

Magnetic field is applied in treatments of non-union

MAGNETOTHERAPY IS USED FOR THE TREATMENT OF NON-UNION. BETWEEN 5 AND 10% OF FRACTURES LEAD TO NON-UNION. REASONS FOR DELAYED BONE UNION ARE AS FOLLOWS:

- **external (trauma-related)** – include: displacement of bone fragments, a considerable degree of injury to the soft tissue envelope, energy transfer at the time of trauma, fracture site infections
- **internal (associated with the patient organism experiencing trauma)** – which include: the degree of mineralization and nutrition of the organism (particularly calcium and vitamins C and D)
- **iatrogenic (related to treatment or diagnosis procedures)**, among which there are mentioned: the administration of anticoagulants, steroids, certain anti-inflammatory drugs and radiotherapy

NON-UNIONS MAY BE CLASSIFIED ACCORDING TO THEIR RADIOGRAPHIC APPEARANCE AS HYPERTROPHIC OR ATROPHIC.

- in the case of hypertrophic non-unions, a significant amount of callus is developed, which however, does not link bone fragments
- in cases of atrophic non-unions, a callus is not developed, and a bone tissue is resorbed

