

Vascular pathological conditions: this type of therapy can be used to treat problems of both arterial and venous circulation, and decubital and chronic ulceration. In this case, the disinfectant properties of Ozone are associated with its trophic effect and tissue reepithelialization. More specifically, great benefits are obtained in the treatment of microcirculatory pathological conditions (swelling and heaviness of the legs), vascular and/or cluster cephalalgias, and degenerative maculopathy.

Orthopaedic pathological conditions: this type of therapy attains excellent results in many pathological conditions of the osteo-articular and muscular-skeletal systems in which symptoms include acute pain. Its use is effective both in acute, inflammatory conditions, and in chronic-degenerative pathologies. The results demonstrate notable effects in the treatment of pathological conditions of the smaller joints, such as those of hands and feet.

Lumbar and cervical discal hernias and protrusions: because the primary cause of these alterations is the conflict, in a limited space, between the spinal nerve roots and the distal mass in the spinal canal, traditional techniques act on the distal structure, weakening or eliminating it, with the risk of arthrosic degeneration, with a new protrusion and the resulting discal-root conflict. Using oxygen-ozone therapy, symptoms disappear rapidly and completely, and the benefits with respect to other traditional methods regard principally the absence of side effects, and its very high efficacy. Percutaneous techniques have been used for the ablation of protruded and prolapsed intervertebral discs for many years.

Osteoarthritis: osteoarthritis is the "principal invalidating disease" in the world, affecting about 10% of the global population, and 50% of people over 60. It causes a reduction in the capability to perform work and normal daily activities, such as domestic work and personal hygiene. Initially it appears just during articular movement, particularly after periods of immobility, such as on waking in the morning, or during movements in dream, and it causes acute pain. Later it appears even at rest, particularly when joints have suffered previous wear or tear, or in the presence of changes in meteorological conditions. The synergic effects of traditional care and ozone therapy produce considerable benefits in conditions of osteoarthritis, both in terms of functionality and of pain alleviation. This breaks the vicious circle of morphological alteration, articular rigidity, pain, muscular contraction and functional deficit. Ozone, as well as constantly reducing symptoms of pain, encourages the relaxation of the muscular tissues involved, improving overall flexibility and function of the respective areas.

Immunopathological conditions: ozone is an ideal inducer of substances known as cytokines, which are fundamental in the regulation of the immune system's activities. Results obtained suggest the use of O₂/O₃ at appropriate concentrations as part of chemotherapy treatment, in order to increase its therapeutic effect without increasing toxicity.

The immunomodulant effect of O₃ has triggered a great deal of research on the efficiency of this therapy in countering viral and bacterial diseases, and their respective symptomatological conditions.

Research on the biological effects of ozone on lymphocytes and monocytes has led to the conclusion that it may have a stimulant effect on cytokine production. Cytokines include a series of substances such as interferons (IFNs), Tumour necrosis factor (TNF) and interleukins (ILs), with antiviral and immunomodulant properties.

It is important to remember that the organism's immune mechanisms are dependent on oxygen, and that a fundamental form of defence against infectious and tumoral agents is the production of reactive forms of oxygen by macrophages and granulocytes.

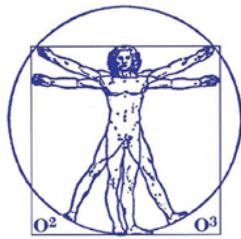
Physical and Rehabilitative Medicine: alongside physiotherapeutic procedures, physical methods can be used, such as technical, electrical, light and mechanical energy. Oxygen-ozone can be categorized in the same area, in its identity as a therapy that is becoming increasingly important both for the treatment of specific pathological conditions and in purely rehabilitative terms. The anti-inflammatory properties of Ozone produce positive results in the treatment of osteochondritis, chronic degenerative arthropathological conditions, gonarthrosis and coxarthrosis, all conditions that often affect sportsmen and women, causing pain and inflammation. Lastly, mention should be made of Ozone's decontractive properties in areas suffering the effects of trauma or incorrectly-performed motor activities.

Peripheral arteriopathy: the therapy is suitable for problems of arterial circulation, due to its positive effects on conditions of insufficient O₂ supply, and in particular in obliterative arteriopathic conditions hallmarked by intermittent claudication, with cyanosis and serious trophic alterations.

Venous diseases and trophic ulceration: in the treatment of chronic venous insufficiency, the treatment has been used for some time, producing positive results in terms of function and appearance. Patients have reported improvements in their vascular condition that have been greater, considering the same amount of time, or faster considering the same effect, with respect to other treatments. The technique of ozone therapy using autohaemotransfusion is highly efficient, well tolerated, and eminently suitable for the treatment of chronic venous insufficiency. The efficacy of Ozone in the treatment of sores and ulceration has been demonstrated, with a disinfectant effect on the affected tissue and a resulting trophic effect. Healing is encouraged because the treatment improves the supply of oxygen to the damaged area, accelerating metabolic processes. The consolidated efficacy of this therapy is demonstrated by the fact that it has been included in the treatments authorized by the health service of the Region of Lombardy. The dazzling results obtained in the treatment of phlebopathological conditions of varying levels of gravity have, in the most significant cases, prevented the need for surgical intervention.

