- YR 2 CONNECTIVE TISSUE/DERMATOLOGY UNIT EXAM -- January 12, 1998. CHOOSE THE SINGLE BEST ANSWER FOR QUESTIONS 1 100.
- 1. A 70 year old man presents with back pain. Multiple osteosclerotic lesions involving several vertebral bodies are seen on spine radiographs. What is the most likely diagnosis?
 - A. Multiple myeloma
 - B. Malignant lymphoma
 - C. Metastatic pulmonary adenocarcinoma
 - D. Metastatic prostatic adenocarcinoma
 - E. Spinal osteomyelitis
- 2. Most common primary malignant bone tumor is:
 - A. Malignant fibrous histiocytoma
 - B. Osteosarcoma
 - C. Ewing's sarcoma
 - D. Metastatic carcinoma
 - E. Chondrosarcoma
- 3. Schwannoma and neurofibroma are examples of benign nerve sheath tumors. Which feature is more characteristic of neurofibroma?
 - A. Most common benign soft tissue neoplasm
 - B. Forms an eccentric mass with respect to the nerve of origin
 - C. Less potential for malignant transformation than schwannoma
 - D. 11:22 chromosomal translocation
 - E. More likely to be multifocal than schwannoma

- 4. A 35 year old woman presents with knee pain. Radiographs disclose an osteolytic bone tumor with sharp margins in the distal femur abutting the articular surface. What is the most likely diagnosis?
 - A. Osteosarcoma
 - B. Osteochondroma
 - C. Solitary bone cyst
 - D. Non-ossifying fibroma
 - E. Giant cell tumor
- 5. Collagen fibers are formed through a series of structural biochemical alterations. Which of the following statements is true about this process?
 - A. Cross-linking is mediated by a zinc-dependant metalloproteinase
 - B. Collagen fibrils are assemble in the extracellular environment
 - C. Triple helix formation is initiated by cleavage of N-and C-terminal propeptides
 - D. Alpha chains have a repetitive molecular structure of PRO-X-Y
 - E. Cross-linking occurs through a vitamin C-dependant reaction.
- 6. A 72 year old man complains of tightness in his palm and is unable to fully extend his 4th and 5th digits. What is the most likely diagnosis?
 - A. Dupuytren's contracture
 - B. Peyronie's disease
 - C. Musculoaponeurotic fibromatosis
 - D. Desmoid tumor
 - E. Ormond's disease

- 7. Choose the single best statement about Paget's disease of bone.
 - A. Bone resorption outpaces bone formation.
 - B. Pagetic bone is denser and sturdier than normal bone
 - C. Most patients are symptomatic
 - D. There is no known effective therapy
 - E. Classic clinical features are due to skeletal enlargement
- 8. All the following statements about osteoporosis are true EXCEPT:
 - A. It is defined by the presence of fragility fractures.
 - B. It results from abnormalities in remodeling.
 - C. Sites rich in cancellous bone are most affected.
 - D. Excess alcohol consumption is a risk factor for developing osteoporotic fragility fractures.
 - E. It is more common in women.
- 9. All the following statements about osteomalacia are true EXCEPT:
 - A. Bowing deformity of the lower extremities is a classic clinical feature.
 - B. Associated with fragility fractures
 - C. Renal failure is the most prevalent cause in this country.
 - D. Rare cases are caused by tumors which elaborate a phosphaturic substance.
 - E. The skeleton is undermineralized.

