Hero’s Return

The first successful operation for isolated liver perfusion at MDAH was done on the dog, Alvin, in October, 1959. He remained at MDAH for a year of post-operative survey and study, following which a permanent home was found for him. He stayed with his new owner for about seven months and then he took to the road searching for adventure.

In June, 1961, a new group of dogs was delivered to the experimental surgery section at MDAH from the city pound. One of these “normal, healthy dogs” was selected as a candidate for a liver transplant operation.

Preparation for the operation was begun. Much to the amazement of surgeons and technicians, they had unknowingly selected Alvin. Identification was not made until the dog was prepared for operation. At that time the operative scar left after the 1959 procedure identified the dog as Alvin. Needless to say, because of the previous operation, Alvin could not be classified as normal and therefore, after recovering from the anesthetic, a second home was found for him.

After undergoing experimental surgery successfully once, Alvin came close to a second procedure.

Study of Mammography Aided

Egan in Charge

Two grants, totaling $43,500, have been awarded Robert L. Egan, MDAH assistant radiologist, acting chief, subsection of experimental diagnostic radiology, to continue studies on his technique of detecting breast cancer, and to provide training in the mammographic technique for radiologists throughout the country.


Dr. Egan, who reported on mammography in the December, 1960, issue of Radiology, will be in charge of the one-year study.

Participating in the project will be twenty radiologists: ten from Texas institutions, nine from radiology centers in other parts of the United States, and one from a Canadian radiology center.

The radiologists will come to MDAH for a five-day course of reviewing the mammograms on file and learning the technical procedures involved in obtaining the mammograms.

Each radiologist will then return to his institution and adapt his x-ray machine to the Egan technique. As soon as his studies are technically satisfactory, he will begin active participation in the project.

Mammographic films will be taken of approximately 2,000 women, followed by biopsies on the same women. The radiologists will interpret each mammogram without physical examination of the patient and a report will be made according to a pre-established criterion of what constitutes a malignant condition.

In order to participate in the program, the radiologist will need the cooperation of the pathologist and surgeon at his institution. The surgeon will request mammographic diagnosis for his patients prior to biopsy. After the biopsy has been done, the pathologist will provide the block of tissue and his diagnosis.

The block of tissue, the pathologist’s diagnosis, and the mammograms, with a presurgical diagnosis, will be sent to MDAH where the material will also be interpreted in an effort to insure uniformity of reading.

The data will be compiled and analyzed to determine the proportion of agreement between the diagnosis by tissue examination and by mammogram, and to show the number of cancers which were diagnosed correctly by the local radiologist through the use of the mammographic technique, which in the past has proved to be highly accurate.

At the conclusion of the study, all data will be compiled for review and publication.

Another aspect of the program will be a review of all cases at MDAH in which the mammographic technique was employed. Thirty radiologists from other institutions, who learned the technique at MDAH prior to the project, will also review their cases. The two groups of cases, those of MDAH and those reviewed at other institutions, will comprise a retrospective study.

See Page 8 for Special Story on Cancer Clinical Research Center
Sixth Annual Clinical Conference
October 20 and 21

"Cancer of the Genito-Urinary Tract" is the subject of the Sixth Annual Clinical Conference, to be held in the MDAH auditorium October 20 and 21, announced MDAH clinical associate urologist Cecil M. Crigler and associate radiotherapist Lowell S. Miller, who will serve as program committee co-chairmen.

Six guest speakers will join eleven MDAH staff members in presenting the day-and-a-half program. The guest speakers are: Webb DeTar, Victoria, Texas; Milton Friedman, Hospital for Joint Diseases, New York; Elizabeth A. McGrew, University of Illinois College of Medicine, Chicago; F. K. Mostofi, Armed Forces Institute of Pathology, