



OXYXTRAMED

O₂ INFUSION



Oxyneedling® and Oxygen Propulsion®

per for deep tissue regeneration
and treatment of age-related skin diseases and more



MBE is an Italian company - manufacturer and distributor of unique and exclusive electro-medical dermo-aesthetic devices for skin care as well as for both face and body beauty.

MBE is known and appreciated all over the world not only for its technologically advanced equipment but also for its reliability, availability, expert advice, and quality service during and after sales.

Today, in addition to cosmetic medicine, MBE is able to offer effective non-invasive solutions in the fields of dermatology, aesthetic and functional gynaecology, orthopaedics and physical rehabilitation.



The Device

This unique device owes its distinctiveness to five main functions:

Oxygen Propulsion[®], Oxygen spray, Oxyneedling[®], Oxynanoneedling[®] and ultrasonic scrub.

Thanks to MBE's technical-scientific research, Oxy Xtra Med delivers pressurised oxygen at 94% to 98% purity, with a pressure of approximately 2.5 atmospheres and a delivery capacity of 30l/min.

Research and design have created a compact device: a trolley case that is easy to position and carry from one practice to another and from city to city.

The trolley case includes:

FACE OXYGEN INFUSION HANDPIECE

BODY OXYGEN INFUSION HANDPIECE

VERTICAL MICRONEEDLING HANDPIECE (MICRO PEN)

SPECIAL OXYNEEDLING HEAD

NEEDLING/NANONEEDLING HEAD

AIRBRUSH

ULTRASONIC SCRUB SPATULA

DISPOSABLE OXYGEN CAPS

HANDPIECE CASE



CASE SIZE

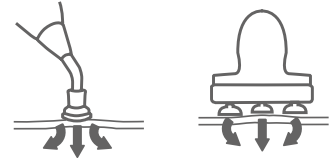
WIDTH 50cm

HEIGHT 66/110cm

DEPTH 33cm

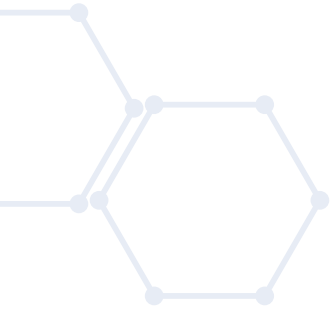
WEIGHT 32Kg

Oxygen Propulsion®



Effective and natural treatment

Over time, a reduced oxygen supply to the cells alters the structure of collagen and elastin, fundamental proteins that give elasticity, strength and youthfulness to the skin.



Effectiveness

Oxygen Propulsion® is a painless and non-invasive method that has the unique ability of delivering pure pressurised oxygen to:

- stimulate angiogenesis
- favour improved oxygenation
- promote an increased quantity and quality of collagen fibres, elastic fibres and autogenous hyaluronic acid.

The flowing of **Oxygen Propulsion®** occurs through the glandular annexes (pilo-sebaceous apparatus and endocrine glands), transepidermally and then transcellularly.

This is the only method capable of reaching the dermis, without the use of needles and without causing any damage to the skin, offering deep and lasting revitalisation.

Furthermore, it is possible to carry nanomolecular active ingredients through oxygen molecules to amplify aesthetic results and for clinical purposes using allopathic and homotoxicological

products. Oxygen is a preferred carrier for conveying substances, as it aids their absorption and enhances their effects.

Oxygen Propulsion® is a method that is free of any contraindications and seasonality.

It offers immediate results in terms of skin radiance and firmness that last for a few days and, thanks to the beneficial properties of oxygen, immediate recovery and restoration of damaged and/or inflamed tissue. Aerobic (oxygen-rich) tissues respond to any therapy better and with more effective and rapid results.

MONOJET FACE PROBE



PLURIJET BODY PROBE



Cosmetic applications of Oxygen Propulsion®

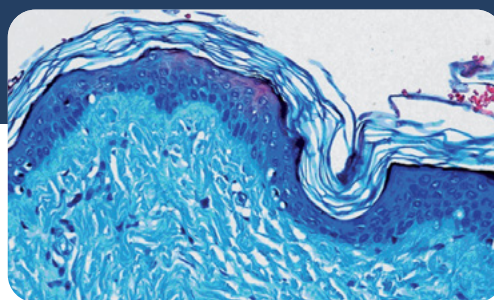
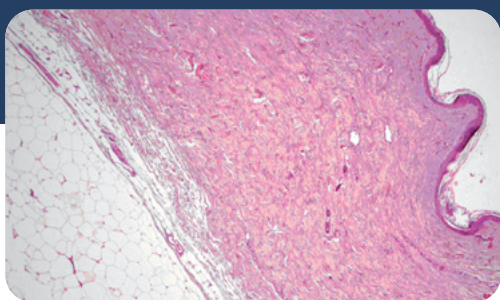
- Chrono- and photo-ageing damage reduction
- Cell detoxification
- Improvement of skin texture and brightness
- Skin laxity reduction
- Smoothing out of small wrinkles and expression lines
- Increase of autogenous hyaluronic acid and creation of collagen and elastin
- Contrasts the formation of free radicals
- Against skin irritations/inflammations (rosacea, couperose)
- Calming effect on acne irritation