- 10. Choose the single best statement about normal bone and bone remodeling.
 - A. Bone resorption is a slower process than bone formation.
 - B. 80% of bone mass is contained in cortical bone.
 - C. Bone remodeling takes place predominantly on endosteal surfaces.
 - D. Bone formation outpaces bone resorption until late adulthood when progressive negative skeletal balance ensues.
 - E. Osteoblasts liberate factors which recruit osteoclasts to sites of remodeling.
- 11. The stratum lucidum is most apparent in epidermis of the:
 - A. Face
 - B. Scalp
 - C. Forearm
 - D. Sole
 - E. Back

12. Merkel Cell:

- A. Dopa positive
- B. Fibrillar proteins
- C. Membrane-bound granules
- D. Stain with gold chloride

13. Melanocyte:

- A. Dopa positive
- B. Fibrillar proteins
- C. Membrane-bound granules
- D. Stain with gold chloride

14.		the appendages listed below are included in the term ar complex" EXCEPT:
	A.	Hair follicle
	В.	Eccrine gland
	С.	Sebaceous gland

- D. Apocrine gland
- 15. Sebaceous glands are found everywhere on the body $\underline{\mathtt{EXCEPT}}$:
 - A. Buccal mucosa
 - B. Scalp
 - C. Face
 - D. Palms
- 16. Which of the following is/are NOT associated with infantile atopic eczema?
 - A. Erythematous patches on cheeks
 - B. Onset 2 or more months after birth
 - C. Antecubital and popliteal fossa eczema
 - D. Lichenification
 - E. Tendency to disappear after two years
- 17. Which of the following is/are NOT associated with atopic dermatitis?
 - A. Dennie-Morgan lines
 - B. Scabies
 - C. Cataracts
 - D. Keratoconus
 - E. Hertoghe's sign

- 18. The differential diagnosis for a vesicular, often itchy, eruption on the palms, soles and sides of fingers may include all of the following, EXCEPT:
 - A. Pustular psoriasis
 - B. Nummular eczema
 - C. Dyshidrosis (pompholyx)
 - D. Drug eruption
 - E. Chickenpox
- 19. Which of the following signs, symptoms, or features is/are characteristic of allergic contact dermatitis?
 - A. Pustules frequently occur
 - B. Prevalence of between 1% to 10%, and accounts for 70% to 80% of contact dermatitis.
 - C. Often produced by soaps
 - D. patch test is negative at 24 hours
 - E. May be suppressed by ultra violet light
- 20. Signs/symptoms of lower extremity venous insufficiency include all of the following EXCEPT:
 - A. varicosities and an eczematous eruption
 - B. Round or oval ulcers with a predilection for medial aspect of ankles
 - C. Presence of venous pulsation and thrills
 - D. Pruritus and pain (if ulcer is present)
 - E. Reticulated melanin hyperpigmentation of the skin
- 21. Renewal time of the human epidermis is about:
 - A. 1 week
 - B. 5 weeks
 - C. 10 weeks
 - D. 15 weeks

- 22. Seborrheic keratosis is:
 - A. Benign squamous cell growth
 - B. Malignant squamous cell growth
 - C. Benign basaloid cell growth
 - D. Malignant basaloid cell growth
- 23. Basal cell epithelioma (or carcinoma) may be:
 - A. Pigmented
 - B. Flesh-colored with pearly border
 - C. Ulcerated
 - D. All of the above
- 24. Parakeratosis means:
 - A. Incomplete keratinization
 - B. Incomplete keratinization with retention of nucleus
 - C. Lack of keratinization
 - D. Excessive keratinization
- 25. Squamous cell carcinoma may arise from:
 - A. Actinic keratosis
 - B. Burn scar
 - C. radiodermatitis
 - D. All of the above
- 26. Racial difference of skin color is due to the difference of:
 - A. Number of melanocytes/mm² of skin
 - B. Different color of melanin
 - C. Number and size of melanosome
 - D. Depth of melanocyte location in the skin

