CAT Carbonic Acid Therapy

A treatment one could only dream of before...
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In the broadest sense, CO₂ gas results from combustion processes. In the end, when a living being breathes out this is also the result of a combustion process.

**Intro**

The term “wellness” conveys a feeling of health, well-being, fitness and meets the basic need of people for calm and relaxation. Thanks to modern technologies, highly effective applications can be integrated into the everyday in a relaxed atmosphere. This basic principle was followed by the Unitronic development team, which took the topic of carbonic acid treatment effects which have been known for over 2000 years up as a challenging topic.

Modern treatment stations for CO₂ dry baths, in a modern studio design and fitted with all safety systems, became an interesting research and development project for Unitronic GmbH, which has been dealing with cosmetics, wellness, and medical technology subjects for nearly 30 years.

**Carbonic Acid Therapy – CO₂ Dry Bath Treatment**

The application uses CO₂ gas which is introduced into a plastic bag. The effect is based on the skin’s absorption ability – it absorbs carbon dioxide up to 100 times as readily as water. The improvements in skin blood flow, increase in the oxygen partial pressure, and normalizing of the blood pressure are clinically proven. The convincing effect on tissue affected by cellulite is explained by the fact that CO₂ is a lipo-solvent (fat-dissolving) gas.
Carbon dioxide, as CO₂ is written out, was the first gas described as such in comparison to air.

**It is also known by other names including:**
- Carbon dioxide
- Carbon (IV)-oxide
- Dioxide carbon
- Carbonic acid anhydride

Since it occurs in nature, people have known of the healing effects of gases since time immemorial in addition to the hazards.

**The bath applications** using carbon dioxide, both in combination with water and in gaseous form, is a tradition which is thousands of years old. In the 16th century, the healing gas was already used for **burn injuries, ulcers, and female disorders.**

Carbon dioxide is viewed as a trace gas in the Earth’s atmosphere and is therefore a natural part of air.

The most commonly known form of carbon dioxide is carbonic acid, which is found in almost all drinks today.

CO₂ increases our performance, and in particular increases the recovery effect because metabolic “waste products” are eliminated from the body more quickly!
Even 600 years ago, CO₂ was used in various treatment methods in many renowned spas, especially in the Czech Republic, Romania, Poland, Hungary, Austria, and also Germany.

**The carbonic acid bath**

In carbonic acid wet baths, CO₂ forms a new chemical compound with water, i.e. it now occurs as carbonic acid. For applications in so-called “carbonic acid baths”, the skin is stimulated by the many gas bubbles and you are relaxed at the same time.

The CO₂ which penetrates the skin increases the ability of blood and cells to absorb oxygen. This physiologic process is scientifically proven and known as the **Bohr Effect** in medicine (The Bohr Effect is a microbiological phenomenon first described in 1904 by the Danish physiologist Christian Bohr). It explains the increased supply of oxygen to organs, musculature, and the skin. The CO₂ dry bath treatments can be applied with a lot less effort than carbonic acid baths and in all circumstances.

**The following target groups report positive effects:**

» Wellness & Beauty  
» Sport, fitness, and regeneration  
» Vitality with age and fitness at work
Another important effect is achieved in women because the supply of blood to the connective tissue is improved, thereby tightening the tissue. The so-called dimpled skin or cellulite – which many women feel as unattractive – disappears quickly. Considerable improvement of the skin can be seen and felt after just a few treatments!

This convincing effect is explained by the fact that CO₂ is a lipo-solvent (fat-dissolving) gas. The only anti-cellulite program that can be used in the presence of varicose veins!
A treatment duration of between 30 and 50 minutes creates the best possible effects. Patients consistently rate it as a pleasant experience.

» Anti-Cellulite
» Strengthens the connective tissue
» Improves blood flow to the skin
» Loosens and relieves heavy legs
» Improves the complexion (stretch marks)
» Purifying
Treatment safety is ensured if the treatment is performed according to our instructions.

