

Unit 36

Radiographic Imaging & Exposure

Fourth Edition

by

Terri L. Fauber

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

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Ti Ple	400000 months have	-	y Terri L. Fauber sion of this post test and return to the S.T.A.R.S. of	fice.
1.	The cr	ystals Dr. Wilhelm Conrad Roentger	used to produce the first x-ray were	
		calcium tungstate barium platinocyanide	c. lanthanum oxybromide d. gadolinium oxysulfide	
2.	The in	stantaneous production of light resul	ting from some type of energy is called	
	a. b.	luminescence phosphorescence	c. fluorescence d. scintillation	
3.	The w	orld's first radiograph was a hand im	age of	
	a. b.	Dr. Wilhelm Conrad Roentgen Thomas Edison	c. Marie Curie d. Anna Bertha Roentgen	
4.	The st	ate that attempted to enact legislation	to ban x-ray producing devices in opera glasses wa	ìS
	a. b.	New Jersey Washington, DC	c. New York d. New Mexico	
5.	The fir	rst indications of the damaging biolog	gic effects from x-rays were	
		tumors & sterility redness & burns of the skin	c. mental challenges & fatigued. soft tissue tumors and anemia	
6.	The m	ost energetic electromagnetic radiation	on on the electromagnetic spectrum is	
		cosmic radiation infrared radiation	c. gamma rays d. visible light	
7.	An an	gstrom is a metric unit of length equa	al to of a meter.	•
		one two millionth one three millionth	c. one ten millionthd. one ten billionth	
8.	The er	nergy of an individual photon is meas	ured in units of	
		velocity wavelength	c. cycles d. electron volts	

9.	X-rays	s can cause chemical and biological chang	ges	in living tissue because of the process of		
	a.	ionization	C.	scatter		
		reduction		oxidation		
			-			
	apter 2 The co	2 oiled tungsten wire that provides electrons	s du	ring x-ray production is called the		
	a.	cathode	c.	anode		
	b.	filament		focusing cup		
11.	The re	volutions per minute of rotating anodes is	5			
	· a.	1,000 to 2,000	C.	3,000 to 10,000		
		500 to 2,500		300 to 1,000		
12.		ten is used in the target because it possess	ses	a		
	a.	high atomic number	c.	low heat storage capacity		
	b.	low atomic number	d.	limited capacity to produce scatter		
13.	13. The physical area of the target that is bombarded by electrons during x-ray production is					
		focal track		stator		
	b.	focusing cup	d.	focal spot		
14.	The ra	diation that results when projectile electro	ons	interact with K-shell electrons is called		
	a.	characteristic	c.	bremsstrahlung		
	b .	x-ray emission	d.	Compton effect		
15.	The po	ortion of the x-ray circuit that operates on	3 to	o 5 amps and about 10 volts is called the		
	a.	high voltage circuit	c.	low voltage circuit		
	b.	filament circuit	d.	rectification system		
16.	Electro	on flow from cathode to anode in the x-ra	y tu	be is called		
	a.	actual focal spot	c.	effective focal spot		
٠	b.	high voltage flow	d.	tube current		
17.	Beam	penetrability increases as				
	a.	mA increases	c.	kVp increases		
	b.	filter thickness increases	d.	kVp decreases		
18.	The ex	xposure factor that produces or controls th	ie n	umber of x-rays is		
	a.	distance	c.	kVp		
	b .	mA		distance		

19. The a	node angle typically ranges from				
a. b.	10 to 15 degrees 6 to 18 degrees		5 to 20 degrees 10 to 20 degrees		
20. Thick	er anatomic body parts should be position	ed	at the		
	cathode end of the x-ray tube head of the x-ray table		anode end of the x-ray tube transverse axis of a grid		
21. Total	filtration for x-ray tubes operating above	70	kVp in the United States is		
	1.5 mm of aluminum 2 mm of aluminum or its equivalent		2.5 mm of aluminum or its equivalent 3.5 mm of aluminum		
22. Failur	e of the rotor to rotate the anode will caus	e			
	pitting melting of the focal tract		uneven x-ray beam distribution damage to the cathode structure		
	Chapter 3 23. The reduction in energy of the primary x-ray beam as it passes through anatomic tissue is called				
	attenuation differential absorption		absorption braking radiation		
24. The pr	rocess of creating photoelectrons occurs w	vith			
	Compton effect scatter		exit radiation photoelectric effect		
25. The co	ombination of transmitted and scattered ra	dia	ation is called		
	secondary radiation absorbed radiation		primary radiation exit radiation		
26. Less the recept		era	acting with an anatomic part reaches the image		
a. b.	1 5		10 25		
27. The la	tent or invisible image is created by		radiation.		
	primary scatter		secondary		
28. The vi	sibility of recorded detail is also referred	to a	as		
	geometric properties sensitometric properties		brightness or density differential absorption		