	A.	Dopa
	В.	HMB45
	C.	S-100
	D.	All of the above
28.	Chron	mosome locus 9p21 mutation is related to:
	A.	Familial nevoid basal cell epithelioma
	В.	Non-familial basal cell epithelioma
	C.	Familial melanoma
	D.	Colon cancer
29.	The n	major portion of a papule:
	A.	Is the dermis
	В.	Projects above the skin plane
	C.	Is greater than 1 cm in diameter
	D.	Is always scaly
	E.	Is none of the above
30.	The c	classic morphology of a lichen planus lesion is:
	A.	A purple polygonal papule
	В.	An ill-defined plaque
	C.	A tight cluster of papules
	D.	A well-defined scaly plaque on an erythematous base
	E.	None of the above

27. Useful staining(s) for tissue diagnosis of melanoma is(are):

- 31. Gastro-intestinal (GI) involvement in scleroderma is characterized by the following:
 - A. Usually (>50% of the time) presents as bloody diarrhea
 - B. Is a major and direct cause of death
 - C. Usually (>50% of the time) presents with gastroesophageal reflux symptoms (heartburn)
 - D. Is an uncommon (<10%) complication of systemic scleroderma
 - E. Is best treated by a surgical approach with resection of the affected segment
- 32. Diseases which do not have T cell receptor gene rearrangements are:
 - A. Parapsoriasis
 - B. Psoriasis
 - C. Mycosis fungoides
 - D. Pityriasis lichenoides
 - E. All of the above
- 33. Photochemotherapy (PUVA) is beneficial to:
 - A. Lichen planus
 - B. Psoriasis
 - C. Mycosis fungoides
 - D. Pityriasis lichenoides
 - E. All of the above

- 34. The NIH Consensus Conference agreed that all of the following are suggestive of neurofibromatosis-1 EXCEPT:
 - A. Axillary freckling
 - B. Lisch nodules
 - C. First degree relative with these changes
 - D. Six or more ash lead spots
 - E. Two or more cutaneous neurofibromas or one plexiform neurofibroma
- 35. Recalcitrant discoid lupus erythematoses are best treated with:
 - A. Improved sunscreen preparation
 - B. Anti-malarias
 - C. Azathioprine
 - D. Dapsone
 - E. Intralesional steroid
- 36. Concerning infantile atopic dermatitis, all of the following are TRUE EXCEPT it:
 - A. Is associated with asthma or hayfever
 - B. Has a predilection for the cheeks and extensor surfaces
 - C. Is associated with prematurity
 - D. Is not relieved by dietary restrictions
 - E. Begins after the age of two months

- 37. Which of the statements below is TRUE?
 - A. The prevalence of HLA-B27 in the Afro-American Population is 8-14%.
 - B. The prevalence of Ankylosing Spondylitis in the general population is 10%.
 - C. The Spondyloarthopathies are more prevalent in females.
 - D. Populations that have a high frequency of HLA-B27 have a higher prevalence of Ankylosing Spondylitis.
 - E. The pain of Ankylosing Spondyitis is relived by rest.
- 38. Clinical abnormalities seen in Ehlers-Danlos Syndromes include all the following EXCEPT:
 - A. Osteopenia
 - B. Coarse scarring
 - C. Large arterial ruptures
 - D. Mitral valve prolapse
 - E. Kyphoscoliosis
- 39. Which one of the following <u>BEST</u> describes a possible basal cell carcinoma?
 - A. A yellow scar
 - B. A black or brown mole
 - C. Eczema with scale
 - D. Pearly papule with prominent telangiectasia
 - E. Ulceration
- 40. Which of the following statements about sarcoidosis is TRUE?
 - A. It is a disease of the elderly
 - B. It is more prevalent in Asians than Africans
 - C. Skin lesions can be treated with intralesional steroids
 - D. It can be diagnosed on the basis of the clinical presentation and laboratory values

- Psoriasis can involve which of the following sites? 41. Nasal mucosa
 - В. Oral mucosa
 - C. Abdominal lining
 - D. Teeth

Α.

