Specialized Topics in Areas of Radiologic Sciences P.O. Box 2931 Toledo, Ohio 43606 419-471-1973

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Radiographic Pathology for Technologists

by

James D. Mace & Nina Kowalczyk

5th edition

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Ple				James D. Mace & Nina Kowalczyk his post test and return to the S.T.A.R.S. off
1.	The te	rm used to describe a patient's perception	of	a disease is called a
		sign syndrome		symptom manifestation
2.	The te	rm used to describe diseases that have no	ide	ntifiable causative factor is
		idiopathic iatrogenic		nosocomial asymtomatic
3.	The nu	umber of deaths caused by a particular dis	eas	e averaged over a population is called
		morbidity mortality		etiology lethality
4.	The m	ost frequent cause for hospitalization in t	he 1	United States is
	a. b.	trauma		lung disorders heart disease
5.		ing radiation exposure particularly during ood of	the	e early terms of pregnancy can reduce the
		hereditary disease congenital defects		metabolic disease degenerative disease
6.	An ex	ample of an autoimmune disorder is		
	a. b.	leukemia tuberculosis	-	rheumatoid arthritis cystic fibrosis
7.	One o	f the resultant reactions to cell necrosis is	V	

a. capillary constriction b. attraction of leukocytes c. decreased capillary permeability

d. leukopenia

8. The removal of dead cells and materials in the healing process is called

b. tissue regeneration

a. debridement

c. virulence

d. cellular necrosis

9. The most common disturbance of fluid balance	is
a homoostosis	a dahridration
a. homeostasis	c. dehydration
b. hypersecretion	d. glandular underactivity
10. The type of tumor that remains localized and is	generally noninvasive is a
a. sarcoma	b. carcinoma
b. malignant neoplasm	d. benign neoplasm
o. manghan neoplasin	a. Jonigh hoopiasin
11. In the TNM system of cancer staging, the N rep	presents
a. noninvasive	c. nonmalignant
b. lymph node involvement	d. new neoplastic tissue
7 1	•
Chapter 2 12. The bone cell responsible for bone formation is	s the
• • • • • • • • • • • • • • • • • • •	
a. osteocyte	c. osteoblast
b. osteoclast	d. trabeculae
13. The type of joint located between the vertebral	bodies is classified as
a. amphiarthrodial	c. diarthrodial
b. synarthrodial	d. fibrous
14. The imaging modality that provides superior co	ontrast resolution in soft tissue detail is
a. conventional radiographs	c. magnetic resonance imaging (MRI)
b. computerized tomography (CT)	d. bone mineral densitometry
15. The imaging modality that provides excellent of tumors is	lisplay of bony margins or trabecular patterns in
a. conventional radiographs	c. magnetic resonance imaging (MRI)
b. bone mineral densitometry (CT)	d. spiral or helical computerized tomography
16. The skeletal imaging modality to look at the en	tire body at one time in a convenient fashion is
a. conventional radiography	c. magnetic resonance imaging (MRI)
b. nuclear medicine	d. spiral or helical computerized tomography
o. Hadran Manager	
17. Brittle bone disease is a synonym for	
a. osteogenesis imperfecta	c. osteoporosis
b. rickets	d. achondroplasia
U. ALVANOUS	1
18. Incomplete closure of the vertebral canal is ca	lled
a. spinal stenosis	c. spina bifida
b. scoliosis	d. spinal subluxation

19. In osteomyelitis, bone necrosis occurs within					
	10 - 14 days minutes of the infection	c. 2 - 3 weeks d. 24 - 48 hours			
20. Radio	graphic demonstration of a "worm-eaten"	appearance in bone is indicative of			
	tuberculosis osteomyelitis	c. severe arthritis d. osteopetrosis			
21. Rheun	natoid arthritis occurs most commonly in				
	men ages 30 - 40 years women ages 50 - 60 years	c. women ages 30 - 40 years d. men ages 50 - 60 years			
22. "Baml	ooo spine" is a descriptive term used in th	e radiographic demonstration of			
	scoliosis ankylosing spondylitis	c. pyogenic arthritisd. spina bifida			
23. A cyst	ic swelling that develops in connection w	ith a tendon sheath is commonly called a			
	bursa gout	c. tenosynovitis d. ganglion			
24. The in	naging modality of choice in diagnosing o	esteopetrosis is			
	radiographs computed tomography (CT)	c. magnetic resonance imaging (MRI) d. nuclear medicine			
25. The in	naging modality of choice in diagnosing j	oint structures is			
	radiographs computed tomography (CT)	c. magnetic resonance imaging (MRI) d. nuclear medicine			
26. The in	naging modality of choice in diagnosing g	giant cell tumors is			
	radiographs computed tomography (CT)	c. magnetic resonance imaging (MRI) d. nuclear medicine			
27. Osteoarthritis is the type of pathology categorized as					
	additive additive (healing)	c. subtractive (early)d. subtractive			
28. The m	ost common imaging modality utilized to	assess low back pain is			
a. b.	conventional radiographs bone mineral densitometry	c. magnetic resonance imaging (MRI)d. spiral computerized tomography CT)			