Indurative hypodermatitis and localized lipodystrophy (cellulite): localized lipodystrophy and indurative hypodermatitis (panniculopathy) are different forms of a problem that is a true medical condition: cellulite. It is a pathological condition and not just a cosmetic problem, and therefore it has to be treated in time, using the appropriate medical therapy. The only method that produces scientifically verifiable and accepted results is O₂/O₃ therapy.

Bibliography: there are over 430 scientific works, list on www.ossigenoozono.it



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OXYGEN OZONE THERAPY

Oxygen-ozone therapy is a broad-spectrum ameliorative treatment whose effects extend beyond specific causes and metabolic alterations. In certain situations, the pharmacological effect of oxygen-ozone is closely targeted, and in others its range of action is highly extensive. It can be compared to glucose, a substance that is indispensable for the life of every living cell, tissue, organ and person.

It has positive effects at low cost. As Prof. Payr said:

"Ozone achieves results where pharmaceutical preparations and/or oxygen fail"

CHARACTERISTICS

What is Oxygen-Ozone Therapy? It is a therapy based on the introduction of a certain quantity of ozone into the body, by means of various techniques. In certain pathological conditions, it has enabled therapeutic results beyond all hopes to be obtained, by means of its:

- direct action – immune-modulant effect
- antalgic and myorelaxant action
- systemic antibacterial and antiviral effect
- reactivation of the venous and arterial circulation

ROUTES OF ADMINISTRATION

Administration can be achieved through different routes:

- local: by the application of a glass bell or an opportunely sealed plastic bag, into which O₂/O₃ is introduced.
- systemic: it is routinely injected using intramuscular, subcutaneous and intra-articular sites.
- autohaemoinfusion: this is performed by taking venous blood, which is treated with the O₂/O₃ mixture and then reintroduced into the circulation.

This therapy can replace surgical intervention for discal hernias, the use of immunomodulants, and hyperbaric treatment, with considerable savings in terms of time, costs, and recovery times.

TOXICITY AND COLLATERAL EFFECTS

There are no significant collateral effects if the therapy is correctly administered; moreover, it does not cause any type of allergic reaction. In recent years, though the use of this methodology has increased considerably, no collateral or undesired effects have been recorded, confirming that this therapy presents no risks if performed by doctors who have taken the respective courses, obtaining SIOOT certification. It does not induce addiction.

EQUIPMENT

Equipment for ozone production has to comply with quality specifications determined by the Scientific Society for Oxygen-Ozone Therapy. The therapeutic protocols are the result of clinical and bibliographical experience using MULTIOSSIGEN MED 98 HCPS, MED 95 CPS and MED 99 IR equipment.

OZONE THERAPY, CLINICAL APPLICATIONS

Fungicidal, bacteriostatic, virostatic action
Anti-inflammatory, circulatory-reactivating, immunomodulant

OZONE can be used for:

MEDICAL APPLICATIONS
OF OZONE
DERMATOLOGY
INTERNAL MEDICINE
NEPHROLOGY - DIALYSIS

NEUROLOGY
DENTAL SURGERY
ONCOLOGY
RHEUMATOLOGY
ORTHOPAEDICS
ANGIOLOGY-PHLEBOLOGY
INTESTINAL DYSBIOSIS
PHYSIATRICS
CARDIOLOGY
SURGERY
PNEUMOLOGY
RARE DISEASES

Circulatory reactivation
Revitalizing and immunomodulant, it encourages the release and use of oxygen in the body
Herpes Zoster and Simplex – Acne – Eczema – Lipodystrophy (cellulite)
Hepatitis – Crohn's Disease
Improves the treatment of metabolic osteoarticular ischaemic pathological conditions caused by extended treatment regimes
Cluster cephalalgia – Depression - Neurovascular diseases
Treatment of caries, and post-implantation surgery disinfection– Osteonecrosis
Improves radio/chemotherapy efficacy by increasing the interstitial p.O₂ of the neoplastic tissue
Discal hernia – Articular rheumatism – Lumbar sciatica
Gonarthrosis – Osteonecrosis
Venous insufficiency – Diabetic ulceration – Postphlebotic ulceration
Colitis, dismetabolism, food intolerance, gastric ulcer
Neuromotor rehabilitation – Fibromyalgia
Ischaemia
Pre and post-surgical treatment
Chronic obstructive broncopneumopathy and pulmonary hypertension