## Nuclear medicine searches out disease

Systems waise well as the statis writer as a certain type of isotope for each organ," she added.

No doubt about it. The words nuclear redictine bring ominous images to most clear predictine bring ominous images to most composition of the sophisticated recedures, however, the isometic production of the sophisticated recedures, however, the state of the supplementation of the supplementation of the supplementation of the supplementation of a radiation dose is malimal."

In fact, Nowitzke said, a patient is supplementation in success medicine procedure them the supplementation is a supplementation of a radiaction dose is malimal."

In fact, Nowitzke said, a patient is exposed to much less radiation in a nuclear medicine procedure than with traditional Xx-ray.

The procedure begin with an injection of a radiactive isotope. The particular isotope used depends on which supplementation is desired, also said. When equilibrium to or cannot be examined. In preparing for a liver scan, for eximple, "everytime it goes through the socially in nuclear medicine, when equilibrium is attained, the full the supplementation is desired, also said.

collimeter which allows only the radia-tion coming from a specific organ to be detected.

"The gamma camera which is not a camera in the traditional sense counts the nuclear emissions from the organ being studied," Dr. Morse said. "The camera actually is a detection sys-tem."

tem."

TECHNOLOGISTS ALSO use a computer for additional data gathered about the function and structure of the patient's organ. Together, both the pictures and computer data provide a total diagnosis of the organ.

Depending on what a patient's problem is, the pictures taken with the garma camera will show hot or cold spots of radiation.

About spot occurs when at monormal area of, asy, the brain roll about a property of the compound for the pictures taken the compound feedings in the normal tissue of an organ, which in turn abows that the abnormal sections of the organ are not functioning.

While radioactive isotones are being patient's organ. Together, both the pictures and computer data provide a total diagnosis of the organ.

Depending on what a patient's problem is, the pictures taken with the gamma camera will show hot or cold spots of radiation.

A hot spot occurs when the nuclear compound localizes in an abnormal area of, say, the brail or bones. A cold spot occurs when the compound localizes in the normal tissue of an organ, which in turn shows that the abnormal sections of the organ are not functioning.

While radioactive isotopes are being when the material is of the probatic state. "Endiagethy is an untable state," its able when the material is not provided the said. "It's stable when the material is not provided to the said. "It's stable when the material is obey, it stable when the material is obey, it stable when the material is obey, it stable when the material is not provided the said. "It's stable when the material is not provided to the said. "It's stable when the material is obey, it stable when the material is obey it is said. "It's stable when the material is obey it is stable when the material is obey. It is stable when the material is obey it is said. "It's stable when the material is obey it is said." It's stable when the material is obey. It is said to dear. The material is obey it is a stable when the material is obey. It is all the material is obey it is all the material is obey. It is all the material is obey it is all the material is obey it is all the material in obey. It is all the material is obey it is all the material is obey it is all the material is obey it is all the material in obey. It is all the material is obey it is all the mat

used, patients have little to worry about, Nowltzke said. They will not glow in the data said. They will not glow in the data said. The injection doesn't cause difficulties. They (isotopen) are not drugs. They are chemicals but don't cause any problems. The patient can walk out the door and drive bome."

In fact, the radioactive isotope does not remain in the patient's body. That's why technologists prefer using technicum because it has a "short half-life," Nowlike said.

Nowitzke said.

What physicians fove about the tool is its versatility and its low percentage of error in diagnosis.

"We can image aimost any organ," as ead, referring, for example, to the brain, liver, spleen, heart, kidneys, thyrioid and skeleton. In addition, nuclear medicine can be used in blood flow studies (of how the blood travels) through the brain, legs, pelvis and bones.

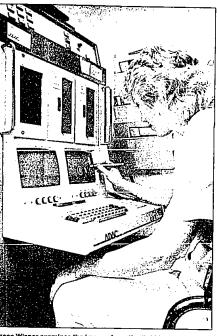
hormonal levels which can be done by withdrawing blood from a patient and putting a radioactive isotope into the blood. That prevents the need of injecting the isotope into the patient. But the diagnostic tool has expanded its uses even more to include checking for trauma, such as when a patient is brought in with what emergency room physicians may guess to be a ruptured spicen.

RATHER THAN spending perhaps

Please turn to Page 7



Doctor Stephan Morse adjusts the picture that is formed by low level radition emitted from the patient's organ which has been in-



Grace Wisner examines the image of a patient's kidneys,

## INSIDE

Know someone doing something notable? Let us know. Write: Inside Angles, Farmington Observer, 23352 Farmington Road, Farmington

CHRIS ZIELGER of Farmington Hills has been cited at Madonna College for 10 years of service. Sister Mary Francilone. CSSF, awarded the President's Citation to Ziegler for his work as admissions counselor, director of admissions, director is the career resource center and as current director the career resource center and as current directors.