29. Spon	29. Spondylolisthesis occurs most frequently at the vertebral junction of							
	C1 - C2		T12 - L1					
b	L5 - S1	d.	L3 - L4					
30. The a	30. The anatomic component of the Scotty dog called the "ear" is the							
	inferior articular process		lamina					
b.	pedicle	d.	superior articular process					
31. Half	of all osteosarcomas appear in the							
	humerus & shoulder girdle vertebral column		distal femur & proximal tibia pelvis & proximal femur					
32. A bei	nign bone tumor that affects men more so	thar	n women is called a(an)					
	osteochondroma		osteoma					
b.	endochondroma	d.	chondrosarcoma					
33. An ar	ea of radiolucency with well-defined marg	gins	s occurring in children ages 3 - 14 years is a					
	osteochondroma		chondrosarcoma					
D.	simple bone cyst	a.	osteosarcoma					
34. The t	ype of tumor that radiographically demons	stra	tes a lytic lesion called a nidus is the					
	osteochondroma		chondrosarcoma					
b.	endochondroma	d.	osteoid osteoma					
35. One o	of the malignancies of the skeletal system	that	may be radiation induced is the					
a.			osteosarcoma					
b.	endochondroma	d.	osteoid osteoma					
36. The t	umor that arises from the medullary canal	in c	children ages 5 - 15 years is called					
	Ewing's tumor		osteoma					
b.	chondrosarcoma	d.	endochondroma					
37. The p	rincipal signs of skeletal metastasis are							
	fever & pain		fractures & swelling					
b.	pain & pathologic fractures	d.	swelling & painful joints					
38. Follo	w up on the progress of metastasis and the	rap	y involves					
a.	U 1		magnetic resonance imaging (MRI)					
b.	bone mineral densitometry	d.	bone scans					

Chapter 3 39. Organs	s located in the middle mediastinum inclu	de th	ne
	heart, esophagus & trachea trachea, thymus & thyroid glands		neart, spine & abdominal aorta great vessels & left ventricle
40. Any co	ondition in the chest which increases aera	ion 1	requires
	an increase in exposure factors no change in exposure factors		decrease in exposure factors an additional expiration film
41. A "sai	sign" on pediatric chest radiographs is in	dica	tive of
	an enlarged thymus gland airway obstruction		n mediastinal mass an enlarged thyroid gland
42. Lymph	nodes measuring more than 1 cm in size	on a	CT image may be considered
	benign malignant		normal pelow average size
43. A prop	erly positioned endotracheal tube (ET) is	loca	ted
	above the carina below the carina		above the vocal cords n the right main stem bronchus
44. Improj	per position of a central venous pressure (CVP) line can induce
	a pneumothorax respiratory hemorrhage		a stroke respiratory failure
45. The "g	round glass" appearance of the lungs in a	pre-	term infant is indicative of
	a pneumothorax congestive heart failure		subcutaneous emphysema respiratory distress syndrome
46. Tubero	culous scars may be demonstrated radiogr	aphic	cally in the
	apex of one or both lungs costophrenic angles		nterior mediastinum posterior mediastinum
47. One of	The top 5 most common causes of death	n the	e United States is
	tuberculosis emphysema		chronic obstructive pulmonary disease (COPD) pulmonary embolism
48. The di	sease classification for the inhalation of f	oreig	n inorganic dust particles is called
	inflammatory pneumonconiosis		legenerative neoplastic

