

Essentials of Sonographic Interpretation

MATCHING ITEMS

Question	Answer	Page	Answer	
KEY TERMS - WAVE PARAMETERS				
1	echogenicity	e	15	the ability of a structure to produce echoes
2	anechoic	i	15	absence of echoes within a structure
3	hyperechoic	c	15	increased echo level compared to adjacent tissue
4	hypoechoic	h	15	decreased echo level compared to adjacent tissue
5	isoechoic	d	15	the same echo level as adjacent tissue
6	focal	b	14	discrete, well-marginated areas of differing echogenicity
7	diffuse	g	14	indistinct, poorly marginated areas of differing echogenicity
8	cystic	j	15	anechoic, fluid-filled structure with posterior acoustic enhancement
9	solid	a	15	echo producing structure that may have iso-, hypo-, or mixed appearance
10	complex	f	15	structure containing both solid and cystic components

IMAGE LABELLING

Question	Answer		Image Source
1	c, e, g		abdominal wall lymphoma
2	a, c, d, f		renal cyst
3	b, d, g		large hepatic hemangioma
4	c, e, g		lung abscess
5	a, c, f		solid breast lesion
6	b, c, f		normal fetal bowel

FILL-IN THE BLANKS			
Question		Page	Answer
1		1	contour, internal echo pattern, focal vs. diffuse
2		1	attenuation, posterior acoustic, enhancement, shadowing
3		1	cystic, solid, complex
4		2	morphology
5		2	contour, internal echo pattern
6		2	contours
7		2	smoothly marginated, poorly marginated, well-defined, poorly defined
8		3	echogenicity
9		3	hyperechoic
10		3	hypoechoic
11		3	isoechoic
12		3	echogenic
13		3	anechoic
14		3	sonolucent
15		4	heterogeneous
16		4	homogeneous
17		5	diffuse
18		5	focal
19		6	attenuation
20		7	hyperattenuating
21		7	darker
22		7	posterior acoustic shadowing
23		8	calcium
24		8	posterior acoustic enhancement
25		8	fluid-filled structure
26		9	comet-tails
27		9	ring-down
28		11	cystic
29		11	distinct borders, anechoic interior, posterior acoustic enhancement
30		12	scattering
31		13	complex

MULTIPLE CHOICE QUESTIONS				
Question		Answer	Page	Answer
1		c	1	transducer selection
2		d	1	attenuation (acoustic physical interaction)
3		a	1	contour (structural morphology)
4		b	1	bright
5		c	2	morphology
6		a	2	contour, internal echo pattern
7		d	2	contour (structural morphology)
8		b	2	posterior acoustic enhancement
9		c	3	echogenic
10		a	3	the absence of echoes within a structure
11		d	3	anechoic
12		c	3	a relative increase in amplitude of returning echoes
13		d	3	a relative decrease in amplitude of returning echoes
14		a	3	hypoechoic
15		c	4	heterogeneous
16		d	4	homogeneous
17		b	5	diffuse (alterations evenly dispersed)
18		c	5	focal (discrete)
19		a	6	transmission
20		b	6	attenuation (scattering & refraction CONTRIBUTE to attenuation)
21		d	7	hyperattenuation
22		c	7	posterior acoustic shadowing
23		a	8	calcium
24		b	8	renal cyst
25		b	8	posterior acoustic enhancement
26		c	9	comet-tail
27		c	9	comet-tail
28		d	10	ring-down
29		a	11	fluid-filled
30		b	11	hyperattenuation
31		c	12	backscatter (reflection creates bright specular echoes not low-level that create tissue texture)
32		d	13	complex