## System scans inside patient

Part of the rising cost of hospitalization has been attributed to advanced technological treatment and diagnostic systems and the fact that often hospitals buy much of this equipment individually rather than sharing these advanced systems. Nonetheless, a medical diagnostic system that combines which reputationally respectively and the system that combines which reputationally appears of internal body structures and organs was on exhibit earlier this month at the Ramada Inn in South-field.

and organs was on exhibit earlier this mount at the Ramada Inn in South. The system, called Synerview, was, during its early July stay, available for visits by physicians and medical technologists.

Synerview is a computed tomography (CT) system. CT is considered a rapidly growing field in diagnostic imaging because it produces information not usually available without physically going into a patient's body. It uses a computer to process x-ray generated data and control—on a tell wision screen—an image representing a "Stice" of the patient's body. The unit completes a patient scan is seen the data and in 30 arts the CT of the patient's body, but the complete system's manufacturer and a maker of medical diagnostic and therapy equipment, claims there is no more discomfort than in an ordinary

corner of Middlehelt



A specialist views an internal body image produced by the CT unit. CT uses  $\mathbf{x}$ -ray and combody organs.

chest x-ray and that the amount of radiation is about the same.

CT IMAGES ARE produced by the detection of differences in the density of body tissues. The images permit occurs to determine the exact size and location of organs and other masses. Data on tissue density also is valuable in diagnosing many disorders.

orders.
Several scans are generally used for a diagnosis. These consist of a series of "slices" very close to each other. The series can be shown in rapic suc-

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Seray and com- body organs.

ession on the TV screen to lend depth to the visualization. The system, its makers say, can be used for either brain or body scans. The operator can zoom in on a portion of an image or specific segments of an image can be intensified. Synerview is priced at \$25,000 cp. pitche in third locs, Picker Corpspokesmen suggest that many coupers, of the control of the control of medical care by providing more accurate diagnosis, elimination.

nating the need for some types of ex-ploratory surgery and shortening hos-pital stays.

In simplified terms, CT consists of an x-ray unit, detectors, a computer and an operator's console with TV screen. The x-ray tube and detectors are mounted inside a cabinet with a large opening. The patient is posi-tioned through the opening so that the solds of the precise body area to be examined.

#### Area students on dean's list

Three Southfield area students wera among 229 Kalamazoo College stu-dents named to the school's spring quarter dean's list.

They are Kenneth Kroot and Neil

Zusman of Southfield and Stephen Bau-rer of Lathrup Village. Students who have achieved a grade-point average of 3.5 or higher are eligible for the dean's list, which is issued at the end of each quarter.





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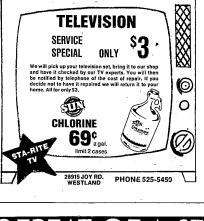
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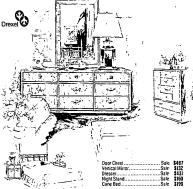
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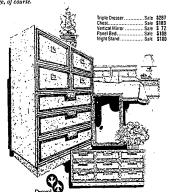




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