49. Pleural effusion is best demonstrated radiographically on						
	an upright PA view an apical AP projection	c. supine AP projectiond. an upright lateral projection				
50. The m	ost common fatal primary malignancy in	the United States for people aged 45 to 70 years is				
	bronchogenic carcinoma squamous cell carcinoma	c. pulmonary metastasis d. melanoma				
Chapter 4 51. The do		duodenum, stomach and transverse colon is called				
	the lesser omentum the mesentery	c. the greater omentum d. the fascia				
52. The C	-loop is part of the					
	jejunum ileum	c. duodenum d. ascending colon				
53. In an a	dult, the kidneys are about the length of					
	three vertebrae two and a half vertebrae	c. one and a half vertebraed. four vertebrae				
54. The co	ontrast medium of choice when a perforate	ed bowel is suspected is				
	water-soluble air	c. barium sulfated. radiolucent				
55. The dr	ug used to reduce peristaltic activity is					
	Motrin epinephrine	c. benadryl d. glucagon				
56. A sma	ll bowel study is typically completed in					
a. b.	1 to 2 hours 2 to 3 hours	c. 4 to 5 hours d. 3 to 6 hours				
57. The accepted imaging modality for following the progress of GI malignancies is						
	upper GI series conventional abdomen series	c. computerized tomography (CT)d. magnetic resonance imaging (MRI)				
58. Radioa	active urea is used in nuclear medicine ima	aging in the evaluation of				
	gastric ulcers perforation	c. hiatal herniasd. obstruction				

59. A common type of double-lumen decompression tube is the							
	Levin Dobhoff	c. Miller-Abbott d. Cantor					
60. Infants	s with esophageal atresia are at risk for						
	gastric ulcers aspiration pneumonia	c. obstruction d. perforation					
61. A freq	uent complication for infants with colo	nic atresia is					
	obstruction c. p diarrhea	erforation d. fistula formation					
62. Hirsch	sprung's disease is also known as						
	congenital megacolon imperforate anus	c. malrotation d. pyloric stenosis					
63. Choco	late, alcohol and coffee consumption s	hould be avoided by patients experiencing					
	gastric ulcers gastroenteritis	c. gastroesophageal reflux (GERD)d. peptic ulcers					
64. Gastro	enteritis may result from consuming fo	oods contaminated with					
	Salmonella c. i Helicobacter pylori	nsectides d. Escherichia coli					
65. Crohn	's disease typically affects young adult	s of both sexes between the ages of					
	•	5 and 20 years 6 and 21 years					
66. A "col	oble-stone" radiographic appearance ar	nd string sign are classic findings of					
	esophageal stricture ulcerative colitis	c. megacolond. regional enteritis (Chron's disease)					
67. A bow	el disorder of unknown etiology occur	ring more commonly in Jewish persons is					
	ulcerative colitis ruptured appendix	c. gastroesophageal reflux (GERD)d. diverticolosis					
68. A wor	m-like defect in a column of barium in	the esophagus is indicative of					
	reflux polyps	c. varices d. esophagitis					

69. A tele	scoping of a bowel	loop into a distal segr	nen	nt by peristalsis is	called
	intussusception ileus			. volvulus l. malrotation	
70. The ty	pe of diverticulum	found at the pharyngo	eso	ophageal junction	is called
a.	Meckel's		c.	. traction	
b.	Zenker's		d.	l. mechanical	
71. The m	nalignancy that com	monly arises at the ga	stro	oesophageal junct	ion is
	an adenocarcinon	na		. a sarcoma	
b.	a leiomyoma		d.	. a squamous cell	carcinoma
72. Most	gastric cancers deve	elop in the			
	body			. pylorus	
b.	fundus		d.	. cardiac orifice	
73. The se	econd most commo	n cause of cancer mor	talit	ty in the United S	tates is found in the
	stomach			. esophagus	
b.	small bowel		d.	. colon	
Chapter :		hat functions as both a	an e	exocrine and endo	crine gland is the
a.	liver		c.	. gall bladder	
b.	pancreas		d.	. spleen	
	diologic study per pancreatic duct is c		erol	logist visualizing	the hepatobiliary system and
a.	a percutaneous tra	ınshepatic cholangiogi	ram	ı	
	an operative chola				
	T-tube cholangiog	rograde cholangiopano gram	crea	atogram	
76. The th	ird leading cause o	f death in the United S	State	es in individuals b	petween the ages of 45 to 65 is
	cirrhosis			. gastric cancer	
b.	pancreatic tumors		d.	. ulcerative colitis	
77. The ty	pe of hepatitis that	accounts for 80% of the	he i	infections after blo	ood transfusions is
a.	A	b. D	c.	. В	d. C
78. Chole	ithiasis can be ider	tified by ultrasound b	y th	ne presence of	
a.	a radiopacity			. a radiolucency	
b .	an echogenic focu	IS	d.	. a lack of transm	ission

