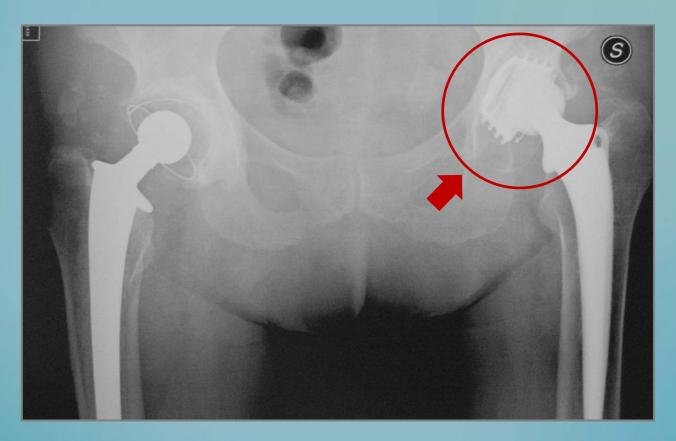


BIOTECK BONE GRAFTS IN HIP REVISION SURGERY

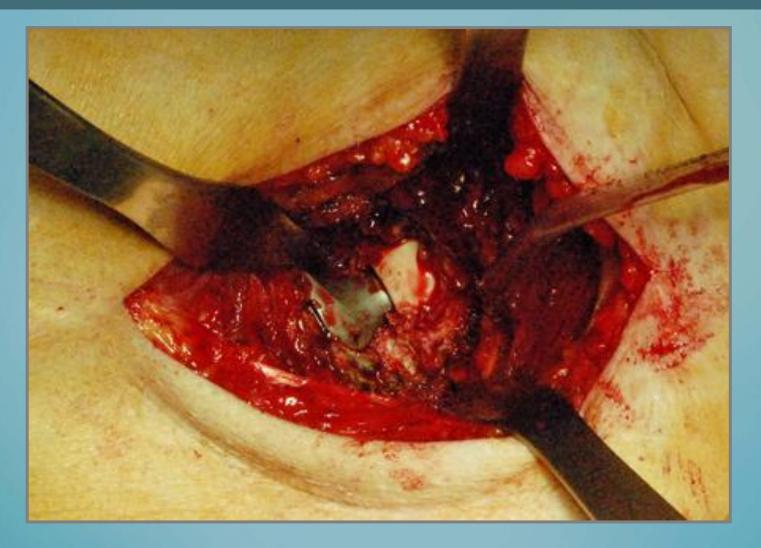
Fabrizio Raimondi Business Development Manager

TOTAL HIP REVISION — PRE-OP RX

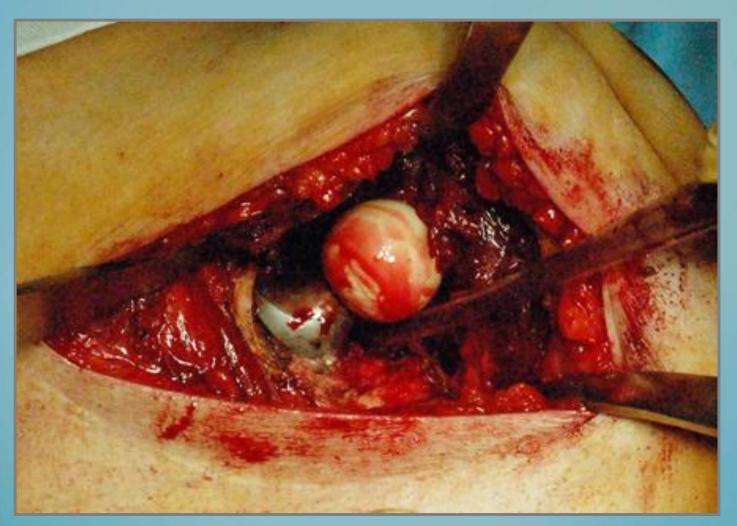
A screwed cup moved up creating a large bone defect



