

ORTHOPEDICS & RADIOLOGY

1. A 25-year-old person jumped from the first floor to avoid police and was brought to hospital as he could not stand. X ray of foot is shown. Which of the following is correct about this fracture?

- a. March fracture
- b. Jones fracture
- c. Lover's fracture
- d. Pott's fracture



2. Which of the following is correct about Trendelenburg gait?

- a. Patient lurches to affected side
- b. Pelvis drop on affected side
- c. Damage to inferior gluteal nerve
- d. Gluteus maximus weakness

3. Which of the following is not correct about avascular necrosis sites?

- a. Neck of femur
- b. Proximal scaphoid
- c. Body of talus
- d. Lunate

4. Finger drop sign is seen due to injury to which of the following?

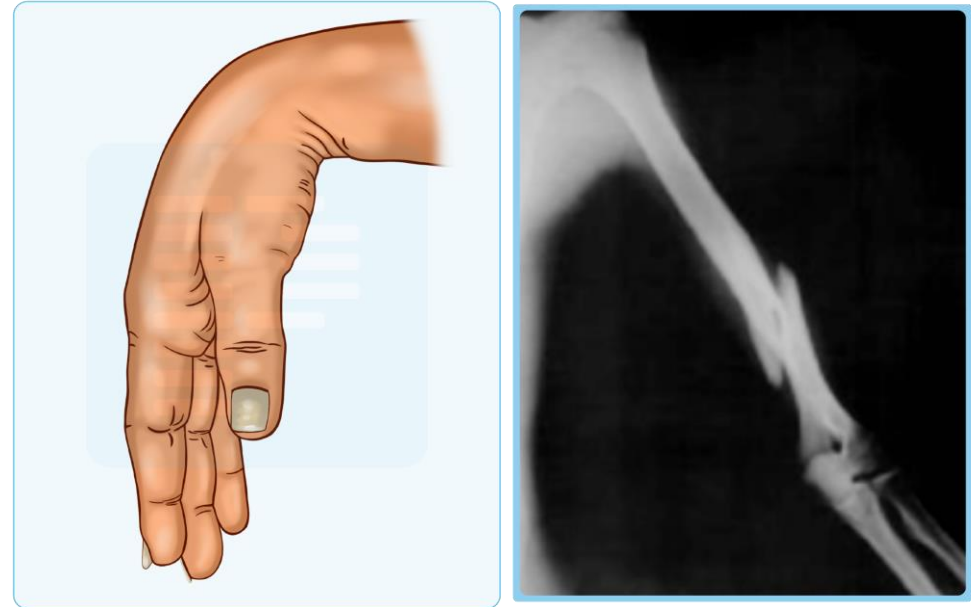
- a. Radial tunnel syndrome
- b. Low ulnar nerve palsy
- c. High ulnar nerve palsy
- d. Carpal tunnel syndrome

5. Most common nerve of upper limb injured during surgery is:

- a. High ulnar nerve
- b. Radial nerve
- c. Median nerve
- d. Low ulnar nerve

6. Patient falls from recklessly driven e-rickshaw presents as show below. All are correct about this condition except?

- a. Severe weakness of triceps
- b. Severe weakness of extensor digitorum
- c. Sensation loss in radial side of hand
- d. Severe weakness of extensor carpi radialis longus and brevis



7. Comment on the X rays shown below:

- a. Birmingham hip replacement
- b. Total hip replacement
- c. Austin Moore prosthesis
- d. Dynamic hip screw



8. A 32-year-old IT professional complains of tingling and burning over the dorsolateral aspect of his right thumb for 2 weeks. He recently started wearing a tight smartwatch during work hours to monitor his health parameters. Examination shows sensory loss over the base of the thumb with tinel sign on tapping proximal to radial styloid process. What is the most likely diagnosis?

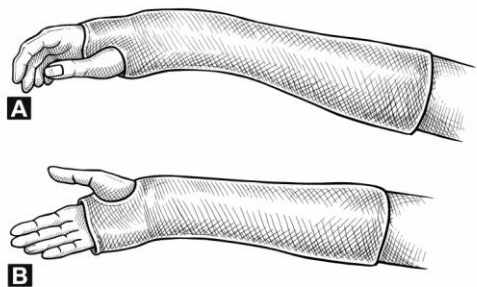
- a. Carpal tunnel syndrome
- b. De Quervain tenosynovitis
- c. Cheiralgia paresthetica
- d. AVN of scaphoid

9. A 45-year-old man smoker presents with burning pain and tingling sensation in the sole of his right foot for the past two months. The symptoms worsen after prolonged standing. On examination, there is tenderness behind the medial malleolus. Dorsalis pedis is palpable and no trophic changes are noted. Which of the following is the most likely diagnosis?

- a. Plantar fasciitis
- b. Thromboangiitis obliterans
- c. Tarsal tunnel syndrome
- d. L5–S1 radiculopathy

10. The 35-year-old man falls on his outstretched hand with the forearm in hyper-pronation. X-ray is shown below. What is the best treatment for this condition?