79. The medical term for a port-wine superficial birthmark is						
a. hepatoma b. adenoma	c. hemangioma d. hematoma					
80. A common site for metastasis in the hepatobilia	ary system is the					
a. liver b. pancreas	c. gall bladder d. biliary ducts					
81. A rapidly growing, fatal carcinoma that occurs	more often in black men than white men is					
a. located in the liverb. found in the gall bladder	c. found in the biliary ductsd. located in the pancreas					
Chapter 6 82. The volume of blood the kidneys filter and real	bsorb daily is					
a. 50 to 75 litersb. 180 liters	c. 2 to 3 liters d. 100 to 150 liters					
83. The statistical rate of death for patients experie	ncing an allergic reaction to contrast agents is					
a. 1 of 40,000 b. 1 of 100,000	c. 1 of 20,000 d. 1 of 400,000					
84. The majority of all urinary tract calculi are four	nd at the					
a. major calycesb. orifice of the urinary bladder	c. vesicoureteral junctiond. proximal ureters					
85. The imaging modality of choice in following k	idney transplantation patients is					
a. conventional radiographyb. computerized tomography (CT)	c. magnetic resonance imaging (MRI) d. ultrasound					
86. Urine collection bags must remain lower than t	he patient's bladder to prevent					
a. spillageb. antegrade flow	c. reflux d. the formation of a calculus					
87. The most commonly occurring fusion anomaly	of the kidney is					
a. a horseshoeb. renal agenesis	c. hypoplasia d. crossed ectopy					
88. A filling defect described as a "cobra head" app	pearance is indicative of					
a. a urethroceleb. a ureterocele	c. hydronephrosisd. ureteral diverticulum					

89. An est	89. An estimated 50% of patients diagnosed with renal hypertension have					
	malrotation hydronephrosis			pyelonephritis polycystic kidney	dise	ease
90. The m	umber of all womer	n who experience a uri	inar	y tract infection at l	eas	t once in their lifetime is
a.	35%	b. 75%	c.	50%	d.	less than 25%
91. The re	tention of urea in t	he blood is called				
a.	hematuria	b. renal retention	c.	uremia	d.	hypertension
92. A mal	ignant renal tumor	predominately found i	in cl	nildren is called		
a.	renal carcinoma	b. Wilm's	c.	adenocarcinoma	d.	renal sarcoma
Chapter 7	7 ral spinal fluid is p	roduced by the				
	choroid plexus third ventricle			foramen of Magene dura mater	die	
94. The in	naging modality ut	ilized to confirm brain	ı dea	ath is		
	ultrasound computed tomogr	aphy		magnetic resonance radionuclide brain		-
95. Exces	sive amounts of ce	rebral spinal fluid in th	he v	entricles of the brai	n is	s identified as
	menigocele hydrocephalus			meningitis encephalitis		
96. The a	natomic portion of	an intervertebral disc t	that	herniates is called t	the	
a. b.	annulus fibrosis dura mater			nucleus pulposus spinal nerve		
	1 -	ve debilitating disease of 40 years in age is cal			syst	em most commonly
	spondylosis cerebrovascular a	ccident		ischemic stroke multiple sclerosis		
98. A sta	r-shaped neuroglial	cell containing many	braı	nching extensions is	s ca	lled
	an astrocytoma a meningioma			a medulloblastoma an ependyoma	l	
99. The r	nost common type	of primary spinal neop	olası	n is		
a. b.	an astrocytoma a meningioma			a medulloblastoma an ependyoma	ı	

Chapter 8 100. The anatomic pacemaker of the heart is the a. left ventricle c. atrial-ventricular node b. sinoatrial node d. bicuspid valve 101. The minimum kVp for chest radiography is a. 120 b. 80 c. 100

