

## INFLAMMATORY ARTHRITIDES

1. RA, JRA, SLE, and scleroderma
2. CTS, Sjogren's syndrome, Raynaud's, Pleuropulmonary
3. bilateral symmetrical :: arthropathy
4. Morning stiffness, improves with extended time motion, swelling, subcutaneous nodules, medical subluxation, inflammation
5. AS, PA, reactive arthritis, enteropathic arthritis
6. 4+ criteria & criteria 1-4 must have been present for 6+ weeks
7. RA + (70% of the time), anemia, elevated ESR & C-reactive proteins, HLA-BR4
8. Wrist, Knee, & Elbow
9. radial margins of 2 & 3rd metatarsal heads
10. 5th metatarsal head lateral side
11. medial side (both sides for 5th)
12. 80%
13. Odontoid erosion, trasverse ligament rupture, odontoid fracture
14. Basiliar invagination, Facet erosion/fusion, SP erosion (pencil shaped), disc narrowing, subluxation --> stair step deformity
15. Axial migration jt loss (superior/medial), erosion, small femoral heads, bilat protrusio acetabuli
16. RA
17. Subchondral & Baker's cysts, uniformal
18. Recess in the back of the knee that becomes filled w/ fluid
19. Hill-Sach's
20. Tapering of the distal clavicle (candy cane)
21. positive fat pad sign, pancompartmental, marginal
22. An inflammatory condition when less than 16 yrs old (JRA is only 10% of cases)
23. Still's Disease :: Systemic (no jt changes), Polyarticular (MC), Mono/Pauciarticular
24. Fever, rash, lymphadenopathy, iridocyclitis, receded hypoplastic mandible (beak-like)
25. Common Periostitis, little jt space loss, limited articular erosions, largened epiphyses w/ early closure of physis
26. epiphysis, interchondalar notch, inferior pole of patella, hemophilia of bones

## SERONEGATIVE SPONDYLOARTHROPATHY

27. spinal, rhizomelic (proximal) :: hyper
28. SI, thoracolumbar (both sides then bridges)
29. irregular chewed, wide :: FYI, in early stages asymmetrical may present
30. Ghost (fusion)
31. Marginal syndesmophytes (calcification of annular fibers, or longitudinal ligaments) :: Bamboo (Poker)
32. Shiny corder signs, Romanus lesions, squared bodies
33. Dagger sign :: trolley-track sign
34. fracture through an ankylosed segment
35. Resulting Pseudoarthrosis of a carrot-stick fracture
36. May have alatodental/axial instability
37. Irregular fluffy spurs at ligament attachment sites (like the heel & isch tub)
38. \*POSITIVE HLA-B27\*, elevated ESR, mild anemia, negative rheumatoid
39. AS with or caused by an inflammatory bowel disease
40. Salmonella, Shigella, & Yersinia



41. Ulcerative colitis
42. HLA-B27
43. demarcated non-elevated red lesions covered by dry silvery scaled lesions, bleed
44. extensor surface of forearm, knee, back, scalp, & pubis
45. dont have
46. degeneration
47. Hands & feet (alittle spine too)
48. DIP :: Mouse Ears (fluffy periostitis) or pencil-in-cup :: Yes
49. DIP, PIP, and Meta/phalangeal joint erosion w/ PA
50. Spindle or sausage digit
51. Non-marginal syndesphytes that are vertical and thick

## BONE TUMORS

52. loss of a pedicle
53. blind vertebra
54. Metz
55. multiple enchondromas, hemangiomas, phleboliths
56. Children 3-14 :: late teens

## TUMOR-LIKE LESIONS

57. paget's, neurofibromatosis, fibrous dysplasias
58. 40, british
59. deformities, men, asymptomatic or mild bone pain w/ bowing & fracture
60. alkaline phosphatase, serum calcium, and urinary hydroxyproline
61. Stage I (osteolytic), II (combined), III (osteosclerotic), IV (mal degeneration, osteo/chondrosarcoma)
62. Right :: Pelvis > Femur > Skull (but can be in ANY bone)
63. Osteoporosis circumscripta (stage I), cotton wool apperance (stage III) (ostesclerotic, cortical thickening but fractures easy), basilar invagination, plata basila (flat)
64. ivory vertebra + large size, Picture frame (cortical sclerosis)
65. Brim sign (thicken cortex), teardrop sign (loss of)
66. Pseudofractures (convex side), cotton wool apperance, bowing deformities, banana fracture (transverse fracture), blade of grass (stage I), shepard's crook (coxa vera)
67. Saber shin (bowing forward & laterally)
68. fibrous dysplasia
69. zone of radiolucency that merges in a triangular fashion, typically begins in the epiphysis of long bones
70. Osteoclast inhibitors or supportive braces
71. Increased pain, enlarging mass or osteolytic lesions, elevating alkaline phosphatase
72. Fibrous dysplasia, female, precocious puberty (disease is polyostotic & has skin pigmentation)
73. children, asymptomatic, bowing, coast of maine spots, & cherubism (jaw growth)
74. Radiolucent encapsulated in a *rind* of sclerosis, geographic with bone expan, ground glass appearance
75. Shepard's, expansile