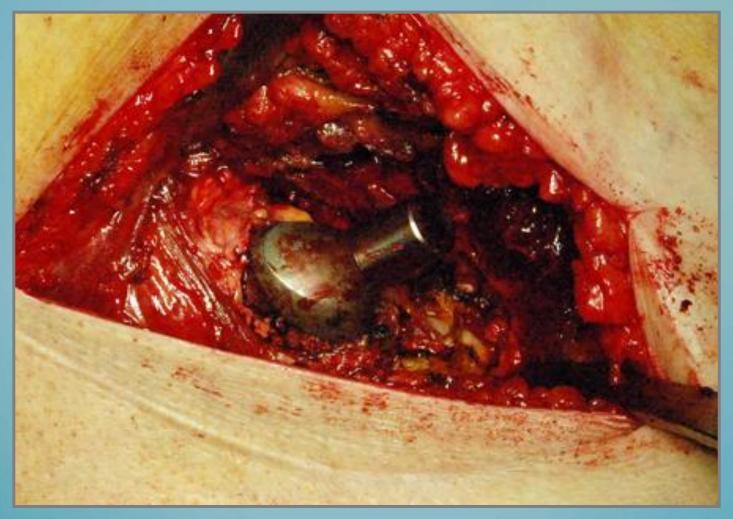
P.B. Q 77 years old



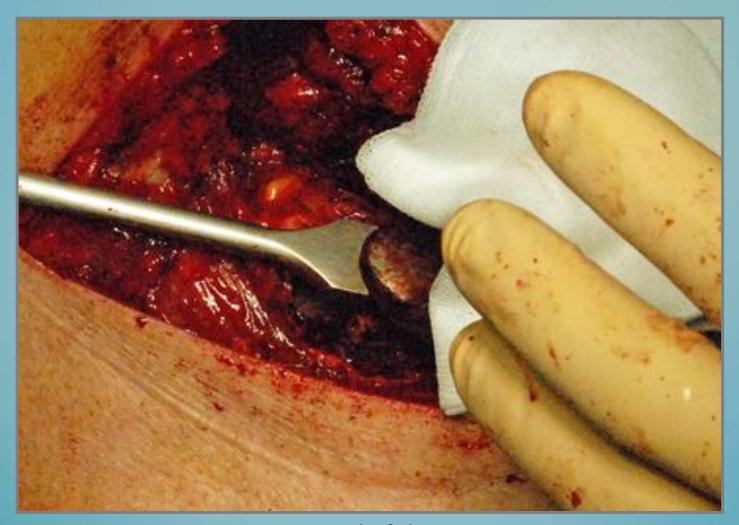
Exposure of the femoral prosthesis



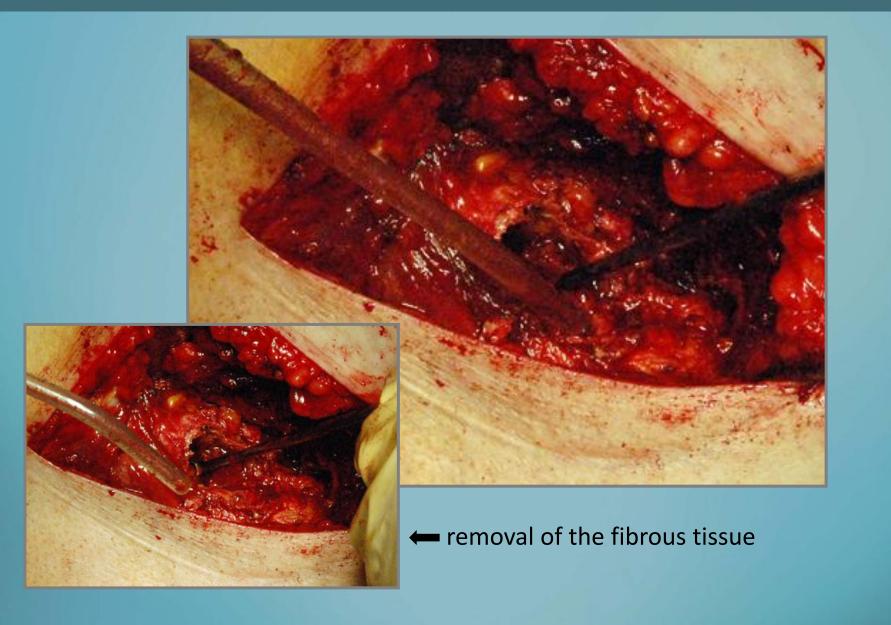
Luxation of the prosthesis



The ceramic haed has been removed



Removal of the stem



REMOVAL OF THE SCREWED CUP



Exposure of the metal cup

REMOVAL OF THE SCREWED CUP



Exposure of the acetabular bone defect

PROSTHESIS COMPONENTS REMOVED



BONE GRAFT PREPARATION



Osteoplant Acetabular Mat

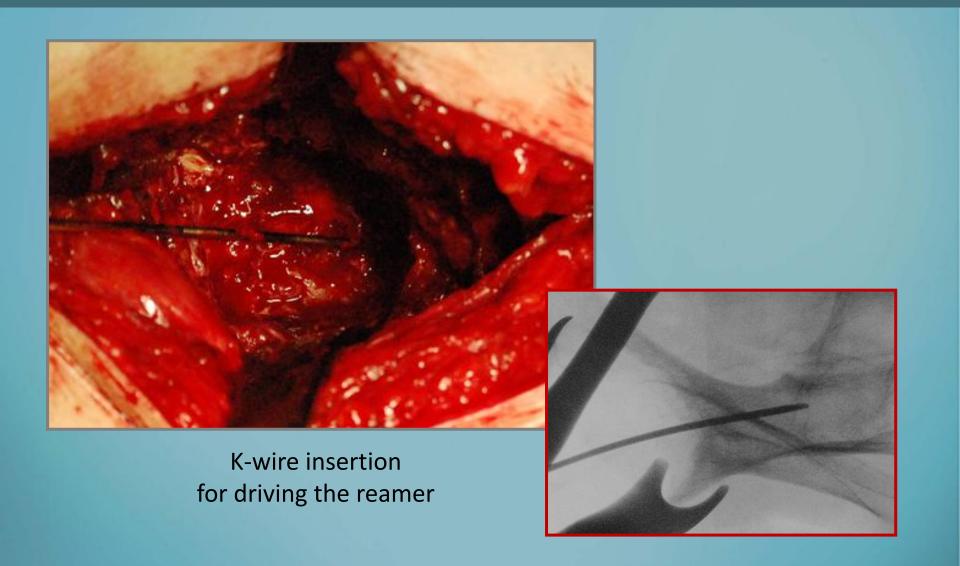


Angiostad



The graft is rehydrated in saline solution for 5 min