Dermatology applications

- Psoriasis
- Eczemi
- Burns
- Scars (hypertrophic, hypotrophic, keloids) and post-acne outcomes
- Stretchmarks
- Stops hair loss (telogen effluvium)

Orthopaedic applications

- Acceleration of haematoma healing
- Muscle contractures, strains, injuries
- Tendinitis
- Muscle distractions
- Pain relief



Ref. In vivo study "Oxidative stress evaluation and histological analysis in the assessment of cellulite: light and shadow towards a multidisciplinary approach. Part II. The intervention study: the efficacy of Oxygen Propulsion" Amuso D, MD, Iorio EL, MD, PhD, Bonetti L, MD, Amore R, MD, Terranova F, MD, and Leonardi V, MD.

Oxygen Spray

For a temporary effect

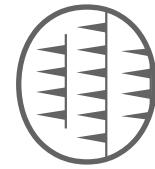


OXY XTRA MED thanks to an airbrush is able to spray a mixture of oxygen and active ingredients (hyaluronic acid, vitamins, trace elements) on the skin, which, by osmosis, penetrates the superficial layers of the skin.

It offers a temporary effect of **freshness, radiance and turgidity**. Particularly suitable for looking dazzling when preparing for special events.

It is recommended in cases of asphyxial skin, young skin and with active acne

Oxyneedling®



When oxygen stimulates growth factors

OXY XTRA MED's unique and exclusive innovation consists in the combination of two effective skin care and beauty technologies: vertical needling and pressurised oxygen. Using a specific head sterilised in an autoclave, OXY XTRA MED delivers the exclusive **Oxyneedling®** function.

Oxyneedling® creates skin microperforations that enable the release of growth factors, stimulating cell renewal naturally through the production of new type I and III collagen and elastin. At the same time, it oxygenates the deep dermis intensely and stimulates microcirculation activation.

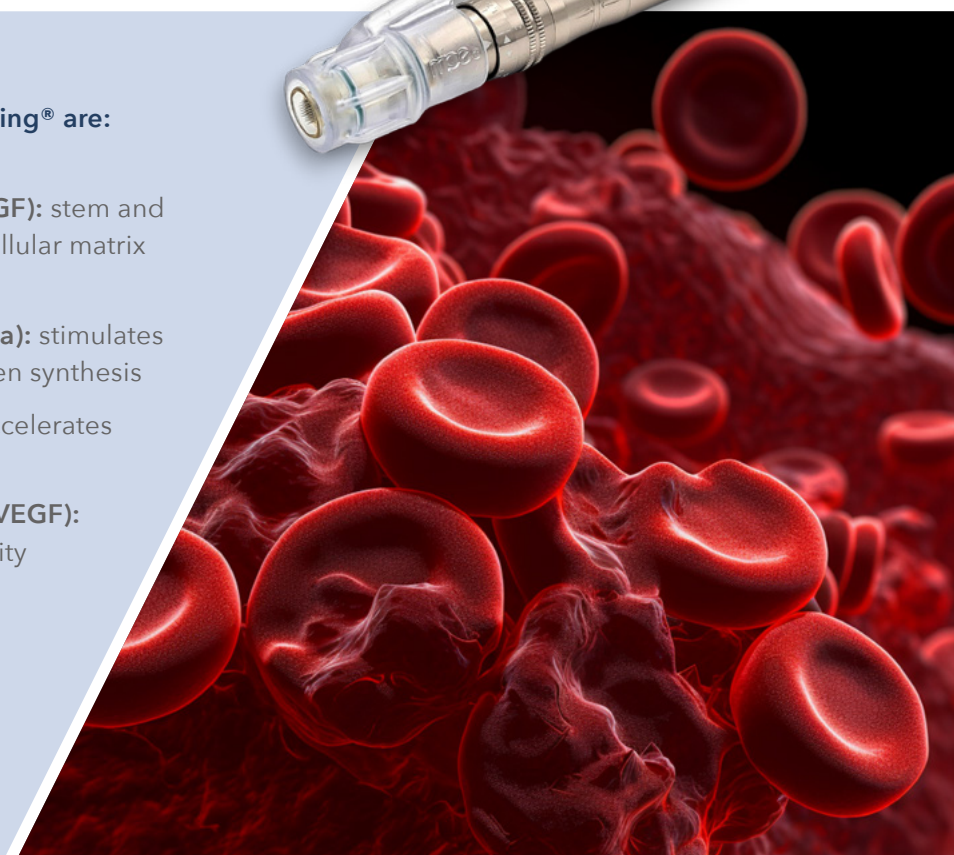
Effectiveness

Combining pressurised oxygen and needling allows safe and pain-free stimulation:

- new type I and III collagen
- new elastin synthesis
- growth factor release
- natural bioregeneration
- significant improvement in acne, chickenpox and minor burn scars
- wrinkles and expression line decrease