- Ε. Nails
- A red flat lesion is pressed hard and still erythematous. One 42. would describe this as:
 - Non-blanching macule
 - В. Non-blanching plaque
 - Blanching plaque C.
 - D. Red bumps
 - Ε. Blanching papules
- 43. All these diseases are associated with HLA-B27 antigen EXCEPT:
 - Ankylosing Spondylitis Α.
 - Reactive Arthritis В.
 - C. Arthritis Associated with Inflammatory Bowel Disease
 - D. Uvcitis
 - Juvenile Rheumatoid Arthritis Ε.
- All thess cell types have a prominent role in the pathogenesis 44. of the Spondyloarthopathics EXCEPT:
 - Polymorphonuclear Leukocytes Α.
 - В. Monocytes
 - CD4 T cells C.
 - CD8⁺ T cells D.

- 45. The following statement regarding joint terminology is TRUE:
 - A. A symphysis is a slightly movable joint typified by skull sutures in the adult.
 - B. Condyloid joints permit movement in one axis.
 - C. Active range of motion is the motion obtained when the examiner moves the patients's body.
 - D. A valgus deformity is present when the distal portion of the bone is displaced away from the midline.
 - E. Synonymous terms for the sole of the foot are plantar and dorsal.
- 46. What are the factors affecting back strength?
 - A. Body position
 - B. Gender
 - C. Duration of sustaining the force
 - D. Age
 - E. All the above
- 47. Each of the following is a roentgenographic feature of chondrocalcinosis EXCEPT:
 - A. Linear calcification of the symphysis pubis
 - B. Narrowing of the radiocarpal joint
 - C. Stippled calcification in the knee joint space
 - D. Knee involvement restricted to the patellofemoral compartment
 - E. Osteophytosis

- 48. Rheumatoid factor (IgM) may be present in the following disease:
 - A. Gout
 - B. Reiter's syndrome
 - C. Chondrocalcinosis
 - D. Ankylosing spondylitis
 - E. Bacterial endocarditis
- 49. The diagnosis of scleroderma is made of the basis of:
 - A. A laboratory test (the ANA)
 - B. A positive family history
 - C. Presence of Raynaud's phenomenon
 - D. A skin biopsy
 - E. A combination of signs, symptoms and lab values
- 50. Systemic Scleroderma:
 - A. Has a benign, self-limiting course
 - B. Is universally fatal
 - C. Is a skin disease more frequently seen in children than in adults
 - D. Is a chronic disease with a variable course in terms of severity and distribution of internal organ system involvement
 - E. Skin involvement starts on the trunk and progresses outward toward the extremities

- 51. The most characteristic feature of Polymyositis is:
 - A. Muscle pain
 - B. Positive family history of similar muscle problems
 - C. Muscle weakness
 - D. Paresthesias (numbness/tingling) of the distal extremities
 - E. Constitutional symptoms fever/lethargy/anorexia
- 52. Which of the following statements is TRUE of vasculitis?
 - A. Vasculitis, although uncommon, presents in a typical and predictable fashion
 - B. Vasculitis can affect blood vessels of any size
 - C. Vasculitis is a separate entity from the defined connective tissue diseases (SLE, scleroderma, polymyositis), and is not seen with these syndromes
 - D. Vasculitis affects multiple organ systems but spares the brain
 - E. vasculitis is a disease primarily of children
- 53. All of the following factors/agents activate bone remodeling EXCEPT?
 - A. Excess vitamin D
 - B. Excess parathyroid hormone
 - C. Excess thyroid hormone
 - D. Corticosteroids
 - E. Alcohol

