

# The EDG: diagnostic tool works as EKG for the feet

If your back throbs like crazy, it may be your feet that are to blame.

That is the bottom line of a science known as biomechanics, which means, simply, that the body's individual parts work together. Like a car whose wheels have been thrown out of alignment, the entire body is affected when one of its parts is impaired.

And that's where the Electrodynogram™ comes in.

A team of podiatric biomechanics specialists working on Long Island has developed the EDG after 12 years of study, and they say it may bring considerable relief to a society in which eight out of 10 people ache from the feet up, and only four out of 100 do anything about it.

To the observer, the EDG looks simple enough. It's a desktop computer, used in doctor's offices, which measures about two feet wide and 19 inches high. Tiny sensors are applied to seven key areas of the patient's foot, and a waist-pack recorder is strapped around the patient's body.

The patient walks around for a minute or so, while information regarding his foot movement, or gait, feeds into the waist-pack. The recorder is

then removed, plugged into the computer console and the information is transferred.

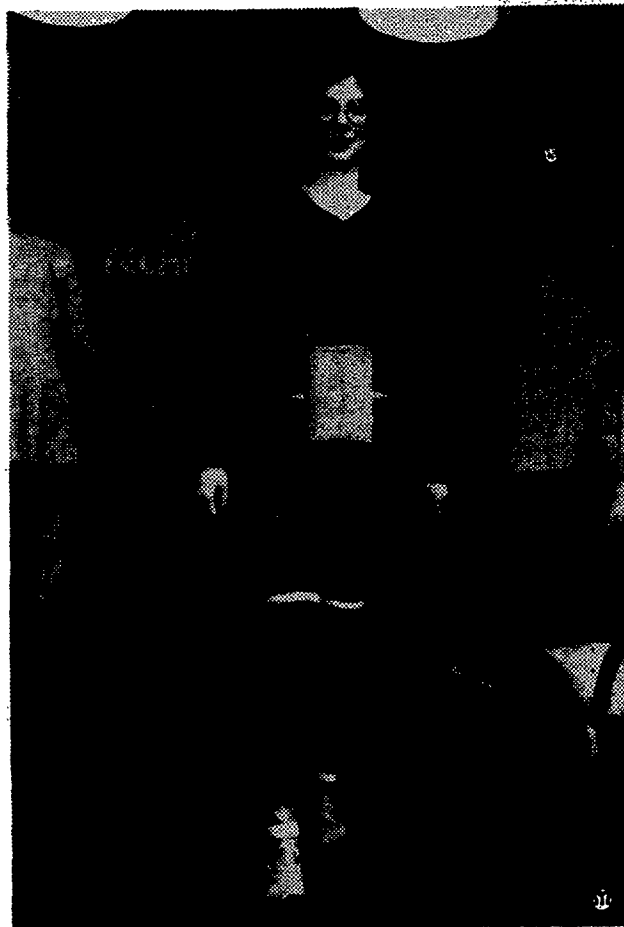
As part of the exam, the patient's medical history and vital statistics are entered into the terminal, which correlates it with clinical data.

In a minute or two, the computer spits out a long diagram of the patient's gait. Beneath the diagram is a chart of the patient's statistics and how they measure up to a perfectly healthy gait.

Finally, at the bottom, is a series of diagnostic considerations which the doctor can use to determine the final diagnosis and therapeutic treatment.

Researchers at The Langer Biomechanics Group, which invented the EDG, are confident their system will prove to be a breakthrough in the area of pain treatment, and that the EDG will take a place alongside the Electrocardiogram as an indispensable diagnostic aid.

"With millions of formerly sedentary Americans now caught up in the physical fitness craze, many are experiencing wear and tear symptoms," says Dr. Justin Wernick, co-founder of The Langer Biomechanics Group. "Tendonitis, ligament strains,



**WIRED FOR SOUND FEET** — Waistpack recorder, a component of the Electrodynogram™ (EDG), gathers information through electronic sensors attached to the patient's feet. Information is fed into the EDG and, in a few minutes, the doctor receives a computer printout listing diagnostic considerations and therapeutic suggestions. The EDG is a new development of The Langer Biomechanics Group, world's largest producer of custom orthotic devices.

heel and knee pain all may stem from foot-related problems."

According to Dr. Sheldon Langer, president of The Langer Biomechanics Group, the EDG will enable doctors to prescribe more specific therapy because they now have more precise information, and to measure the progress of that therapy by comparing previous EDG diagrams with subsequent results.

The EDG was designed not only for chronic, hard-to-diagnose cases, but for the weekend athlete, the senior citizen with muscle aches, or even the socialite whose feet throb from stylish, but tight-fitting, footwear.

The Langer Biomechanics Group was founded in 1970 to

develop foot care for modern lifestyles, and Dr. Langer says his EDG system represents a breakthrough that far exceeded his initial expectations.

"It's a gem," says the former podiatrist and educa-

tor. "This is no minor discovery, this is a great achievement."

The Langer Biomechanics Group offers a free brochure, entitled "The Autobiography of a Pain: Your Feet and the

EDG," and a number of other booklets on foot care. You can receive them by writing to: The Langer Biomechanics Group, Inc., Dept. M, 21 East Industry Court, Deer Park, NY 11729.

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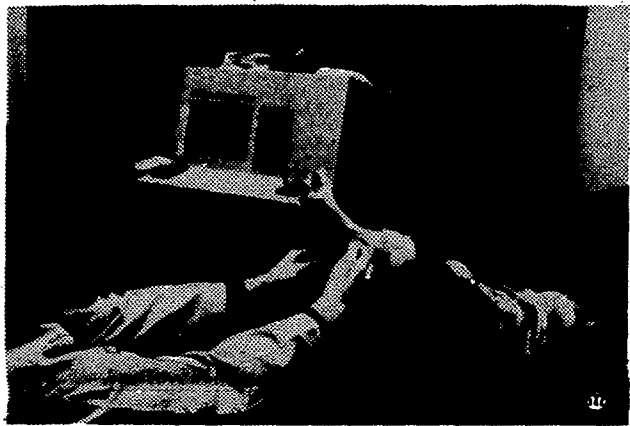
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**FIRST STEP IN FOOT DIAGNOSIS** — Lab technician for The Langer Biomechanics Group, developer of the Electrodynogram™ (EDG), connects sensors to a patient's foot. Langer sees the EDG as a major biomechanical breakthrough, that will become for the diagnosis and treatment of foot problems what the EKG is to cardiovascular diagnosis.

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