

ARTROSCOPY

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Ortopedická klinika
FN Brno-Bohunice

- endoscopic method

- PORTS

- OPTIC (light+camera)
 - INSTRUMENTS



- KNEE
- SHOULDER

- ANKLE

- ELBOW
- WRIST
- HIP

- SMALL JOINTS
- RETRO-TENDINOUS SPACE (ACHILLES TENDON)



MONITOR

PC

light source

camera processor



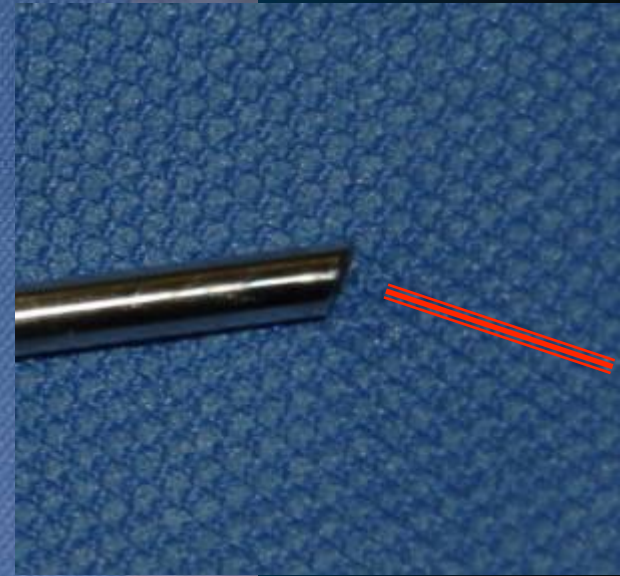
pump



shaver



30 degree optic



ARTHROSCOPIC INSTRUMENTS



IMPLANTS

Features

DURABRAID® Suture

TWIN® Suture Anchors come preloaded with #2 DURAGRAD Suture. DURAGRAD Suture is a unique brand of Smith & Nephew braided polyester suture. DURAGRAD Suture is a carefully selected mix of strength, knot, sliding ability, and knot security. It is designed for use in performing arthroscopic or mini-open procedures. It does not require any special cutting instruments.

offered in a variety of sizes and materials, with
 ding on your technique and requirements.

ed to the dilator to reduce the insertion torque thereby future eyelets are located deeper in the anchor body to cyclic loading.

- suture Anchor with #2 DURABOND Sutures
- suture Anchor with #1 Prolene® Suture
- suture Anchor with two, #2 DURNBRAID Sutures
- suture Anchor with two, #2 DURABOND Sutures

- Suture Anchor with two, #2 DURNBRAID Sutures
- suture Anchor with two, #2 DURABOND Sutures

- suture Anchor with two, #2 DURABOND Sutures
- suture Anchor with two, #2 DURNBRAID Sutures

Suture Anchor, PLLA, with two, #2 DURABOND Sutures
Suture Anchor, PLLA, with two, #2 DURABOND Sutures,
ded dilator and guide
Suture Anchor, PLLA, with two, #2 DURABOND Sutures,
iris and threaded dilator
Suture Anchor, PLLA, with two, #2 DURABOND Sutures,
iris
Suture Anchor, PLLA, with two, #2 DURABOND Sutures
Suture Anchor, PLLA, with two, #2 DURABOND Sutures
Suture Anchor, PLLA, with two, #2 DURABOND Sutures
Suture Anchor, PLLA, with two, #2 DURABOND Sutures

Suture Anchor, PLLA, with two, #2 DURAGRAD Sutures loaded distal

1/2" x 3.5 mm
 1/2" x 5 mm
 1/2" x 6.5 mm
 1/2" Anchor
 and 5.0 mm Anchor
 Twin Fix TI Anchor
 Saker
 Saker
 1/2" Saker



Maritime Anchor



Absorbable Anchors

- **TOURNIQUET** (extremity ischemization, for bloodless surgery)
 - cca 250 Torr (syst. BIPres+100)
 - maximum 90 min
 - knee, ankle



Preparation







STERILITY









scrub nurse

asistent

patient

surgeon

anesth

UPPER EXTREMITY

SHOULDER

- DEGENERATIVE DISORDERS
- TRAUMA, POSTRAUMATIC DISORDERS
- INFLAMMATION
- TUMOUR



SURGERY

- ARTHROSCOPY
 - RECURRENT DISLOCATION
 - DEGENERATIVE AFFECTION OF ROTATOR CUFF
 - SUBACROMIAL PROBLEMS (IMPINGEMENT)
 - DEGENERATIVE ARTHRITIS

SURGERY TECHNIQUE



SURGERY TECHNIQUE



SURGERY TECHNIQUE









ANCHORS (TIGHTENING OF JOINT CAPSULE FOR INSTABILITY)

