

AMEDRIX

matrix-based medical implants

Presentation



A M E D R I X \rightarrow matrix-based medical implants

Focus

Regenerative medicine - Innovative cell free implants

Products

Chondrofiller: gel, liquid

R&D/ Production Implants for soft tissue defects, CE-mark, class III implants

Location

Esslingen am Neckar

Manufacturing according to GMP

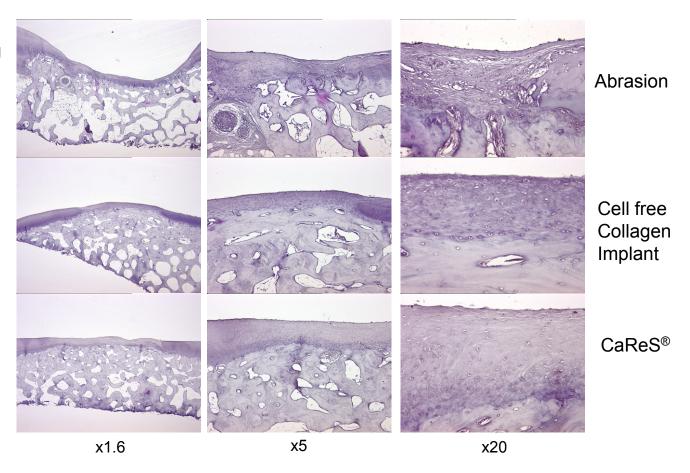


- Native Collagen
- Isolated from animal tissue (SPF)
- CD rats-tails (SPF) from Charles River Wiga GmbH
- Health monitoring of the animals every 6 weeks
- Aseptic isolation
- Biocompatibility for collagen proven

History



HE-staining after 1 year



First product-line ChondroFiller

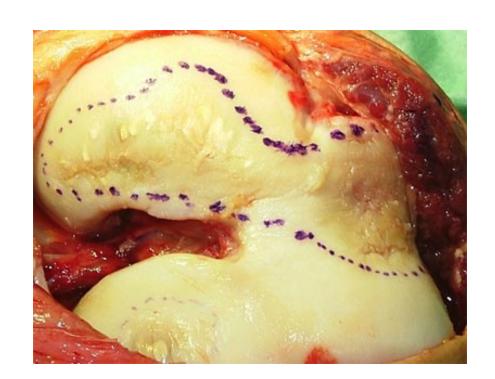


Problem

Cartilage-defects in joints

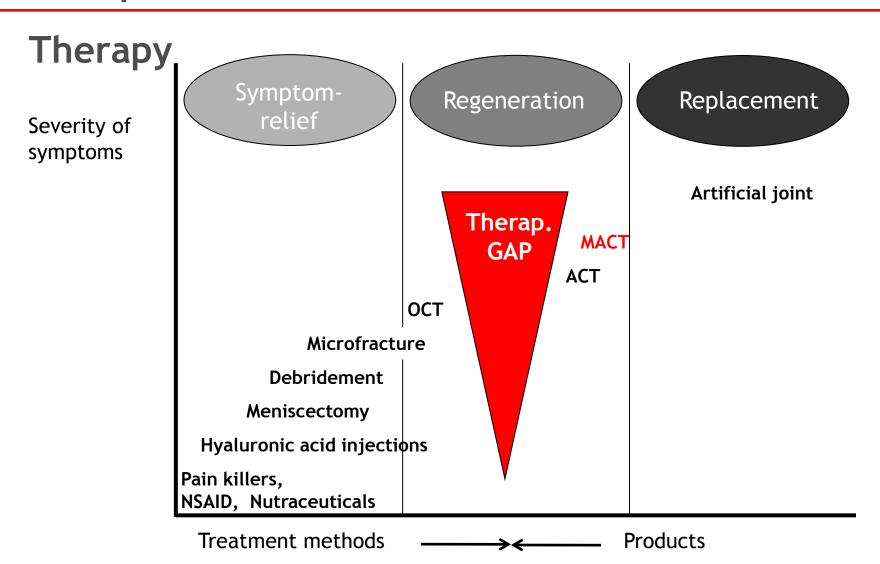
 Every second individual over 30 years affected

