Essentials of Sonographic Image Interpretation

REVIEW OF SONOGRAPHIC VOCABULARY TERMS

Match the following terms with their definitions

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

iso-,

IMAGE LABELING

Choose the sonographic characteristics that apply to the circled area in this image

IMAGE 1



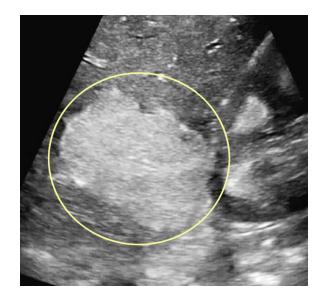
- a. ____ anechoic
- b. ____ poorly marginated
- c. _____ smoothly marginated
- d. ____ homogeneous
- e. heterogeneous
- f. ____ cystic
- g. ____ solid

IMAGE 2



- a. anechoic
- b. ____ poorly marginated
- c. _____ smoothly marginated
- d. ____ homogeneous
- e. ____ heterogeneous
- f. ____ cystic
- g. ____ solid

IMAGE 3



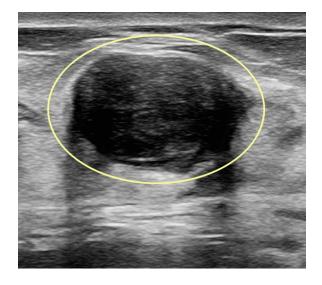
- a. ____ hypoechoic
- b. ____ hyperechoic
- c. _____ smoothly marginated
- d. ____ irregularly marginated
- e. ____ complex
- f. ____ cystic
- g. ____ solid

IMAGE 4



- a. ____ hypoechoic
- b. ____ homogeneous
- c. ____ heterogeneous
- d. _____ smoothly marginated
- e. ____ irregularly marginated
- f. ____ cystic
- g. ____ complex

IMAGE 5



a.	hypoechoic
a.	Hypoecholo

b. _____ hyperechoic

c. _____ smoothly marginated

d. ____ irregularly marginated

e. ____ cystic

f. _____ solid

g. ____ complex

IMAGE 6



a. ____ hypoechoic

b. ____ hyperechoic

c. _____ smoothly marginated

d. ____ irregularly marginated

e. ____ cystic

f. ____ solid

g. ____ complex

FILL-IN-THE BLANKS

1.	Assessment of the sonographic morphology of a structure consists of an analysis of, and
2.	Assessment of the acoustic physical interactions seen in a structure consists of an
	analysis of, and
3.	Sonographic structures refers to the overall are generally classified as
	,,
4.	refers to the overall appearance of an anatomic organ or pathologic
	structure.
5.	The global sonographic appearance of a structure consists of its external boundaries
	and shape and its interior architecture
6.	The of a structure refers to its shape, outline, or boundaries.
7.	Contour boundaries of a sonographic structure can be described as,
	,,,,
8.	The relative amplitude of the internal echo pattern is called
9.	A mass that is more echogenic than its surrounding tissue is called
10.	. A mass that is less echogenic than its surrounding tissue is called
11.	.A mass that has the same echogenic than its surrounding tissue is called
	·
12.	.A synonym for hypoechoic is
13.	.A structure that does not contain any echoes at all is called
14.	.A synonym for anechoic is
15.	A structure that contains a mix of hyperechoic and hypoechoic areas, would be
	described as
16.	A structure that appears uniformly echogenic, either hypoechoic or hyperechoic, is
	described as
17.	Alterations in sonographic appearance are dispersed evenly throughout a structure
	and typically represent histological changes that affect the entire organ are
	described as .

Essentials of Sonographic Interpretation

18.	. A sonographic finding that describes a region in a solid structure that is discrete,
	well-marginated and of differing echogenicity than that of the surrounding tissue is
	referred to as
19.	is the decrease in amplitude and intensity of a sound wave as it is
	transmitted through a medium.
20.	If there is an excessive loss of acoustic energy as it propagates through a tissue bed
	it is described as being highly attenuative or
21.	The notable characteristic, then, of hyperattenuating structures is that they appear
	on a grayscale image.
22.	. An exaggerated manifestation of hyperattenuation is a phenomenon called
23.	The most common source of a posterior acoustic shadow is the presence of
	in the tissue.
24.	is a physical phenomenon opposite to posterior acoustic shadowing.
25.	Posterior acoustic enhancement is strong evidence of the presence of a
26.	are a variant of conventional reverberation artifacts that originate from
	small, highly reflective interfaces that are too closely spaced to be resolved
	individually.
27.	artifacts result from an acoustic wavefront encountering small air
	bubbles trapped within a fluid collection.
28.	Fluid-filled structures are called
29.	.Classic sonographic characteristics of a simple cystic structure include,
	, and
30.	Echoes identified in solid structures typically result from
31.	are generally described as containing both cystic and solid elements.