



Artrite infectioase

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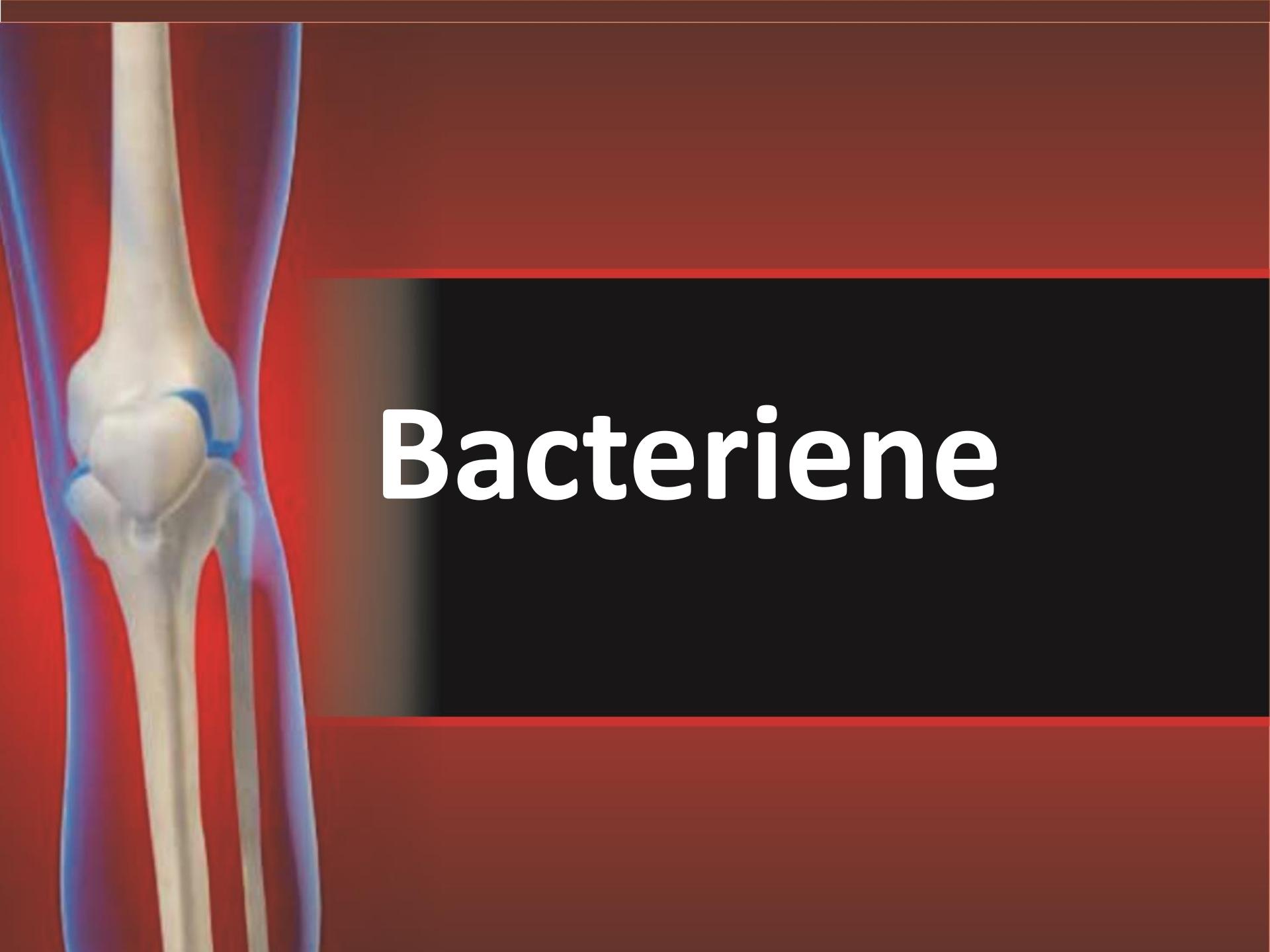
Tipuri

