

Repair and regeneration

Under construction / Forgotten

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Healing in general Healing occurs when injured tissues are incapable of complete restitution (regeneration). In this scenario, repair occurs by laying down of **connective** (fibrous) tissue, that results in scar formation. Repair occurs within 24 hours of injury by the emigration of **fibroblasts** and the induction of **fibroblast** and **endothelial cell** proliferation. By 3 to 5 days, **granulation tissue** is apparent, characterized by new delicate capillaries (**angiogenesis**). Granulation tissue then progressively accumulates connective tissue matrix, eventually resulting in the formation of a **scar**.

Healing of a bone fracture Generally bone fracture treatment consists of a doctor pushing dislocated bones back into place and then waiting for the bone's natural healing process to occur.