PLASON[®]

NO-Therapy device





ONKO•CET

PLASON[®] NO-therapy

Medical device for NO-therapy

Medical technology on the basis of the use of air plasma and exogenous nitrogen oxide for the treatment of wounds, inflammatory processes, auto-immune diseases.

The exogenous nitrogen oxide of plasmachemical genesis is contained in the high and low temperature gas flows (4000 °C to 20 °C), generated from atmospheric air.

The "PLASON" device doesn't have analogous devices available worldwide.

Basic Types of the Device Usage

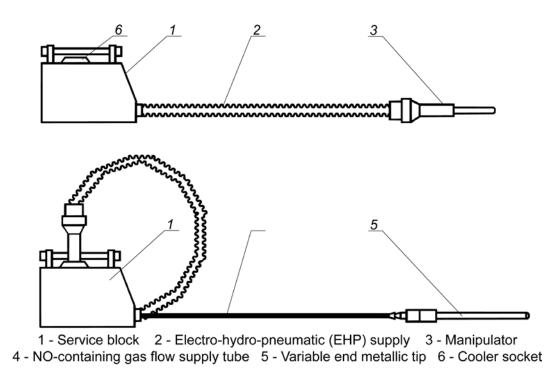
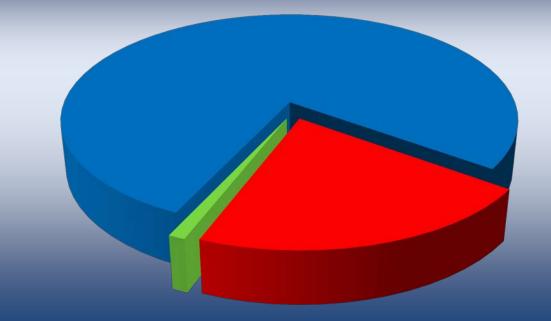


Fig.3. Two operational versions of the device





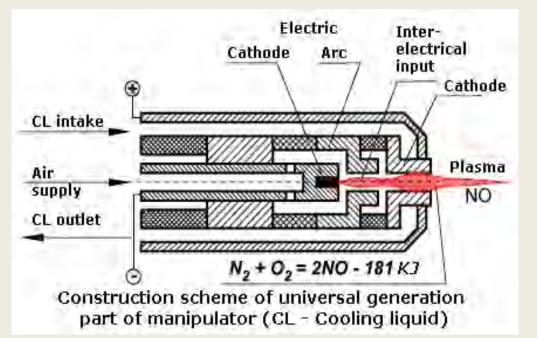
Composition of atmospheric air



78% Nitrogen

21% Oxygen

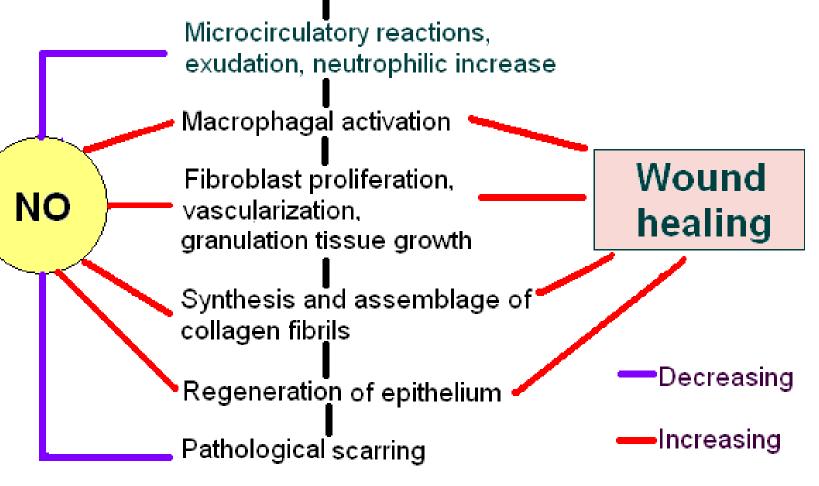
1% Carbon dioxide, Argon, Water vapour and other gases





Effect of NO on different parts of wound healing process

Alteration



of various types of pathologies Pictures from the treatment

PLASON[®] - Therapy of Wounds by NO

Course of Healing of the Suppurated Burn Wound





Before treatment

After 7 days of NO-therapy (5 sessions)



Before treatment

21st day of NO-therapy (10 sessions) After 2 months of NO-therapy

Broad necrotic suppurative ulcer on the back of the foot (diabetic peripheral neuropathy)



Before treatment



After 4,5 months of NO-therapy (3 courses of NO-therapy; 12 sessions per course)



- Therapy was conducted 5-6 times a week, application of NO for 5 10 minutes per session, temperature of plasma 4000 °C
- The duration of treatment was approximately 4 months

