

Treatment of Tinnitus with REGENERESEN® - Standardized and Individual Therapy Concepts

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Tinnitus comprises all sensations of sound or noise felt without an external acoustic stimulus. Tinnitus in the strict sense is only a symptom; it can be objective, i. e. generated in the body, caused for instance by a stenosis or an aneurysm in a blood vessel, or far more often subjective, when only the patient himself can perceive the sound, which in this case is generated somewhere between the cochlea and the cerebral cortex. Further it has to be differentiated between acute and chronic tinnitus, the latter persisting for more than three months.

Like every acoustic device, the human auditory organ also has its intrinsic resonance frequency, whose normal suppression can be impaired by changes in the middle ear, causing a sound of about 1200 periods. Quite a lot of different noxes can be responsible for the impairment of the structures in the line of the hearing process. Therefore with tinnitus a very thorough diagnosis is needed to discern its genesis.

But sometimes also simple means are sufficient to give diagnostic hints. E. g. the patients fingernails by brittleness and longitudinal furrows suggest a deficit of mineral constituents, which can be a cause of tinnitus.

It could be shown first by Beck and Krahl that tinnitus is accompanied by perceptible changes of the protein- and RNA-metabolism in the sensitive cells of Cortis' organ. Dyckerhoff, Gaus, and Isnel then tested the application of organ-specific RNA on divers degenerative diseases of the internal ear, and stated an audiometrically measurable improvement of the hearing capacity.

Especially for the treatment of diseases of the internal ear with REGENERESEN a combination of 20 ampoules has been created, called the combination pack otology, comprising the following REGENERESEN:

- 6 ampoules of *AU 4*,
- 4 ampoules of *vessel wall*, and
- 10 ampoules of *placenta (masc. or fem.)*.

Two recent tests by Pilgramm and Schumann and by Gottwik showed the advantage of this combination pack over placebo when applied additionally to a well established standard-therapy of tinnitus.

But it was also evident from these studies, that with longer duration times of tinnitus the effect of one combination pack proved to be less satisfactory. A lot of other cases not published yet show the same tendency, that higher doses of

REGENERESSEN, i. e. two or three combination packs, are required to improve cases of tinnitus that have been resistant to other therapies over years.

Another result from these cases and studies is, that the combination pack contains the appropriate choice of REGENERESSEN only for tinnitus caused by the following sources:

- Impairments of the internal ear by noise
- Morbus Meniere
- Idiopathic acute hearing loss

With tinnitus caused by other sources the individual selection of REGENERESSEN respecting the specific circumstances is necessary. The only exemption, where a treatment with REGENERESSEN can not be of use, is an irreversible mechanical destruction of the sensitive epithel in the internal ear.