

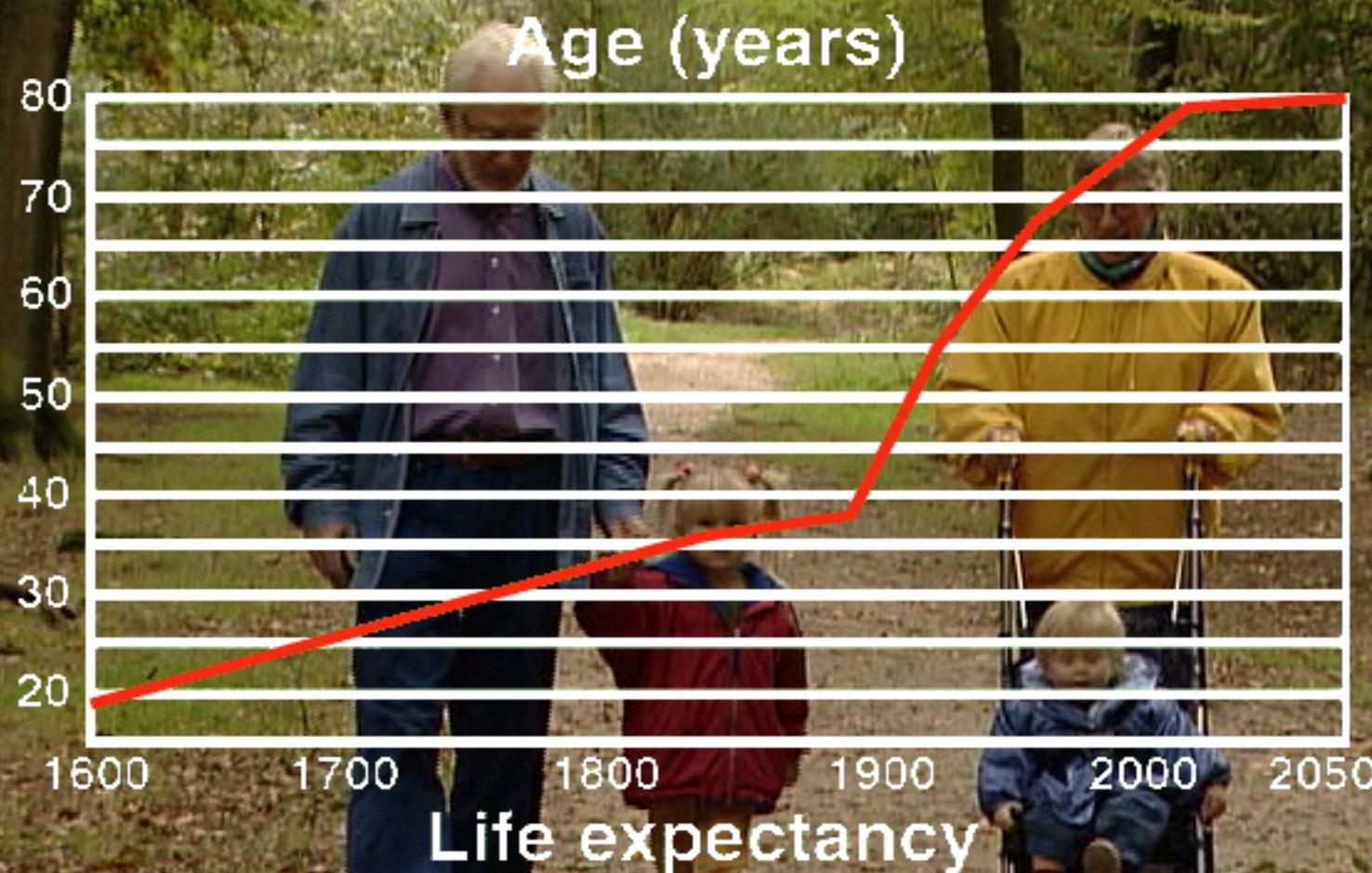


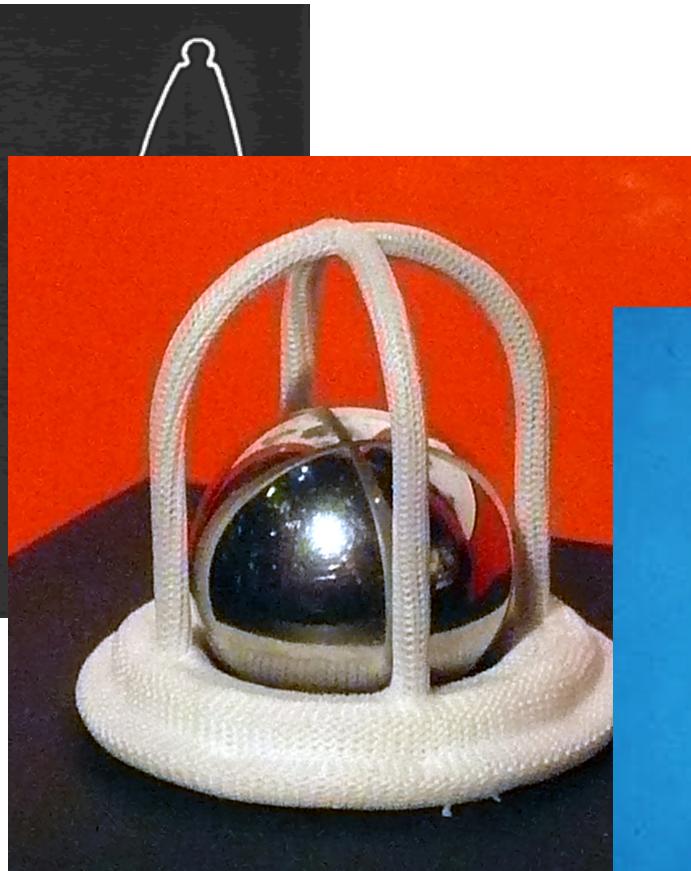
# Regeneratieve geneeskunde: de (gewenste) weg naar onsterfelijkheid?