- Bacteriene
- Virale
- Fungice
- Spirochete



Causes of Infectious Arthritis

Organism	Clinical clues
<i>Staphylococcus aureus</i>	Healthy adults, skin breakdown, previously damaged joint (eg, rheumatoid arthritis), prosthetic joint
<i>Streptococcal species</i>	Healthy adults, splenic dysfunction
<i>Neisseria gonorrhoea</i>	Healthy adults (particularly young, sexually active), associated tenosynovitis, vesicular pustules, late complement deficiency, negative synovial fluid culture and gram stain
Aerobic gram negative bacteria	Immune compromised hosts, gastrointestinal infection
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Mycobacterial species	Immune compromised host, recent travel to or residence in an endemic area
Fungal species (sporotrichosis, cryptococcus, blastomycosis)	Immune compromised hosts
Spirochete (<i>Borellia burgdorferi</i>)	Exposure to ticks, antecedent rash, knee joint involvement
<i>Mycoplasma hominis</i>	Immune compromised hosts with prior gastrointestinal tract manipulation



Bacteriene



Factori de risc

- Afectare articulara precedenta (AR, proteza)
- Traumatism
- Diabet zaharat (imunosupresia)
- Bacteriemia



Patogenie

- Bacteriile intra usor in articulatie si se “depun” in sinoviala, pe cale :
 - Hematogena (bacteriemie) – 70%
 - Contiguitate (focar de vacinatate)
 - Iatrogen (artrocenteză/-scopie) – 20%
- Articulatiile se apara prost !
 - Poliarticulara (A! endocardita)



Clinic

- Monoartrita acuta !
- +/- Febra
- +/- Leucocitoza
- tablouri atipice frecvente !!!



**MONOARTRITA ACUTA ESTE
SEPTICA PINA LA PROBA
CONTRARIE !!!**





Monoartrita acuta

Diagnostic diferential

- Infectia
- Artrita microcristalina
- Hemartroza (la copil)
- Tumora
- Boala reumatologica sistematica



Poliartrita acuta

- Mai frecventa >60 ani
- În medie – 4 articulații
 - Genunchi, cot, umar, sold
- Foarte frecvent la pac cu AR
- Predomina Stafilococ si Streptococ
- Pronostic rezervat (30% vs 4% deces)



Lichid sinovial – elementul esential de diagnostic

- Celule: >50,000 leucocite/mmc
 - >75% PMN
- Glucoza: mult scazuta
- Cultura: pozitiva (rar in gonococica)

De folosit ac gros ! (puroiul poate fi viscos – spalatura)



Examen radiologic

- Minima utilitate diagnostica
- Evalueaza lezarea structurilor articulare
- Evalueaza prezenta osteomielitei



Coxita septica la debut



In evolutie



Tratament

- Aspiratia continutului articular
 - Zilnic sau mai des (“as needed”)
- Antibioterapie
 - Ideal – dupa antibiograma
 - Empiric :
 - staf, strept, gonococ
 - nosocomiala , proteza – Gram negativi
 - Durata variabila (microorganism si gazda)
- Interventie chirurgicala
 - DOAR daca nu raspunde in 48-72h



Artrita gonococica

- Produsa de Naiseria gonhoreae
- Cea mai frecventa cauza de mono-/oligoartrita la gazda imunocompetenta
- Apare la 1-3% din pacientii infectati cu gonococ



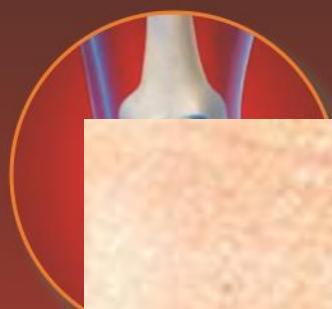
Artrita gonococica

- F/B = 3/1
- La barbati – bi-/homosexuali
- Factori de risc :
 - Imediat postmenstrual
 - Sarcina / imediat postpartum
 - Deficiente ale sistemului complement (C5-C9)
 - Serotipul 1a



Clinic

- Artrita purulenta
 - Genunchi, pumn, glezna
 - Culturi sinoviale – pozitive (de obicei)
- Poliartralgie, tenosinovita, rash
 - Pumni, degete, glezna
 - Pustule/vezicule nedureroase
 - Febra, stare generala alterata
 - Culturi lichid sinovial – negative (deci, culturi din orice)
- Combinatia





Altele

- ITU joasa concomitenta – 1/4 -1/3 cazuri
- De cautat si HIV, Chlamidia, Treponema
- De testat si partenerul



Tratament

- Ceftriaxona 250mg im + Azitromicina 1g po
 - Ambele, doza unica
-
- Gentamicina 240mg im + Azitromicina 2g po