- a. Closed reduction and above-elbow cast
- b. Open reduction and internal fixation of with plate and screws
- c. Glass holding cast
- d. Aeroplane splint



11. Which of the following is correct about the deformity shown below;

- a. Gun stock deformity
- b. Tardy ulnar nerve palsy
- c. Dinner fork deformity
- d. Garden shovel deformity



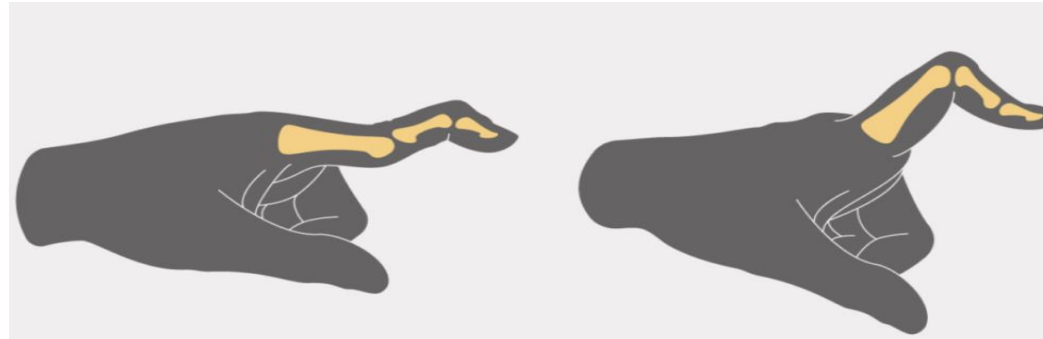
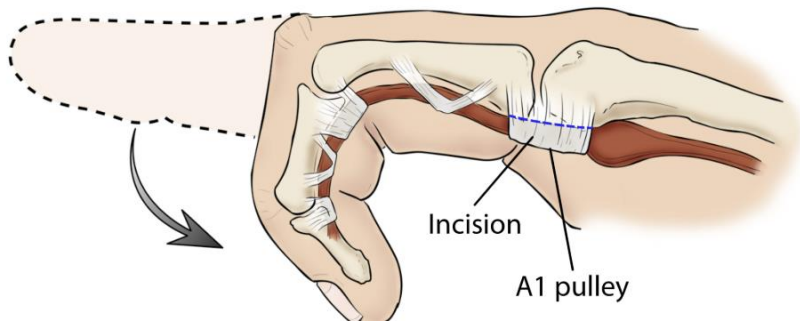
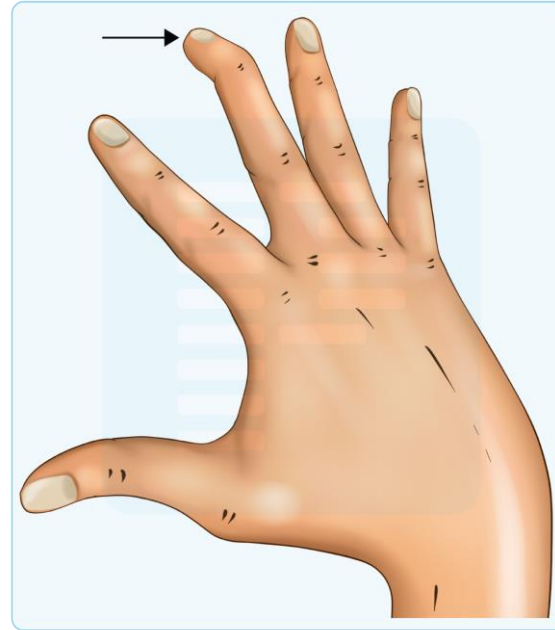
12. The following method is used for management of

- a. Fracture shaft of femur > 2 years
- b. Fracture shaft of femur < 2 years
- c. Fracture of neck of femur < 2 years
- d. Fracture of neck of femur > 2 years



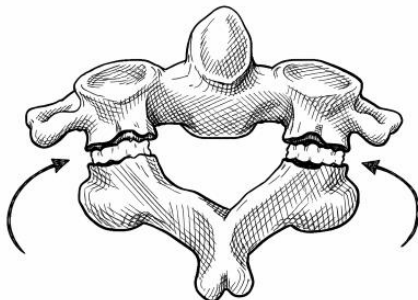
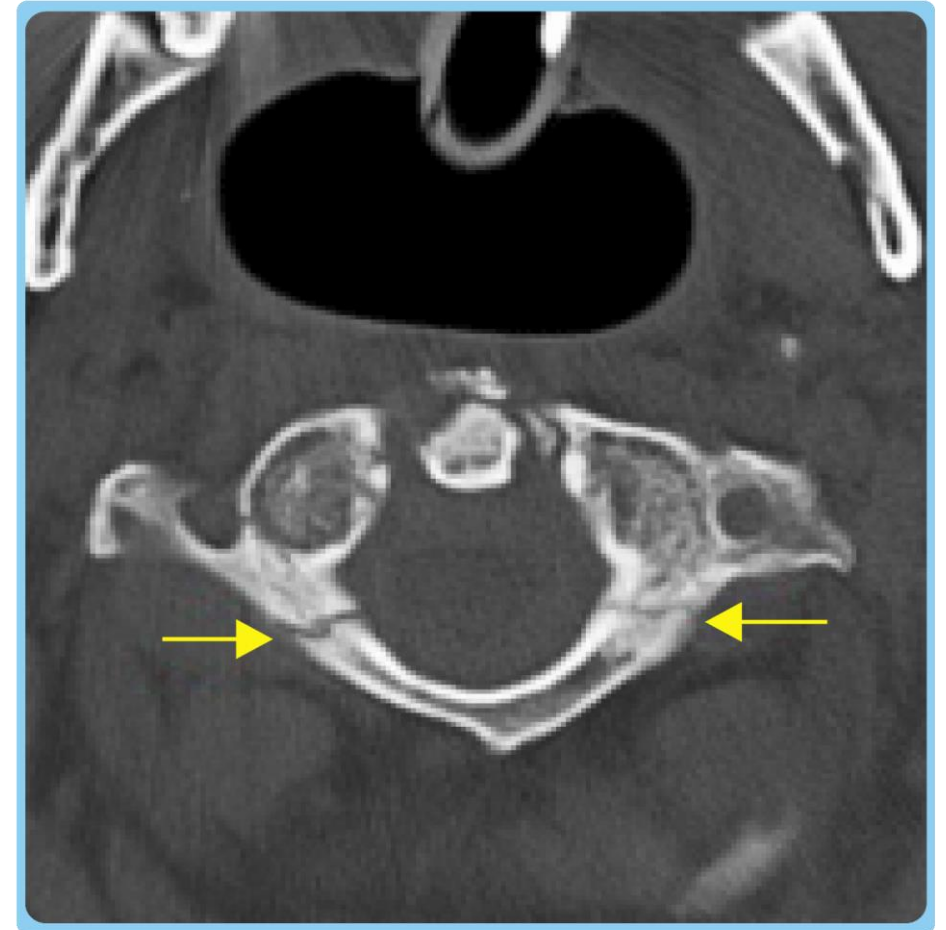
13. The 50-year-old woman presents with pain and swelling worse in the morning for the past 3 days and improves with NSAID. Examination reveals mild tenderness and swelling over the distal interphalangeal joint. She recalls that the pain started suddenly after trying to tuck in a bedsheets. Diagnosis is?