MARK GROVER, son of Mr. and Mrs. Ned Grover of Northville and a 1982 graduate of Parm-ington High School, is a member of 1944 men's swim team at Albion College. His best effort, against Alma College, was wimming the 100-yard butterfly in a time of 88:29. Albion, a charter Michi-gan Intercollegate Athletic Association member, is coached by Jeff Deikeme. Albion's Dean Aquatic Center will be the host site for the 1984 MIAA Championship Swim Meet.

KATERHINE A. HEWES, daughter of Mr. and Mrs. Thomas Hewes of Farmington Hills, was named to the dean's list at Ablon College. Katherine is presently studying in Madrid in a program through Ablon College's affiliation with New York University in Spain. She is a junior majoring in Spanish and communications.

GEORGE AND MARY Bowman, frequent GEORGE AND MARY Bowman, frequent visitors to Japan, will team up to present the program for Farmington Men's Club this month. He will speak on "Life and Culture of the Japanese People." Her accompanying exhibit will be comprised of the Zen Art known as Sumi-E. The event begins at noon Thursday, Feb. 16, in Farmington Community Center. Reservations are necessary and may be made by calling the center, 477-8404.

INTERNATIONAL INSTITUTE is looking for women handy with needle and thread to help sew ethnic costumes for dolle that will be displayed in the institute's 1984 Hall of Nations showcase. The sewing bee is set for Saturday, March 17, when hall-finished dolls and costumes will be waiting for the volunteers' finishing stitches and creativity. Judith Kiefer will spell out the details. She can be reached at 871-8800.

VOLUNTEERS who enjoy meeting the pub-lic are needed to help the American, Red Cross in the cellection of blood in Oskiand County. The Red Cross cellects, processes and distributes blood and blood components for hospitals in Oskiand, Wayne, Macomb, Washtenaw and St. Clair counties. More than 100 volunteers are needed every day of the year except Christmas and New Year's to belp Red

Cross collect the \$00 to 1,000 units of blood required to meet the community's blood needs. Volunteer activities include registering blood donors, is-beling blood collection bags, and assisting donors following the donation. Volunteers are needed to assist for a minimum of six hours a day, one to three times a month on bloodmobiles at various locations, and at the Red Cross donor center at 25900 Greenfield in Oak Park. To volunteer, or for more information, call \$682-2255.

IN RECOGNITION of Children's Dental Health Month, Dr. Robert Coleman of Farmington Dental Center, 33409 Grand River, is sponsoring a dental health awareness program free for kindergarten age children during February. The program will include a cleaning and examination of the child's teeth and instruction of proper toolbrush technique, with emphasis on identifying plaque and its removal. Toothbrush kits will be given to each child.

Parants may call Rena Swanson, program coor-

its removal. 1000a07usn sus with the given to each child.

Parents may call Rena Swanson, program coordinator, at 478-5749 Monday through Friday between 9 a.m. and 12 p.m. and 2-5 p.m. to make appointment reservations for their children. Office tours for nursery and preschool classes are also available upon request.

AVAIRANCE OF THE RESEARCH AND A CAROLE OF THE ANALYSIS OF THE ARMS AND A CAROLE SOFT AND A CAROLE OF THE ARMS AND A CARO

CONGRATULATIONS to Jeri Corell of Farmington Hills on her recent promotion. Jert is now secretary to Robert Stemple, the new director of GM's Bulck, Cadillac and Oldsmobile Group. Her promotion entailed a move from the General Motors Building to the Renissance Building.

tors Buidling to the Renissance Building.

PAULA INMAN of Farmington Hills was awarded reserve standing in the Jumper class of the Jumper diston at the Jumper diston at the Michigan Hornes Show Association's annual awards banquet. The banquet, led at the Sheration Casks in Novl, honored many of Michigan's most skilled horsemen. Award recipients received distinctive goblets, medals or trophies and, of course, the warm congratulations of their peers. For more than 50 years the MHSA has served as a foundation for the Michigan horse show industry.

served as a foundation for the Michigan horse show industry.

MARY CLANCY of Farmington was recentified by the American Red Cross, Southeastern Michigan Chapter, for her volunteer service. She is one of the top six volunteers in southeastern Michigan honored by Red Cross for her hours of service during 1983. She Joined Red Cross as an "open heart caller," which was someone who solicited blood donations for open heart surgery patients. Mary is currently the blood enter staffing chairman for the Northwest Regional Office in Livenia and also works with that region's Red Cross so youth volunteers. Before Joining Red Cross as a volunteer, she worked for five years as a volunteer in the emergency room of Beaumont Hospital in Royal Oax.

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Home Sale ends February 29