54.	One h	nalf of adult height is achieved in most girls by age:
	A.	One year
	В.	Two years
	C.	Five years
	D.	Seven years
	Ε.	None of the above
55.	The n	musculoskeletal system is mostly derived from:
	A.	Ectoderm
	В.	Endoderm
	C.	Mesoderm
	D.	None of the above
	E.	All of the above
56.	The c	onset of most non-genetic congenital malformations occur:
	Α.	In the 1st trimester
		In the 1st trimester In the 2nd trimester
	Α.	
	А.	In the 2nd trimester
57.	A. B. C. D.	In the 2nd trimester In the 3rd trimester
57.	A. B. C. D.	In the 2nd trimester In the 3rd trimester Throughout the pregnancy
57.	A. B. C. D.	In the 2nd trimester In the 3rd trimester Throughout the pregnancy remodeling occurs through the action of:
57.	A. B. C. D. Bone A.	In the 2nd trimester In the 3rd trimester Throughout the pregnancy remodeling occurs through the action of: Osteoblasts
57.	A. B. C. D. Bone A. B.	In the 2nd trimester In the 3rd trimester Throughout the pregnancy remodeling occurs through the action of: Osteoblasts Osteoclasts
57.	A. B. C. D. Bone A. C.	In the 2nd trimester In the 3rd trimester Throughout the pregnancy remodeling occurs through the action of: Osteoblasts Osteoclasts Osteoblasts and osteoclasts

58.	Bone	remodel	Ling	processes	of	funnelization	and	cylinderization
	takes	place	in	the:				

- A. Epiphysis
- B. Physis
- C. Metaphysis
- D. Diaphysis
- E. Sysyphis

59. Peak height velocity occurs between Tanner Stages:

- A. O I
- B. I II
- C. II III
- D. III IV
- E. IV V

60. A fracture containing multiple fragments is termed:

- A. Compression
- B. Compound
- C. Commplicated
- D. Torus
- E. Comminuted

	A.	Oblique		
	в.	Torus		
	C.	Comminuted		
	D.	Transverse		
	E.	Spiral		
62.	Factors associated with avascular necrosis of bone include al the following EXCEPT :			
	A.	Corticosteroid medication		
	в.	Trauma		
	C.	Sickle cell disease		
	D.	Autoimmune disease		
	Ε.	Alcohol abuse		
63.	"Spr	ains" are injuries to:		
	A.	Tendons		
	В.	Muscles		
	C.	Joints		
	D.	Ligaments		
	E.	Epiphyses		
64.	A sh	oulder "separation" involves the:		
	A.	Glenohumeral joint		
	в.	Sternoclavicular joint		
	C.	Acromio-clavicular joint		
	D.	Gleno-acromial space		
	Ε.	Scapulo-thoracic space		

61. A fracture pattern caused by rotational forces is termed:

65.	The following	statement	about	stress	fractures	are	TRUE	EXCEPT
	they:							

- A. Are often radiographically "silent" initially
- B. May be diagnosed by bone scan techniques
- C. May be confused with a malignant process
- D. Are difficult to clinically diagnose
- E. May have prolonged healing times

66. Osteochondritis dissecans is MOST COMMON in the:

- A. Lateral talus
- B. Medial talus
- C. Medial femur
- D. Lateral femur
- E. Patella

67. Ankylosing spondylitis is associated with:

- A. Progressive scoliosis
- B. Isolated spine disease
- C. HLA D4 antigen
- D. HLA B27 antigen
- E. Shorts arm deletion of "Y" chromosome

68. Idiopathic scoliosis accounts for what percentage of all types of scoliosis?

- A. 10%
- B. 25%
- C. 33%
- D. 50%
- E. 70%

- 69. Batson's plexus is commonly involved with metastatic disease of which primary malignancy?
 - A. Colonic
 - B. Pancreatic
 - C. Hepatic
 - D. Lymphoma
 - E. Prostatic
- 70. Knee meniscal repairs are recommended in all the following zones EXCEPT:
 - A. Red-red
 - B. Red-white
 - C. White-red
 - D. White-white
- 71. Lung cancer often metastasizes to the skeleton. All the following statements about this disease process are true EXCEPT:
 - A. Associated with relatively shorter survival time than metastatic breast carcinoma
 - B. Spinal cord compression may occur
 - C. Patients can become hypocalcemic due to paraneoplastic PTHrP production
 - D. Metastases are usually osteolytic
 - E. Pattern of skeletal dissemination is related to anatomic location of the primary tumor