- a. Rheumatoid arthritis
- b. Osteoarthritis
- c. Mallet finger
- d. Trigger finger



14. A 32-year-old man was brought to the ER after diving head first into a shallow side of the swimming pool. He complains of severe neck pain and restricted movement. Neurological examination is normal. CT cervical spine is shown below. Diagnosis is?

- a. Hangman's fracture
- b. Jefferson fracture
- c. Clay shoveler's fracture
- d. Odontoid fracture type II



15. A 42-year-old manual labourer presented with sudden pain at the back of the neck while he was digging. He reports an audible “snap” followed by localized tenderness over the lower cervical spine. Neurological examination is normal. What is the most likely diagnosis?

- a. Jefferson fracture
- b. Hangman fracture
- c. Clay-shoveller's fracture
- d. Odontoid fracture



16. A 40-year-old postmenopausal woman slips and falls backward on her outstretched hand with her wrist in flexion. She presents with pain, swelling, and deformity over the distal forearm. What is the most likely diagnosis?

- a. Colles' fracture
- b. Barton's fracture
- c. Smith's fracture
- d. Chauffeur's fracture



17. Comment on the diagnosis?

- a. Colle fracture
- b. Smith fracture
- c. Monteggia fracture
- d. Galeazzi fracture



18. A 25-year-old electrician got an electric shock while working at a power station. In ER is hemodynamically stable but has a burn on his left hand and cannot move his left arm. X ray was done. Correct about this condition is?

- a. Light bulb sign
- b. Rim sign
- c. Bankart lesion
- d. Arm held in adduction and internal rotation

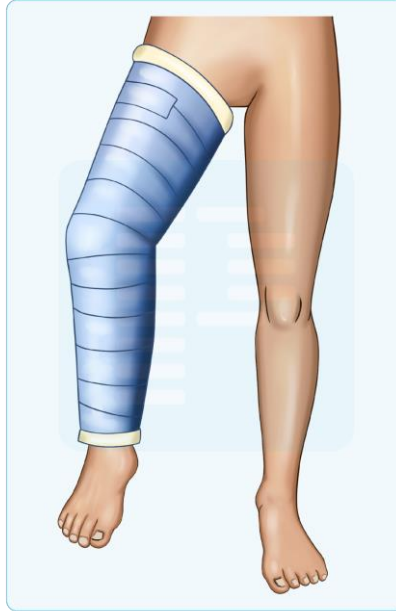


19. Correct about tennis leg:

- a. Painful tear at the musculotendinous junction of the medial head of gastrocnemius
- b. Inflammation of common extensor tendon arising from lateral epicondyle of humerus
- c. Inflammation of common extensor tendon arising from medial epicondyle of humerus
- d. Painful tear at the musculotendinous junction of the medial head of gastrocnemius

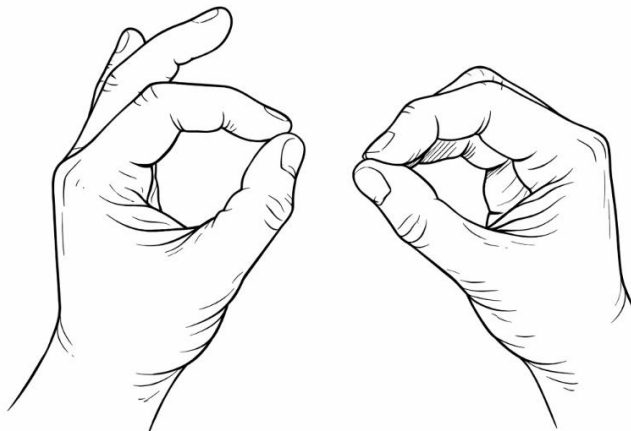
20. The following cast is used for:

- a. Congenital dislocation of hip
- b. Fracture of shaft of femur
- c. Fracture of patella
- d. Fracture of pelvis



21. The following sign is seen due to:

- a. Ulnar nerve injury
- b. Anterior interosseous nerve injury
- c. Posterior interosseous nerve injury
- d. Radial nerve palsy