Tuberculoza articulara

- Axiala (spondilodiscita)
 - “abces rece”
 - Rgf – imagine fuziformă paravertebrală
 - Poate fuza la piele pe psoas
- Periferica
 - Artrita / artralgie “mild”
 - Lichid putin inflamator (glucoza, ADA, PCR)



Tuberculoza articulara

- Anamneza de contact cu bolnav
- IDR fara valoare la vaccinati (test Quantiferon)
- Biopsia sinoviala – cea mai utila (Z-N lichid – negativa)
- Tratament – tuberculostatic, in echipa

A 3D rendering of a human knee joint, showing the femur, tibia, and patella bones in white and blue. The knee is slightly bent. The background is a solid red.

Virale



Parvovirus B19

- La 2 sapt de la infectia transmisa respirator
- Tipic: poliartrita simetrica, acuta, MCF, PIF
- La copii: oligoartralgie, asimetrica, genunchi
- Prevalenta mare de FR, ANA, ANCA, anti ADN
- Anti IgM, PCR
- Vindecare intr-o luna fara sechele / AINS



HIV - specific

- „Painful articular syndrome”:
 - Autolimitata, <24 ore
 - Durere articulara si osoasa, asimetrica, mb inf
 - Rareori evolutie spre artrita
 - Patogenie – necunoscuta
 - Tratament – simptomatic



HIV - specific

- „HIV-associated arthritis”:
 - Artrita non-eroziva, <6 sapt
 - Prevalenta 0.4-13.8%
 - Aproape exclusiv la barbati
 - Uneori, eroziva si mai lunga
 - Lichid - aseptic
 - Rgf - normala



HIV - specific

- „Diffuse infiltrative lymphocytosis syndrome”:
- Infiltrare cu LT CD8+
- ↑ parotide, sicca, artralgie
- Extraglandulare: ficat (hepatita), rinichi (pneumonita interstitala), rinichi (acidoza tubulara renală), SNP (PNP periferică)
- Diferente cu Sjogren: >barbati, <FR, <anti-Ro, <anti-La, <artrita



Influenta infectiei HIV pe alte boli reumatice

- Artrita septica: rara; Staf, Strepto, oportunisti, mycobacterii atipice
- Artrita psoriazica: la fel de frecventa ca la non-HIV, dar mai severa, mai ales mb inf, in rest la fel ca PsA; mai ales PsO pustulos
- LES, AR: rare la netratati; la copii: boala renala severa; cu inceperea ART, nivel Ac scade
- Immune reconstitution inflammatory syndromes: restaurarea imunitatii → boli autoimune (noi/acutizari): sarcoidoza, AR, Still



- Rubeola:
 - 30% la femei, 6% la barbati
 - O sapt inainte de rash/la 2 sapt dupa vaccinare
- EBV:
 - artralgii, rar artrita,
 - artic mari, autolimitata



VHA, VHB, VHC

- Infectia VHA (15%): artralgii
- Infectia acuta VHB (25%):
 - La debut, mai ales la copil: artralgie, simetrica, aditiva, migratorie, cu rash; trec cu icterul
- Infectia cronica VHB:
 - PAN, crioglobulinemie
- Infectia cronica VHC (20%):
 - “AR-like”
 - Crio ++

A 3D rendering of a human knee joint, showing the femur, tibia, and patella bones in white and blue. The background is a solid red color.