- 72. Choose the BEST statement regarding desmoid tumor:
 - A. Intra-abdominal tumors typically encases the ureters and cause hydronephrosis
 - B. Disseminates primarily via the hematogenous route, especially to lungs
 - C. Associated with fibrosing conditions in other organs/sites
 - D. Associated with a family cancer syndrome
 - E. Most tumors arise in scars
- 73. Choose the BEST statement regarding the etiology of osteogenesis imperfecta.
 - A. genetic abnormality mapped to chromosome 15q
 - B. Autosomal recessive inheritance
 - C. Defect in conversion of type I procollagen to collagen
 - D. Etiology unknown in most cases
 - E. Genetic defect in type I collagen gene
- 74. There is great clinical heterogeneity among patients with Marfan Syndrome. Which statement best describes the etiology of this disease?
 - A. The abnormality resides in the microfibrillar system
 - B. The precise biochemical and molecular defects are not known in most types
 - C. Mutations have been mapped to chromosome 5q
 - D. Mutations have been mapped to the type I collagen gene
 - E. The abnormality resides in the elastin molecule

	A.	2 years
	В.	3 years
	C.	5 years
	D.	7 years
	E.	8 years
76.		guous osteomyelitis is commonly associated with septic ritis in the:
	A.	Wrist
	В.	Elbow
	C.	Нір
	D.	Knee
	E.	Ankle
77. Raynaud's phenomenon is characterized by the following		
	Α.	Persistently cold hands regardless of the ambient temperature
	В.	More common in men than in women
	C.	Is rare in the general population (rare = < 0.1.%)
	D.	The best approach is to move to a warmer climate
	E.	May be the first sign of connective tissue or auto- immune disease, or it may occur alone in the absence of any disease process
78.	Avaso	cular necrosis of the bone is common in:
	A.	Diabetes mellitus - Type II
	В.	Renal osteodystrophy
	C.	Alcoholism
	D.	Achondroplasia
	Ε.	Hypertension

75. An adult gait pattern is achieved by:

	Α.	An open fracture
	В.	Post operative infection
	C.	Direct puncture wound
	D.	A bacteremia
	E.	A viremia
80.	The p	primary collagenous component of bone is:
	A.	Type I
	В.	Type II
	C.	Type III
	D.	Type V
	Ε.	Type X
81.	The t	term used to designate surgical fusion of a joint:
	A.	Arthroplasty
	В.	Arthrodesis
	C.	Arthrocentesis
	D.	Arthrosis
	Ε.	Arthrogryposis
82.		metastatic sites from which primary tumor are acteristically blastic-type?
	A.	Thyroid
	В.	Colon
	C.	Lung
	D.	Renal
	E.	Prostate

79. The source of osteomyelitis in a 5-year-old is most likely:

- 83. "SCIWORA" refers to:
 - A. Septic cartilage inflammation
 - B. Surgical closed instrumentation
 - C. Sequential cerebral integration
 - D. Spinal cord injury
 - E. Subchondral injury
- 84. Scheuermann's disease is:
 - A. thoracic kyphosis 2 vertebral osteomyelitis
 - B. thoracic kyphosis 2 infectious discitis
 - C. thoracic kyphosis 2 unknown causes
 - D. thoracic kyphosis 2 vertebral osteomyelitis
 - E. thoracic kyphosis 2 acute trauma
- 85. Biomechanically, which is "heavier" on the spine?
 - A. 50 pounds of lead
 - B. 50 pounds of wood
 - C. 50 pounds of feathers
 - D. 50 pounds of water
 - E. They are all the same
- 86. All of the following causes articular injury in septic arthritis EXCEPT:
 - A. Bacterial toxins
 - B. Enzymatic action of bacteria
 - C. Joint passive motion
 - D. Increased intraarticular pressure
 - E. Secondary products of bacterial cell necrosis