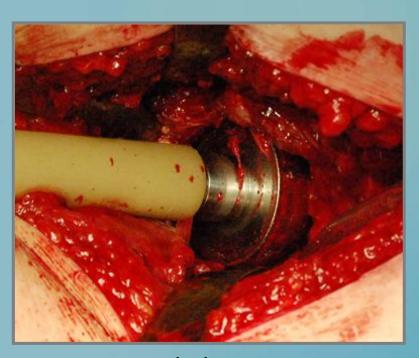
PREPARATION OF THE ACETABULAR



PREPARATION OF THE ACETABULAR

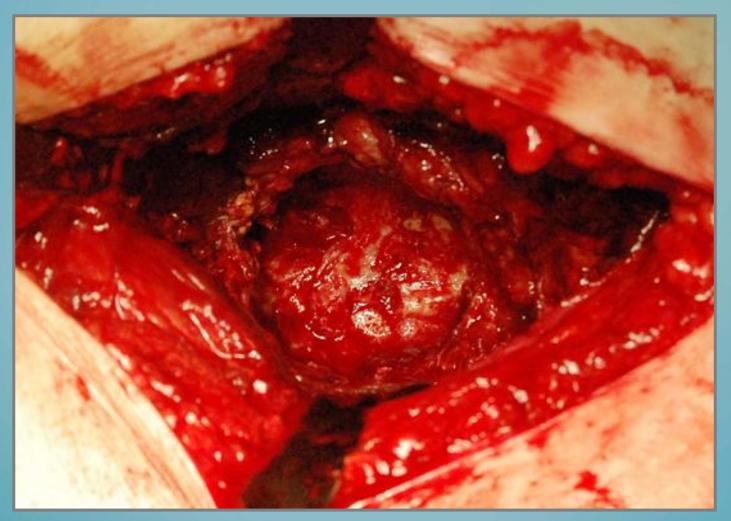


Cannulated drill for the preparation of the implant site of the stemmed cup



Acetabular reamer

PREPARATION OF THE ACETABULAR



The acetabulum is ready for the implantation reamer

PREPARATION OF IMPLANT AND GRAFTS

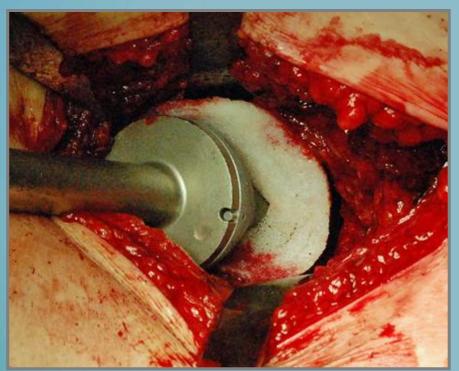


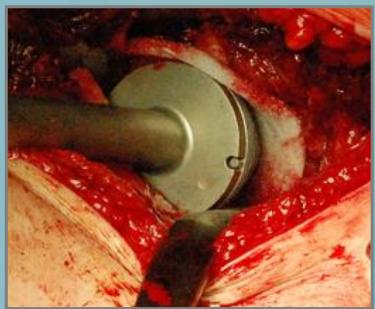
Osteoplant Acetabular Mat and Angiostad 2cc ready for implantation



Osteoplant Acetabular Mat is directly placed on the stemmed cup and Angiostad is gently smeared on its surface.