Pamela Habibovic

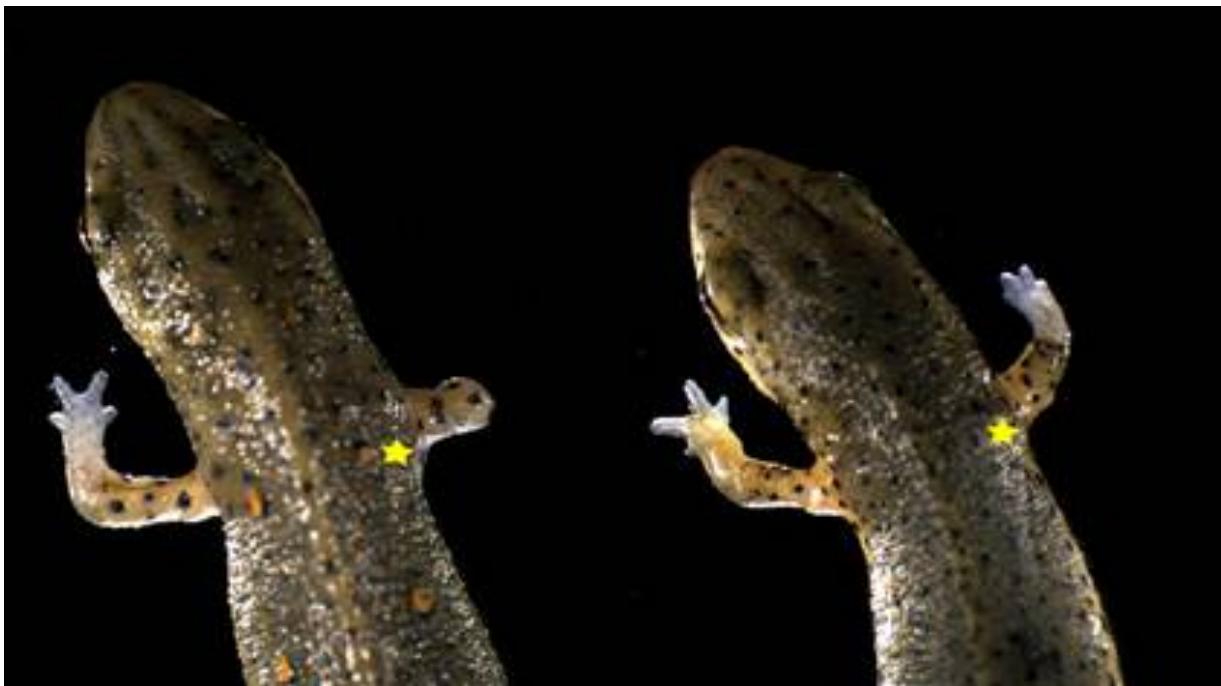
MERLN Institute for Technology-Inspired Regenerative Medicine







