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I.U. PIONEERS IN ULTRASOUND BREAST CANCER DETECTION

An ultrasound scanning instrument specifically designed for routine examination of the breast is now installed in the Regenstrief Institute for Health Care at the I.U. Medical Center. This promising diagnostic instrument may assume added importance in the light of the recent decision by the National Cancer Institute not to recommend x-ray mammagraphy as a screening device for women under 50 years of age.

According to Dr. Elizabeth Kelly Fry, an associate professor with the School of Medicine and a research scientist with the Indianapolis Center for Advanced Research (ICFAR), this instrument is the first of its type to be used in the United States. Dr. Fry has been directing the ultrasound research program in Indianapolis since she joined the medical center in 1972.

Her efforts recently have been joined by those of Dr. Eugene C. Klatte, professor and chairman of radiology. Dr. Klatte hopes to have a precise clinical evaluation of the effectiveness of ultrasound as another method for breast cancer detection by the end of the year.

"Successful ultrasound screening programs could have a great effect on the high mortality rate associated with breast cancer," says Dr. Klatte. Stressing the importance of early detection and preventing the development of disease, he notes: "One out of 15 deaths among women in the United States is the result of breast cancer."

Although ultrasound methods have been used in medical clinics throughout the world for the examination of many types of body tissues, they have not (in most countries) generally applied for breast examination.

"Ultrasound is being used to examine the heart, liver and thyroid, as well as unborn children to detect possible problems in fetal development," says Dr. Fry.

"But there are special problems concerned with ultrasonic examination of the breast. Our research program, supported by the Showalter Trust, ICFAR and the Grant County Cancer Society, has been directed toward solving some of these problems."

The basic ultrasound instrument now at Regenstrief was purchased from the Hitachi Medical Corporation in Japan and modified by the engineering staff of the Ultrasound Research Laboratories of ICFAR to improve its performance. Their research has concentrated on the development of more sensitive transducers which, when added to this new instrument, improve the instrument's ability to detect minute tissue structures, particularly cysts or tumors. Through the transducers, sound

waves are emitted and then received as they bounce back from the layers of body tissues. These waves are then translated into a visual image of the tissues, giving physicians a picture of the internal structure of the breast.

At the Regenstrief clinic, a part of Wishard Memorial Hospital, radiologist Dr. Patricia Harper is using the new ultrasound instrument in conjunction with x-ray mammography to obtain maximum clinical data on patients with possible breast diseases. On certain patients, she is using ultrasound only. All this is part of a screening program supported by Little Red Door, the Marion County cancer society.

Dr. Fry notes that an ultrasound screening program has been initiated in one region, Toyama, of Japan. "Although ultrasound techniques for breast examination have not been generally applied in the U.S. during the past decade," she explains, "they were applied in medical clinics in Japan. It's interesting that the Japanese have made such outstanding achievements in this area since the incidence of breast cancer in Japan is practically one-third that found in the U.S."

"From the viewpoint of preventive medicine," says Dr. Klatter, "increased efforts by research scientists and physicians in the area of ultrasound mammography could eliminate breast cancer as one of the three major causes of death among adults." According to Dr. Klatter, the development of ultrasound mammography would fill a great need for a non-ionizing diagnostic tool in screening programs, particularly for young women whose medical histories indicate great potential as cancer victims, but for whom x-ray mammography is not recommended in annual screenings.

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WHO, WHAT, WHEN, WHERE & SOMETIMES WHY

Displays -- Pharmacy displays this week in University Hospital will be Upjohn Co. on Wednesday and C.V. Mosby Publishers on Friday. Hours are 8:30 a.m. to 3:30 p.m.

Sign Up -- Advance registration for fall classes starts Wednesday and runs through July 12 at Cavanaugh and Lecture halls.

Who's on WAT -- "The Newborn" series on WAT 21 Medical Television continues this week with a program on "Seizures." The difficulties and subtleties in diagnosing neonatal seizures will be discussed by Dr. Richard L. Schreiner, associate professor of medicine. The program will be shown Wednesday at noon in all regular WAT 21 viewing areas. (The presentation, including discussion, will be repeated at 8 p.m. Wednesday and at noon and 8 p.m. this Friday, July 11 and July 13.

Chaucer Update -- "Canterbury Tales," a rock musical based on the tales of Geoffrey Chaucer, is the first production of the summer season for the I.U. Opera Theater. The show will be on stage in the Musical Arts Center in Bloomington at 8 p.m. Friday and Saturday. Tickets are \$1.50 to \$3.50 for students and \$4 to \$6 for others. Call the MAC box office for information, 812-337-7433.

Summer Entertainment -- "Jabberwocky," a potpourri of short pieces showing the full range of puppetry from marionettes to hand-held puppets, is the focus of the Pickwick Puppet Theater coming to Showalter Pavilion at the Indianapolis Museum of Art. Show time is 8 p.m. Saturday. Call 923-1331, Ext. 56, for ticket information.