## HEMATOLOGICAL AND VASCULAR

76. osteopenia & radiolucent metaphyseal bands
77. Ischemic necrosis, avascular necrosis, aseptic necrosis, bone infarct
78. arterial rupture (trauma), arterial blockage (thrombus), MC arterial compression (myeloproliferation)



79. PLASTIC RAGS (Pancreatitis/Pregnancy, Lupus, Alcoholism, Trauma, Idiopathic/Infection, Caisson, RA, Amyliodosis, Gaucher's, Sickle Cell)
80. W/ or w/out pain, worsens w/ articular collapse, muscle atrophy
81. Avascular, revascularization, repair/remodel, deformity
82. increase joint space/effusion/swelling
83. subchondral cysts, sclerosis, subchondral fracture, collapse, fragmentation
84. revascularization stage sclerosis
85. subchondral fracture (seen in revascular)
86. Crescent sign
87. serpiginous apperance of bone sclerosis
88. Osteochondroses
89. Know the osteochondroses table.
90. femoral capital epiphysis (coxa plana), painful limp, reduced mobility, + trendelenburg
91. no
92. Swelling, wide medial jt, flattening head, epi fragments, crescent sign
93. Mushroom deformity, cysts, fat short femoral neck, coxa magna, enlarged greater trochanter, sagging rope sign, DJD
94. cortical inferior edge of the femoral head 'drooping'
95. AVN of 2nd/3rd metatarsal head (common to female teenagers w/ heel wearing)
96. Post tramatic deformity of tibial head
97. AVN of the lunate :: older individuals often w/ a negative ulnar variance, manual workers
98. Posttraumatic endplate deformity common to the midthoracic resulting to acute kyphosis (+40)
99. Is w/out other clinical symptoms
100. 3 continous effected segments w/ 5 degrees of wedging, usually schmorl's nodes & lost disc height
101. Post Traumatic Deformity/fracture of inferior pole of the patella (Teenagers)
102. Endplates
103. AVN of vertebral body w/ vacumn sign in the body, possible collapse
104. Normal ischiopubic syndchondosis (will restore post growth)
105. Slanting Developmental variation w/ AVN, effect medial epiphysis, leads to genu varus
106. AVN of femoral head in adults and is idiopathic
107. AVN of Talar Dome or sever osteochondritis dissicans of Talar Dome
108. Idiopathic AVN of humeral head
109. Developmental variation of navicular bone
110. AVN of scaphoid proximal pole due to midwaist fracture
111. AVN of Capitulum
112. Post tramatic Traction apositis of calcaneous, appears sclerotic
113. Poorly correlated
114. abdominal aorta
115. 3 cm
116. + 5.5 cm
117. Ultrasound
118. back pain, testicular pain, or assymptomatic
119. normal
120. 1% :: 3-6% loss
121. radiographs :: Densitometry
122. 70's-80's
123. T/L, Hip, distal radius, proximal humerus



124. Osteopenia, cortical thinning, Altered trabecular pattern, pseudo hemangioma, Increase ward's triangle, fish vertebrae, schmorl's nodes, & deformities

## METABOLIC ENDOCRINE NUTRITION

125. bone density compared to young adults of same gender thus gives risk for fracture  
126. bone density compared to other people or same age/size/gender  
127. -2.5 or less  
128. Disuse osteoporosis (immobilization)  
129. generalized osteo, band-like meta/epiphyseal radiolucency (leukemia like), or spotted radiolucency (permativ pattern)  
130. Reflex sympathetic dystrophy syndrome, post-traumatic osteoporosis, sudeck's atrophy, Causalgia, shoulder-hand syndrome  
131. sympathetic activity (trauma usual) overdrive (may cause suicide) :: remove part of sympathetic chain  
132. Edema, pain, antalgia, limp  
133. Men or possibly pregnant females in the left hip  
134. light bulb apperance  
135. quality (mineral content)  
136. LOSS bone density / *cortical definition*, coarsened trabecular pattern, pseudofractures, deformities  
137. Pseudofractures  
138. Dilantin (anti-seizure)  
139. widened and failure to ossify or paint brush appearance (spots of ossification), cupping & fraying of metaphysis  
140. Looser's Line  
141. Rachitic rosary  
142. Petechiae, bleeding gums, joint swelling, irritability :: yes  
143. Zone of provisional calcification at metaphysis  
144. circular sclerotic line around epiphysis :: spurs at sides of metaphysis  
145. thing band of radiolucency above metaphysis  
146. parathyroid adenoma  
147. Subperiosteal (leaves a spiculated appearance) & phalangeal  
148. osteopenia, fractures, soft tissue & vascular calcification, osteoclastomas (brown tumor)  
149. Secondary  
150. Primary  
151. Distal tuft  
152. Radiolucency, if large it has a soap-bubble apperance  
153. Salt and pepper skull, tiny radiolucencies throughout the skull  
154. hyperthyroidism, osteomalacia/rickets  
155. Rugby (Rugger) Jersey spine, sandwich vertebrae appearance but radioopaque bands go alll the way across  
156. pitutary adenoma  
157. malocclusion, prominent forehead, macroglossia, large hands, headaches, latern jaw, CTS, and DJD  
158. < 25 mm, <23 mm  
159. Spade deformities  
160. very large (late degererates)  
161. Buffalo hump, moon face, hirsutism, hypertension, osteoporosis, fractures, osteonecrosis