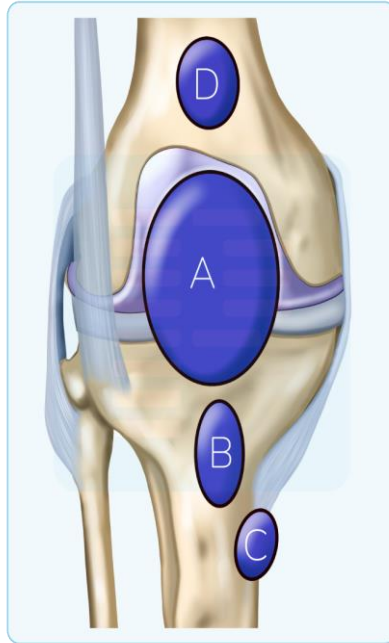


22. A young hostel student says that he gets pain in the wrist while wringing clothes or carrying water bottles from the water cooler. You perform an ulnar deviation of the wrist that causes him to wince with pain. Diagnosis is

- a. Stenosing tenosynovitis of fibrous digital sheath
- b. Stenosing tenosynovitis of abductor pollicis longus and extensor pollicis brevis
- c. Stenosing tenosynovitis of abductor pollicis longus and extensor carpi radialis
- d. Stenosing tenosynovitis of flexor pollicis longus

23. Which of the following bursae is involved in clergyman knee?

- a. A
- b. B
- c. C
- d. D



24. A 28-year-old male presents with an open fracture of the tibia following a road traffic accident. The wound measures 10 cm with extensive soft-tissue laceration and periosteal stripping, with exposed bone. There is no major vascular injury. According to Gustilo-Anderson classification, this injury is classified as?

- a. Type I
- b. Type II
- c. Type IIIA
- d. Type IIIB

25. All of the following conditions are associated with Carpal Tunnel Syndrome, except:

- a. Somatotroph adenoma
- b. Hypothyroidism
- c. Rheumatic fever
- d. Mucopolysaccharidosis

26. The child is doing skating and falls down on the right side. On examination he has pain, swelling and inability to move the elbow. 3 bony point relation is maintained. X ray shows fractures above epicondyles. Which of the following is an early complication of this condition?

- a. Gun stock deformity
- b. Myositis ossificans
- c. Volkman ischemia
- d. Volkman ischemic contracture

27. 3 bony point relation is reversed in which of the following conditions?

- a. Posterior elbow dislocation
- b. Intercondylar fracture
- c. Medial epicondyle fracture
- d. Supracondylar fracture

28. A 72-year-old woman slips in her bathroom and falls on her side. She is unable to stand or walk afterward. The affected leg is externally rotated and shortened. She has pre-existing arthritis. The greater trochanter is elevated. X-ray pelvis is shown. What is the most appropriate treatment for this patient?

- a. Open reduction and internal fixation with screws
- b. Hemiarthroplasty
- c. Total hip replacement
- d. Skeletal traction followed by delayed fixation



29. A 65-year-old patient sustained a pelvic fracture and fracture of the right neck of the femur after being run over by a car. Hemiarthroplasty was done for the fracture neck of the femur. Day 2 of the admission patient is having high grade fever. Vitals show Pulse 120/min, BP 90/60 mm Hg, nil urine output for the previous 12 hours and CXR shows bilateral infiltrates. Diagnosis is?

- a. ARDS
- b. Pulmonary thromboembolism
- c. Bone cement embolism
- d. Multi organ failure

30. A 24-year-old football player presents with pain and locking of the right knee after twisting his leg while turning suddenly. Examination shows joint line tenderness and a positive McMurray test producing a click on external rotation of the tibia. Which of the following structures is most likely injured?

- a. Anterior cruciate ligament
- b. Posterior cruciate ligament
- c. Medial meniscus
- d. Lateral meniscus



31. A 25-year-old man falls directly on his flexed knee while climbing stairs. He presents with anterior knee pain, swelling, and inability to actively extend the leg at the knee joint. Palpation reveals crepitus over the knee. Which of the following is the most likely diagnosis?

- a. Quadriceps tendon rupture
- b. Fracture of patella
- c. Avulsion fracture of tibial tuberosity
- d. Patellar dislocation

32. During an MMA fight the following kick was delivered to the leg of the player. This can lead to all of the following except?

- a. Medial meniscus tear
- b. Anterior cruciate ligament tear
- c. Medial collateral ligament tear
- d. Posterior cruciate ligament tear



33. A 65-year-old man presents with a low backache with pain radiating down the anterior part of leg. On DRE prostate is enlarged. PSA level is 2ng/ml. SLRT is 30 degrees bilaterally. MRI spine shows disc bulge at L3-4-5 levels impinging nerve roots and normal vertebral bodies. Diagnosis is?

- a. Intervertebral disc prolapse
- b. Carcinoma prostate
- c. Occult malignancy
- d. Central cord syndrome

34. Correct about management of spinal shock is?

- a. IV methylprednisolone
- b. IV dexamethasone
- c. IV hydrocortisone
- d. Raise foot end of bed plus IV fluid loading in phenylephrine

35. A 2-year-old child has difficulty walking. You note excessive lumbar lordosis with waddling gait. On examination the vascular sign of narath and telescropy is positive bilaterally. Best intervention is?

- a. Hip spica
- b. Pavlik harness
- c. Open reduction
- d. Corrective osteotomy

36. Which is correct about the Ponseti method of correction in CTEV?

- a. Equinus is last to be done in manipulation
- b. Cavus is last to be done in manipulation
- c. Adductus is first to be done in manipulation
- d. Varus is first to be done in manipulation

37. A 6-month-old child has completed serial corrective casting for congenital talipes equino-varus using the Ponseti method. The device shown in the image is applied next. What is the purpose of this device?