Currently, no healing in human



First product-line ChondroFiller



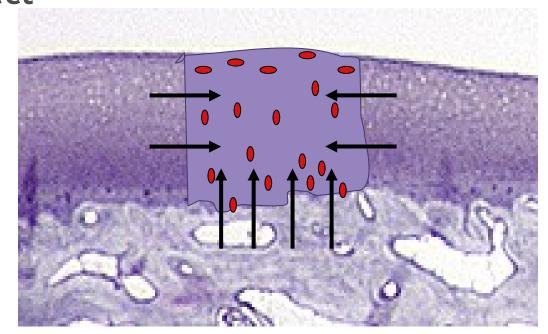






Amedrix` solution

- Cell-free collagen scaffold
- Perfect fit into defect
 - through innovative application methods
- Repopulation by autologous cells
- Synthesis of matrix-proteins







ChondroFillerliquid



- ChondroFiller liquid is a gamma-sterilized dual chamber syringe system, which is separately filled with pure, liquid collagen type I and a neutralization solution
- For defect sizes: area up to 3 cm²
- The liquid collagen obtains its final shape *in situ* in the defect zone





Technology

- Autoregenerative collagen implant for the treatment of articular cartilage defects in knee joints, ankle joints shoulder joints, etc.
- Both ChondroFiller products are certified as class III implants

ChondroFillergel



- ChondroFiller gel is a round shaped, gamma-sterilized collagen type I implant, which is ready to use
- Two different sizes: 2cm² and 4cm²
- It becomes implanted through a minimally invasive surgical operation for defect sizes: area up to 12cm²





- Solution is autoregenerative in just one procedure
- Perfect fit into defect through innovative application methods
- It is a low-priced implantation
- Liquidity allows perfect adaption to all varieties of small defect zones
- Using fibrin glue is not necessary
- Only one arthroscopic surgery is necessary
- Easy handling, storable and ready to use

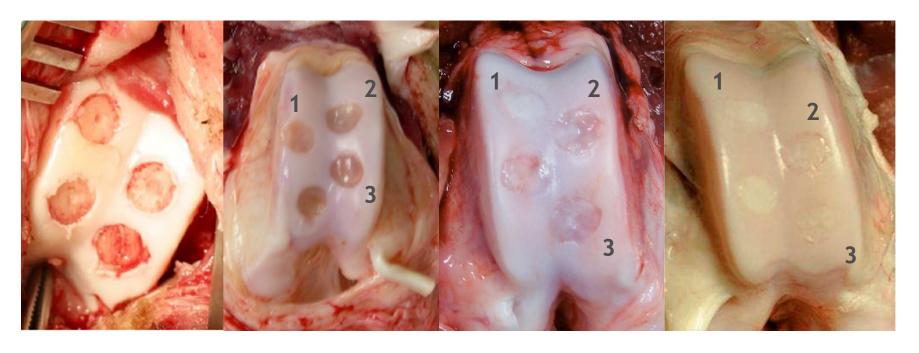
- ChondroFiller gel is autoregenerative in just one procedure
- The gel is suitable to fill defect zones up to 12cm²
- There is no additional covering or suturing necessary and therefore it is easy to use
- Short surgery procedure based on minimally invasive surgical technique
- Easy handling, storable and easy to use





Clinical Results, Minipig pre and after OP

1: ChondroFiller liquid; 2: Microfracture; 3: ChondroFiller gel



empty defect.

