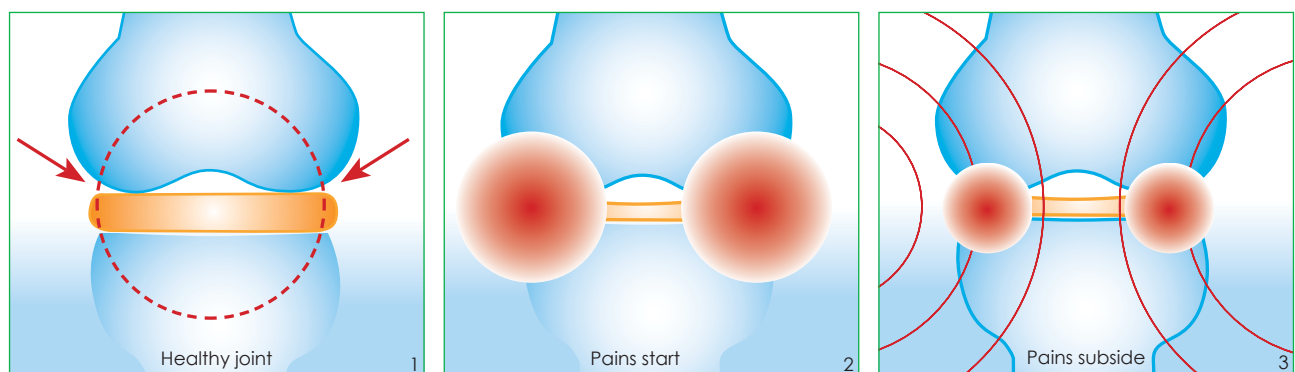


Pulsed Signal Therapy supports regeneration and repair of bone and cartilage tissues



1. Healthy joint – streaming potentials

- Movements generate fine electric currents in the joint
- Electrical field of the joint
- Control of the constant preservation and regeneration of the cartilage and connective tissues (tendons, ligaments, etc.)

2. Disturbed electrical field

- Alteration of the electrical field by osteoarthritis or injuries
- Perturbation in the continued cartilage regeneration

3. PST® treatment - formation of the electrical field

- Activation of streaming potentials by PST®
- This signal stimulates the regeneration process in cartilage, tendons and ligaments

Bone and cartilage tissues have electromagnetic natural bio-potentials which are of crucial importance to the formation and the dynamic functional adaptation of the tissue. Various factors, including electric stimuli such as pulsed electromagnetic fields, can activate the regeneration process. The combined energy parameters of Pulsed Signal Therapy, PST®, belong to the range also observed in the connective tissue.

PST® has a specific signal pattern:

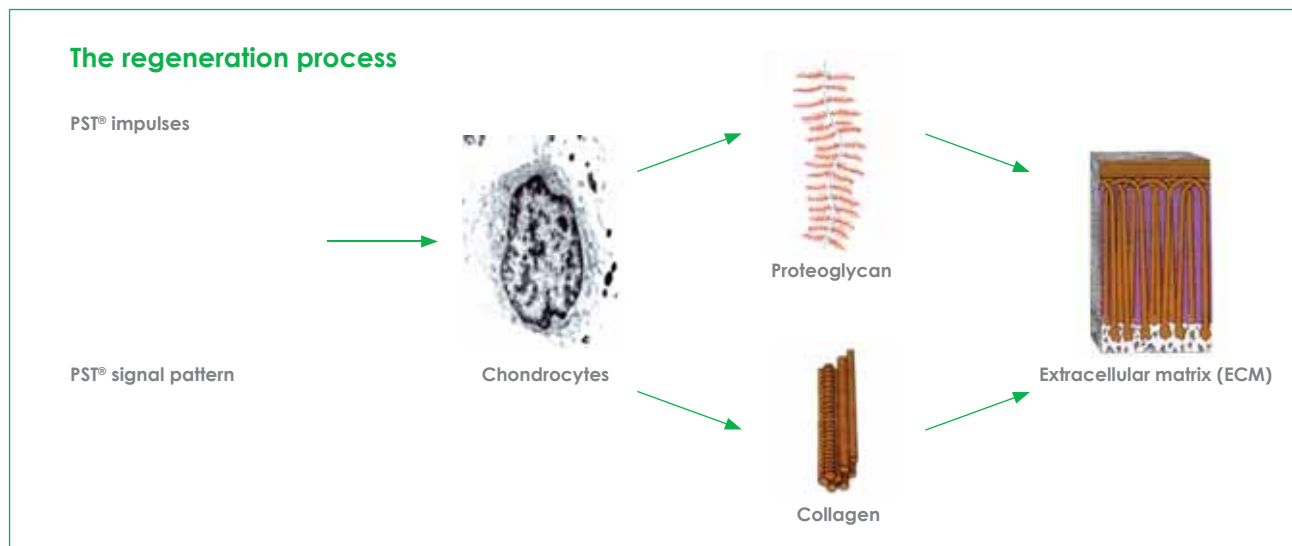
- Constant changes in intensity, duration and frequency (frequency 1-30 Hz, field strength 0,5-1,5 mT, 5-15 Gauss)
- The signals correspond with the natural physiological body signals
- They activate the self healing process of the body

The patent "electromagnetic stimulation of cartilage tissue" with original PST® energy parameters was issued under US patent number 6,524,233 and European patent 1,119,393. Inventor: Richard Markoll. In fact, the Global Medical Device Nomenclature (GMDN) Agency has recognized PST® as a unique technology and therefore created a new classification only for PST® products (GMDN GENERAL CODE 47584).

During a one-hour therapy session, the joint is treated in an enclosed coil. A treatment course

consists of 9-12 hourly sessions conducted on consecutive days. If necessary, only one interruption of less than 2 days (48 hours) is authorized after completion of at least 3 treatment sessions. PST® treatment is non-invasive, pain-free and has no known side effects.

In addition to the treatment of osteoarthritis, PST® has been increasingly used as a therapy for injuries such as stress fractures and/or tendinopathies. PST® has increasingly gained importance in the conservative therapy of professional and amateur athletes.



PST® stimulates the chondrocytes. Observation: more production of proteoglycan and collagen (building blocks for the extracellular matrix)