- a. To maintain correction and prevent recurrence of deformity
- b. To correct residual equinus deformity
- c. To assist in walking and weight bearing
- d. To stretch the Achilles tendon after tenotomy



38. A 7-year-old child presents with a painless limp and limb shortening. Examination shows a Trendelenburg gait and decreased abduction at the hip. X-ray pelvis reveals a neck–shaft angle of 90° with a defect in the inferomedial femoral neck (Fairbank's triangle). What is the most likely diagnosis?

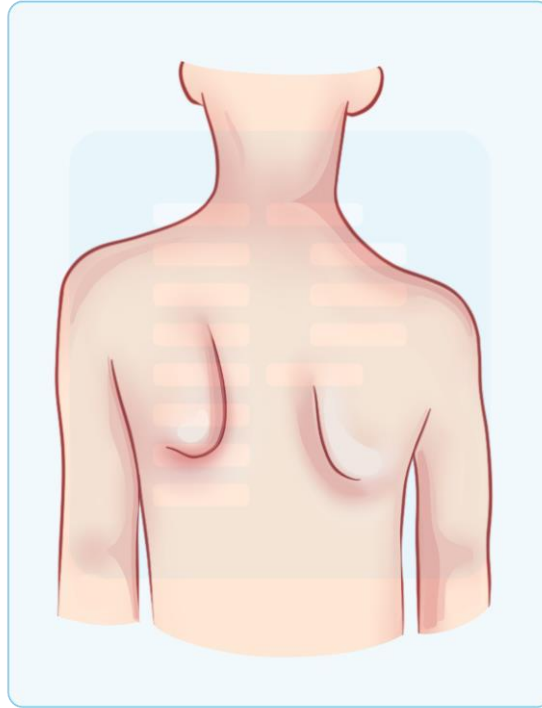
- a. Coxa vara
- b. Developmental dysplasia of hip
- c. Perthes disease
- d. Slipped capital femoral epiphysis

39. A 13-year-old obese boy presents with pain in the groin radiating to the knee and a limp for 3 weeks. On examination, the limb is shortened, lies externally rotated, and there is restriction of flexion, abduction, and internal rotation at the hip. When the hip is flexed, it automatically externally rotates. What is the most likely diagnosis?

- a. Perthes disease
- b. Slipped capital femoral epiphysis
- c. Developmental dysplasia of the hip
- d. Transient synovitis of the hip

40. Which of the following is the correct diagnosis?

- a. Sprengel shoulder
- b. Serratus anterior weakness
- c. Dropped shoulder
- d. Congenital torticollis



41. The 50-year-old man presents with firm, chalky nodules over the pinna and elbows. X-ray of the first metatarsophalangeal joint shows well-defined punched-out erosions with overhanging edges. Which of the following best describes the underlying pathology?

- a. MIP-1 alpha induced increased osteoclast activity in multiple myeloma
- b. Deposition of monosodium urate crystals in and around joints
- c. Osteoclastic resorption due to rheumatoid pannus formation
- d. MIP-1alpha induced increased osteoblast activity in multiple myeloma

42. Best imaging modality for acute osteomyelitis

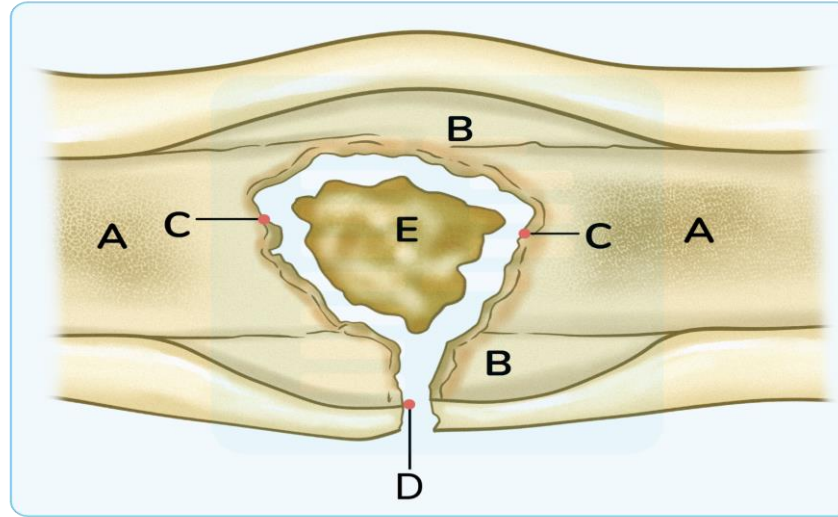
- a. CT
- b. MRI
- c. USG
- d. X Ray

43. MC site of osteomyelitis in IV drug user is:

- a. Lower part of femur
- b. Upper part of tibia
- c. Spine
- d. Small bones of hand

44. The marking E in the diagram indicates which of the following?

- a. Sequestrum
- b. Involucrum
- c. Cloacae
- d. Healthy bone



45. Patient present with foul smelling discharge from a wound in the upper part of shin. Comment on the diagnosis based on the X Ray evidence shown below?

- a. Sequestrum
- b. Involucrum
- c. Brodie abscess
- d. Garre osteomyelitis



46. Which is not correct about TB spine?

- a. Earliest evidence of spinal cord involvement is exaggerated DTR
- b. MC type is para-discal type
- c. Increased intervertebral joint space on X ray
- d. Gibbus is noted in DL spine

47. A 17-year-old boy presents with severe, dull, localized pain in the mid-thigh for 3 months. The pain is worse at night and dramatically relieved by aspirin. On X-ray, a small radiolucent nidus (<1.5 cm) is seen in the cortex of the femur, surrounded by dense sclerosis. What is the most likely diagnosis?