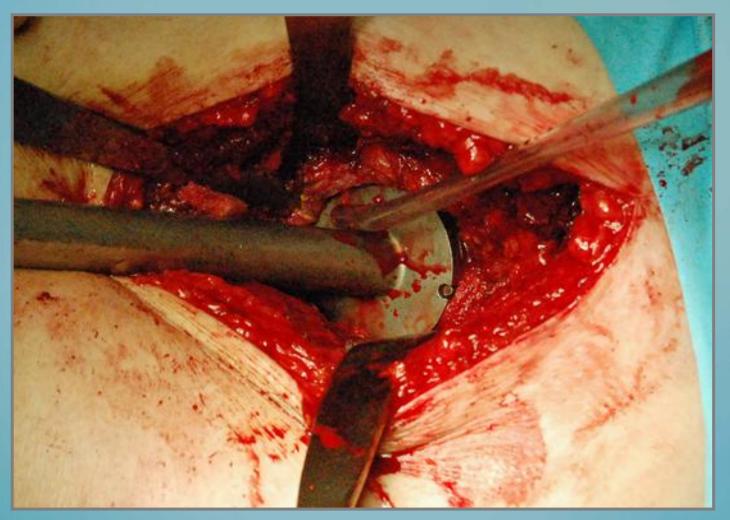
METAL CUP PLUS GRAFTS IMPACTION





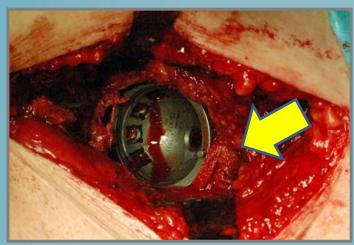
Impaction of the metal cup and grafts

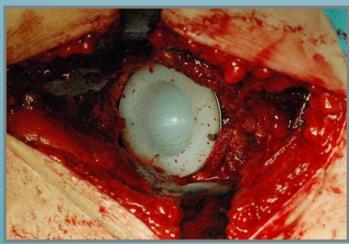
METAL CUP PLUS GRAFTS IMPACTION



Impaction of the metal cup and grafts

METAL CUP PLUS GRAFTS IMPACTION





Implanted metal cup with polyethylene insert



Intra-operative fluoroscopy control

BIOCOLLAGEN CRUNCH



Biocollagen Crunch 5 cc



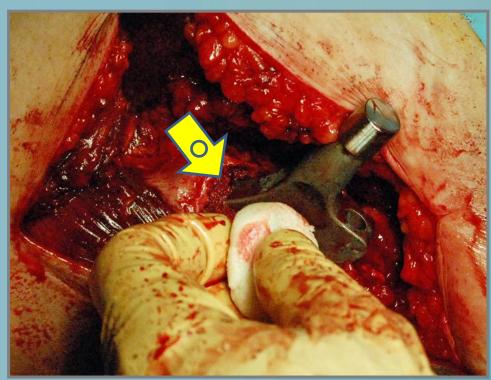
Biocollagen Crunch 5 cc in jar is then used for filling proximal femur defect

