### **Clinical suspicion of SANJO**

- Painful joint and/or joint inflammation (red, hot, swelling)
- Joint effusion
- Sinus tract after surgery / trauma



# Diagnostic joint aspiration

Synovial fluid analyses in order of priority:

- Culture of Synovial fluid
- 2. White blood cell count (WBC)
- 3. Presence of crystals



#### Indicators of SANJO

- Purulent aspirate or drainage
- Synovial WBC >50.000 cells/μL¹
- Polymorphonuclear percentage (PMN%) >90 %<sup>1</sup>
- · Microbial growth in synovial fluid

## Antibiotic treatment<sup>2,3</sup>

#### Gram staining:

- Gram-positive (GP): cloxacillin or cefazolin
- Gram-negative (GN): ceftriaxone
- Negative stain: GP+GN coverage

## Surgery<sup>4</sup>

- Arthroscopic debridement is recommended for most cases
- Open debridement may be indicated in severe cases and, when needed in small ioints
- <sup>1</sup> SANJO can be present without an elevated white blood cell count (WBC) or percentage of neutrophils (PMN%). Gout, pseudogout and rheumatic diseases can also cause elevated WBC and PMN%.
- <sup>2</sup> Empirical antimicrobial therapy should be adapted to local epidemiology and individual risk factors for methicillin-resistant *S. aureus, P. aeruginosa* or other resistant pathogens. Target therapy is imperative once the cultures are available.
- <sup>3</sup> In case of sepsis or septic shock, antibiotic should be administered even before joint aspiration.
- <sup>4</sup> Surgical treatment may be postponed ≤24h, if: 1) the patient has no sepsis/septic shock, 2) the joint is drained and irrigated by re-aspiration of saline injection until clear fluid is obtained, 3) empirical antibiotic treatment has been started, and 4) an experienced surgeon can perform the procedure.