87.		surgical emergency requiring incision and drainage exists in ptic arthritis of the:							
	A.	Ankle							
	В.	Knee							
	C.	Hip							
	D.	Wrist							
	Ε.	Elbow							
88.		of the following malignant primary tumors have a ensity to metastasize to bone EXCEPT :							
	A.	Thyroid							
	В.	Breast							
	C.	Lung							
	D.	Renal							
	E.	Pancreatic							
89.	The r	most common risk factor producing overuse injuries is:							
	A.	Sport technique							
	В.	Training error							
	C.	Sports equipment							
	D.	Athlete size							
90.	The r	most common organism which causes osteomyelitis is:							
	A.	Staph. aureus							
	В.	Strep. pyogenese							
	C.	H. influenza							
	D.	Salmonella							
	Ε.	N. Gonorrhea							

- 91. The most common type of scoliosis is:
 - A. Congenital
 - B. Degenerative
 - C. Neuro-muscular
 - D. Traumatic
 - E. Idiopathic
- 92. All the following statements about rickets are TRUE EXCEPT:
 - A. Nutritional rickets can be cured completely and quickly with adequate vitamin D replacement
 - B. More common in underdeveloped countries
 - C. May occur due to limited exposure to ultraviolet irradiation
 - D. Characterized by depletion of bone matrix
 - E. The skeleton is undermineralized
- 93. All of the following are the result of UVB EXCEPT:
 - A. Increased DNA synthesis
 - B. Dark repair
 - C. Burn
 - D. IL 10 production
 - E. Delayed tanning

QUESTIONS 94 - 100 ARE RELATED TO THE PHOTOGRAPHS PROVIDED.

- 94. Radiograph (A1) and photomicrograph (A2) are of the fifth finger of a 13 year old girl. What is the diagnosis?
 - A. Solitary (unicameral) bone cyst
 - B. Aneurysmal bone cyst
 - C. Enchondroma
 - D. Osteochondroma
 - E. Giant cell tumor
- 95. MRI (B1) and photomicrograph (B2) are from a fibular tumor in an 11 year old girl. Choose the single best statement about this lesion.
 - A. Staphylococcus aureus is the most likely causative organism
 - B. Most common primary malignant bone tumor
 - C. This is a stage IIB tumor in the Enneking staging system
 - D. This is most likely a benign tumor
 - E. Patient may show a monoclonal serum immunoglobulin spike
- 96. The picture (Figure C) shows a:
 - A. Plaque
 - B. Lichenification
 - C. Fissure
 - D. Patch
 - E. Nodule

- 97. The above condition most likely results from:
 - A. Active UVA exposure
 - B. Long term UVA and UVB exposure
 - C. Self-picking
 - D. Drug reaction
 - E. Eczema
- 98. The most likely diagnosis for the lesion depicted in Figure D is:
 - A. Atopic dermatitis
 - B. Porphyria cutanea tarda
 - C. Drug reaction
 - D. Psoriasis
 - E. Melanoma
- 99. Choose the single best statement regarding the radiograph depicted in figure ${\tt E.}$
 - A. Most likely primary tumor is prostatic carcinoma
 - B. Autoimmunity plays an important role in the pathogenesis of this disease.
 - C. Patients with this disease have a high risk of fracture.
 - D. There is marked joint space narrowing.
 - E. This patient would probably be asymptomatic.

- 100. This radiograph (Figure F) is taken of the left and right legs of a 14 year old boy who presents with knee pain. Choose the single best statement about the lesion depicted.
 - A. This lesion should be followed with repeat radiographs to see if it progresses.
 - B. The lesion is probably benign.
 - C. Chemotherapy is an effective modality in the management of this type of tumor.
 - D. Staphylococcus aureus is the most likely pathogen.
 - E. The histology would be "small blue cell tumor."