

CARBOXYTHERAPY

Miracle Gas or Medical? The ultimate skin Treatment

- Loose skin
- Cellulite
- Fat
- Stretch Marks
- Eczema, Psoriasis
- face, hand, skin rejuvenation

The origin of this therapy is found in the station of thermal waters of Royat- France. Specifically in the decade of the 50's, when a group of cardiologists used this therapy in patients with different illnesses related to bad blood circulation and fat accumulation.

There a group of cardiologist ascribed to the hospital of Clermont Ferrand, began to treat patients with peripheric organic and functional arteriopaties (Atherosclerotic, Buerger's disease, Raynaud's disease, etc).

In 1953 the cardiologist M.D. Jean Baptiste Romuef, published a paper about his 20 years of experience in the subcutaneous injection of CO₂. Afterwards, the Parisian cardiologist M.D. Jerome Berthier, along with M.D. Luigi Parassoni from Gallarate, started its application on patients with cellulite.

Until 1983 only 402,000 patients had been treated in Royat. By 1994, 20,000 patients were treated per year.

This number of patients, not only confirms the efficacy of the therapeutic method, but also the security of this. It's a non-surgical method,

which consists in the therapeutic use of carbon dioxide gas (CO₂) administered subcutaneously.

- Today, carboxy therapy is one of the best therapies to fight cellulite, excess body fat, flabbiness, and corporal and facial ageing.
- Approved of in the European Community (Law 93/42 CE0051 Class IIb) and from the Ministry of Health. And F.D.A. Approved.

Carboxytherapy is the new, simple and proven technique that can dramatically improve the appearance of the skin and also cellulite by improving local tissue metabolism and perfusion. Treatments are rapid, comfortable and effective for a high percentage of patients.

MORE INFORMATION AND VIDEOS ON: [WWW,CARBOXYWORLD.COM](http://WWW.CARBOXYWORLD.COM) OR WWW.CARBOXYTHERAPY.COM

Frequently Asked Questions

- How is Carboxytherapy performed ?
 - Where can this treatment be performed and what is it good for ?
 - How does the carbon dioxide work ?
 - Is it painful ?
 - What should I avoid after treatment ?
 - How many sessions before I see an improvement ?
 - Isn't carbon dioxide toxic ?
 - What other methods are available ?
 - How much does it cost ?
- How is Carboxytherapy performed?

It is a non surgical method. The way carboxy therapy is performed, is by using especially prepared equipment, which regulates the speed of the flow, time of injection, and monitors the percentage of the administered dose. CO₂ works on the affected zone and is rapidly eliminated.

CO₂ is infiltrated subcutaneously with a sterilized needle similar to the ones used for insulin injections, connected to a very thin hose, which is hooked up to an equipment prepared for this objective.

The equipment allows regulating the speed of the CO₂ flow, time of injection, and monitors the percentage of the administered dose.

There is no systemic toxicity with carboxy therapy, or other side effects, except a light and short sensation in the zone of the application. How does the carbon dioxide work?

At the injection site the CO₂ penetrates in form of gas and is easily spread to other tissues nearby, and keeps on doing its work liberating bradikinin, serotonin, histamine, and catecholamine, which stimulate the beta-adrenergic receptors, producing lipolysis (destruction of fat cells).

Its introduction under the skin is completed with a manual massage that helps distribute CO₂, and makes it circulate. When the CO₂ comes in contact with fat, it diffuses, part of it going to red blood cells, where when it comes in contact with the hemoglobin, it sends oxygen to the tissue. This oxygen permits metabolic reactions and produces a stimulation of the burning of fat. Carboxytherapy works in three complimentary ways.

Firstly, and quite simply carbon dioxide mechanically kills fat cells, by breaking off their membranes.

Secondly, it also has a strong vasodilatory effect (causes dilation of blood vessels) on the capillaries in the area. It also increases the percentage of oxygen in the tissue. Wider vessels mean bigger and stronger blood flow to the area. The increase in oxygen is important because it eliminates the built up fluid from between the cells.

Third, it improves the cutaneous elasticity, and induces a rejuvenation of the dermis.

Results can be seen immediately, the tissue improves, the skin is smoother and the affected zones become thinner. This way cellulite is treated effectively and blood circulation is also improved. The end result is fewer fat cells and firmer subcutaneous tissue. What is it good for?

Arm and neckline anti ageing.

Stretch marks and cutaneous relaxation.

The treatment can be performed on the face, neck, abdomen, thighs, arms and anywhere that loose skin occurs.

The net result is a tightening of the skin with an improvement in loose skin (and facial wrinkles) IN ALL AREAS OF THE BODY.

Fat reduction and cellulite

Cellulite being partly a circulatory disorder in a local level, when a correct drainage of the fat cells does not occur, waste and impurities build up, in the beginning as a liquid form, and afterwards it acquires a thick consistency.

The accumulation of this thick liquid produces, as a consequence, an irritation in the cells called fibroblast. Cells start to produce collagen in bigger amounts; as a result there is traction in the dermis, which causes the feared "orange peel";

For this reason, when CO₂ is injected in the affected area through a very thin needle, the situation is reverted, a vessel dilatation occurs, and the speed of the micro-circulation improves. The tissue receives more oxygen, toxins are eliminated and the edema reduces.

Through the therapeutical effects mentioned before, it re-establish the morphology and functionality of the microcirculation, the core of the problem, by raising the quantity and speed of the blood flow, diminishing the accumulation of liquids between the cells, disintegrating the fat of the hypodermis, and diminishing the fibrosis. In a few weeks, natural local metabolism is stimulated, with the increase in the microcirculation, the elimination of toxins and the activation of the lipolysis process (destruction of the adipose tissue).

Pre and Post liposculpture (improving results and avoiding fibrosis)

Psoriasis

Vascular problems and leg ulcers

Is it painful?

No. Some patients can experience a light tingling sensation near the injection site. It disappears within a matter of seconds. As a result of the increased circulation, the area surrounding the injection site may feel warmer for 10 to 20

minutes. What should I avoid after treatment?

There are no restrictions on any activities after the treatment. You can go right back to what you were doing as soon as you step out of The Cosmetic Medical Centre. How many sessions before I see an improvement?

The first results are seen almost immediately, the quality of the tissue improves, the skin becomes softer and the affected zones thinner. After the 5th session you will see that your skin looks noticeably healthier. Around the 8-10 session mark, you will appreciate that your subcutaneous tissue is firmer. Before the treatment program ends you will have firmer, cellulite free skin. Isn't carbon dioxide toxic?

No. Carbon dioxide is naturally produced by the cells in our bodies every day of our life. It is a by product of metabolism. It is transported in the blood and exhaled through the lungs.

It is currently used in surgery (laparoscopy, colonoscopy)

What other methods are available? Carboxytherapy can be combined with:

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Endermology

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Laser-Lipo

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Liposculpture Are there any University research done on this subject?

Yes, there are works from the University of Sienna (Italy) and the centre for Microangiology and microcirculation of the University of Milan and Pavia (Italy) and many other from South America (Brasil, Argentina) How much does it cost?

Each treatment is £100.

flabby skin