Embolisms avoided

Intravenous balloon guards against clots

United Press International
ATLANTA — One of the most common killers of hospital patients is the pulmonary embolism, a massive blood clot that can move quickly from the legs to the lungs, shutting off oxygen to the

Now, surgeons have a new weapon against this recurring complication in seriously ill pa-tients — a small latex balloon surgically implanted near the heart. The device, according to its manufacturer and surgeons who have used it, has been 100 percent effective in preventing blood clots from reaching the lungs.

Called the Hunter-Sessions vena cava occluder, it was successfully tested in 85 patients over a period of nine years at the Rush-Presbyterian St. Luke's Medical Center in Chicago.

Similar results were obtained in trials with 12 other patients over a two-year period, conducted by Dr. Donovan Stiegel,

Lutheran Hospital, Moline, Ill., and Dr. James Duesman of Rush-

Articles describing the device and the results of its clinical use were published by the physicians in the Journal of the American Medical Association, the Annals of Surgery, Archives of Surgery, and Contemporary Surgery.
It was developed by Dr. James

A. Hunter, a cardiovascular surgeon of Chicago, and Robert Sessions, a biomedical engineer. Concept, Inc., of Clearwater, Fla., a manufacturer of surgical devices, recently acquired rights to make and market the occluder. The firm put it on display here at a recent convention of the Associa-

tion of Operating Room Nurses.
Life-threatening blood clots in
the veins of the legs and pelvis
occur frequently when individuals, particularly older people, come down with phlebitis, a vein inflammation. An estimated 600,000 cases of phlebitis are recorded annually in the United

The blood clot threat in most of these 600,000 can be handled successfully with the administration of anticoagulant drugs that thin the blood and break up or prevent clots. But an estimated 30,000-40,000 patients, because of age or poor medical condition, are candidates for the occluder

Hunter, writing in Contemporary Surgery, described the step-by-step procedure for im-planting the balloon occluder. He said use of it was indicated in patients who are poor candidates for major surgery requiring general

Using a local anesthesia, the balloon is attached to a 30-inch catheter, a slim tube, and inserted through an incision into the internal jugular vein. The catheter is passed through the right heart chamber and into the inferior vena cava, another part of

the heart. Its progress is followed by fluoroscope into the right iliac

After correct positioning is assured, the balloon is inflated with a liquid that flows through a hollow needle inside the catheter. The balloon is then detached and the catheter withdrawn.

Tiny, secondary veins take over the work of the blocked, or occluded, vein, bypassing the blood around the obstruction and into the lungs and heart.

The operation requires about 25 minutes, compared to the old 21/2-hour surgery under general

The balloon stays inflated for 18-24 months and after that gradually becomes a fibrous part of the vein itself, continuing its clotblocking function.

Robert Musmanno, a Concept official, called the balloon-type occluder "a new technique for an old procedure."

Symphony orchestras are now big business

United Press International NEW YORK — The Indianapolis Symphony had a \$400,000 profit last year and its \$5 million endowment campaign was oversubscribed by \$1 million — a financial performance many commercial businessmen might envy.

Although a symphony orchestra is seldom thought of in business terms, Ralph Black, chief executive of the American Symphony Orchestra League, says the Indianapolis orchestra's financial success is just the most recent and most dramatic

Black said a number of top orchestras in the country have built up substantial endowments and are big business operations. He cited the New York Philharmonic and the orchestras of Boston, Chicago, Cincinnati, Cleveland, Philadelphia, Pittsburgh and Minnesota as outstanding business enterprises.

Black said there are 1,540 symphonic orchestras, both professional and amateur, in the United States. Sixty of these are really big league and 379 are college and university

symphonies.

The Indianapolis orchestra was started in 1930 by 60 unemployed musicians. Their jobs had been wiped out by the first chill winds of the Great Depression when movie theaters, then the chief employers of orchestra musicians, turned to can-

Led by the late Ferdinand Schaefer, an immigrant from Germany, the infant orchestra was able to mount only three or four concerts a year and share the box office receipts, as little as \$3 a man on occasion, with no pay for rehearsal.

