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## Carboxytherapy: Non-invasive method in dermatology, aesthetic dermatology and some other branches of medicine

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The utilization of carbon dioxide in medicine and balneotherapy has seen a long-year development. At the beginning, the utilization was purely empirical, but gradually a solid scientific basis was formed. Carboxytherapy - therapeutically applied carbon dioxide injections have been used in balneotherapy since 1932. In the last four years however, this treatment modality has become the center of attention as a unique method applicable in dermatology, aesthetic dermatology and anti-aging medicine. Many renowned clinics of aesthetic medicine promote this unique method as minimum invasive and non-aggressive, comfortable for the patient and producing excellent effects without the risk of undesired side effects. Nowadays, this method is very popular and used in various offices around the globe. In aesthetic dermatology, this method may be applied as a rejuvenation modality and is employed mainly due to its classic vasodilatation effect and its capacity to foster intradermal collagen restructuring. In classic dermatology it is used to treat patients with poor healing lower leg ulcers, in diabetic patients and in patients with poor healing surgical wounds. Carboxytherapy is efficient also in some psoriasis manifestations when combined with some other traditional approaches, in circumscribed scleroderma, lichen verrucosus as well as hair loss. In aesthetic dermatology, the effect manifest quite soon (usually after two sessions already in the course of 7-14 days). It significantly and visibly improves the tonus of the skin as well as other aesthetic parameters (especially while treating skin laxity in abdomen area, inner arms and thighs and double chin or saggy eyelids. Good effects also show following the application of carboxytherapy to treat stretch marks, cellulite and scars (also older and more extensive scars after burns). Great effects are achieved in correcting the side effects of ill performed interventions such as liposuction or in using carboxytherapy directly to shape problem body areas (thighs, hips and abdomen). The presentation demonstrated great therapeutic effects achieved in aesthetic dermatology and alopecia totalis, alopecia areata, keloids, striae cutis distensae, andrologia - erectile dysfunction and other various diagnoses.

### Biography

Hana Zelenková has been active in dermatovenerology since 1973. Since 2000 she has been directing her own Private Clinic of Dermatovenerology. She has given more than 650 lectures in Slovak Republic as well as abroad, and has 420 scientific publications. She is the Founder and President of the Slovak Society for Aesthetic and Cosmetic Dermatology.

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