<http://80.36.73.149/almacen/medicina/oftalmologia/enciclopedias/duane/pages/v6/v6c011.html> <http://commons.wikimedia.org/wiki/File:Starr-Edwards-Mitral-Valve.jpg>  
<http://luigigentilemd.com/HipKnee/THE%20CHARNLEY%20TOTAL%20HIP%20REPLACEMENT.htm>





Wervelfusie



Trauma



Heupimplantaat



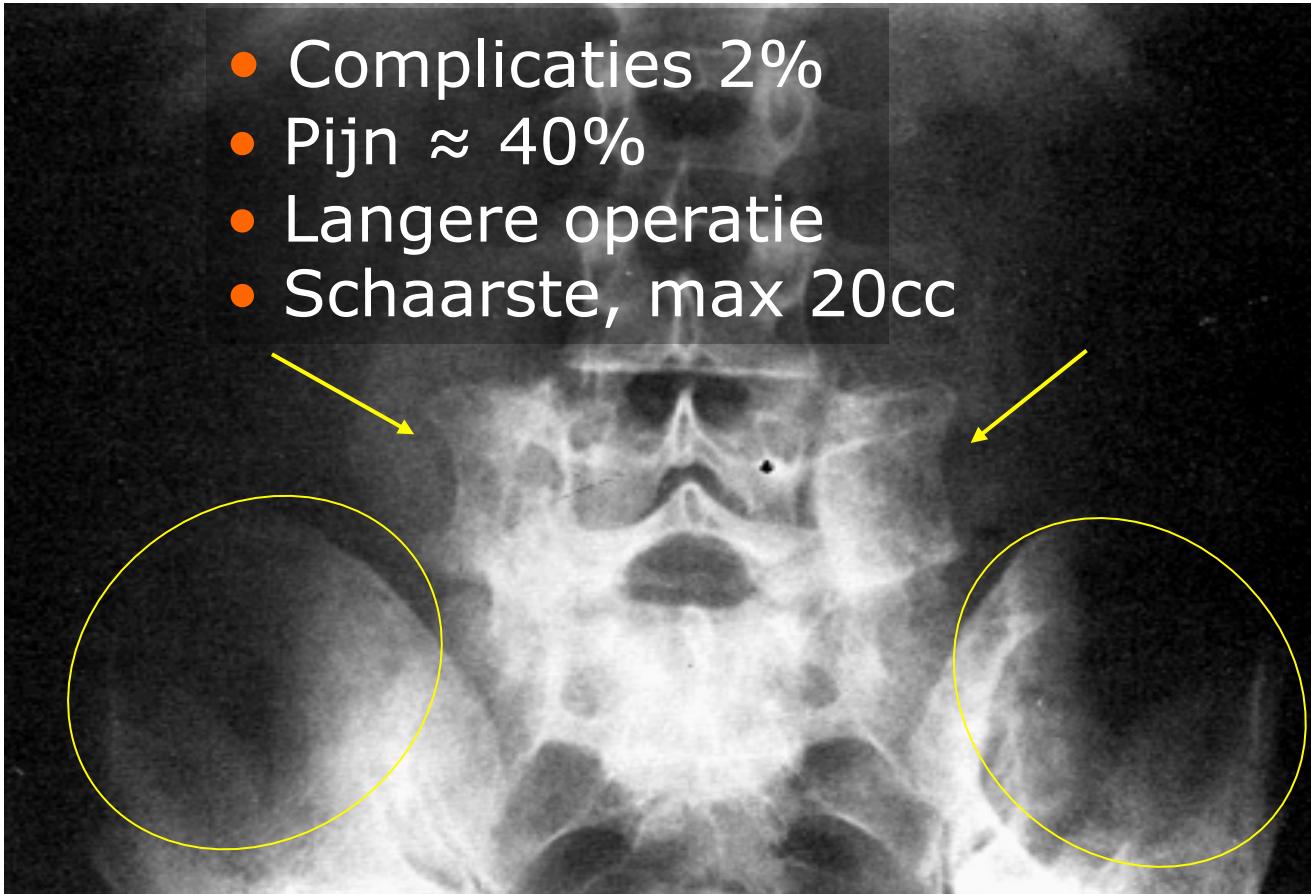
Bottumor



- <http://www.spinemd.com/treatments/tli>