POSTOPERATIVE TREATMENT

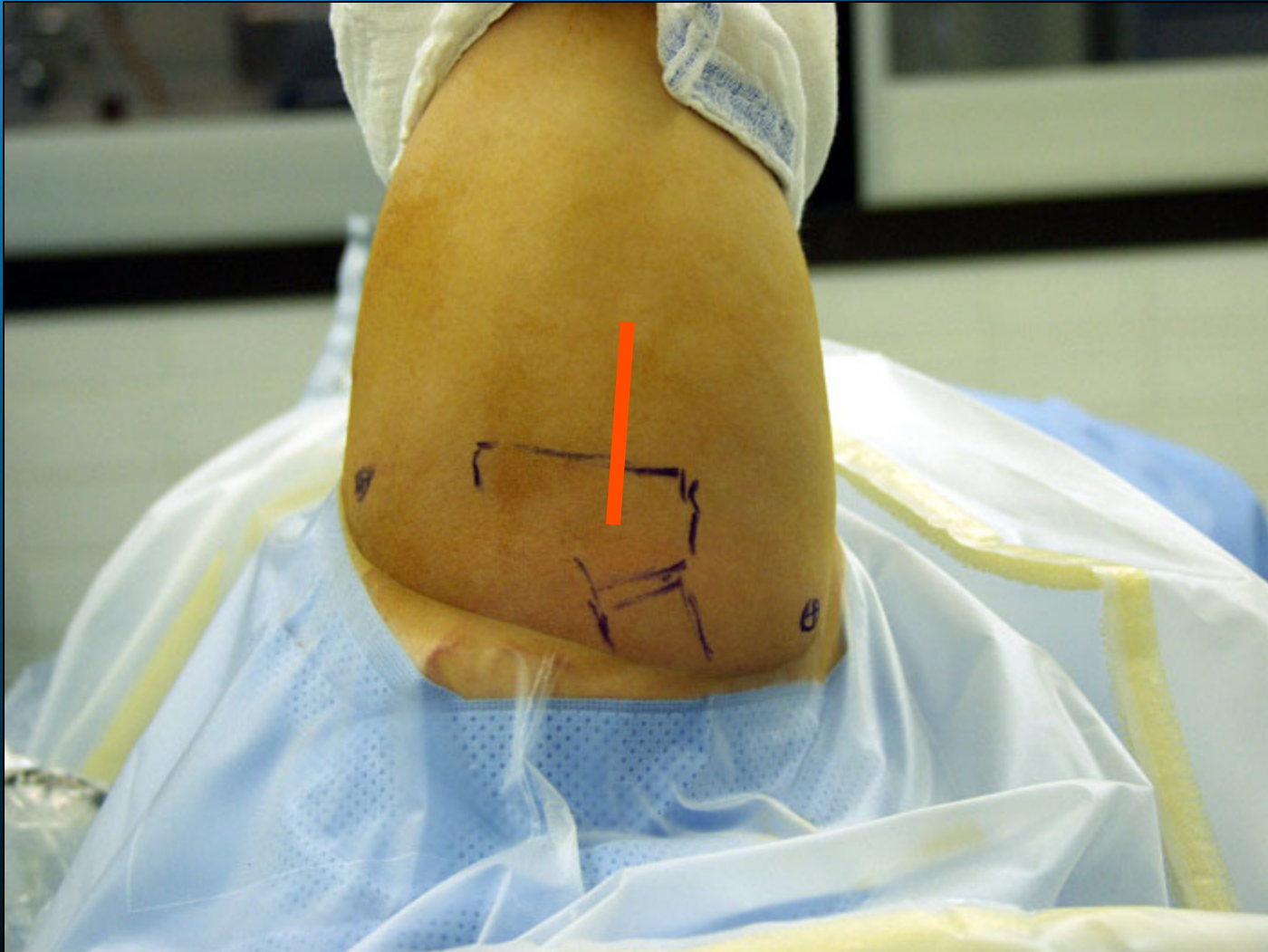


Desault orthosis

OPEN SURGERY

- MINIMALLY INVASIVE
 - SUTURE OF ROTATOR CUFF
 - LATERAL CLAVICULA RESECTION (Stewart)

SURGERY TECHNIQUE



POSTOPERATIVE TREATMENT

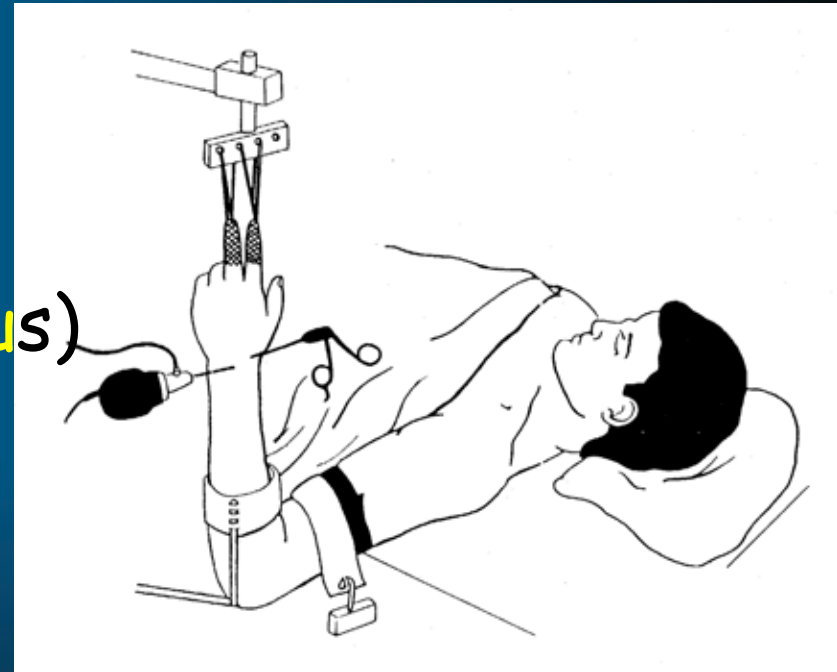


Abduction orthosis

- ARTROSCOPY OF THE WRIST
- WRIST and FINGERS ARTHRODESIS
- LIMITED WRIST ARTHRODESIS
- PARTIAL EXCISION OF CARPUS
- OSTEOTOMY OF DISTAL RADIUS/ULNA
- CARPAL TUNEL DECOMPRESSION

