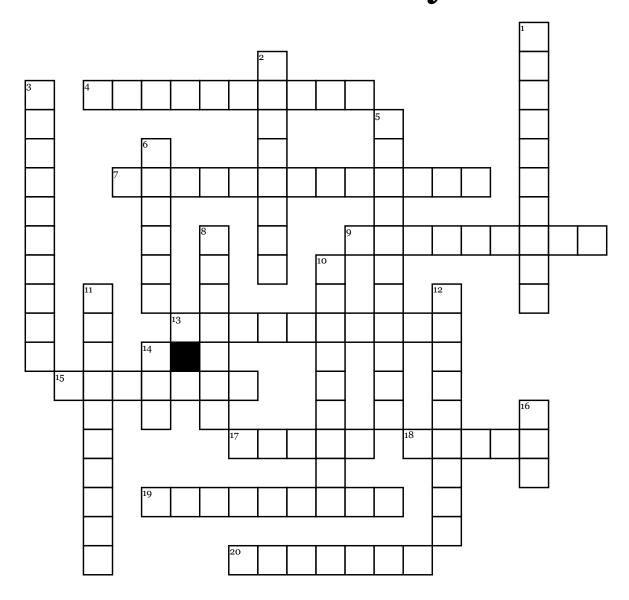
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Ultrasound Physics



Across

- **4.** Part of an imaging instrument that provides the pulse-delay sequences for transmit focusing and for dynamic receive focusing
- **7.** Converts all negative voltages into positive voltages
- **9.** Power divided by area equals
- **13.** The fraction of time that the transducer is actively producing sound energy
- 15. Data in discrete units
- **17.** Smallest building block of a digital picture

- **18.** Unit for frequency
- **19.** The science of identifying and measuring the characteristics of an ultrasound beam relevant to its potential to cause bioeffects
- 20. Units for pressure

Down

- **1.** Conversion of acoustic energy into heat
- **2.** Any echo signal whose displayed position does not correspond to the actual position of a reflector in the body
- 3. Less than 20Hz

- **5.** Reduction in the amplitude and intensity of a sound wave as it propagates through a medium
- **6.** The duration of a single cycle
- **8.** A transducer array consisting of ring-shaped piezoelectric elements arranged concentrically, along a central disk
- **10.** Type of "bubble-bursting" cavitation
- **11.** Temperature a PZT element becomes depolarized
- 12. Number of cycles per second
- 14. Acronym for "binary digit"
- **16.** Abbreviation for lead zirconate titanate