

Ultrasound

Ultrasound imaging is a technique used that involves exposing the body to high-frequency sound waves to produce images. Ultrasound images are captured in real-time, which enable physicians to evaluate the blood flow, the movement of specific organs, as well as, the structure of the organs. This is a non-invasive technique that provides a great deal of information to the physician.

Ultrasound technology has come a very long way. The techniques now can provide three-dimensional (3D) images, 3D images in motion and four-dimensional (4D) images. Many people think of ultrasound when a woman is pregnant, but ultrasound can be used for many diagnostic evaluations as well. Some applications include when a patient has swelling, pain or infection. If a physician needs to evaluate internal organs, ultrasound can also be used.

Doppler ultrasound is a special type of ultrasound that enables a physician to see the velocity and direction of blood flow. This special ultrasound can show blockages in the blood flow, narrowing of vessels, and even tumors.