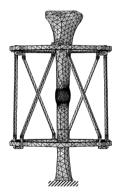
Bone fracture healing under Ilizarov fixator: Influence of fixator configuration, fracture geometry, and loading



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Necessary background Talk focus

Bone fracture healing

Primary bone healing

- Every day process
- Requires absolute stability

- Plate fixation
- intramedullary nailing

Secondary bone healing

- Occurs with relative stability
- Involves callus formation new bone

External fixation



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background

alk focus

Secondary bone healing

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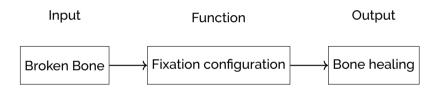
Talk focus

- Bone ends are not in direct contact.
- Relative motion between bone ends Interfragmentary movement (IFM)
- Bone healing is influenced (theories) by Interfragmentary strain (IFS)

Found 10 different mechanoregulation measures in literature

Generally, $2-10\,\%$ engineering strain is desired

Focus of the talk





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Necessary background

Talk focus