BIOCOLLAGEN CRUNCH



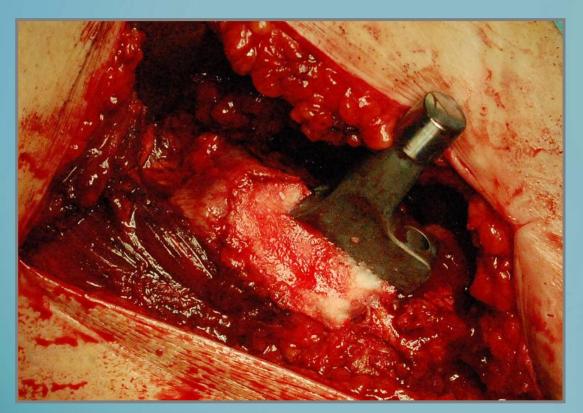
Impaction of femoral stem

 Cancellous graft is placed around the femoral stem for closing the femoral canal

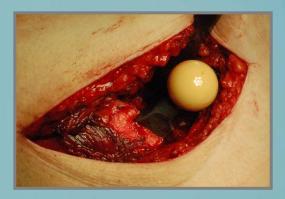


Biocollagen Crunch is used for the proximal femoral defect

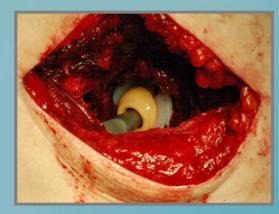
BIOCOLLAGEN CRUNCH



Biocollagen Crunch around the femoral stem



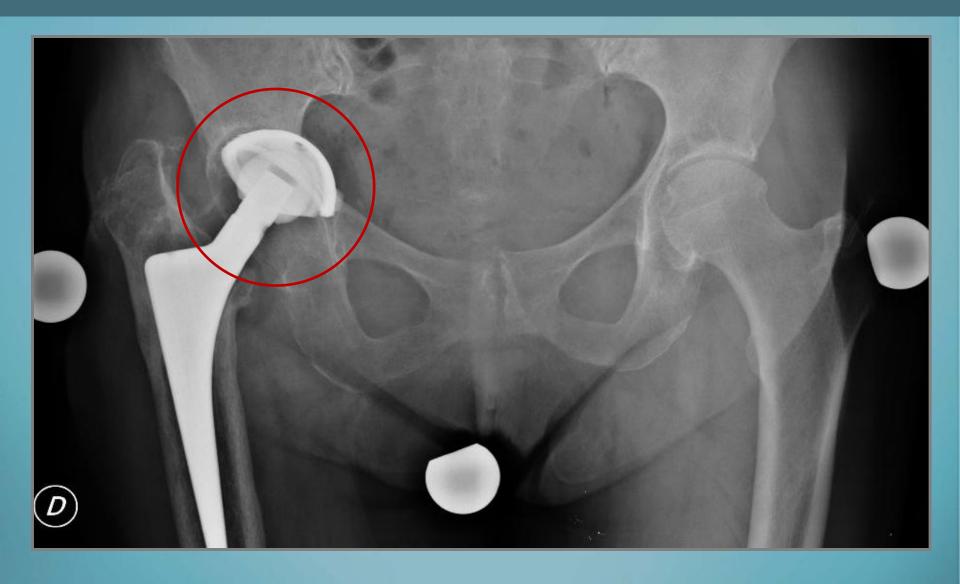
The femoral head is placed



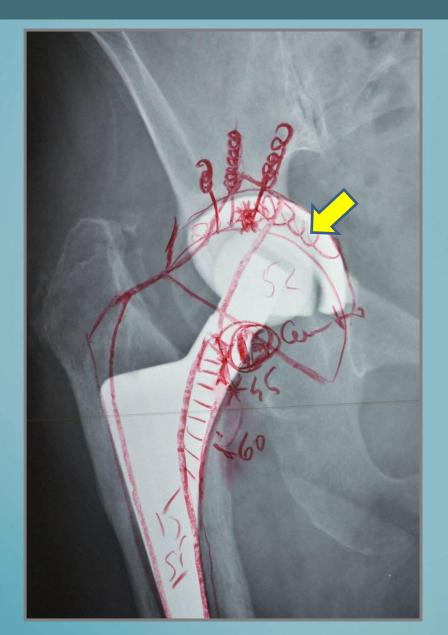
The joint has been reduced

Courtesy of dr. Renzo Bianchi
