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Purpose of review: This review summarizes research on the physiological changes that occur with aging and the resulting **effects** on **fracture healing.** Recent findings: Aging affects the **inflammatory response during fracture healing** through senescence of the immune response and increased systemic pro-inflammatory status. Important cells of the **inflammatory** response, macrophages, T cells, mesenchymal stem cells, have demonstrated intrinsic age-related changes that could impact **fracture healing.**

Cited by: 72 **Author:** Dan Clark, Dan Clark, Mary Nakamura, Ted ...
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Fracture healing: mechanisms and interventions

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4464690

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Effects of immune cells on mesenchymal stem cells during fracture healing

Ehnert S *et al*. Immune cells and mesenchymal stem cells during fracture healing

Abstract

In vertebrates, bone is considered as an osteoimmune system which encompasses functions of a locomotive organ, a mineral reservoir, a hormonal organ, a stem cell pool and a cradle for immune cells. This osteoimmune system is based on cooperatively acting bone and immune cells, cohabitating within the bone marrow. They are highly interdependent, a fact that is confounded by shared progenitors, mediators, and signaling pathways. Successful fracture healing requires the participation of all the precursors, immune and bone cells found in the osteoimmune system. Recent evidence

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