6 weeks post op

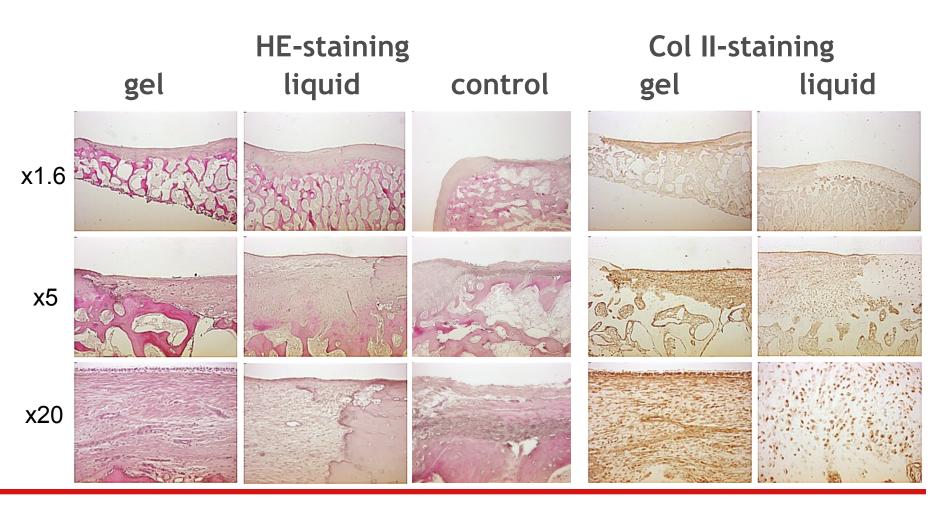
6 months post op

12 months post op





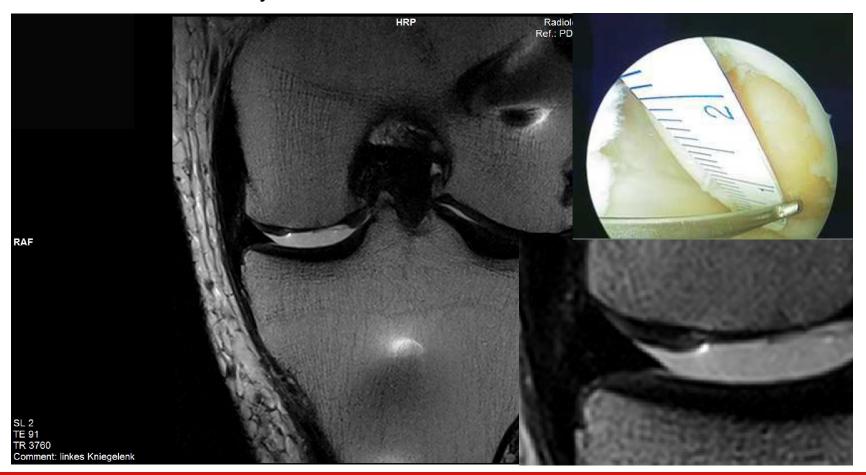
Histologie, Minipig 6 weeks after op



MRT 4 weeks post op



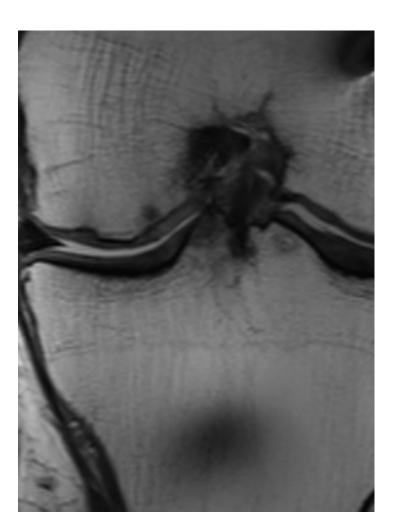
Medial femoral condyle



MRT 6 and 12 months post op



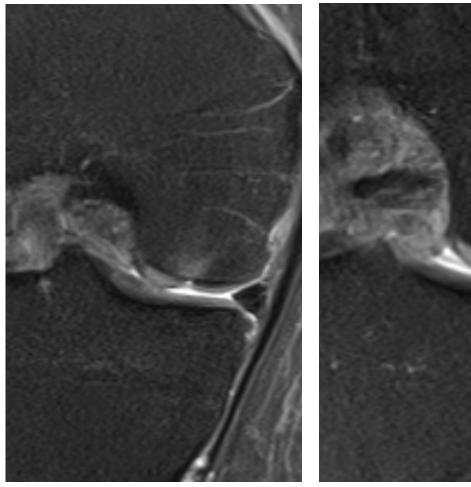


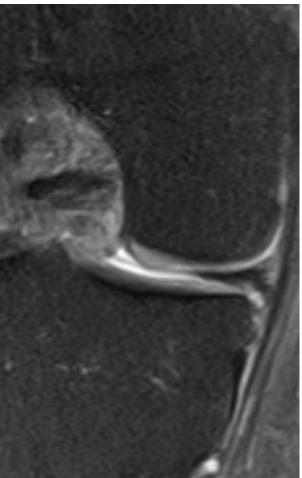


MRT 6 and 12 months post op



Medial femoral condyle

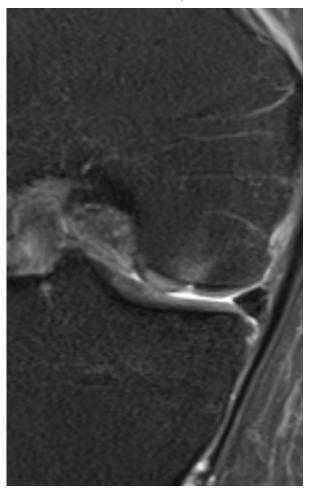