Orthopedic Surgeon, Feltre-Italy

TOTAL HIP REVISION — PRE-OP RX

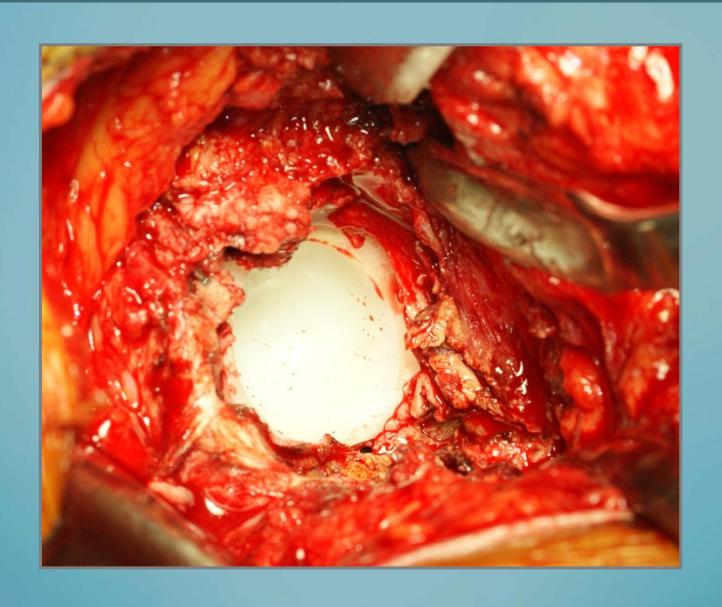


PRE-OP PLANNING

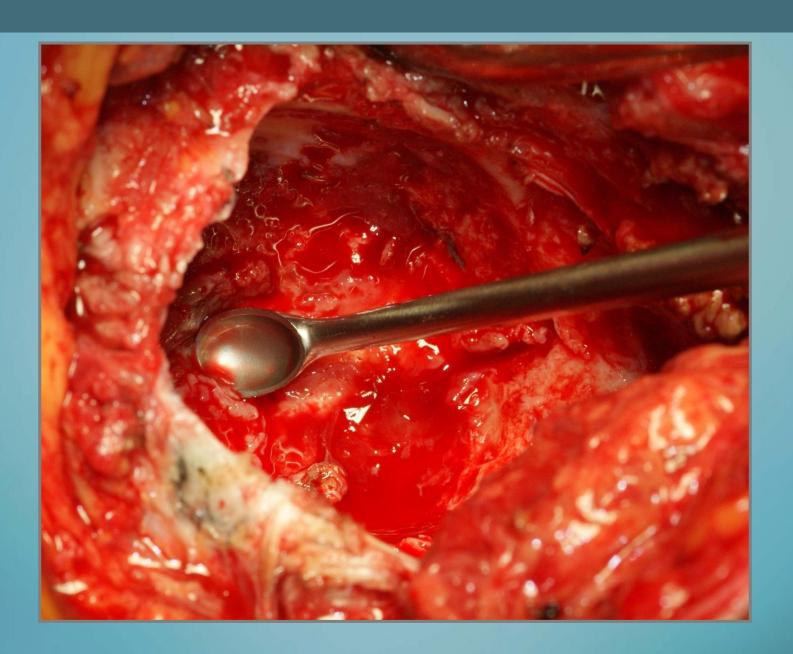


Bone loss to replace with grafts

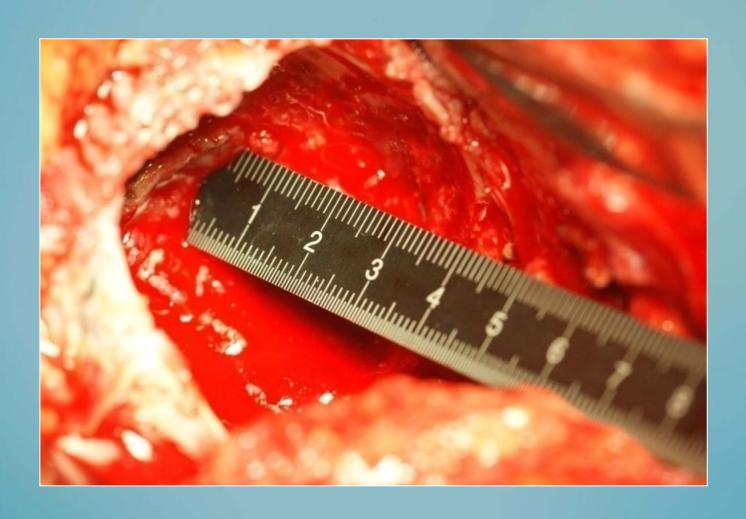
ACETABULAR COMPONENT TO REVISE



ACETABULAR DEFECT



ACETABULAR DEFECT

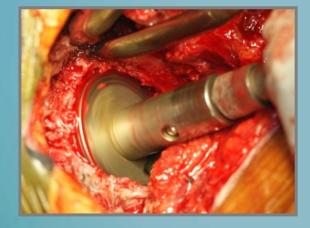


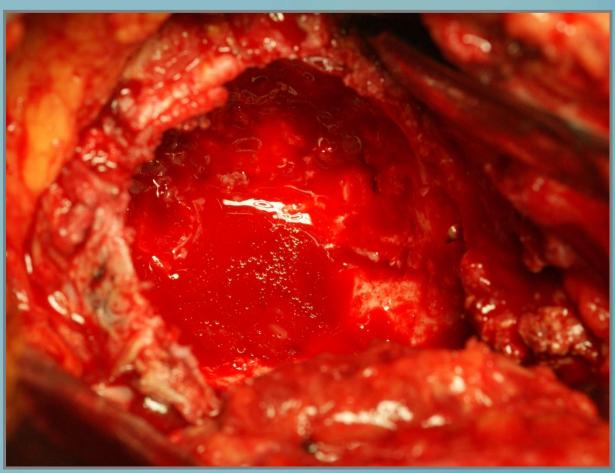
REAMING OF THE ACETABULUM





REAMING OF THE ACETABULUM





BONE GRAFT PREPARATION



Activagen Injectable paste



Osteoplant Chips