WRIST ARTROSCOPY

- wrist instability
- synovectomy
- TFCC surgery (wrist meniscus)
- navicular pseudoarthrosis



- smaller optics, instruments
- without pump

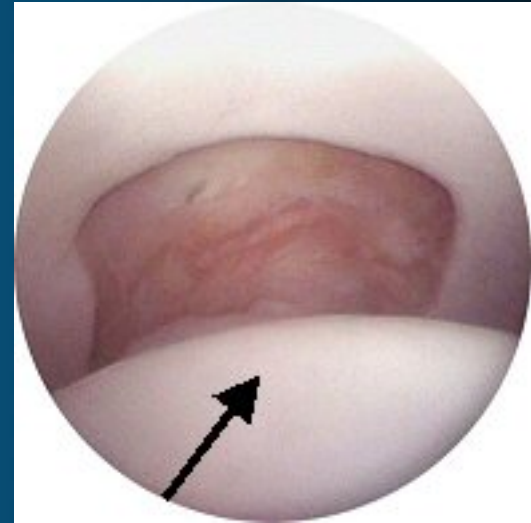
LOWER EXTREMITY

HIP

- ARTROSCOPY

- posttraumatic disorders
- degenerative arthritis
- coxitis

- DEBRIDEMENT
- LOOSE BODIES REMOVING
- LABRUM SURGERY
- RINSE (LAVAGE)



KNEE

- **ARTROSCOPY**

- „acute injuries“
- instability
- degenerative arthritis
- gonitis

(surgery of meniscus, plicae,
loose bodies removing,
lateral patellar retinaculum
release, etc.)

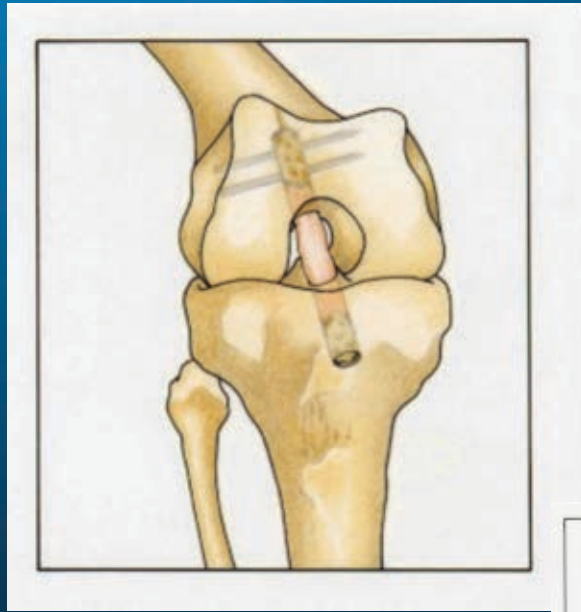




Method with graft sec.Brückner

-BTB graft (BONE-TENDON-BONE)

(source - ligamentum patellae)



Treatment of
ACL - Ant. Cruciate Ligament
Instability



so called „golden standard“

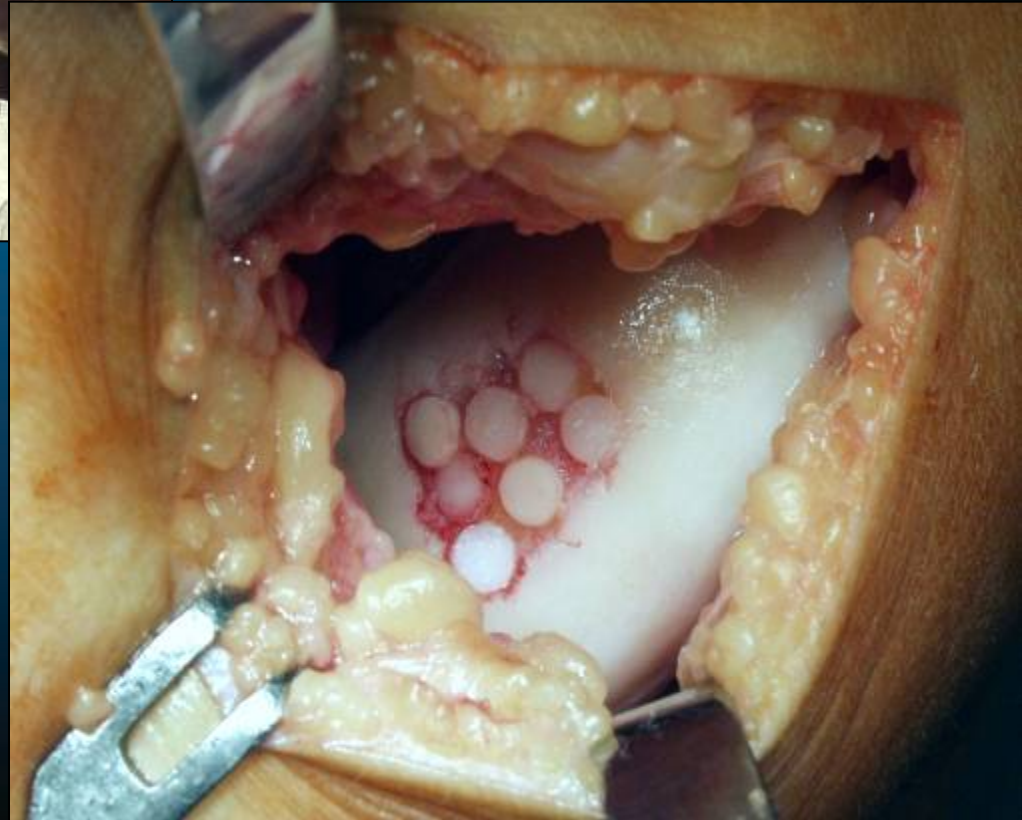
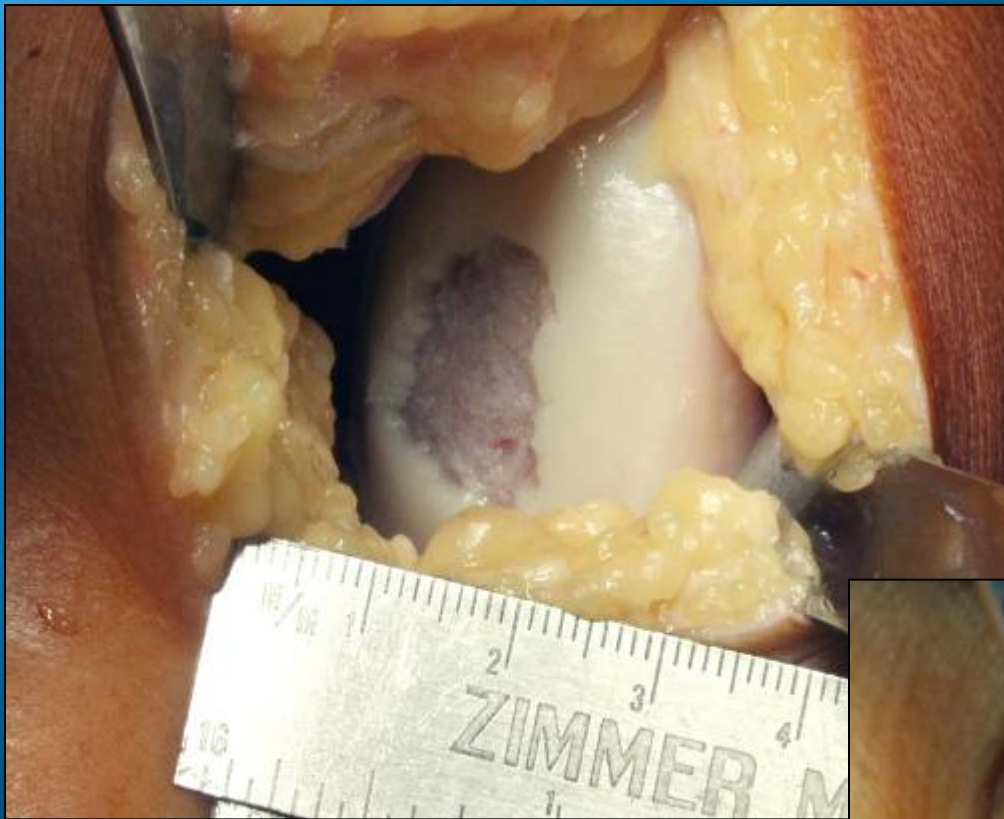
CHONDRA DEFECT