102. The procedure in which a patient swallows a flexible probe containing a transducer is called

a. transesophageal echocardiography

c. 2-D echocardiography

b. M-mode echocardiography

d. Doppler imaging

103. The most widely used nuclear cardiology exam for post bypass and angioplasty patients is a

a. gated cardiac blood pool scan

c. positron emission tomography (PET) scan

d. 150+

b. ventilation scan

d. myocardial perfusion scan

104. The use of a high-intensity anticoagulant dripped over a period of hours is utilized in

a. thrombolysis

c. embolization

b. percutaneous transluminal angioplasty d. cardiac catheterization

105. Approximately 80% of infants born before 28 weeks of gestation may possess

a. coarctation of the aorta

c. ventricular septal defects

b. patent ductus arteriosus

d. ductus arteriosus

106. The most common cause of chronic valve disease in the heart is

a. rubella

b. chicken pox

c. rheumatic fever

d. mumps

107. Hypertension in the pulmonary artery and enlargement of the right ventricle is suggestive of

a. congestive heart failure

c. atrial septal defect

b. valvular stenosis

d. cor pulmonale

108. The medical term for hardening of the arteries is

a. atherosclerosis

c. thrombosis

b. ischemia

d. plaque formation

109. The majority of aortic aneurysms occur

a. in the aortic arch

c. below the level of the renal arteries

b. above the celiac axis

d. in the descending aorta

110. Thrombus formation generally occurs in

a. deep thigh veins b. deep calf veins

c. cerebral veins

d. pulmonary veins

Chapter 9

111.	The	life span of an erythrocyte is				
		120 days 10 days		2 weeks 3 months		
112.	The 1	universal blood donor type is				
		AB A		O B		
113.	The	cell type that can adversely affect the suc	ces	s of tissue grafts and organ transplants is the		
		leukocyte T cell		erythrocyte lymphocyte		
114.	The	preferred imaging exam for diagnosing b	one	marrow diseases is		
		lymphangiography magnetic resonance imaging	d.	c. nuclear medicine perfusion scans ultrasound		
115.	The	single most important factor in controllin	g in	fection is considered to be		
		wearing total body protective apparel wearing a gown and mask		proper handwashing using isolation rooms at all times		
116.	The	reduction of opportunistic infections and	dea	ths among AIDS patients is attributed to		
		highly active antiretroviral therapy (HA frequent testing and screening	AR'	Γ) c. genetic engineeringd. minimizing sexual encounters		
117.	The 1	most common malignancy in AIDS paties	nts i	is		
	a. b.	bronchial carcinoma skin cancer		lymphadenoma Kaposi's sarcoma		
118.	. The neoplastic disease involving the overproduction of white blood cells is called					
		pernicious anemia leukemia		leukopenia myeloma		
119.	The o	cells associated with Hodgkin's disease a	re k	nown as		
		leukocytes pneumococcal bacteria		Reed-Sternberg T-cells		

Chapter 10

120.	The t	ransition of glandular breast tissue	e into adip	ose tissue in wom	en is called
		fat suppression adipose conversion		tissue transition involutional cha	nge
121.	An a	bnormal growth pattern of epithel	ial cells a	ound the neck of	the uterus is called
		pelvic inflammatory disease ovarian cysts		dysplasia teratoma	
122.	The	most common benign tumor of the	e female g	enital system is ca	alled a
		teratoma fibroadenoma		leiomyoma (uter lipoma	ine fibroid)
123.	Wor	nen and men are at increased risk	for develo	ping breast cancer	if they carry a gene known as
		BRCA1 BRCA2		CA1 BRCA	
124.	The	most common site for an ectopic p	pregnancy	occurs in the	
		abdominal cavity cervix		ovary fallopian tube	
125.	The	medical term for undescended test	ticles is		
		cryptorchidism dysplasia		agenesis testicular torsion	ı
126.	Ske	letal metastases from prostate cand	cer occurs	in approximately	% of the cases.
	a.	50 b. 75	c.	85	d. 90
127.	At le	east 40% of malignant testicular tu	mors are l	known as	
	a. b.	seminomas teratomas		choriocarcinoma adenocarcinoma	
Chaj	pter 1	11			
128.	The	"master" endocrine gland is know	n as		gland.
	a.	pineal b. adrenal	c.	pituitary	d. thyroid
129.	The	most common form of osteoporos	is is		
		postmenopausal idiopathic	c. juveni d. preme		