- a. Osteoblastoma
- b. Osteoid osteoma
- c. Ewing's sarcoma
- d. Brodie's abscess

48. In patients with stroke, prolonged immobilization will cause osteoporosis. Which of the following bones is first to be affected?

- a. Spine
- b. Humerus
- c. Tibia
- d. Femur

49. A 15-year-old boy complains of swelling and pain around his knee for 2 months. X-ray shows a mixed sclerotic-lytic lesion at the metaphysis of the distal femur with sunburst periosteal reaction and Codman's triangle. Serum alkaline phosphatase is elevated. What is the most likely diagnosis?

- a. Osteosarcoma
- b. Ewing's sarcoma
- c. Chondrosarcoma
- d. Fibrosarcoma

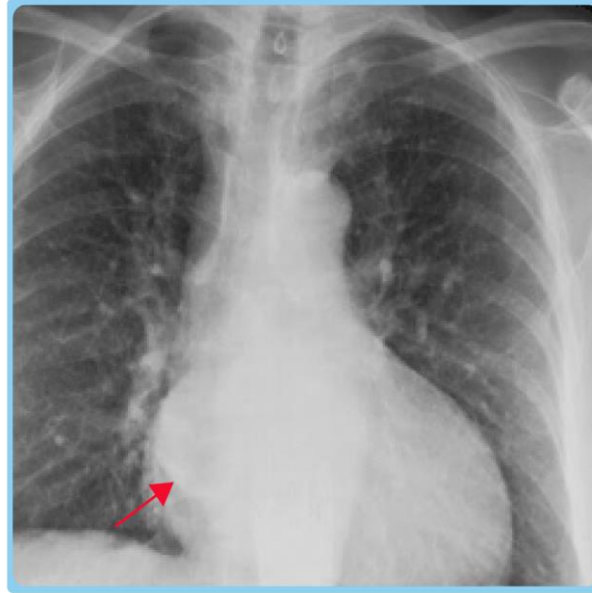
50. The following CXR appearance is not seen in:

- a. Invasive aspergilloma
- b. Choriocarcinoma
- c. Renal cell carcinoma
- d. Malignant melanoma



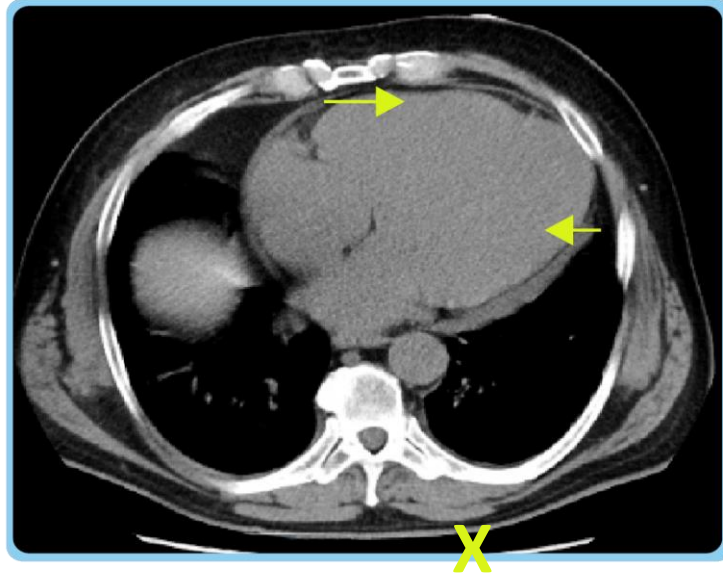
51. The following radiological appearance is seen in which of the following:

- a. Enlarged Left atria
- b. Enlarged right atria
- c. Enlarged left ventricle
- d. Enlarged right ventricle



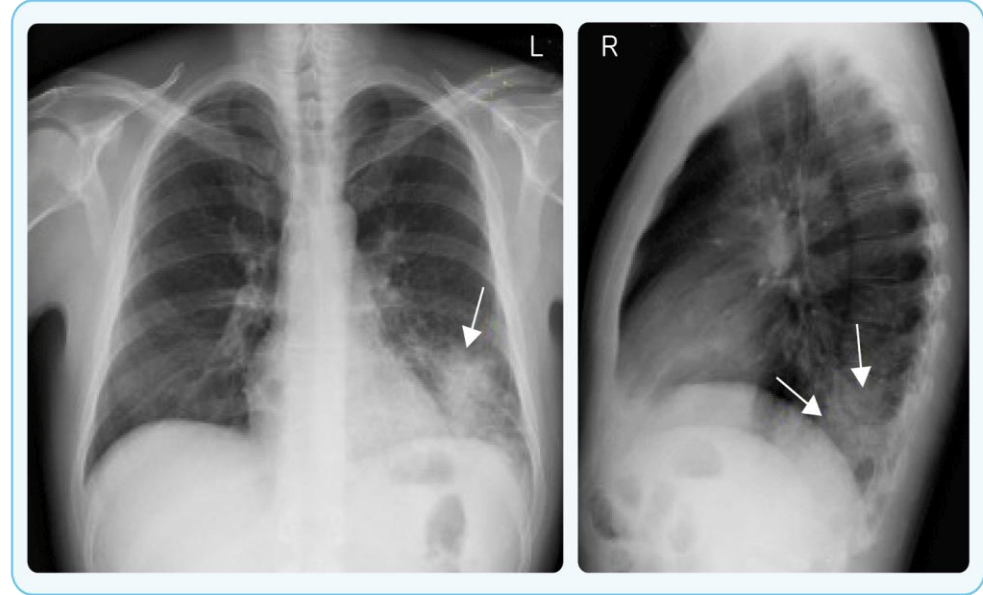
52. The area of heart marked as X is which of the following

- a. Left atrium
- b. Right atrium
- c. Left ventricle
- d. Right ventricle



53. Comment of the set of findings expected in this patient whose CXR is shown below. The patient was admitted due to low SaO₂. He is having high grade fever with rusty sputum for the past 3 days.

