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Paracetamol, one of most used analgesics, could slow down bone growth

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In Medicine, paracetamol is one of the most common kind of pain, from simple muscle pain to the most produced by bone fractures. It is the most used nowadays. However, a study carried out at the Department of Cell Biology of the University of Granada shows that paracetamol slows down bone growth, as proved by 'in vitro' studies.

Author of this work is Olga García Martínez, who has been the starting point several clinical processes in which paracetamol is required.

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"Certain anti-inflammatory drugs warns the researchers, especially in situations of bone regeneration, such as after a fracture or dental implant. These drugs have no effects on bone growth, but instead. "Results of the study in humans but 'in vitro' studies question that paracetamol slows down bone regeneration.

Plasma rich in growth factors

Research of García Martínez on osteoblasts (cells that

processes), obtained via bone samples.

paracetamol on bone cells in culture, the author also studied the effect of plasma rich in growth factors (obtained from patients' own blood and after a spinning process). Application of this plasma gel on bones accelerates their growth, without affecting other cell parameters such as the cell cycle or the antigenic profile.

It is therefore an easy technique which involves few risks for the patient, who will recover from bone defects more quickly.

Even though her work has been carried out on osteoblasts, García Martínez states that it could also be used on other kinds of cells such as fibroblasts, and can therefore be used not only on bones but also on soft tissue, which would help to heal wounds and ulcers.

Antonio Marín Ruiz | Quelle: alphagalileo
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