Bone paste are mixed with cancellous chips

FILLING OF THE ACETABULAR DEFECT



FILLING OF THE ACETABULAR DEFECT



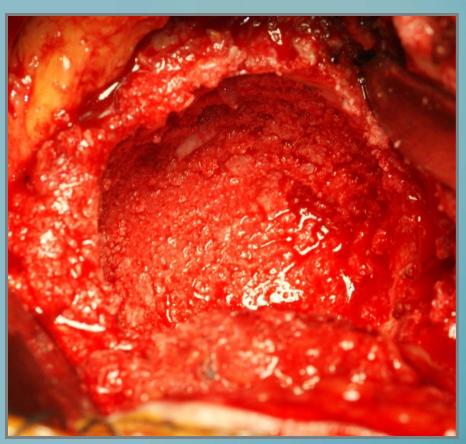


Osteoplant Cancellous Chips implanted in the acetabulum

ACETABULAR DEFECT REPLACEMENT

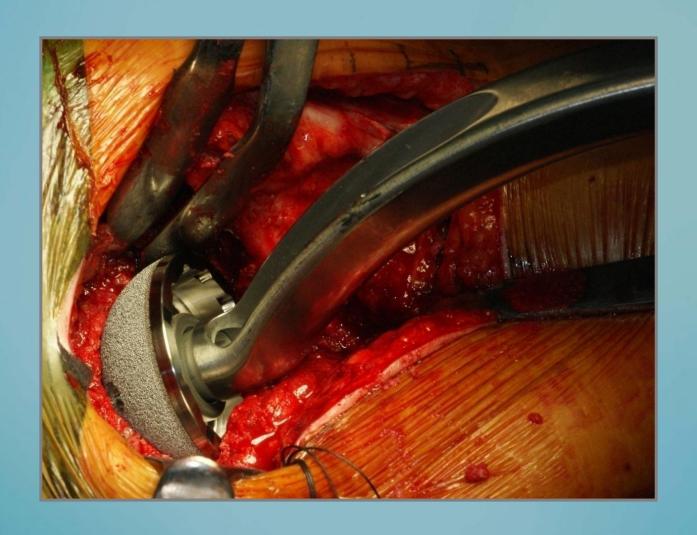


Chips are compacted by using the reamer with opposite rotation

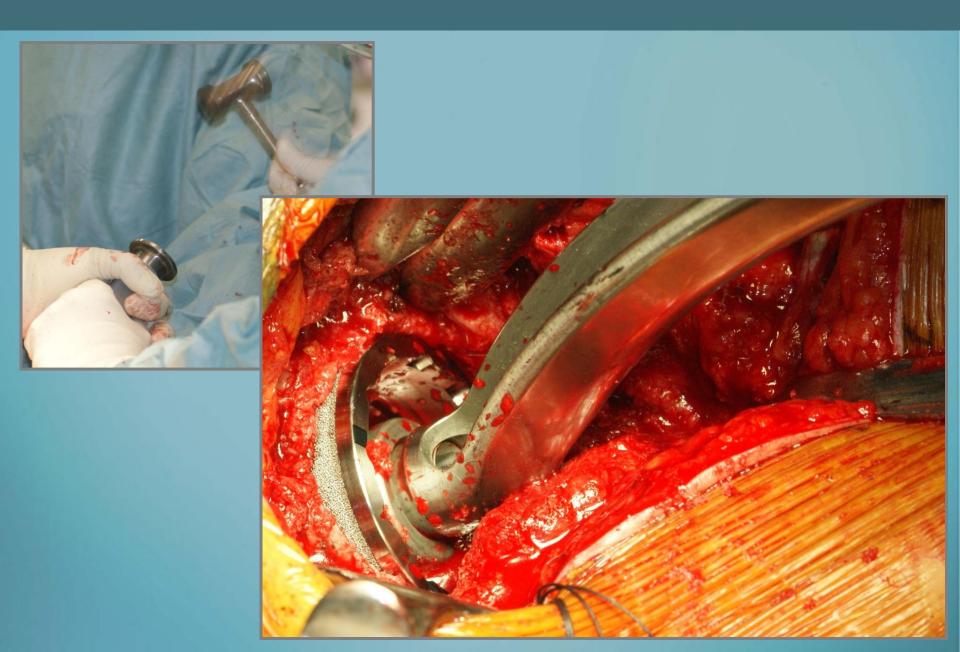


Appearance of the reconstract acetabular cavity

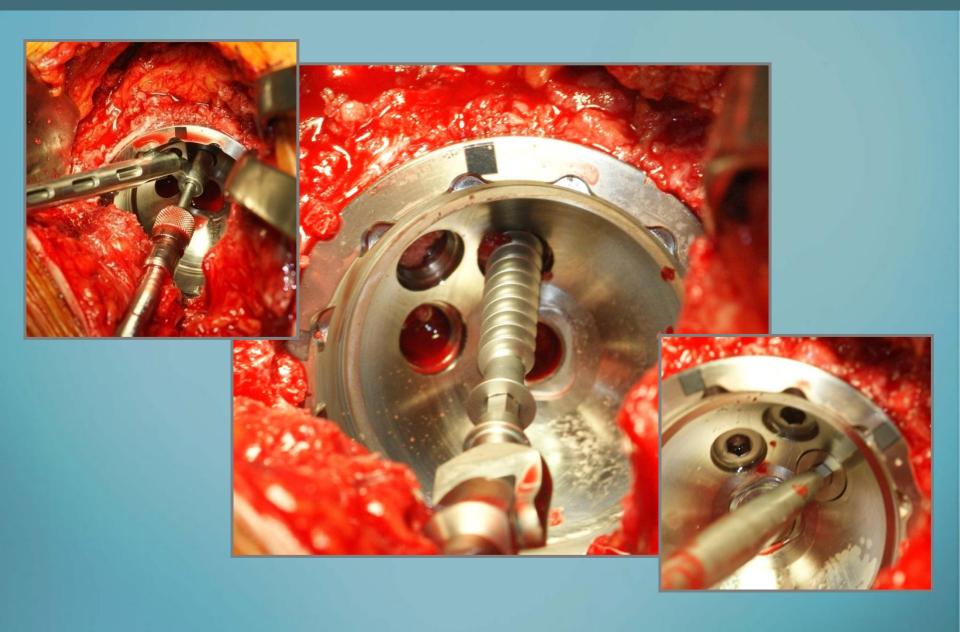
IMPACTION OF THE METAL CUP



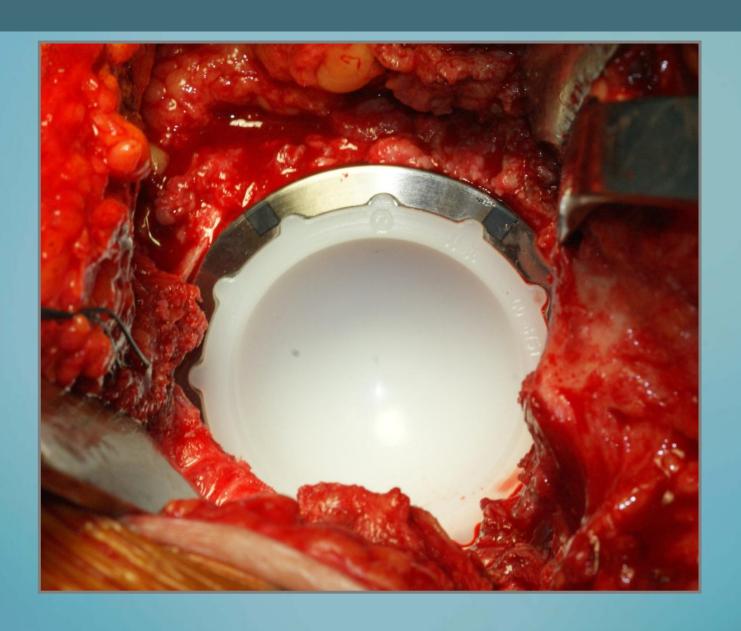