- a. Distant breath sounds with hyper resonance
- b. Vesicular breath sounds with dull note
- c. Bronchial breath sounds with dull note
- d. Rhonchi with hyper response



54. Bullet shaped vertebrae are seen in?

- a. Achondroplasia
- b. Sick cell anaemia
- c. Renal osteodystrophy
- d. Paget disease

55. Comment on the diagnosis?

- a. Spondylosis
- b. Spondylolisthesis
- c. Spondylitis
- d. Spondylolysis



56. A 40-year-old man presents with shortness of breath for the past 1 month. CXR is shown below. Diagnosis is?

- a. PAH
- b. Sarcoidosis
- c. Interstitial lung disease
- d. Spontaneous pneumothorax



57. A 25-year-old smoker woman presents with complaints of icy cold toes and wearing woollen socks in the summer season. Work up shows BP 160/100 mm Hg. CXR is shown below. Diagnosis is

- a. Takayasu arteritis
- b. Coarctation of aorta
- c. Thrombo-angitis obliterans
- d. Polyarteritis nodosa



58. The following CXR findings are seen in:

- a. Staph aureus pneumonia
- b. Filariasis
- c. Primary malignant lung cancer
- d. Pulmonary hamartoma



59. The 40-year-old man is admitted with high grade fever, rusty sputum and shortness of breath. CXR is shown below. Diagnosis is?

- a. Right middle zone pneumonia
- b. Right lower lobe pneumonia
- c. Right atelectasis
- d. Right hydrothorax



60. Which chamber enlargement will be seen in this case of 40 year old patient presenting with breathing difficulty and cardioembolic events:

- a. Left atrium
- b. Right atrium
- c. Left ventricle
- d. Right ventricle

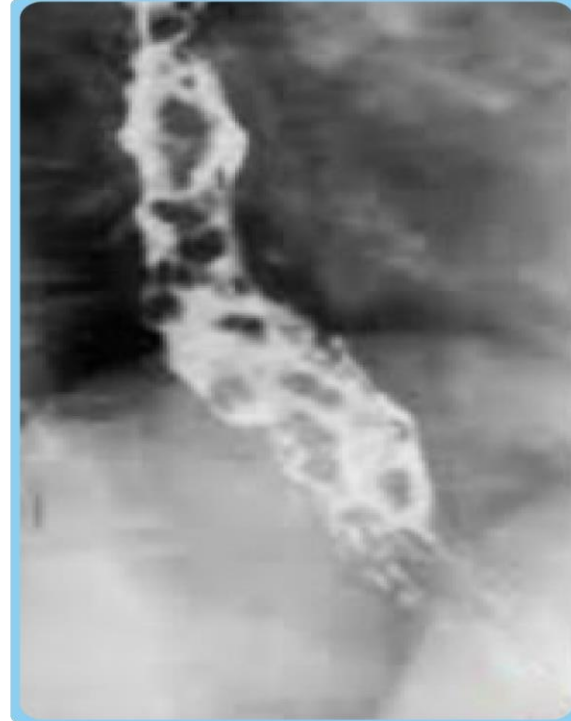


61. A 45-year-old alcoholic man presents to the ER with sudden-onset upper abdominal pain that began 3 hours ago. On examination, his abdomen is rigid with guarding and rebound tenderness. Bowel sounds are absent. Which of the following is the most sensitive investigation for confirming the diagnosis?

- a. Plain erect chest X-ray
- b. Ultrasound abdomen
- c. X ray lateral decubitus
- d. CT scan of the abdomen

62. Comment on the diagnosis of barium swallow shown below:

- a. Esophageal candida
- b. Esophageal varices
- c. Esophageal angina
- d. Esophageal perforation



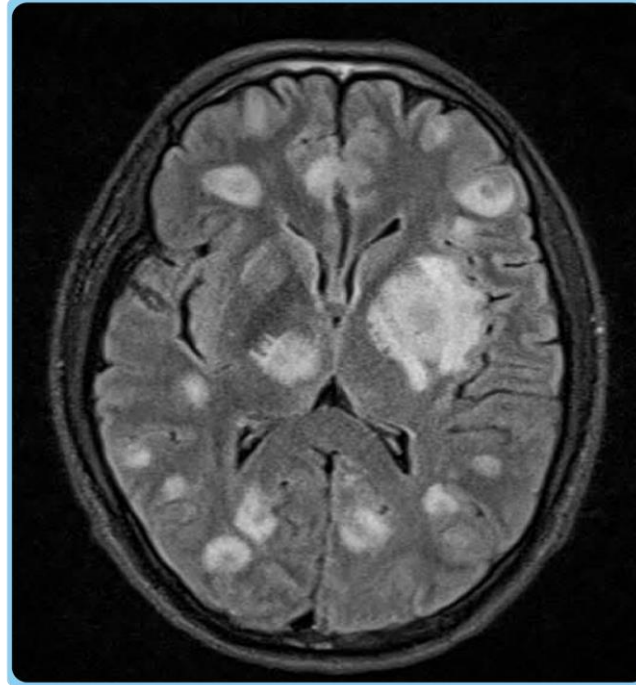
63. The following image shows:

- a. VCUG
- b. IVP
- c. Retrograde pyelography
- d. DJ stenting



64. 30-year-old rickshaw puller presents with multiple episodes of seizures. The NCCT head is shown below. He tested positive for HIV recently. Diagnosis is?