29. T	he an	nount of luminanc	e (light emission) of a	disp	lay monitor is called	
		brightness contrast			density resolution	
30. In	crea	sing the penetratin	g power of the x-ray be	am	will	
		increases absorpt decreases attenua			decreases transmission increases attenuation	
31. A	film	image with few d	ensities but great differ	enc	es between them is referred to	as
		long-scale contra grayscale	st		low contrast short-scale contrast	
32. T	he te	erm used to refer to	the smallest object that	at c	an be detected in an image is	
		spatial resolution recorded detail			minification structural detail	
33. M	lisali	gnment of the x-ra	y tube, part, or image r	ece	ptor will produce	
		size distortion magnification			shape distortion minification	
34. Q	uanti	um noise will incre	ease when	***************************************	photons reach the image recept	tor.
		more fewer			scattered penetrating	
35. A	ny u	nwanted image on	a radiograph is called			
		fog quantum mottle			an artifact quantum noise	
36. T	he ra	nge of exposure in	tensities a digital imag	ing	receptor can accurately detect i	s called
		dynamic range scale of contrast			latitude brightness	
37. T	he sn	nallest component	of the matrix is called	a		
37. T		nallest component	of the matrix is called b. byte		bit depth d. pixel	
	a.	bit	b. byte	c.	bit depth d. pixel ee of blackness on a radiograph	is a
	a. he de a.	bit	b. byte	c. egr c.	•	is a

a. 0.50 - 2.0

b. 1.0-2.5

c. 1.5 - 3.0 d. 2.0 - 3.5

Chapter 40. As the		is increased, the expo	sur	e to the image recep	tor will
	decrease increase			remain the same decrease density	
41. A nur		ng the level of x-ray of	ехро	osure received by a	digital imaging receptor is
	scale of contrast exposure index			brightness reading exposure indicator	
42. The n	ninimum amount of	f change in mAs to ma	ke a	ı visible change in d	lensity is%.
a.	10	b. 20	c.	30	d. 40
43. Maint	taining or adjusting	exposure can be accor	mpl	ished by using the _	% rule.
a.	15	b. 20	c.	30	d. 40
44. Chang	ging	affects x-ray absorptio	n ai	nd transmission wit	h anatomic parts.
a.	mAs	b. kVp	c.	time	d. mA
45. The 1	physical dimension	s of the focal spot in x	-ray	tubes used in diagr	nostic radiography are
a.	0.5 to 1.2 mm	b. 1.0 to 2 mm	c.	2 to 3 mm	d. 1 to 3 mm
46. Incre	asing SID (source-	to-image receptor dista	ance	e) will result in	
	increasing spatial less structural det	resolution ail		reducing patient decreasing the ame	
47. Increa	asing OID (object-to	o-image receptor dista	nce) will result in	
a. b.	0 1			increasing magnifi decreasing magnif	
48. To m	inimize shape disto	ortion, the radiographe	r mı	ust keep the tube, fil	lm and patient
	perpendicular to operly aligned	each other		as close as possible horizontal to the ta	
49. The g	rid conversion facto	or for a 12:1 grid ratio	is		
a.	2	b. 3	c.	4	d. 5
50. A gre	eater amount of scar	ter will be produced w	vher	never	
a. b.	more tissue is irra	•		tissue volume increpatient thickness is	

51.	51. The body habitus described as normal or average build is						
	a.	asthenic	b. hyposthenic	c.	sthenic	d.	hypersthenic
52.	When	a fiberglass cast is	applied, exposure fact	ors	should		
		be increased be decreased			be changed by 4 k remain the same	Vp	
53.	Ascite	s is considered to b	oe a	(condition.		
	a.	destructive	b. additive	c.	life-threatening	d.	acute
54.	Bariur	n and iodine are co	nsidered		contrast agents	9	
	a.	negative	b. positive	c.	radiolucent	d.	dangerous
	Chapter 5 55. As beam restriction or collimation increases, the patient dose will						
		increase decrease by at lea	st 50%		will not be affected decrease	d	
56.	56. Significant collimation requires an increase in mAs of						
		30 to 50% 35 to 50%			40 to 55% 60% or more		
57.	The b	eam-restricting dev	vice that utilizes two or	r th	ree sets of lead shu	tter	s is called a
		flared extension of cylinder cone	one		collimator diaphragm		
58.	Anoth	ner term for an auto	matic collimator is				
		adjustable self-regulating			electronic positive beam-limi	ting	5
59.	A grid	d should be utilized	l whenever an anatomic	c bo	ody part measures		
	a. b.	5 cm or more 10 cm or more			15 to 20 cm 20 to 30 cm		
60.	The g	rid type that has a	convergence point is th	e .			
		parallel cross-hatched			wafer linear focused		
61.	The g	rid conversion fact	or when changing fron	n no	grid to a 16:1 grid	is	
	a.	3	b. 4	c.	5	d.	6