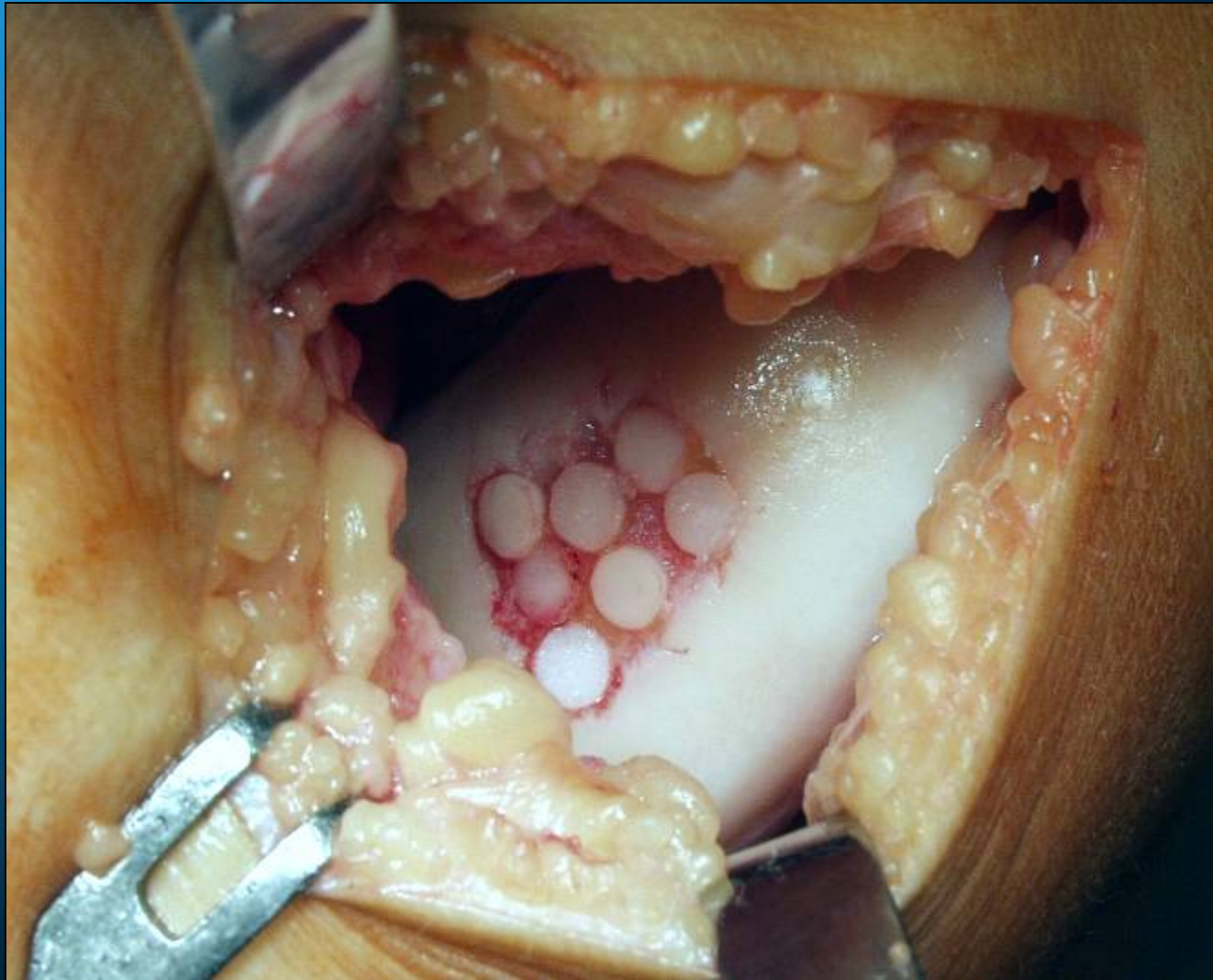
- MOSAICPLASTY
- AUTOLOGOUS CHONDROCYTES TRANSPLANTATION



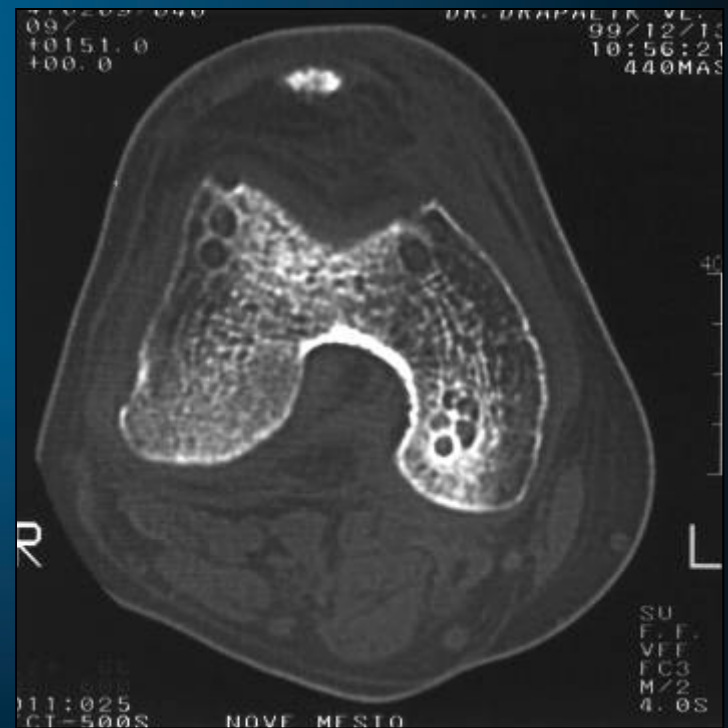
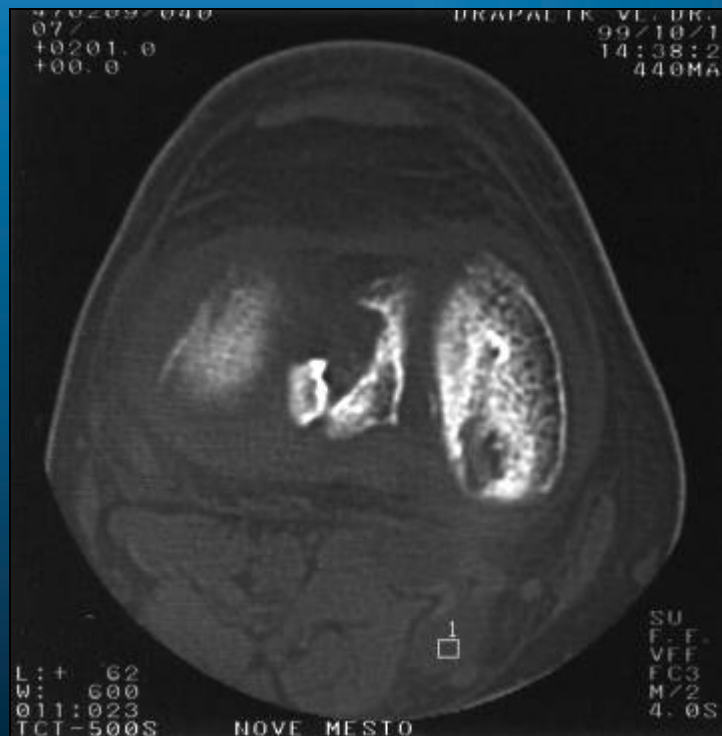
MOSAICPLASTY

(Puzzle technique)





Mosaicplasty



AUTOLOGOUS CHONDROCYTES TRANSPLANTATION

- 2 SURGERIES
 - arthroscopic chondral sample taking
 - chondrocytes cultivation on bone bank for 4-8 weeks
 - open implant of cartilaginous tissue graft (using fibrin glue)