Growth factors stimulated by Oxyneedling® are:

- **platelet derived growth factors (PDGF):** stem and endothelial cell mitogenesis, extracellular matrix synthesis and angiogenesis
- **transforming growth factors (TGF-beta):** stimulates DNA synthesis and promotes collagen synthesis
- **insulin-like growth factors (IGF1):** accelerates wound healing
- **vascular endothelial growth factor (VEGF):** increased blood vessel impermeability
- **fibroblast growth factor (FGF):** stimulates fibroblast growth





OXYNEEDLING



OXY-NANO-NEEDLING

Oxy-Nano-Needling®


The soft and gradual boost to cellular turnover

By means of special disposable heads fitted with transepidermal nano-chips, it is possible to perform vertical needling associated with oxygen that does not involve needles, but simply specific tips.

The special heads with their pyramid-shaped micro-tips create nano-channels that facilitate the delivery of active ingredients and make it possible to penetrate the stratum corneum effectively, painlessly and in a non-invasive manner.

Treatment recommended for people who, for health reasons or due to hypersensitivity to needles, cannot or do not wish to undergo **Oxyneedling®** treatment.

Unique technical features:

- Anti-flow disposable heads: designed to prevent unintentional contamination of fluids. Specific technology for carrying treatment out safely
 - Number of needles: each cartridge is equipped with 36 needles
 - 0.20 mm needle thickness to reduce the feeling of pain
 - nano chips: the device also makes it possible to use nano chips for surface, preparatory and microstimulating treatments
 - needle cutting shape with hexagonal tip which makes it possible to perform a shallower and therefore less painful puncture of the skin
 - heads for oxynanoneedling: the only system capable of delivering pressurised pure oxygen during needling procedures
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Ultrasonic Scrub

Effective and gentle exfoliation

Professional device which uses a specific (ultrasonic) spatula emitting high-frequency sound waves (25,000 times per second) for deep cleansing of face, neck and décolleté skin.

It is chemical free so the treatment is safe, gentle, but by no means less effective, and suitable for all skin types, even the most sensitive.

The device makes a second application possible: the delivery of active ingredients needed to improve skin health and care.



Effectiveness

Ultrasonic exfoliation is necessary for:

- preparing skin tissue for cosmetic medicine treatments and cosmetic surgery
- facilitating the delivery of active ingredients
- improving lymphatic and blood circulation
- promoting the fluid drainage by reducing dark circles and puffiness
- keeping the epidermis impurity free



Safety



Container case

To ensure rapid treatment, MBE provides a case containing all accessories with their separate pouches to preserve a sterility, safety and reliability. All accessories in contact with the skin are disposable and/or sterilisable.

Recommended and employed protocols have been developed by a carefully selected team of doctors from different disciplines to ensure effectiveness and safety.

For correct usage, OXY XTRA MED requires adequate training.

A PRACTICAL
HANDPIECE HOLDER
ENSURES CORRECT
AND WELL-ARRANGED
POSITIONING OF EACH
HANDPIECE TO AVOID
ANY CONTAMINATION
THAT COULD ALTER
STERILITY.



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Regulations

OXY XTRA MED IS A DEVICE THAT COMPLIES WITH THE DIRECTIVES:

2014/35/UE; 2014/30/UE; EN 60335 1:2012 /AC:2014 /A11:2014 A13:2017/ A1:2019/ A2:2019/ A14:2019

EN 62233:2008, EN 55014-1:2017, EN 55014-2:2015
EN 61000-3-2:2014, EN 61000-3-3:2013

Protocols

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AESHETIC MEDICINE

CELLULITE
LOCALISED ADIPOSITY
STRETCH-MARKS
SCARS (HYPERTROPHIC SCARS, HYPOTROPHIC SCARS, CHELOIDS)
ANTIAGEING, SKIN LAXITY AND WRINKLES



DERMATOLOGY

PSORIASIS
ECZEMA
DERMATITIS
SEBORRHEIC DERMATITIS
ROSACEA
COUPEROSIS
ACNE



PRE AND POST SURGERY

POST SURGICAL WOUNDS
WOUND HEALING



ORHTOPEDICS/RHEUMATOLOGY SPORT MEDICINE/MUSCLE STRAIN

HEMATOMA REMOVAL
MUSCLE DISTRACTION
ELONGATION AND MUSCLE STRETCHING
MUSCLE CONTRACTIONS, TEARS, MUSCLE INJURY
TENOSYNOVITIS,
BURSITIS, LIGAMENT INJURY, CARTILAGE INJURY,
CHONDROPATHIES

Results

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**See all Abstracts
on Oxygen Propulsion® and Oxyneedling®**

Frame the QR code with your smartphone camera and access the section of the mbemedicale.it website where all publications are collected.



ME/EN

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MBE IS A G. TRADING COMPANY BRAND

Head Office: Via Castiglione 99, 40136 BOLOGNA

Warehouse: Via Bruno Tosarelli 356, 40055 Villanova di Castenaso (BO)

info@gtrading.it