62. Misa	2. Misalignment of the grid in relationship to the primary x-ray beam results in								
	contrast improver grid cutoff	ment	c. increased density d. reduced patient dose						
63. The g	grid ratios typically	used in diagnostic rac	c radiography are						
a.	6:1 & 8:1	b. 5:1 & 10:1	c.	8:1 & 12:1	d. 10:1 & 12:1				
Chapter 64. A ph	6 otostimulable phosp	phor is used in							
	digital radiograph xerography	y (DR)		computed tomogr computed radiogr	2 0				
65. Bariu	65. Barium fluorohalide crystals coated with europium are found in								
a. imaging platesb. input phosphors			c. rare earth screens d. super fast screen speeds						
66. To p	66. To prevent fading, computed radiography (CR) plates should be processed within								
	a. 1 hour of exposureb. 2 hours of exposure			c. 4 hours of exposured. 8 hours of exposure					
67. Indire	ect conversion detec	tors use a scintillator	sucl	n as					
	lanthanum oxybro cesium iodide	mide		calcium tungstate gadolinium oxysu					
68. Direc	t conversion detecto	ors use amorphous			_•				
	silicon iodine			cesium selenium					
69. Increa	asing the SNR (sign	al-to-noise ratio) will		the	visibility of anatomic details.				
a.	increase	b. obscure	c.	decrease	d. distort				
70. The	most widely used ra	diographic film is							
a. b.	non-screen single-emulsion f	ilm		screen film blue sensitive film	n				
71. Sens	itivity specks are the	e site of							
a. b.	x-ray absorption latent image form	ation		positive ion forms film processing	ation				
72. The	emission of light fro	om the screens when s	stim	ulated by radiation	is called				
	photo-emission fluorescence			phosphorescence luminescence					

75. Screens with thicker phosphor layers with					
a. reduce patient doseb. decrease screen speed	c. increase recorded detail d. improve contrast				
Chapter 7 74. Representation of the number of pixel values ve	ersus the relative prevalence of those values is				
a. known as values of interestb. referred to as lookup tables	c. called a histogram d. considered an exposure indicator				
75. Brightness and contrast of the original pixel val	ues can be altered by a method using				
a. values of interestb. lookup tables	c. histogram analysisd. exposure indicators				
76. The recommended scanning for CRT monitors	is at leastlines at 1/30 of a second.				
a. 100 b. 200	c. 350 d. 525				
77. The display monitor for diagnostic interpretatio	n should have high-resolution withpixels.				
a. 2048 x 2560 b. 2048 x 4096	c. 2560 x 4096 d. 4096 x 4096				
78. Brightness in a digital image is controlled by					
a. window widthb. histogram analysis	c. window level d. exposure indicators				
79. A postprocessing technique that improves the v	isibility of small, high contract structures is called				
a. subtractionb. edge enhancement	c. contrast enhancement d. black/white reversal				
80. The communication standard for medical information	mation is known as				
a. picture archival and communication systeb. radiology information system	m c. hospital information system d. Health Level Seven standard (HL7)				
81. The chemical that is fast acting and produces gr	ay densities on film is				
a. phenidoneb. sodium sulfite	c. hydroquinone d. potassium bromide				
82. Temperature control in automatic processors is	provided by the				
a. mixing valvesb. external thermostat	c. immersion heaterd. dryer assembly				
83. A brown or thiosulfate stain results from					

a. exhausted developerb. inadequate washing

c. contamination of solutionsd. inadequate fixation

84. Silver recovery refers to the removal of silver fi	84. Silver recovery refers to the removal of silver from					
a. used developerb. replenishing solutions	c. wash water d. used fixer					
Chapter 8 85. The electronic device that converts visible light	t energy into electrical energy is					
a. an ionization chamberb. AEC detector	c. photomultiplier tube (PM)d. input phosphor					
86. Most of today's automatic exposure systems (A	AEC) utilize					
a. ionization chambersb. photomultiplier tubes	c. one AEC chamber d. excessive kVp to penetrate all parts					
87. Radiographers should note the mAs readout display so that they can						
a. write it down for documentationb. make adjustments for manual technique	c. perform all quality control tests d. tell the patient the dose					
88. The device that prevents the x-ray tube from reaching or exceeding its heat loading capacity is						
a. the rectifiersb. the ionization chamber	c. the rheostat d. the backup timer					
89. A critical factor for radiographers to remember when using an AEC system is to						
a. adjust time for disease processesb. always use high kVp	c. disregard SID d. select the correct detectr					
90. Density selections with AEC systems can be ac	djusted in increments of					
a. 25 to 50% b. 30 to 50%	c. 40 to 50% d. 10 kVp					
91. A critical factor for radiographers to remember	r when using an AEC system is to					
a. disregard collimationb. properly center the part	c. disregard using gonadal shieldingd. select all chambers for all exams					
92. A system using a preprogrammed set of exposu	are factors with visual anatomic buttons is called					
a. anatomically programmedb. anatomic adjustment	c. preprogrammed AEC d. anatomic AEC					
93. Baseline kVp should have 2 kVp added for ever	ry increase of patient tissue of					
a. 1 cm b. 2 cm	c. 3 cm d. 4 cm					
94. Variable kVp/Fixed mAs technique charts are	recommended for use with					
a. abdomen studiesb. chest radiography	c. small extremitiesd. gastrointestinal tract examinations					

