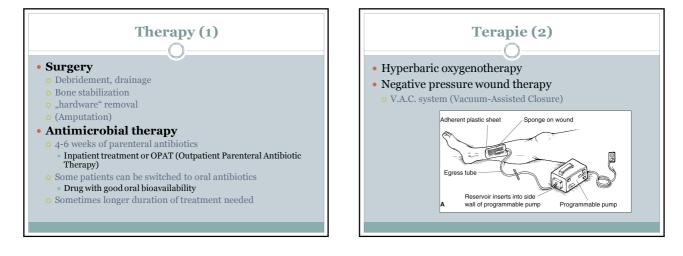
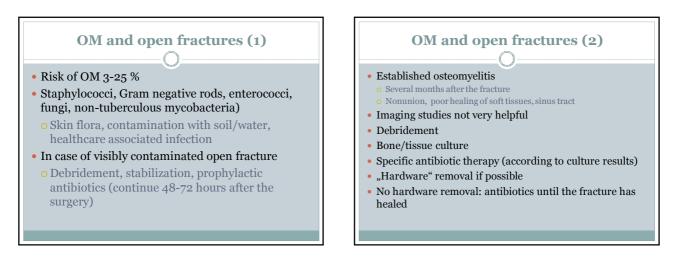


#### You created this PDF from an application that is not licensed to print to novaPDF printer (http://www.novapdf.com)





# OM in diabetes mellitus or PVD (1)

- Lower limbs, skin ulcer, continuous spread to bone
- · Neuropathy, micro- and macroangiopathy
- Patient with diabetes: lifetimerisk of a skin ulcer is 25%
- In patients with a skin ulcer the risk of OM is 25% • Complex care is essential
- Diabetes, dyslipidaemia, other cardiovascular risk factors, podiatry
- "Probe-to-bone" test
- Bone/deep tissue biopsy

## OM in diabetes mellitus or PVD (2)

- Surgical and medical treatment
- Debridement, revascularization, amputation
- Polymicrobial infection!!!
- Specific therapy according to culture results
- Empiric treatment in severely ill patients
- Must cover G+ , G- and anaerobes In certain patient think of MDR bacteria (MRSA, Gram negative
- Individual approach (risk factors, previous inpatient hospital stay, MRSA colonization,...)
- Duration of antibacterial treatment
- 1 week following amputation, 4-6 týdnů following debridement, months if debridement not possible

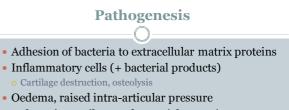
# Acute hematogenous OM

- Long bones
  - **Children**, IVDU, elderly, patients with intravascular catheters • (vertebrae in adults, vertebrál OM= spondylodiscitis)
- Metaphysis, Cierny- Mader st. I, tibia, femur
- Complicatiom: septic arthritis
- Newborns: GBS, E. coli
- Children: Staphylococcus aureus, Streptococcus pneumoniae
- IVDU, catheters: Candida, Pseudomonas aeruginosa
- Antimicrobial treatment usually sufficient
- Surgery rarely necessary

### Septic arthritis

- Acute purulent joint infection
- Medical emergency
- Hematogennous spread, inoculation, continuous spread
- Risk factors: any joint pathlogy, imunosupression, IVDU, recent joint surgery
- S. aureus (60 %), streptococci (cca 22 %), E. coli, PSAE, Salmonella, H. influenzae, Neisseria meningitidis, N. gonorrhoeae, Borrelia burgdorferi, Listeria

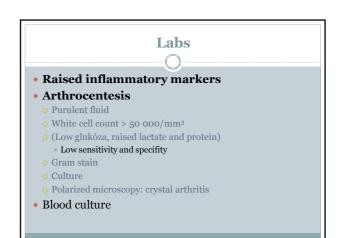
Aetiology in certain clinical settings	
Clinical setting	Bacteria
Rheumatoid arthritis	S. aureus
IVDU	S. aureus, PSAE
Diabetes mellitus,tumours	S. aureus, Str. agalactiae
Immunocompromised patients	S. aureus, streptococci, Gram negative rods, Listeria monocytogenes
Children	Gram negative rods, Kingella kingae
Animal bites	Pasteurella multocida, Capnocytophaga, anaerobes
Human bites	Eikenella corrodens, anaerobes, viridans streptococci
Travellers	Brucella, Burkholderia, Str. suis
Sexual transmitted disesases	Gonokok



- Ischaemia, cartilage and synovial necrosis
- Joint space narrowing
- Extra-articular spread (soft tissues, bone)
- Rarely sinus tract formation

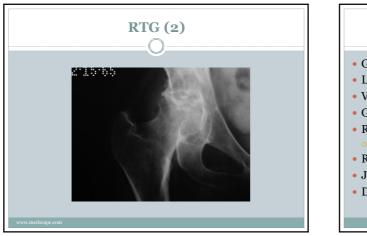
## Clinical presentation

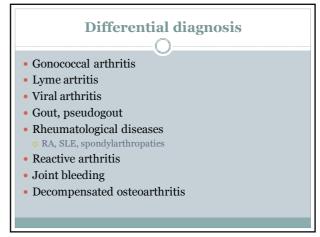
- Mono-articular involvement (80-90%)
- Rubor, dolor, calor, tumor, functio laesa
- Knee (50%)
- (hip, shoulder, wrist, ankle)
- Childre: hip
- Small hand joints: injury, bites
- Foot joints: diabetes, ...
- Sacro-clavicular joint: IVDU (PSAE)
- Polyarticular involvement: RA, immunosupression, S. aureus
- Systemic upset not infrequently (but sometimes absent)



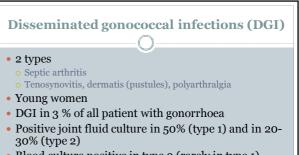












- Blood culture positive in type 2 (rarely in type 1)
- PCR: cervical swab, urethral swab, joint fluid, urine
- Ceftriaxon i.v. 1 week