Course of healing of a varicose ulcer by NO-therapy











- Therapy was conducted 5-6 times a week, application of NO for 5 10 minutes per session, temperature of plasma 4000 °C
- The duration of treatment was approximately 4 months













Course of healing of the post-radiation wound by NO-therapy



 Patient with skin melanoma, metastases into right axilla. Axilla was treated by 40 Gray radiation dose. Post-radiation wound was treated 5-6 times, application of NO for 4 minutes per session, temperature of plasma 4000 °C

Course of healing of the post-radiation wound by NO-therapy



Course of healing of the post-radiation wound by NO-therapy





Treatment of post-surgery wound infected by Staphylococcus aureus with NO-therapy



- Patient underwent the gastric banding. After the procedure a rupture of gastric wall occured. Patient underwent surgical treatment, the wound got infected by *Staphylococcus aureus*, which was unsuccessfully treated by medicines.
- Approximately 100 sessions of NO-therapy by 5 minutes, the wound closed and the tests for *Staphylococcus aureus* were negative.

Treatment of post-surgery wound infected by Staphylococcus aureus with NO-therapy



Treatment of post-surgery wound infected by Staphylococcus aureus with NO-therapy

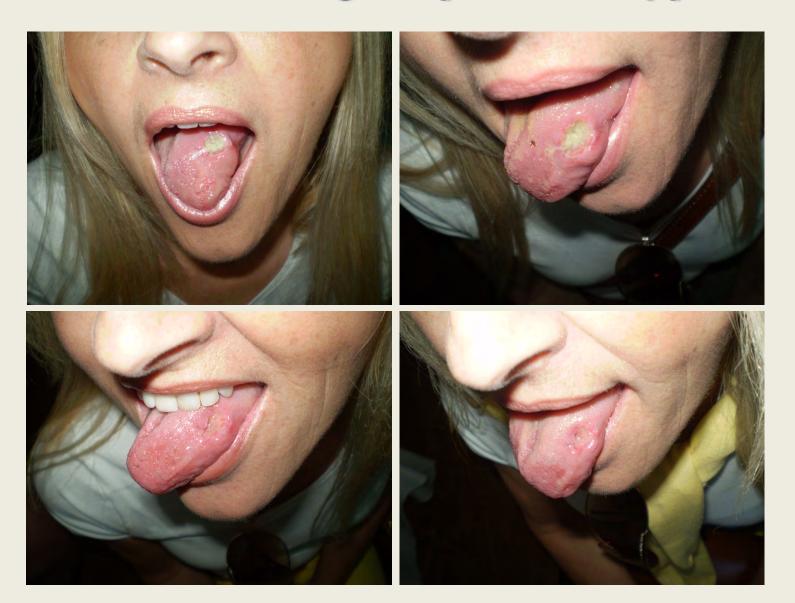


Course of healing of the infected post-surgery wound of tongue by NO-therapy



- Patient underwent surgery for cyst removal, wound infected, pain.
- 4 sessions of NO-therapy by 4 minutes, the wound closed, pain disappeared.

Course of healing of the infected post-surgery wound of tongue by NO-therapy



Course of healing of rheumatoid arthritis by NO-therapy



- Patient with rheumatoid arthritis complicated with fracture. Hand was painful, problematic movement, complicated usage, lack of sensitivity.
- Approximately 35 sessions of NO-therapy by 5 minutes, the swelling of the hand disappeared, sensitivity and movement capabilities were renewed.

Course of healing of rheumatoid arthritis by NO-therapy



Course of healing of rheumatoid arthritis by NO-therapy



- Patient with rheumatoid arthritis. Hand was painful, problematic movement, complicated usage, lack of sensitivity.
- Approximately 35 sessions of NO-therapy by 5 minutes per hand, the swelling of the hand disappeared, sensitivity and movement capabilities were renewed.

Course of healing of rheumatoid arthritis by NO-therapy





- Patient with unspecific skin disorder
- 10 sessions of NO-therapy by 4 minutes, the skin disorder disappears continuously.





- Patient with skin eczema
- 10 sessions of NO-therapy by 5 minutes, the skin disorder disappears continuously.





Course of healing of Herpes virus by NO-therapy



- Patient with herpes virus on eye lid
- 4 sessions of cold NO-therapy by 1 minute, herpes virus disappears continuously.

Course of healing of Herpes virus by NO-therapy



Course of healing of unspecified skin disorder by NO-therapy



- Patient with unspecified skin disorder in axillary region
- 15 sessions of cold NO-therapy by 3 minutes, skin disorder disappears continuously.

Course of healing of unspecified skin disorder by NO-therapy



Healing of hemorrhoids by NO-therapy



- Patients with hemorrhoid problem
- Anus is treated with hot NO-containing gas flow for 3 minutes, depending on the scale of problem 3-10 sessions are required
- No relapses in one year time of observation