CHONDROCYTES transplantation

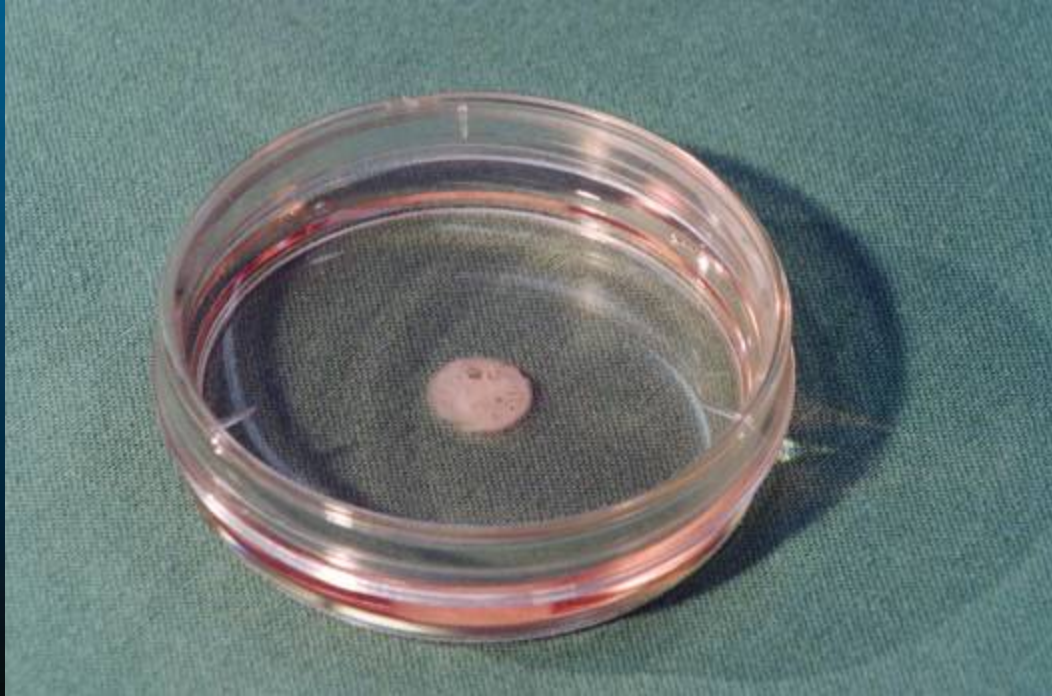
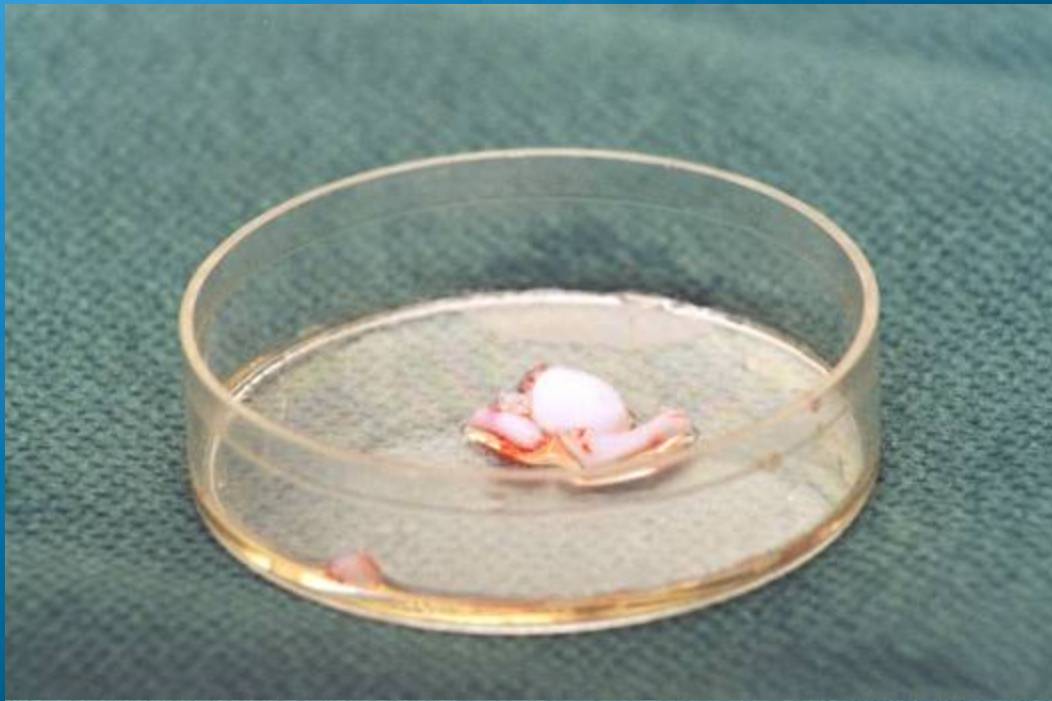
ADVANTAGE

