

Biological and Medical Acoustics

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RELATIVELY recent investigations show that acoustics has considerable potential value in studies of the structure and function of biological systems. Ultrasonic methods are now proving extremely useful for examining both the macro- and microstructure of such systems. Although gross effects of intense ultrasound on biological systems, such as many of those caused by cavitation, have been known for some time, it is only within the last few years that the development of more precise instrumentation for the production, control, and application of such intense sound has opened up new vistas which indicate that this form of energy will play a major role in the study of biological structures in the immediate future.

Since the application of acoustics in medicine is the result of fundamental research involving (1) the study of the physical mechanism of the action of the sound or the characteristics of its propagation in biological structures (tissue), (2) the determination of the site or sites of interaction in the structure, and (3) the utilization of this knowledge in fundamental studies (experimental animal work), this discussion on some of the unsolved problems in bioacoustics includes all of these aspects.

An acoustic field or acoustic energy may interact with a biological system in a variety of ways. The discovery of the manner in which such interaction occurs results in methods of accumulating information on structure and function in such systems. A single type of interaction or effect may be of predominant importance for a specific dosage range and a specific state of the system. For example, at very low intensity levels absorption or reflection of the sound may constitute the only important interaction of interest. However, at high intensities selective disruption of structure may be the primary effect of interest.

Figure 1 indicates in a simple schematic fashion the relation between fundamental research studies and ap-

plications. Everyone is familiar with this relationship but it is exhibited here in this schematic form since it is important to outline in this manner the current status of a number of problems (not an exhaustive list) in bioacoustics which are in various stages of development or solution. The following brief comments are made on the various terms appearing in the boxes of this figure. The term "physical mechanism" refers to the determination of the physical variable or variables which cause the observed effect of interest. For example, increased temperature caused by absorption may bring about the observed change in a biological system. A number of physical variables may be involved in the interaction and the

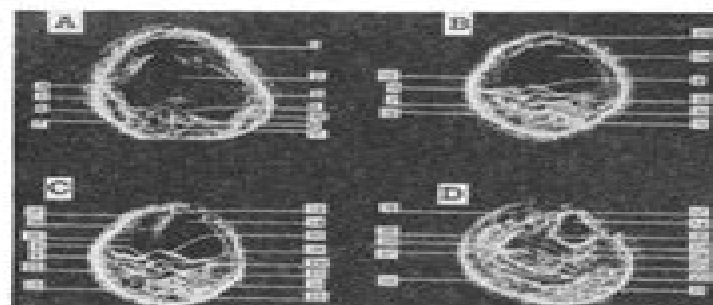


FIG. 2. Serial sonagram—left leg. A. Section through mid-patella, B. section 6.33 cm below A, C. section 1.27 cm below B, D. section 10.16 cm below C (mid-calf). 1. Patella, 2. femur, 3. medial epicondyle, 4. lateral epicondyle, 5. gastrocnemius tendon (lateral head), 6. biceps femoris M., 7. plantaris M., 8. popliteal artery, 9. popliteal vein, 10. sartorius M., 11. gastrocnemius M. (medial head), 12. gastrocnemius M. tendon, 13. patellar ligament, 14. tibia, 15. biceps femoris M., 16. semitendinosus M. tendon, 17. tibia anterior M., 18. extensor longus digitorum et hallucis, 19. sartorius gracilis et semitendinosus tendon, 20. fibula, 21. tibia posterior M., 22. soleus M., 23. plantaris M. tendon, 24. popliteus M., 25. small saphenous vein, 26. peroneus longus et brevis, 27. peroneal artery et vein, 28. posterior tibial artery et vein.

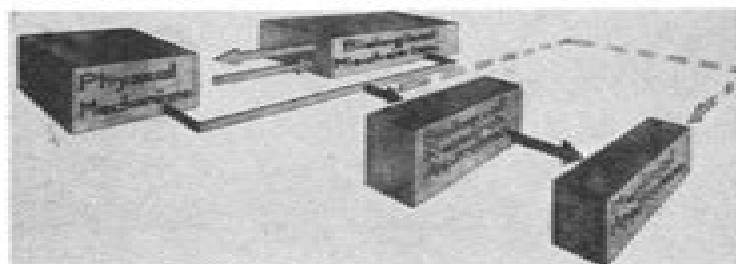


FIG. 1. Relation between fundamental research studies and applications.

isolation of the important ones may constitute a difficult problem. The term "biological mechanism" refers to the determination of the sites or substructures at which the sound affects or interacts directly with the biological structure (tissue) to produce the effect of interest. For example, intense ultrasound may disrupt weak bonds in giant macromolecules. The term "biological research applications" refers to the use of the interaction or effect to examine biological systems or to produce specific changes in such systems. If changes are produced the system is then examined for subsequent modifications

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