



Elbow Arthroplasty in a patient with Juvenile Idiopathic Arthritis

Case Report

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Presentation of Case

- 35 year-old female
- Diagnosis of a polyarticular Juvenile Idiopathic Arthritis (JIA) - 30 years of evolution
- Disease stadium - articular sequelae phase (vertebral column, hips, knees, shoulders, elbows and hands)
- The patient is referred to our centre because of intense pain and progressive stiffness of the left elbow - 5 years evolution

Presentation of Case

- Treatments:

Non surgically

- disease modifying anti-rheumatoid
- anti-inflammatory
- pain killer

Surgically

Surgical arthrolisis

6M

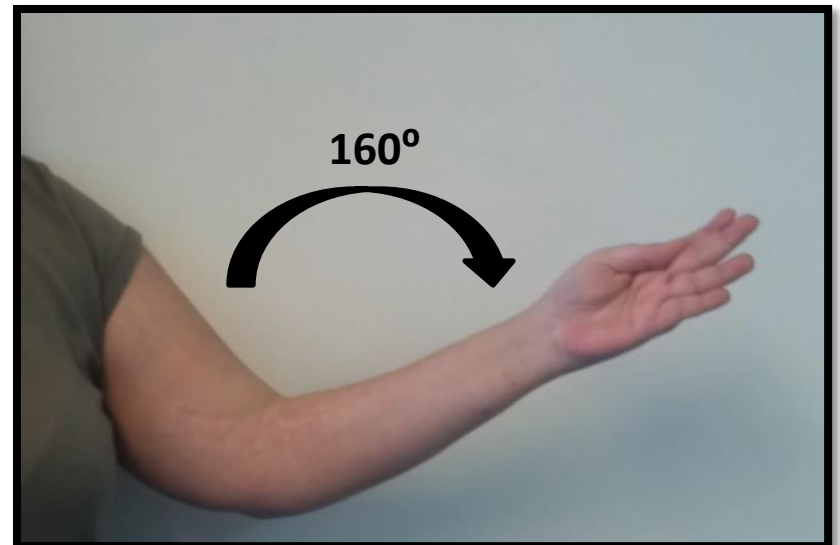
Surgically

Surgical arthrolisis

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Presentation of Case

- Disabling symptoms
- Severe pain
- Crepitus elbow
- Severe limitation of the daily activities
- The Mayo Score was 15



Problem to Face



Problem to Face



Problem to Face



- **Grade IV Larsen Classification**

- joint space narrowing
- osteophytes
- subchondral sclerosis

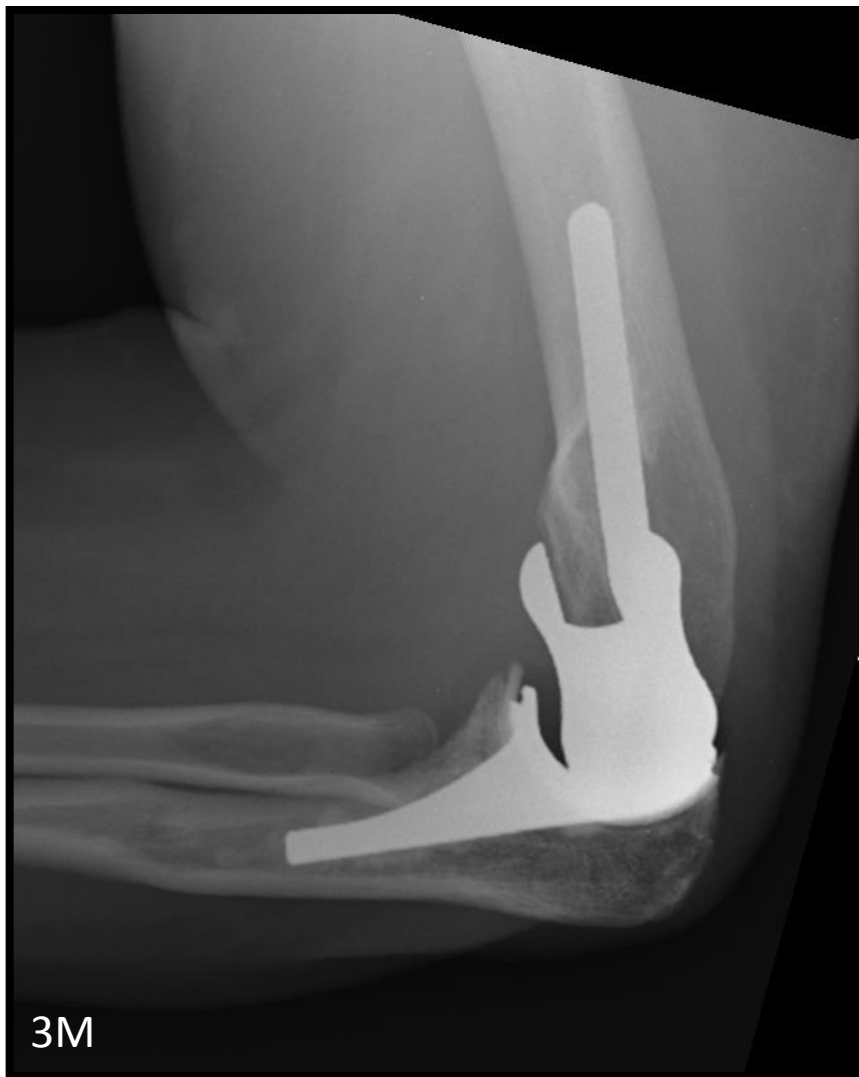
Solution

- Age of the patient
- Severe limitation (stiffness and pain)
- Prejudice on the life quality
- Wish of patient for surgical treatment
- **Total elbow arthroplasty** (2013-04-15)
 - extensive synovitis and adhesions
 - total elbow prosthesis with bone preservation (*IBP BIOMET*)
 - surgical procedure without complications

Solution



Solution



Solution

- 3W with 90° elbow flexion immobilization cast
- Rehabilitation program - increase the range of motion
- 1M after the joint replacement- flexion 120° and extension 15°
- No signs of joint instability
- The patient was very pleased with clinical outcome
- 3M the Mayo Score was 100

Solution



Solution



Solution



Conclusions

- JIA can result in extreme situations of incapacitating osteoarthritis, frequently of the elbow joint.
- This disease affecting a young active patient is an indication to total elbow arthroplasty.
- That generally results in pain relief and motion recovery.

References

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Thank you