- <http://archinect.com/lian/things-of-unusual-beauty-x-rays-of-my-broken-bones>
- <http://www.rijnlandorthopедie.nl/heupprothese/>
- <http://www.medguidance.com/thread/Bone-Tumor.html>

## State-of-the art in bot regeneratie

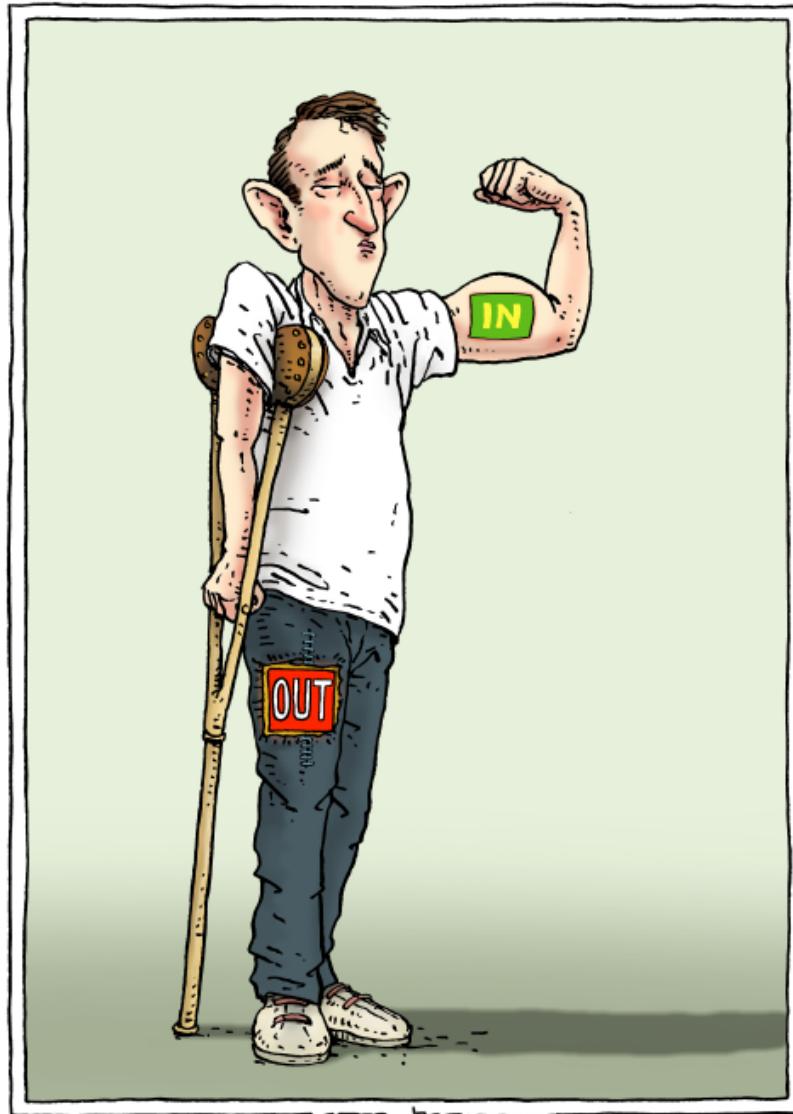
- Complicaties 2%
- Pijn  $\approx$  40%
- Langere operatie
- Schaarste, max 20cc



