'Liken this condition to that of a car running

badly,' Dr. Thrall says. 'It seems to be okay until you accelerate, then the engine may miss

and sputter, perhaps stall — a heart attack."

U-M uses camera to monitor heart attacks

At University of Michigan Hospital, the newest star of the silver screen is the human heart. By watching it perform, U-M physicians can identify both real and potential heart attack victims more quickly and accurately and at

form, U-M physicians can identify both real and potential heart attack victims more quickly and accurately and at less cost than ever before.

The computerized device which takes the motion pictures of the heart is called the "nuclear isotope gamma camera." Armed with four such cameras and four computers, James H. Thrall, M.D., and his colleagues run one of the nation's most versatile and comprehensively equipped cardiac diagnostic units.

According to Dr. Thrall, U-M associate professor of internal medicine and radiology, the new unit furnished improved care both for victims of heart attacks and those who might be headed for one.

for one.

"In the instance of a patient rushed to the hospital unconscious or with seto the hospital unconscious or with se-vere chest pains, the gamma camera helps us identify a heart attack in less than an hour," notes Dr. Thrall. "One day, sometimes two days, may elapse

before the same conclusions can be reached through traditional tests alone, such as the electrocardiogram (EKG) and blood enzyme analysis.

He says the gamma camera does not affect emergency care because these symptoms are so dangerous that the assumption must be "heart attack," and treatment begun at once. But an early confirmed diagnosis of a erious heart attack allows more aggressive use off future reits, such adving which the heart of the state of the

The camera is positioned directly above the patient's heart. A harmless redioactive "tracer," to which the camera is especially sensitive, is injected into the arm. The tracer mixes with the blood and journeys to the heart, where it is absorbed by healthy heart, thory all absorbed the tracer-tagged blood evenly control of the blood and journeys to the heart, where it is absorbed by the state of the tracer-tagged blood evenly control of the blood event in the patient peddles with a minimum of disconfort, is one of several important to remain focused on the heart while the patient peddles with a minimum of disconfort, is one of several important to the patient peddles with a minimum of disconfort, is one of several important peddles, the beart of a person with CAD may income the blood and the patient peddles, the heart of a person with CAD may income the blood and the patient peddles, the heart of a person with control of the blood has normal heart works better in this situation, arteries sunply ample blood. In a victim of

works better in this situation; arteries supply ample blood. In a victim of

CAD, however, the stressed heart doesn't work better. In fact, its functioning may deteriorate."

Again, the gamma camera will project either a whole, healthy heart that has abundantly absorbed tracertagged blood, or a splotchy image indicating inadequate blood supply.

"Liken this condition to tabt of a car engine that's running badly." Dr. Thrall says. "It seems to be okay until you accelerate, then the engine may miss and sputter, perhaps stall — a heart attack."

Another test, in which the radioac-tive tracer Technetium is tagged to red blood cells, illuminates blood within the heart's hollow chambers. This gives the heart's hollow chambers. This gives doctors a slightly different picture of the beating heart and shows them how efficiently it functions as a pump at rest and during exercise. Technetum scans also can be used to diagnose heart attack and coronary artery disease and is superior to radioactive Thallium in evaluating how much heart. An experienced reader of such imag-

es can make a diagnosis after a few minutes' observation, he says. To assure ready availability for those who may need it most, the new unit has been situated among three intensive care units at University Hospital. Two of the cameras are portable and can be brought to the bedsides of patients too ill to be moved. On an out-patient basis, coping with coronary artery disease (CAD) is a primary mission of the unit. "Not only is CAD the leading cause of death in this country, but fully one-

Monday, November 17, 1980

quarter of these daths are sudden, eliminating any chance of treatment."
Dr. THrall points out. "Therefore, the development of a reliable screening process to spot CAD before it surfaces as a heart attack has been a major national health goal."

Tapping the interdisciplinary resources of nuclear medicine, cardiology, physics, engineering, and nursing, the UM team has devised a system that Dr. Tifrall estimates will pinpoint CAD with an efficiency of about 95 percent.

'People mover' on display

Shoppers and workers in downtown public an opportunity to comment on Detroit Tuesday can see a display on the proposed Downtown People Mover by the Southeastern Michigan Transportation Authority (SEMTA).

The nanolus mouse is one alement in The n

the proposed Downtown Propus lawns by the Southeastern Michigan Transportation Authority (SEMTA).

The display will run from 11:45 a.m. the people mover is one element in SEMTA's 1990 regional public-transit on 1:30 p.m. in the Woodward Room of the Book Cadillae Hotel, Michigan Ave SEMTA staff members will show movie, sildes and scale models. The main presentation will run from 12:15-12:45 p.m. but visitors may come and go throughout the open house. Coffee and cookies will be served.

SEMTA General Manager Larry Salci said the open house will "offer the downtown, stopping at 13 stations.

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