Stiffness after fracture How I do an Arthroscopic arthrolysis Sebastien Parratte, X Flecher, JM Aubaniac, JN Argenson Sainte Marguerite Hospital, Marseille, France



DEFINITION « All knee with a felxion lower than 90° » Jean Judet • Flexion limitation (<90°)</td> • Extension Limitation (=flessum, ?) • Both in flexion and extension



Stiffness after fracture What was the story?

Infection ! Always Bad reduction or no reduction Rehab problem? If yes why, pain, fear ...



Arthroscopic Arthrolysis

- Jackson 1975
- Conti 1979: 4 failures / 22
- DeHaven 1982: 3/15
- Sprague 1984: 6/24
- Mean Gain 45-55°1,2,3,4



is. Clin. Orthop., 1982, 166, 165-17

I take the time with the patient

- => Provide a typical Orthopaedic information "It's going to be long and hard"
- Patient evaluation: motivation, working occupation
- Medical evaluation:
 - bone quality
 - unknown inflammatory disease
 - Infection
- Modesty +++

Why?

Intra-articular fibrosis :

- Supra-patellar pounch and quadricepsCondylar ramps
- **Global Capsular retraction**
 - Retinaculum (20°)
 - Fat pad
 - Post capsule
- Anterior stop effect: cut-off
 - Anterior osteochondral Fragment

Beaufils et al. EMC. Arthrolyse arthroscopique du genou





When ?

Around 3 months OK up to 6 months Sometimes more but....

Before starting: check-list

- Infection
- Patient information
- I'm not in Val d'Isere the day after the surgery
- Anesthesiologist and Cathether
- Arthroscopic tools
- Casting
- Manual rehabilitation scheduled

What I'm going to do?

Step by step

- 1. Exam under GA => What do we really have +
- pictures
- 2. Sub-quad and suprapatellar pounch
- 3. Lateral retinaculum section
- 4. Condylar ramps
- 5. Fat pad
- 6. Medial retinaculum
- 7. ACL if required
- Pictures Post=> +++ Psychologic effect





Standard Tool Box,

- Tourniquet
- Arthro pump
- Shaver
- Viper
- Mayo ciseaux





Patient set-up

- Tourniquet
- Knee postionner
- · Catheter ready



Portals and Approaches

results The shaded are

of isolated anterior interval release in a series of 25 consecutive patients with scarring of the anterior interval. Patients failed a minimum of 6 months of physical therapy and nonteroidal anti-inflammatory drugs. Following arthroscopic release, the



verage Lysholr nproved from 1 postoperativ nternational K Committee scor





Section of the lateral retinaculum a series of 25 con

with scarring of the Patients failed a months of physical steroidal anti-infla Following arthrosc

ov mber 2011, Vol 19

Mayo ciseux closed From infero lat to the superolateral

Section of the lateral retinaculum















Casting

- Casting in flexion and extension Change every six hours during at least 5 days Drains+++



Manual Physiotherapy

2 hours in fours session every day including the week-end

















Key points

Intra-articular problems and lack of flexion

- Infection
- 3 to 6 months
- Patient information
- Anesthesiologist and cathether: pain+++
- Arthroscopic time: 7 steps
- Cast and drain
- Manual rehabilitation