Vullen van een defect door een ander defect te creëren



## State-of-the art in bot regeneratie

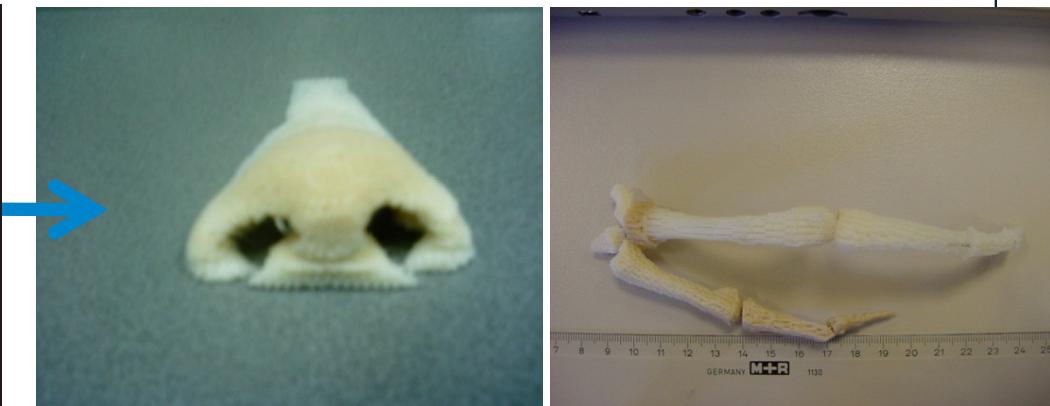


Cartoon by Joep Bertrams