„ultimate“ chondral defects healing

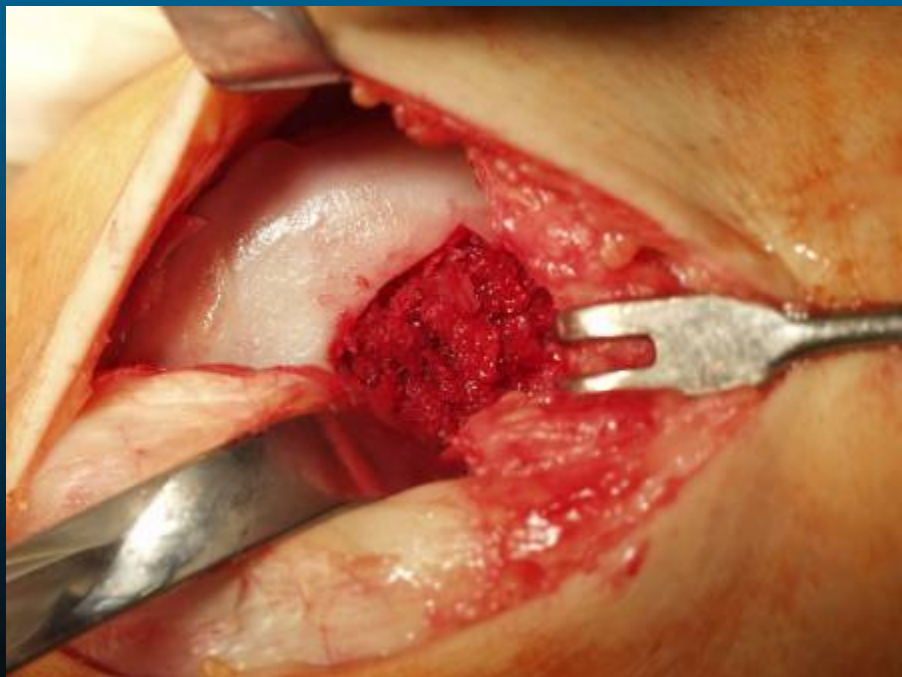
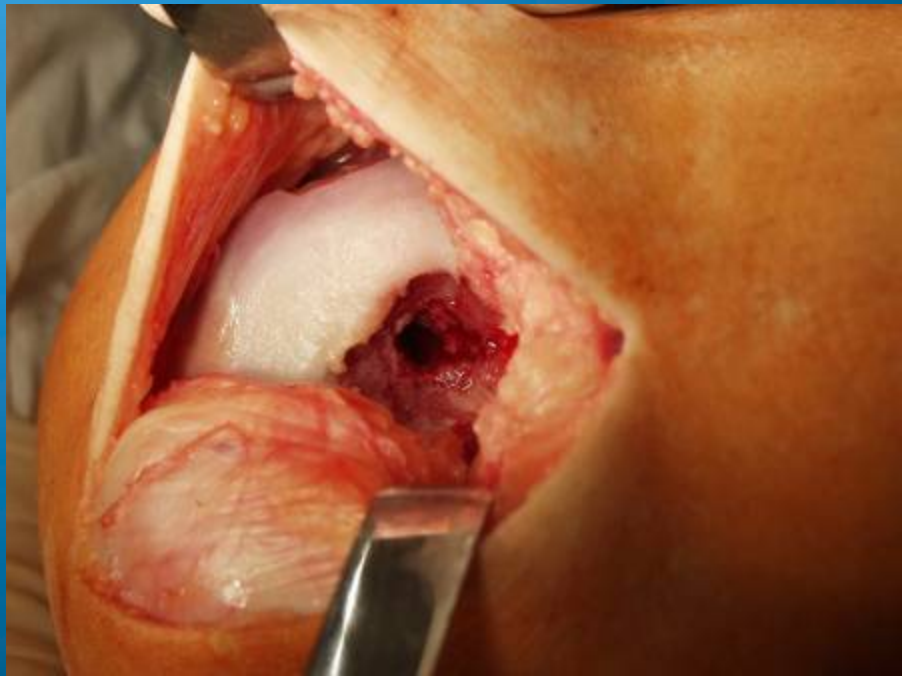
DISADVANTAGE

2 surgeries

price









ANKLE

- ARTHROSCOPY

- injury
- degenerative arthritis
- chondral defects
 - mosaicplasty
 - Chondrograft - chondrocytes transplantation