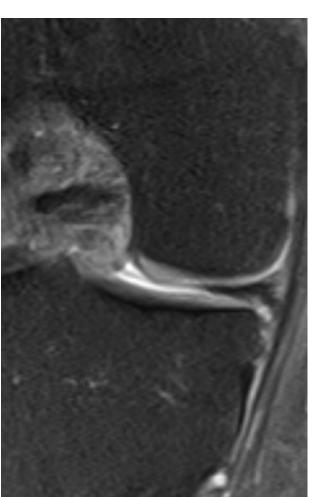


MRT 6 and 12 months post op



Medial femoral condyle

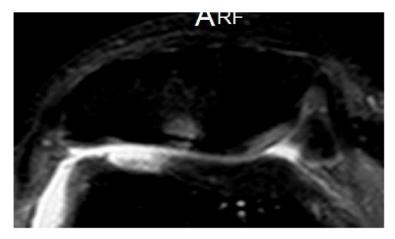


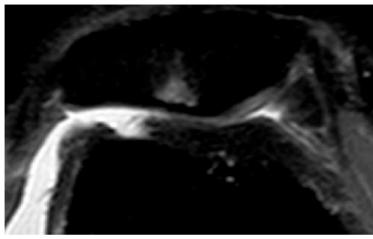


Patella pre op



Patella



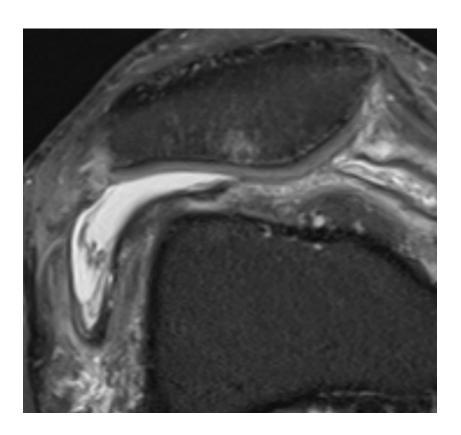


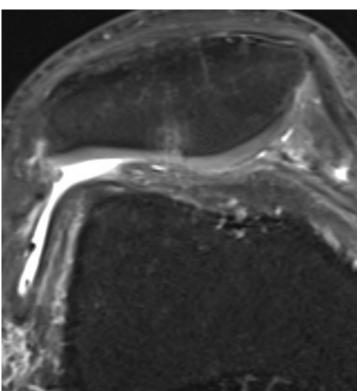


MRT 2 and 12 months post op



Patella



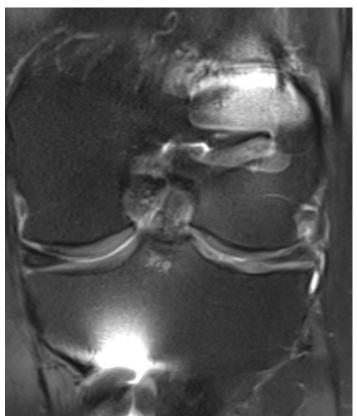


MRT 2 and 12 months post op



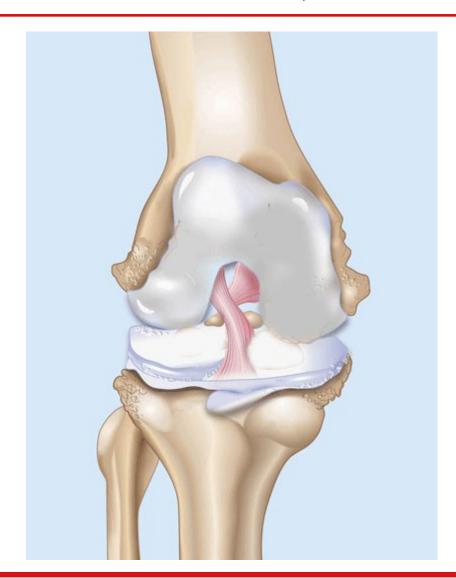
Tibia





Medicus curat, natura sanat





info@amedrix.de