130.		ventional radiograps s original mass.	ohs can identify osteop	oro	sis when bone loss	involves%
	a.	10 - 30%	b. 30 – 50%	c.	40 - 60%	d. 60 – 80%
131.	Rick	tets results in child	ren who experience a c	lefi	ciency in vitamin	
	a.	A	b. B	c.	C	d. D
Chaj	pter 1	12				
132.	In th	e United States, tra	auma is the most comn	non	cause of death for 1	people between the ages of
		16 and 35 years 21 and 45 years			1 and 44 years 30 and 50 years	
133.		trauma level status ety of procedures is		era	ge by versatile radio	ographers performing a wide
	a.	I	b. II	c.	III	d. IV
134.	The	most frequent verte	ebral fracture is the			fracture.
		compound compression			comminuted impacted	
135.	A su	bdural hematoma i	s located between the			
		dura mater and the brain stem and du			dura mater and the dura mater and pia	•
136.	A fra	acture that does not	theal within the norma	ıl pe	eriod of time is refe	rred to as
	a. b.	malunion provisional union			nonunion delayed union	
137.	The	best radiographic p	projection to utilize for	der	nonstration of a blo	w out fracture is the
		AP parietoacanthal (n	nodified Water's metho	od)	c. lateral d. verticosubr	mental (Schuller)
138.	Seiz	ure disorders and el	lectric shock are cause	s of	f di	slocations.
	a.	hip	b. knee	c.	shoulder	d. lumbar vertebrae
139.	The n	nortality rate assoc	iated with shaken baby	y sy	ndrome resulting in	death is%.
	a.	25%+	b. 40%+	c.	50%+	d. 65%+
		-	cubitus radiographs of minutes.	f the	e abdomen, the pation	ent should lie on their left
	a.	5	b. 20	c.	15	d. 10



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Answer Sheet for:	Radiographic Pathology for Tech Nina Kowalczyk	hnologists by James D. Mace

Please place your lettered selection for each question in the respective box and return ONLY this post test sheet to S.T.A.R.S.

11.	21.	31.	41.	51.	61.
12.	22.	32.	42.	52.	62.
13.	23.	33.	43.	53.	63.
14.	24.	34.	44.	54.	64.
15.	25.	35.	45.	55.	65.
16.	26.	36.	46.	56.	66.
17.	27.	37.	47.	57.	67.
18.	28.	38.	48.	58.	68.
19.	29.	39.	49.	59.	69.
20.	30.	40.	50.	60.	70.
	12. 13. 14. 15. 16. 17. 18. 19.	12. 22. 13. 23. 14. 24. 15. 25. 16. 26. 17. 27. 18. 28. 19. 29.	12. 22. 32. 13. 23. 33. 14. 24. 34. 15. 25. 35. 16. 26. 36. 17. 27. 37. 18. 28. 38. 19. 29. 39.	12. 22. 32. 42. 13. 23. 33. 43. 14. 24. 34. 44. 15. 25. 35. 45. 16. 26. 36. 46. 17. 27. 37. 47. 18. 28. 38. 48. 19. 29. 39. 49.	12. 22. 32. 42. 52. 13. 23. 33. 43. 53. 14. 24. 34. 44. 54. 15. 25. 35. 45. 55. 16. 26. 36. 46. 56. 17. 27. 37. 47. 57. 18. 28. 38. 48. 58. 19. 29. 39. 49. 59.

Please continue on the reverse side.

Answer Sheet for:

Radiographic Pathology for Technologists by James D. Mace & Nina Kowalczyk

Please place your lettered selection for each question in the respective box and return ONLY this post test sheet to S.T.A.R.S.

71.	81.	91.	101.	111.	121.	131.
72.	82.	92.	102.	112.	122.	132.
73.	83.	93.	103.	113.	123.	133.
74.	84.	94.	104.	114.	124.	134.
75.	85.	95.	105.	115.	125.	135.
76.	86.	96.	106.	116.	126.	136.
77.	87.	97.	107.	117.	127.	137.
78.	88.	98.	108.	118.	128.	138.
79.	89.	99.	109.	119.	129.	139.
80.	90.	100.	110.	120.	130.	140.