# Hoe goed kunnen we de natuur nabootsen?

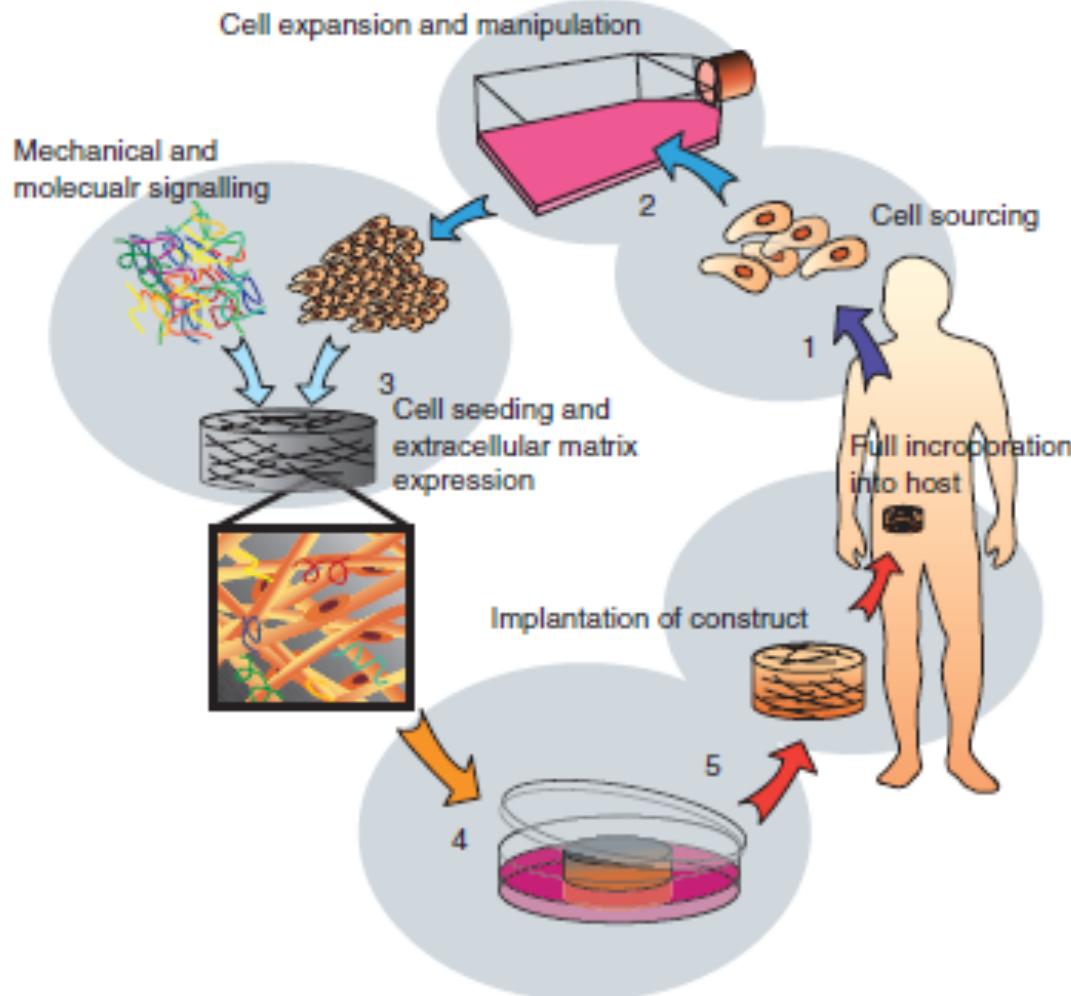
Engineering



Biologie

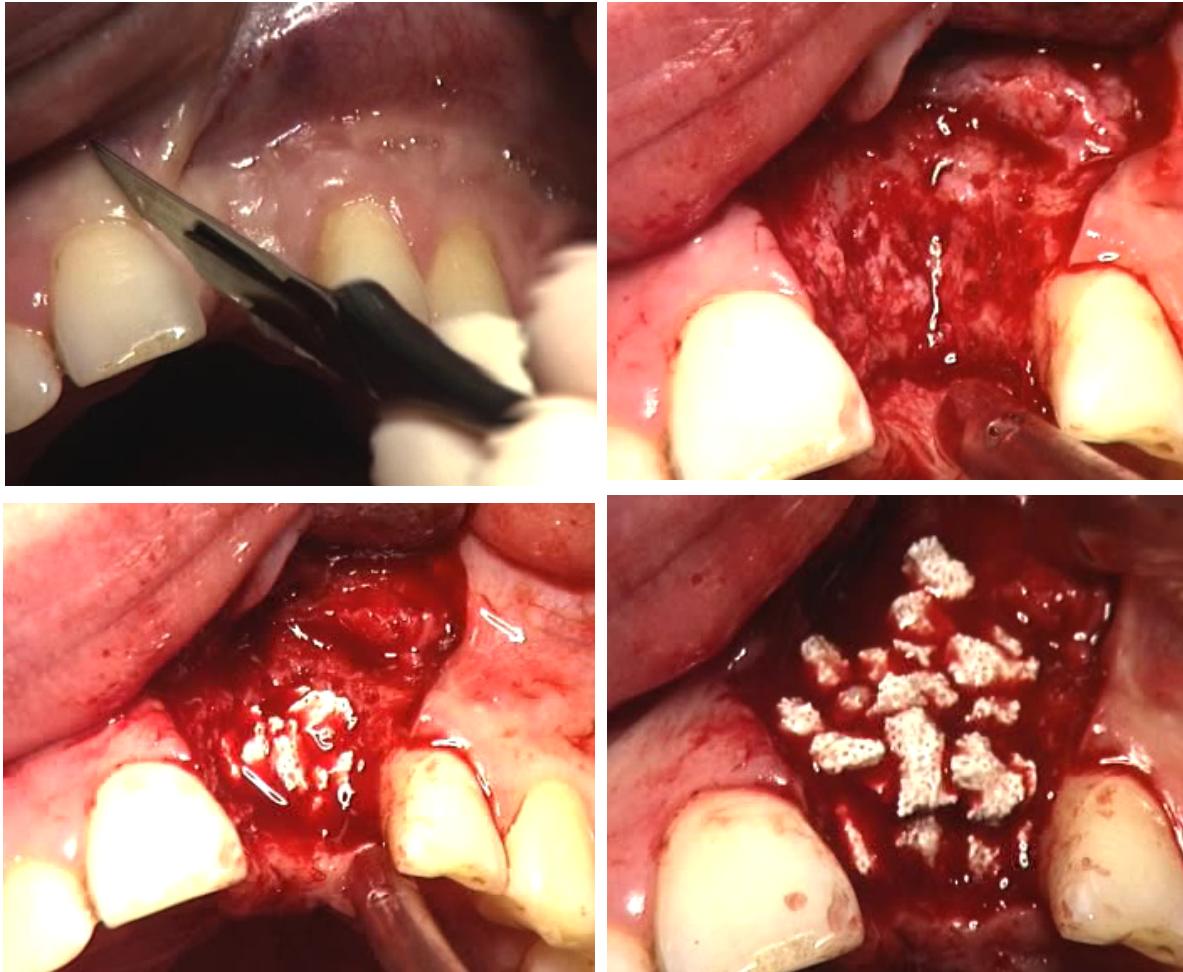


# Het concept van tissue