Spirochete



Boala Lyme

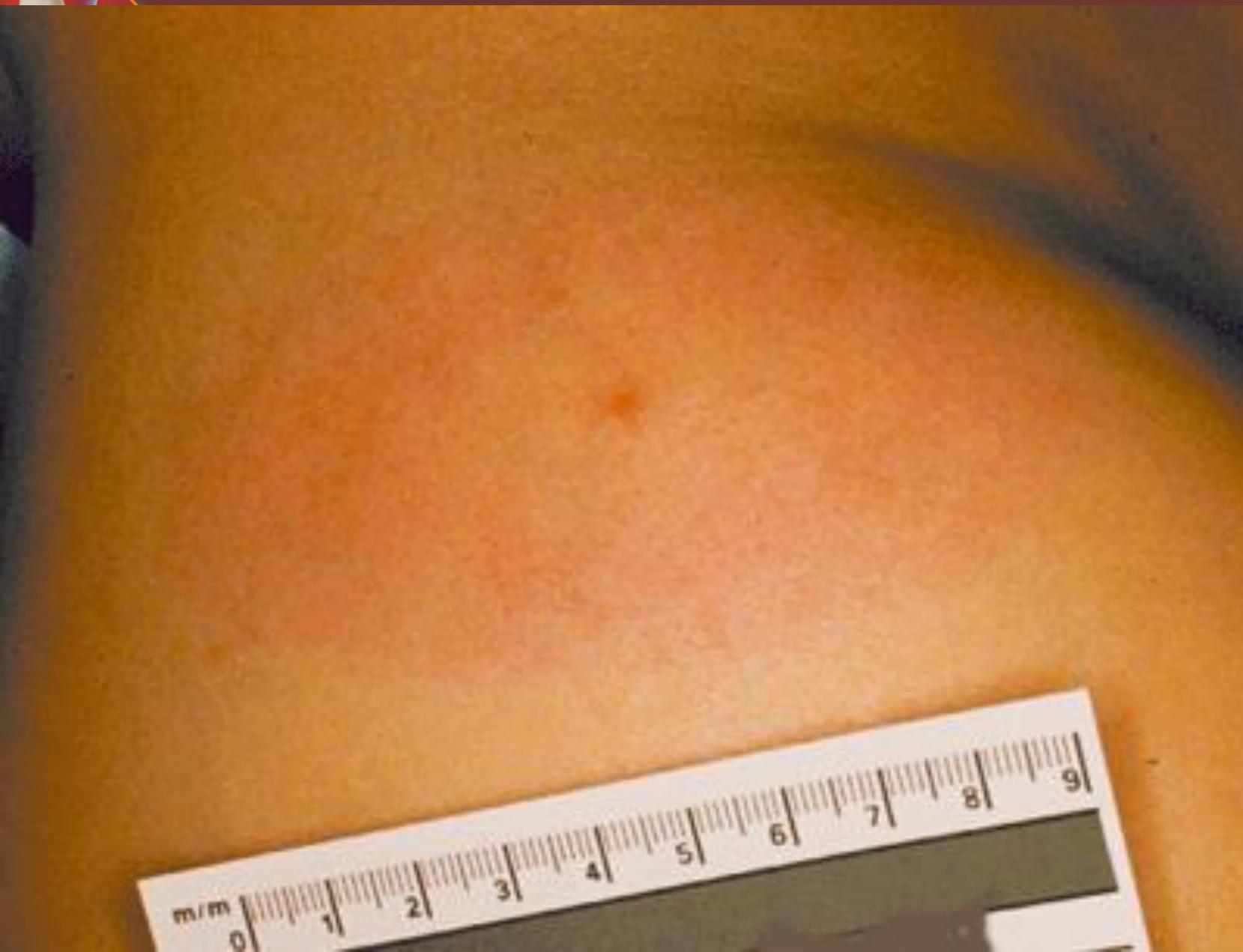
- Produsa de Borrelia Burgdorferi
- Transmisa de Ixodes
- Incubatie 3-30 zile
- Initial
 - Localizata – “Erythema chronicum migrans”, febra, pseudo-gripala
 - Generalizata – leziuni cutanate, manif. neurologice (VII, radiculopatie, meningita), manif. cardiace (BAV)
- Tardiv
 - Mono/oligoartrita asimetrica intermitenta migratorie
 - 10% artrita cronica articulatii mari



Boala Lyme

- Diagnostic
 - Leziunile cutante
 - Screening – testare ELISA
 - Confirmare – testare Western Blot
 - IgM Western Blot – multe fals pozitive
 - Util in primele 4 sapt
 - IgG Western Blot – specificitate inalta
 - Util in stadii tardive







Boala Lyme

- Tratament
 - Etapa initială
 - Doxiciclina 200 mg/zi 30 zile
 - Etapa tardivă
 - Antibiotic oral/iv (după severitate)
 - Afectare neuro/cardiaca – ceftriaxona 2 g/zi 4 săptamini.
 - Afectarea articulară – antibiotic oral 4 săptamini.



DECI

- Monoartrita acuta e septica pina la proba contrarie !
- Examinati lichidul !
- La imunocompromisi – etiologie neobisnuite !
- Orice colectie se dreneaza !
- Ortopedie daca evolutia e proasta !