Hot topic: place of arthroscopy in TKA and Uni

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Arthrocopy

• Few indications (<1%)
  • TKA
  • Uni
  • Patella
Unexplained painful knee!

- Second side very happy
- 75 years hold
- Pain +++
Second example

- Posterior lose body
Magic for unexplained knee pain or not ...

- Only few indications
- Literature
Watch out: sepsis

• Knee Ponction at any doubt +++
  – > 25 000 leucocytes/mL with >75 % Poly nuclear.
  – False negative, biofilm

• Blood count: NFS, CRP
  – combinaison d’une CRP ≤ 10 mg/L and VS ≤ 30 mm/h it’s probably 94 %
Not to do if!

- Radiologic loosening
- Patella instability
- Impingement with too big implants
Littérature: few cases(15)

• Lose body (cement - PE)
• Fibrosis, Pseudo meniscus
• Loosening
• PE wearing
• Synovialis hypertropy or pigmented SVN
• Metallose synovialis


Kim WY, Shafi M, Kim YY, Kim JY, Cho YK, Han CW.
Other papers

- Patella loosened
- Implant wrong side
- PCL residual, notch impingement
- Soft tissue
- Popliteus tendon dysfunction


The results

• Not so good
• Understand the pain?
  – Painfull fibrosis ...
  – Lose body
  – US tissue conflict
Best indications @ TKA

– Stiffness
– Patella Clunck (pain)
– Unexplained painfull TKA
  • Normal biology
  • US tissue +
The Steefness

- When do it @
  - Before 8 weeks Anesthesia mobilisation
  - Between 8 weeks and 6 months
  - Arthrolysis
    - Retinaculum release
    - Fibrosis exision

Rev Chir Orthop Reparatrice Appar Mot. 2003 Feb;89(1):27-34
[Management of stiffness after total knee arthroplasty: indication for different mobility management in 62 cases]. [Article in French

Arthroscopic release for knee joint stiffness after total knee arthroplasty]. [Article in French
Djian P, Christel P, Witvoet J.
The technique


• Femoral Notch Stenosis Caused by Soft Tissue Impingement in Semi or Open-Box Posterior-Stabilized Total Knee Arthroplasty. Peter M. Bonutti, MD. The Journal of Arthroplasty Vol. 25 No. 7 October 2010
The mirror effect
Be careful no stripe!

- Non nocere
Portal above the patella
2\textsuperscript{nd} time
Results

• Gain on pain
• Gain of mobility
• Speed recovery

• Low risk and revision is still possible

The Efficacy of Arthroscopy Following Total Knee Replacement.
David R. Diduch, M.D. Arthroscopy:

A Study of Effectiveness of Knee Arthroscopy After Knee Arthroplasty.
Hans-Michael Klinger, M.D. Arthroscopy:
Examples FT joint
Patella and Clunk Syndrome

• TKA postero stabilised (plateaux mobiles)
  – Behind the patellar tendon
  – Nodule
  – Lack of extension

Arthroscopic Treatment of Soft-Tissue Impingement Under the Patella After Total Knee Arthroplasty
Arthroscopic Treatment of Patellar Clunk and Synovial Hyperplasia After Total Knee Arthroplasty.
  Khaled A. Dajani, MD. The Journal of Arthroplasty Vol. 25 No. 1 January 2010
Patellar Clunk Syndrome in a Current High Flexion Total Knee Design.
Patellofemoral Crepitation and Clunk Following Modern, Fixed-Bearing Total Knee Arthroplasty.
@ study
Seniois, Malekpour

- 30 patients
- Arthroscopy at 30° flexion
- Without water
Trochlea shape
PF matching @ and X ray

• Good

• Poor
@ in Uni

- Lateral bucket handle
- pseudo-meniscus
- Flap cartilage
- Same TKA

Arthroscopie après prothèse unicompartmentale du genou.
S. Hannaouib, S. Lustiga, E. Servien, T. Aït Si Selmia, P. Neyreta,
Un exemple
Decision tree

- Painfull TKA
  - Infection ?
    - Loosening ?
      - Patella instability? To big implant ?
        - Stiffness, Clunk Syndrom, lose body, Cement
        - Normal Xray Normal biology, US + US?
          - Infection ?
            - OUI
            - NON
          - Arthroscopy
            - OUI
            - NON
            - j'en suis Sûr
            - NON
            - j'ai un doute

- No Arthroscopy