Today the orchestra has an endowment of \$10.5 million and in the last few years it has reached top rank under musical director John Nelson,

according to the Symphony League's Black. As early as 1951, the late famous musicologist, Deems Taylor, said Indianapolis was one of the 10 best symphonic orchestras in the

It has had only four musical directors in its half-century history. One, Fabien Sevitzky, a Russian emigrant, was a nephew of Sergge Kous-sevitzky, the famous Boston orchestra conductor. He shortened his name so as not to trade on his uncle's

The orchestra is a community venture in the Hoosier state. Everyone is proud of it. Like other top-flight symphony orchestras, it operates on three audience levels, the regular classical concerts, a series of pop concerts and a program of concerts for young people.

Running a modern symphony not only is big business, it is highly com-

A symphony orchestra must make recordings, it must travel around the country and sometimes even abroad. and it must appear now and then on

It has labor problems — the Indianapolis orchestra has had one musicians' strike — transportation, insurance, tax, accounting and legal problems like any business. Its personnel and public relations hazards are formidable since musicians, like most artistic people, tend to be temper-

Management's biggest challenge, however, comes in competing for top musicians to fill its chairs, for top notch singers and instrumental soloists, for famous guest conductors and in selecting programs that are artistically solid and will please the

GM develops computer to help repairs in future

United Press International
DETROIT — Imagine a computer em that introduces a motorist to auto mechanic and then helps

ain what needs fixing: You drive up to the service area of car dealership, the door rises omatically and you enter. The ervice writer walks up to the car ith a repair order already in hand grain earing your name and the car's ser-

ce records. ou complain the car is making an s of mdd noise, so the technician takes to a nearby computer terminal d sets it to investigate problems

ivolving sound.

ne this It displays a picture of a car and not contrough a series of questions helps am, an arrow the problem to a loose power ering pump belt.

hese are service concepts deoped by General Motors Corp. at may become standard in the to dealership of the future.

We work in the future, developing methods and equipment that will nable our dealers to offer better serice, "said S. Ted Parker, director of evelopment Center.

ome of the items that were conts a few years ago are going into ice now and, as the use of comers grows, more of these concepts come realities. Some may never

past the concept stage The customer recognition system ready is undergoing a feasibility udy at GM's Service Development enter in Warren.

nsmitter installed on the car by and B ie dealer. As the car is driven up to service door, it is activated by a ote sensing device and transmits vehicle identification number to dealer's computer. Before the driver shuts off the en-

e, the computer will have printed the car's maintenance history, oming scheduled maintenance any outstanding recall cam-

GM says the same thing might be omplished by using a bar code—familiar series of wide and narlines on packaged foods — that be read by a computer. The bar could carry the automobile's ntification number, which would e computerscanned upon entry to

A simple premise guides research the system to help motorists debe car troubles - once a sympis accurately described, there is

a set of most probable causes, GM

The system, which GM says is in the advanced concept stage, has been dubbed TOUCH — for Touch-Operated Universal Communica-

tions Helper.
In its final form, GM said, it could be used by the customer to prepare a repair order to leave with the vehicle if it is dropped off at night or early morning before the dealership opens similar to the 24-hour tellers banks now use.

Other service concepts are:

— A Service Order Scheduling System, which uses a computer to ensure that mechanics and shop facilities are being used at 100 percent efficiency, compared with an average shop efficiency of 85 percent. It already is in use in a number of large

- The Automotive Service Analyzer, a portable tester using a microcomputer to diagnose air conditioning, cooling, electrical and automatic transmission systems. Its prime feature is that repair instructions are flashed on a message display.

AIM STUDY ABROAD AIM ST

MONDAY, APRIL 14, 1980
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400 Overseas Job Opportunities Available
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opportunities available overseas. Several former Peace Corps participants will be
Present for questions and answers.

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A representative from AIFS will be on campus to give an overview of the Institute.
He will be available throughout the day (table, First Floor of MSC) to meet
individually with interested students.

The focus on the future hasn't been limited to service techniques and tools. GM recently sponsored a project at the University of Michigan College of Architecture and Urban Planning to improve the overall design of auto dealerships and adapt them to different settings.

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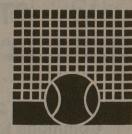
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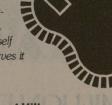
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