Downtown -- The Indiana Black Expo '78 commercial, cultural and art exhibits will be on view Saturday and Sunday from 10 a.m. to 10 p.m. at the Indiana Convention-Exposition Center. General admission is \$1.50.

The Council Is Coming -- The Staff Advisory Committee will meet next Monday, July 10, at 1 p.m. in the School of Nursing conference room to continue discussion and planning toward an IUPUI Staff Council.

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NEWS 'N' NOTES FROM HERE 'N' THERE

Newcomer -- Rabbi Jonathan A. Stein has taken over the duties of the Jewish chaplain for the Chaplaincy Department at the Medical Center. He replaces Rabbi Murray Saltzman, who now heads the Baltimore Hebrew Congregation. Rabbi Stein is a 1973 graduate of the Hebrew Union College in Cincinnati, where he received his master of arts degree in Hebrew letters. He was ordained at the college in 1975.

Whereabouts -- Dr. Maynard K. Hine will be in Room 202A of the dental school after July 15 (same phone: Ext. 8717). The now retired former School of Dentistry dean, first chancellor of IUPUI and special consultant to I.U. President John W. Ryan will continue to serve on several I.U., IUPUI and dental school committees.

Going West -- The IUPUI Baptist Student Union is extending an invitation to the international students at IUPUI to join them on their August 10-21 trip to Glorietta, New Mexico, for the Southern Baptist National Student Conference. Cost is \$90 which includes registration, food at Glorietta, housing and round-trip bus transportation. A \$16.50 registration fee must be received by July 15. Historic sites, like Santa Fe and a Pueblo Indian reservation, are on the 12-day itinerary. For more information, call Susan McBride, 745-5087.

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DEPT. OF HONORS & ACCOLADES

Dr. James E. Bennett, director of plastic surgery, recently was elected to a six-year term as a member of the American Board of Plastic Surgery, to a two-year term as chairman of the Residency Review Committee for Plastic Surgery of the Liaison Committee on Graduate Medical Education, and to a three-year term as secretary of the American Association of Plastic Surgeons.

Neil E. Lantz, director of administrative affairs, has been honored by the Indianapolis Area Chapter of the American Red Cross. Lantz, a volunteer disaster field representative for the Disaster Services Division, received a commendation for "valuable contributions made through services rendered in shelter and feeding operations."

Herron School of Art is one of nine schools participating in a design work show currently at the Ryder Gallery in Chicago. The invitational show also includes by students from Northern Illinois, Western Michigan, University of Illinois Chicago Circle Ohio State, Institute of Design at Chicago, Cranbrook Academy of Art at Detroit, University of Cincinnati, and University of Illinois at Urbana-Champaign. Henry Aguet is chairman of Herron's design program.

Dr. Ralph W. Phillips, associate dean for research at the School of Dentistry, recently served as chairman of a Conference on Clinical Evaluation of Dental Materials at the American Dental Association headquarters in Chicago.

Three members of the occupational therapy faculty were recognized at the recent National Conference of the American Occupational Therapy Association held in San Diego. Shereen Farber was made a fellow of the AOTA, Erna Simek was made a fellow of the association and was elected to head the Commission of Education, Occupational Therapy Assistant School Directors' Committee, and Zona Weeks was elected a director of the American Occupational Therapy Foundation.

Mary Jane Maxwell, IUPUI staff training coordinator, was invited to present a program on "Orientation in Sight and Sound" during last month's National Conference of the American Society for Training and Development held in Chicago. She also is the vice-president and program chairman of the local chapter of the Central Indiana American Society for Training and Development and represents the region on the society's National Member Services Committee.

A. Rose Brown, student activity officer, has been accepted to appear in the forthcoming 16th Edition of Who's Who in the Midwest.

"Worker-Client Relationship" was the topic for a paper presented by Dr. J.M. Kapoor at the 105th Annual Forum of the National Conference on Social Welfare, which was held recently at Los Angeles. Kapoor is an associate professor of social work.

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GREEN SHEET'S FRIENDLY AD SERVICE

Meow Mix -- Cute kittens, for free. Call 335-3795.

On Land and Lake -- 1970 Ford six-passenger station wagon, lime green with black leather interior, power brakes and steering, air conditioned, automatic, two new tires, excellent condition. \$1,000. Call 255-9108. . 1974 Volkswagen, FM radio, good condition. \$1,850. call 253-9418 after 5:30 p.m. . 1977 Mazda GLC, 7,000 miles, silver, AM/FM radio, one owner. \$2,800. Call 251-1861 after 6 p.m. and weekends. . 1965 Dorsett 16-foot ski boat with 65 h.p. Evinrude engine, cabin canopy, new road canvas cover and trailer. \$800. Call 297-3945 after 6 p.m.

Help -- New staff member would like to house-sit during July and August. Call James Shanks, Ext. 8868, for details and references. . A 75-member sorority at I.U.-Bloomington needs housemother beginning in August. Experience helpful but not required. Call 255-8783 after 5 p.m.

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JOE FARAH
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