a. recommended	c. diagnostic
b. optimal	d. useful
Chapter 9	
96. The amount of overall blackness o	n a radiograph is called
a. density	c. brightness
b. contrast	d. visibility
97. Variations in the brightness and de	ensity in both digital and film-screen imaging is called
a. exposure values	b. visibility
b. resolution	d. image contrast
98. Visible fluctuations in brightness of	or density on the image is called
a. scale of contrast	c. quantum noise
b. distortion	d. monitor flare
99. The vendor-specific exposure indi	cators using exposure index (EI) is
a. Carestream (Kodak)	c. Fuji
b. Agfa	d. Konica
100. Artifacts having greater density	y than the area of the image immediately surrounding then
a. minus-density	c. fog
b. plus-density	d. radiopaque
Match the exposure technique factor in receptors in Column B: Column A	n Column A that affects quality for film-screen image Column B
101. increasing mAs	a. decreased contrast
	1. in annual describes
102. decreased focal spot size	b. increased density
102. decreased focal spot size103. increasing patient thickness	c. increased recorded detail

Match the exposure technique factor in Column A that affects quality for digital image receptors in Column B:

Colu	mn A		C	olumn B				
106.	increasing mAs		a.	a. decreased contrast				
107.	increasing beam restric	tion	b.	b. increased contrast				
108.	patient motion		c.	decreased spatial	resolution			
109.	increasing kVp		d.	no effect				
110.	increasing SID		e.	increased spatial r	esolution			
	p ter 10 The milliamperage use	d in conventional fluor	osc	opy is				
	a. 0.3 to 5	b. 0.5 to 5	c.	1 to 10	d. 5 to 15			
112.	Exit radiation from the	anatomic area of intere	est i	nteracts with the				
	a. input phosphorb. photocathode			output phosphor electrostatic focus	ing lenses			
113.	Flux gain occurs when	accelerated electrons in	ncre	ease the light intens	sities at the			
	a. input phosphorb. photocathode			output phosphor electrostatic focus	ing lenses			
114.	Multifield mode is a sy	nonym for		mo	de.			
	a. magnificationb. intensification			spot minification				
115.	Loss of brightness arou	nd the periphery of the	im	age is referred to a	s			
	a. cropping	b. blurring	c.	dimming	d. vignetting			
116.	A light-sensitive semice	onducting device that g	gene	erates an electrical	charge is a			
	a. camera tube b. charged-coupled d	evice		rectifier image intensifier				
117.	The image intensifier is	capable of resolving		line pairs per i	millimeter.			
	a. 3	b. 4	c.	5	d. 10			
118.	Any residual exposure	charge from the previo	us 1	rame is referred to	as			
	a. "ghosting"	b. double exposure	c.	overlapping	d. spot filming			

119. Fluoroscopic tim	e should be monitored as	nd documented in _	minute increments.	
a. 1	b. 3	c. 5	d. 10	
120. Quality control c	hecks on fluoroscopic ec	uipment should be j	performed every	
a. 3 months	b. 6 months	c. year	d. 2 years	
	•		•	



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Answer Sheet for: Unit 36 Radiographic Imaging & Exposure by Terri L. Fauber

Date

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.

1.	11.	21.	31.	41.	51.	61.
2.	12.	22.	32.	42.	52.	62.
3.	13.	23.	33.	43.	53.	63.
4.	14.	24.	34.	44.	54.	64.
5.	15.	25.	35.	45.	55.	65.
6.	16.	26.	36.	46.	56.	66.
7.	17.	27.	37.	47.	57.	67.
8.	18.	28.	38.	48.	58.	68.
9.	19.	29.	39.	49.	59.	69.
10.	20.	30.	40.	50.	60.	70.

Please continue on the reverse side.

Answer Sheet for: Unit 36 Radiographic Imaging & Exposure by Terri L. Fauber

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.
72.	82.	92.	102.	112.
73.	83.	93.	103.	113.
74.	84.	94.	104.	114.
75.	85.	95.	105.	115.
76.	86.	96.	106.	116.
77.	87.	97.	107.	117.
78.	88.	98.	108.	118.
79.	89.	99.	109.	119.
80.	90.	100.	110.	120.