The effectiveness was proven in numerous scientific studies.

» Faster regeneration after training and competitions

» Increase in cellular respiration

» De-acidification of the muscle tissue

» Increase in the oxygen partial pressure
Athletes in particular – whether leisure or professional – can benefit from the fact that this treatment shortens the recovery period considerably and that more oxygen is available in the blood and cells at the same time.

This performance-increasing effect occurs effortlessly, without altitude training or time spent at higher altitudes and without doping!
Even as we age, it is important to have enough energy to handle our everyday without depending on the help of others.

The CO$_2$ acts as a “fountain of youth”!

- Normalization of the blood pressure
- Loosens and relieves heavy legs
- Strengthens the capillaries
- Increases cellular respiration

Vitality as you age
Fit on the job

» Stress at home and at work
» Burnout

Looking at the statistics from the health insurance companies, these diseases – and they really are diseases – are becoming a continually growing and serious problem! For this reason, many working hours are lost and burden our health care system, and therefore also our economy.

The CO₂ dry bath can make a very important contribution to preventative healthcare and regeneration.

A slight to moderate prickling is felt, depending on how sensitive the customer is.
A treatment one could only dream of before ...

- Large customer potential
- Gain new target groups
- Retain the existing customer base over the long term through annual wellness applications
- Scientifically proven effectiveness
- Broad range of applications
- Simple, easy to understand operation
- Fair price-performance offer
- Purchase with favorable leasing option possible
- Qualified operator training
- Reliable support
- CE certification in accordance with medical class 1
- High quality product, Made in Germany
- Short amortization times possible
- Low treatment costs
Potential rate of return calculation:
We would like to present a possible development assumption over 6 months to you below. We don’t aim to show you wishful thinking with exorbitant numbers.

We are convinced that it is absolutely possible – naturally with corresponding advertising and personal dedication – to amortize the costs invested in the CAT machine and the materials required for treatment within 9 – 12 months!

This sample calculation is intended for persons who are just opening a studio. Amortization is possible over a much shorter period for an already existing studio.

Many customers can already see and feel results after the first treatment. The number of CO₂ dry bath treatments depends on the person to be treated and on the condition of the corresponding connective tissue or local adiposis.
It has been shown that – depending on the indications – a treatment can be performed daily or every 2-3 days without any concerns.

This also applies to athletes as preparation for competitions or for regeneration.

Marketing

We support you with suitable marketing material which is divided into different target groups. You will be thrilled.

Contact us: flyers, posters, questionnaires...
Literature

Dr. med. Tony Smith, „Der menschliche Körper“, 2004
Prof. Dr. med. Klaus-Ulrich Benner, „Der Körper des Menschen“, 1195
Dr. med. Arne Schaffler, Dr. med. Sabine Schmidt,
Praktische Physiologie, H.Hinghofer-Szalkay, Verlag Blackwell, 3. Auflage

Untersuchung von Dr. med. M. Fink,
Klinik für Physikalische Medizin und Rehabilitation, Medizinische Hochschule Hannover
Carl-Neuberg-Straße 1, 30625 Hannover

Physikalische Therapie, Massage, Elektrotherapie und Lymphdrainage,
von Antje Huter-Becker, Mechthild Dölken

CO₂-Balneotherapy for Arterial Occlusion Diseases: Physiology and Clinical Practice von B. Hartmann,
M. Pittler and B. Drews, Institute of Applied Physiology and Balneology, University of Freiburg

Kohlensäure-Therapie für gesunde Blutgefäße: Uni-Prof. Dr. med Minar – Gesundheitsressort Königsberg,
Bad Schönau

Einfluß serieller CO₂-Bäder auf die Blutfluidität – eine kontrollierte Untersuchung an 802 Herz-Kreislauf-
Patienten: Ernst E. Resch. M. Rumpf, „Physikalische Therapie“ 1990; Nr. 11; S.301-4