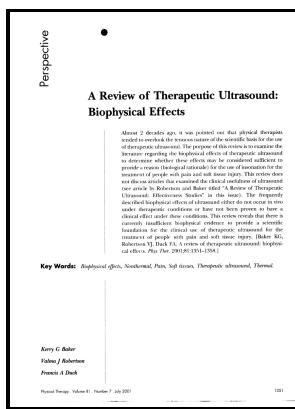


Ultrasound - its chemical, physical, and biological effects

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Notes: Includes bibliographies and index.
This edition was published in 1988



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Review of Therapeutic Ultrasound: Biophysical Effects

Unfortunately, there is no evidence to connect these 2 events. SL spectra and intensity were examined at four frequencies 205, 358, 618, and 1071 kHz and in the presence of varying argon and oxygen saturation ratios.

Ultrasound

Thrombus formation after ultrasound-induced endothelial damage was one of the earliest demonstrations of its biologic effects.

Ultrasound: Its Chemical, Physical, and Biological Effects, Radiology

In addition to removing the algae itself ultrasound can also degrade such toxins.

Suslick, K.S. (1988) Ultrasound, its chemical, physical and biological effects. VCH, Berlin.

For example, although Byl et al found increased collagen deposition following pulsed ultrasound treatment 0. Brief exposure to an ultrasound beam of similar intensity produced complete paralysis with destruction of neurons in the lumbar enlargement of intact frogs. One could postulate that humans are resistant to ultrasound-related biologic effects and, if at all such effects do occur, they are likely to be either quite subtle or of sufficient rarity to escape detection.

K. S. Suslick, "Ultrasound, Its Chemical, Physical and Biological Effects," VCH Publishers, Inc., Deerfield Beach, 1988.

A nonthermal mechanism of injury was proposed to be responsible for these effects.

The Physical and Chemical Effects of Ultrasound

Not only is mechanical trauma a known cause of mast cell degranulation, it can also cause increased passive cell membrane permeability.

Ultrasound: Its Chemical, Physical, and Biological Effects, Radiology

They reported that, in some cases, an intensity of 3. Reports of corneal endothelial damage secondary to the use of ultrasound during phacoemulsification have been attributed to the release of free radicals due to cavitation. Other effects have also been observed in *in vivo* studies, such as changes in the plasma membrane and in intracellular organelles such as lysosomes and mitochondria.

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