to prevent bleeding and hematomas after operations on veins in combination with complex methods of patient treatment significantly improves the quality of postoperative recovery of patients, reduces the risks of complications of the disease, facilitates the course of chronic forms.

Bandages are adapted to long-term use by the patient (limbs receive increased air exchange, high elasticity of the product, wear resistance, comfort), this allows you to flexibly adapt to the needs of the consumer and the conditions of use, significantly improves the quality of life of patients both before and after surgery, during rehabilitation activities, and in the daily lives of patients.

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