- a. NCC
- b. Toxoplasmosis
- c. Primary CNS lymphoma
- d. Tuberculoma



65. Comment on the diagnosis?

- a. Pneumothorax
- b. Pneumomediastinum
- c. Pneumoperitoneum
- d. Pneumocephalus



66. Comment on the diagnosis

- a. Duodenal atresia
- b. Jejunal atresia
- c. Ileal atresia
- d. CHPS



67. Comment on the diagnosis:

- a. Colorectal cancer
- b. Diverticulitis
- c. Ulcerative colitis
- d. Diverticular disease



68. Acute radiation syndrome presents as involvement of all body systems except?

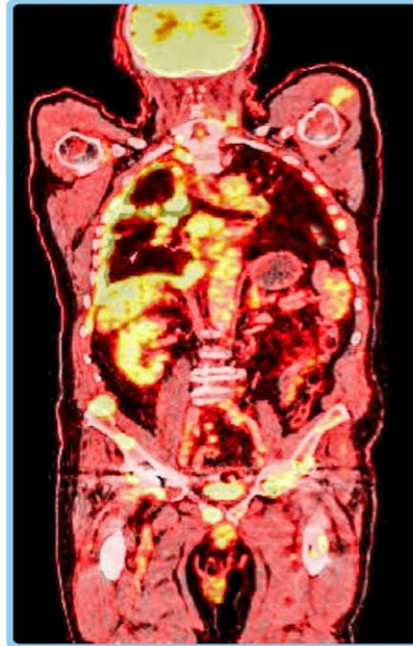
- a. GIT
- b. Hematopoietic
- c. CNS
- d. CVS

69. Which of the following is poorly radiosensitive?

- a. Seminoma
- b. Small cell lung cancer
- c. Ewing sarcoma
- d. Sarcoma

70. The following image shows which of the following:

- a. PET scan
- b. CT scan
- c. PET-CT scan
- d. DTPA scan



71. First investigation to be done for diagnosis of TIA:

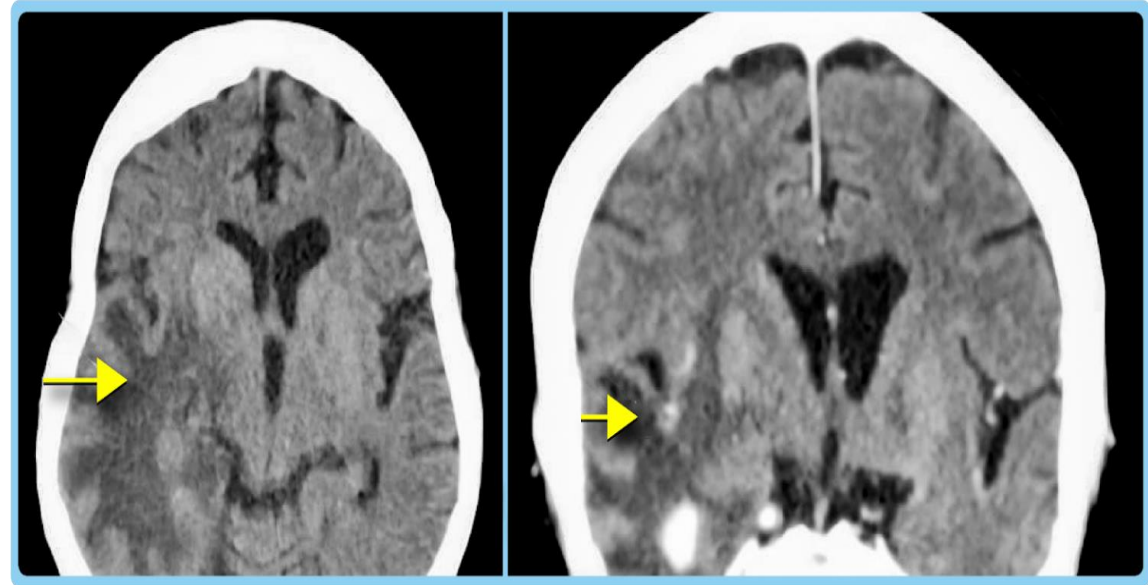
- a. Carotid doppler
- b. NCCT head
- c. DW-MRI
- d. SW-MRI

72. Best investigation for diagnosis of brain tumor?

- a. MRI
- b. Gadolinium enhanced MRI
- c. CT
- d. CECT

73. Which is correct about the NCCT head shown below:

- a. Cytotoxic cerebral edema
- b. Vasogenic cerebral edema
- c. Intracranial space occupying lesion
- d. Ring enhancing lesions



74. Imaging modality of choice for chemodectoma:

- a. Somatostatin scintigraphy
- b. Indium -111 octreotide scan
- c. Gallium 68- DOTATATE PET-CT
- d. 18-F- FDG

75. Tc99m labelled RBC is used for assessment of:

- a. Ejection fraction of heart
- b. Parathyroid adenoma
- c. Meckel diverticulum
- d. Parathyroid cancer

THANK YOU