

Ultrasound Worksheet

A Read the short text and complete the gaps with words from the box.

images investigation sound ionizing referrals transducer

Ultrasound examination uses high-frequency _____ (1) waves to view organs and structures inside the body. The waves are generated and received by a hand-held device called a _____ (2). The reflected waves are processed by a computer which produces detailed _____ (3) for display on a monitor. Ultrasound is safe as it does not employ _____ (4) radiation like X-rays. It is a cheap, quick and non-invasive _____ (5) – with no surgical procedure – for a wide range of _____ (6), although results can be unsatisfactory in obese patients.

B Video

0 *Adjectives review:* lateral, subcostal, intercostal, longitudinal, medial, mid-sagittal, superior, inferior, transverse, supine, decubitus

1 *Equipment:* ultrasound _____, a selection of _____, an examination _____, positioning _____ (wedge, sponges, _____), a chair, acoustic _____, examination _____, bed linen and _____, the sonographer's _____

2 *Before the procedure,* the patient should be well _____, have a _____;

3 *During pre-procedure stage,* you should:

explain to the patient the technique of **b**_____ **t**_____;

ask the patient to **l**_____ **s**_____;

expose the patient's **a**_____;

apply **p**_____ **-w**_____ acoustic gel to the upper abdomen;

select a transducer of the appropriate **f**_____;

c_____ the correct transducer selection;

perform a **s**_____ of the abdomen,

make any necessary adjustments to the machine's settings to **m**_____ the image quality

4 *Procedure:*

To scan the kidney, what are the most useful transducer positions?

When you rotate the transducer into an oblique plane, what do you ask your patient to do?

What is the liver used for/as?

How many separate longitudinal images do you take?

How do you measure the length of the kidney?

What is the function of the freeze button?

How many transverse images do you take? In which parts of the kidney?

What is colour flow used for? What can obscure the image?

C Grammar Point – Passive Voice Revision

A new ultrasound machine ¹ _____ (buy) for our hospital. The project ² _____ (start) three years ago and this time last week it ³ _____ (deliver)! The launching should have been last month, but it ⁴ _____ (delay) until the director was back from his holiday. The machine ⁵ _____ (finally / install) two days ago, and yesterday it ⁶ _____ (inaugurate) by the town mayor. The machine is very unusual and ⁷ _____ (design) by Dan Farley, one of the best in the UK. It has many functions and ⁸ _____ (use) by people from all over the county. A machine like this ⁹ _____ (need) in Moreton for a long time and ¹⁰ _____ (welcome) by the local people.

1 They have bought some new equipment.

Some new equipment _____

2 The sonographer told the patient to lie supine.

The patient _____

3 The doctor applied acoustic gel.

Acoustic gel _____

4 The nurse will give the patient a pillow to lie on.

A pillow _____

5 The doctor must take three images of the kidney.

Three images _____

6 He's going to print the images for later use.

The images _____