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Ultrasound basics How does ultrasound work?¹. 1. High-frequency sound waves are transmitted from a transducer. 2. These sound waves are then reflected by different tissue types in different ways. 3. The

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reflected sound waves are then picked up by the ultrasound transducer.
4. The sound waves are then transformed into an image by special software.

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2 Basics of ultrasound. Ultrasound (as well as sound) needs a medium, in which it can propagate by means of local deformation of the medium. One can think of the medium as being made of small spheres (e.g. atoms or molecules), that are connected with springs. When mechanical energy is transmitted through such a

Medical diagnostic ultrasound - Biomedical Engineering - BME

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