

Cell (Zell) biological regulation therapy ZRT® in veterinary medicine

Painful conditions caused by hyperacidity and inflammation

Pains and inflammatory changes in muscles, tendons and joints are very common disorders in today's sedentary society. These conditions are predominantly triggered by tense muscles with disruptions of the finest blood circulation (microcirculation). In the affected tissues, the supply of blood to the cells suffers in such a way that they immediately respond by forming lactic acid. This local hyperacidity and reactive inflammation very often leads to uncomfortable musculoskeletal pains.

The causes – not the pains – are treated

The described changes to tissue metabolism are much more often the cause of pains and reactive inflammations than structural damage to tendons or joints. Excess strain, monotonous activities and stress factors all lead to tense muscles, in which the microcirculation is disrupted. Local deposits in the cell environment are the result with an insufficient supply of nutrients and oxygen to the cells, which triggers these conditions.

ZRT works on these process disruptions in the tissue. It gets micro-circulation back up and running and normalises the metabolism of the cells.

This ensures that the affected muscles, tendons, joint capsules etc. are protected against hyperacidity and inflammatory factors and that the environment is normalised again. Freedom from pain, well-being and good performance: just three things that can be guaranteed by treating the causes.



Dr. Elke Mackenthun,
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The ZRT® therapy concept

The objective of cell (Zell) biological regulation therapy (ZRT®) is a good supply to the cells ensured by an intact microcirculation and cell environment. By means of a gentle mechanical vibration transmitted into the musculature, the finest blood circulation is got back up and running. Disruptions to the cell metabolism and the accumulation of acid and metabolic residues are removed. The body's biological self-healing powers are activated by this. After ZRT has been completed, the usual training methods can then be used. This approach is in keeping with the motto: **"Rehabilitate first. Train second".**

ZRT® therapy structure

1. Biomechanical stimulation – Matrix therapy

The painfully modified tissues are cleaned by means of a gentle mechanical vibration transmitted into the respective musculature. Hyperacidity and metabolic residues are conducted away via lymphatic vessels and veins. This very quickly gives rise to an improved supply situation in the affected tissues and the pain fades away.

2. Deep heat

The healing processes are supported by the subsequent application of heat for the purposes of increased blood circulation and improved metabolism. The heat treatment with water-filtered infrared A achieves a particularly deeply effective heat input. This special form of heat radiation is easy on the skin and the heat penetrates deeply into the musculature and the connective tissue. This also ensures a reduction in pain and an improvement in mobility.

3. Acid/alkali regulation

Alkaline compresses are performed to reduce the local tissue hyperacidity. The normalisation of the acid/alkali balance in the affected tissues also promotes pain relief and regeneration.

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