IMPACTION OF THE METAL CUP



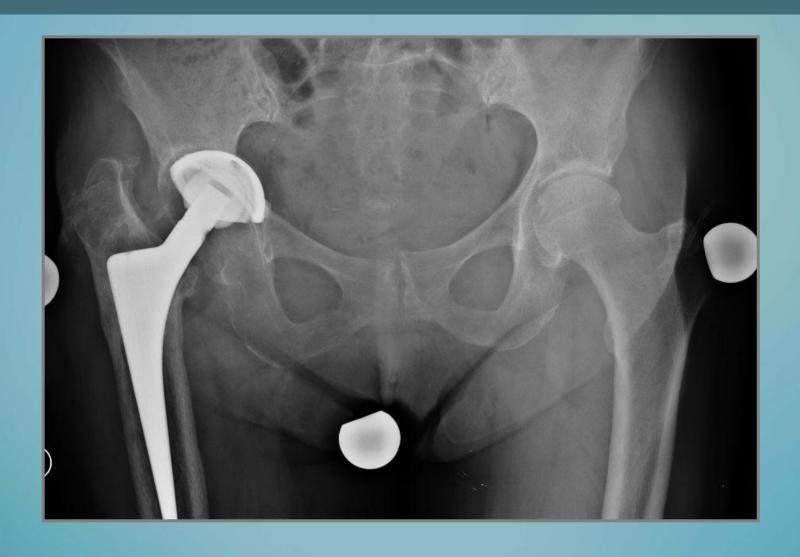
METAL CUP FIXATION WITH SCREWS



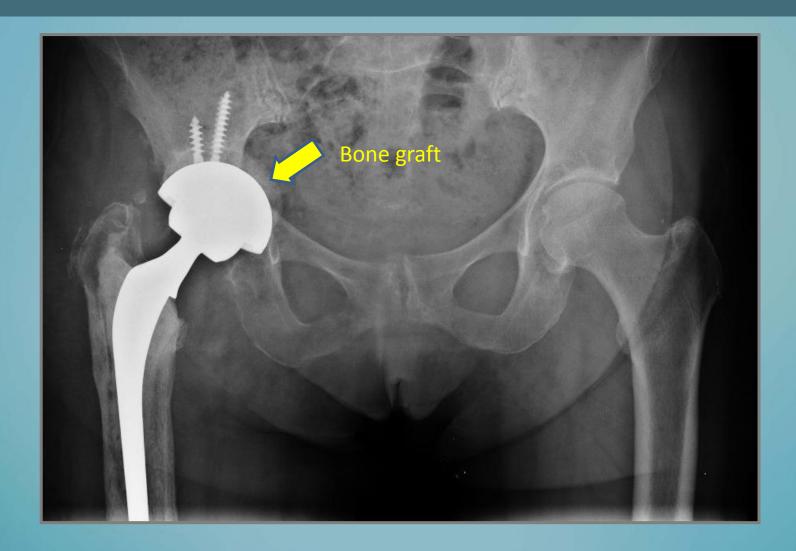
POLYETHYLENE INSERT IS PLACED



PRE-OP RX CONTROL



POST-OP RX CONTROL



Courtesy of Prof. Massimiliano Marcucci
Director of C.E.S.A.T. Centro Eccellenza Sostituzioni Articolari
Eucecchio (FI) - Italy



Surgical images of this presentation has been provided by courtesy of dr. R. Bianchi and Prf. M. Marcucci and can not be used without Bioteck and their written permission.

THANK YOU