engineering



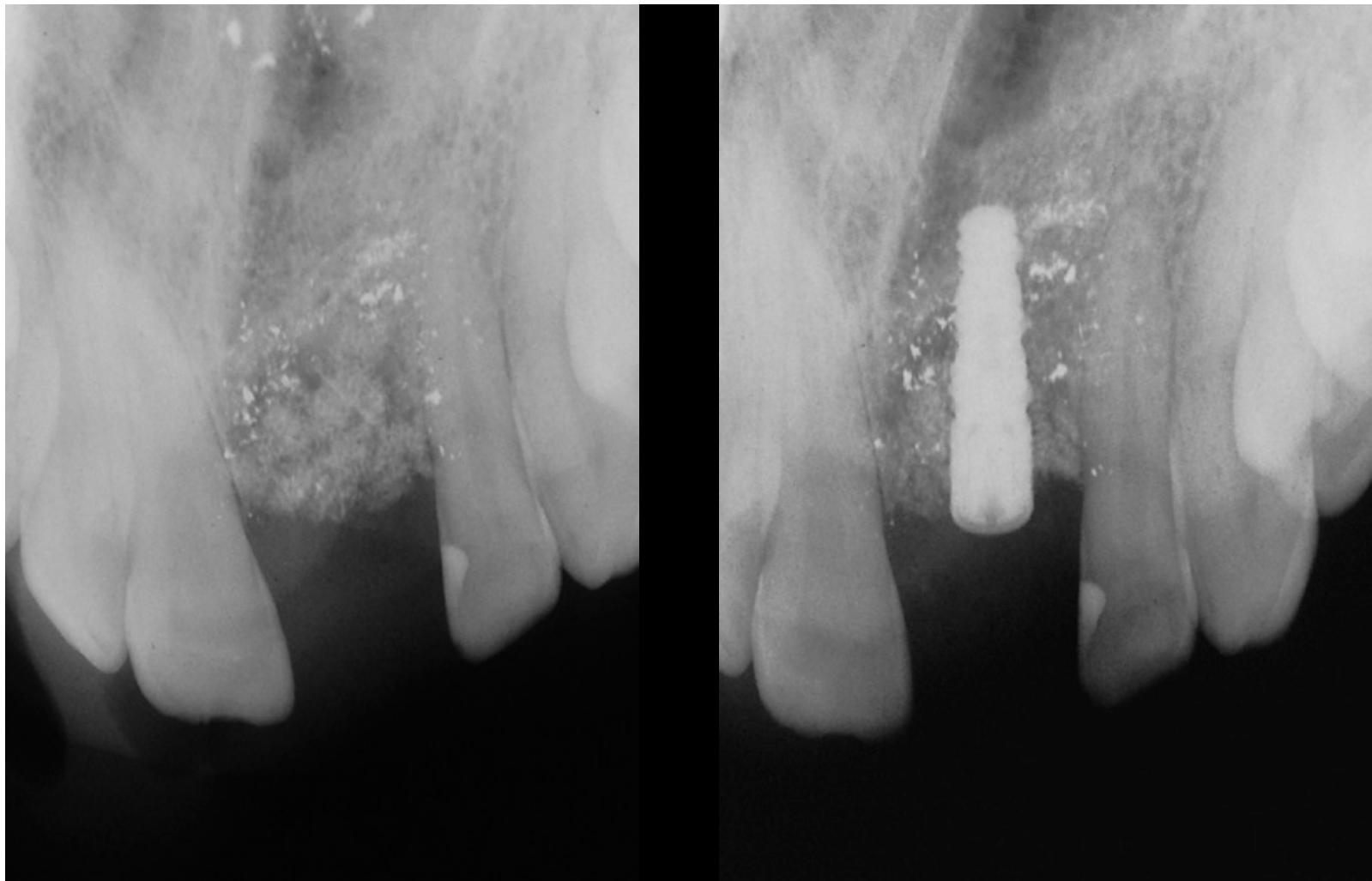


## Tissue engineering in de kliniek





## Tissue engineering in de kliniek





## Tissue engineering in de kliniek