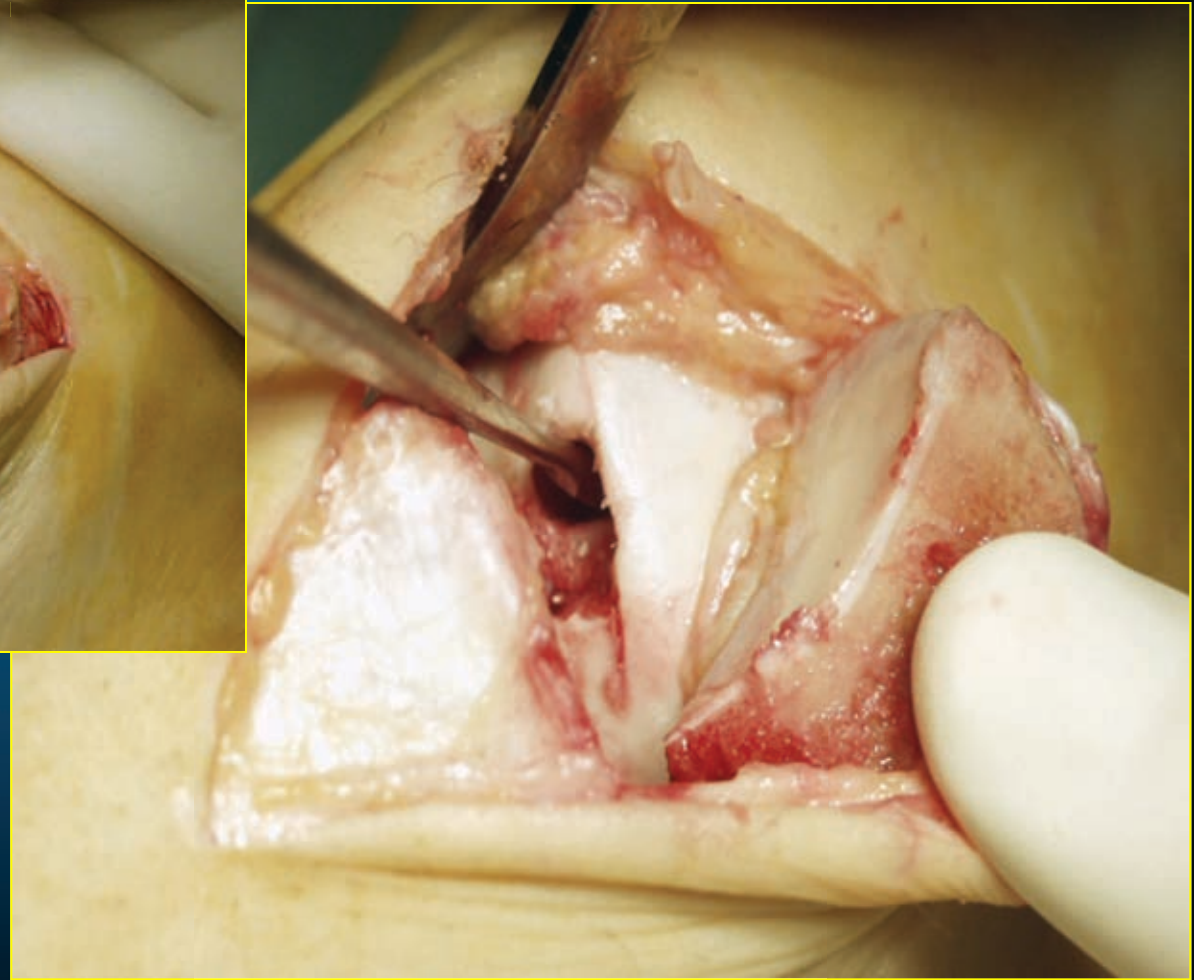




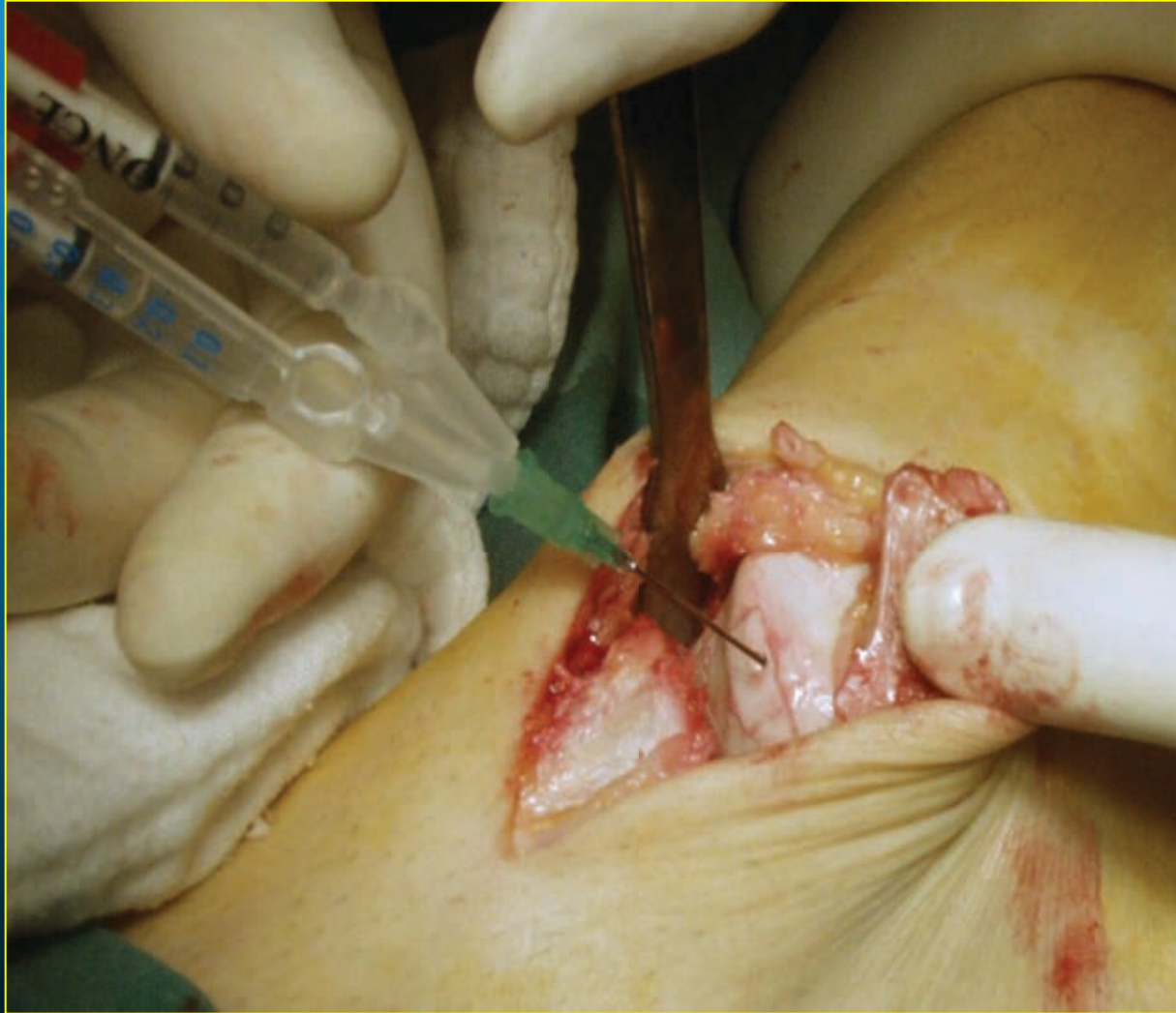
Surgery - defect filling with chondrograft



Surgery - defect filling with chondrograft



Surgery - defect filling with chondrograft



Surgery - defect filling with chondrograft



Surgery - defect filling with chondrograft

