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New Device Measures Inaudible Action of Heart Muscles for Diagnosis

Inaudible vibrations of the beating heart muscle are being recorded and analyzed by a group of medical investigators at the Veterans Administration Center, Los Angeles with support of the Los Angeles County Heart Association.

Clarence M. Agrest, M.D., associate clinical professor of medicine, UCLA, is working with physiologists, surgeons, and electronic engineers, to develop a standard of recording the vibrations that may enable the practicing physician with proper equipment, to spot the very early stages of coronary disease that can eventually lead to a heart attack.

The equipment the scientists are using originally was developed for such mechanical problems as engine performance and wing-loading stresses in the aircraft industry.

The medical men found an analysis of recordings made with this sensitive apparatus have enabled them to isolate the distinctive vibrations from those made by the ejection of the blood, the snapping of the valves, and the movement of the heart in the chest. It is a combination of all these sounds, in a limited sonic range, that the physician hears with his stethoscope.

To establish the characteristic wave patterns that these heart-muscle vibrations make on the oscilloscope, the investigators are conducting a range of tests on patients and experimental animals.

They are recording and comparing the vibration waves made by normal hearts, and the hearts of patients who are known to have various types of heart

disease which affect the heart muscle.

The scientists are also inducing heart attacks of known severity in experimental animals, and then recording heart vibrations both as they occur on the outer wall of the chest, and directly on the surface of the heart muscle itself.

The three-year study is aimed at providing the physician with an instrument that shows how the heart muscle is actually functioning, and whether it is sustaining any damage because of depletion of blood supply caused by clogged arteries.

In diagnosing early signs of heart muscle damage, the investigators declare, the most skillful and experienced physician has to rely on a careful history and electrocardiograph tracing and has little else to aim him.

The investigators point out that methods now in use are adequate for diagnosis once chest pain and other symptoms have appeared, but incipient coronary

disease may not produce any symptoms. If diagnosis can be made at this early stage, it will afford a means of instituting early treatment for the prevention of future heart attacks, as well as to provide a sensitive method for evaluating the effectiveness of treatment.

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"WHO'S WHO" BUSINESS INDEX



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Would you like to be able to dive into your own pool for a quick dip or, leisurely swim any time you desire? A pool can be in almost everyone's backyard with Sun-Lite Pools' low, low starting price of \$1595, and lowered maintenance costs. The new type pool construction that Carl Guy, owner of Sun-Lite Pools, has chosen requires one-fourth the normal maintenance. The interior finish is permanent. It never needs refinishing. The special new heating unit cuts heating costs, helping to keep maintenance costs at a minimum year 'round. A Sun-Lite Pool requires only 10 days to complete, so if you call Sun-Lite Pools today, you still will have many weeks of good swimming weather to enjoy. The number is TE4-0024. If you would like to see one of their lovely pools completed, stop at their offices, located at 246 East Carson in Torrance, where you can see for yourself how lovely a Sun-Lite Pool is. A Sun-Lite Pool can be built exactly like the one you will see, or in any shape or size you would like. At Sun-Lite Pools, you will find a full line of additional equipment. Stop in today.



CHAN'S CHINESE FOOD TO TAKE OUT

Though we may not be chopstick experts, we all appreciate the delicate and delectable food of China when it is prepared by such master Chinese chefs as Sue K. Hom, owner of Chan's Chinese Food to Take Out. Chan, as he is best known, has had many years experience in food preparation. He has been chef of many famous hotels and restaurants in this area, including Don the Beachcomber, the Roosevelt Hotel, the Brown Derby, and the Beryl Hilton Hotel. At Chan's, 1819 South Catalina, Hollywood Riviera, he prepares all kinds of Chinese food. His barbecued ribs and barbecued pork are wonderful, just out of this world! Food is prepared to go by the dinner, Chinese family style (an extra treat for three or four orders), or you may order a la carte from the extensive menu. An exotic Chinese dinner makes very exciting party fare, and with Chan's help, it's easy to do, too. Chan's is equipped to prepare dinners to go for one, or for a party of 200. Dinner is ready for you to pick up and bring home any time from 12 noon until 9 p.m. every day except Monday! There is no tip or tax to worry about, either. So call FR 5-1590 or drop in at Chan's Chinese Food to Take Out, 1819 S. Catalina, Redondo Beach.

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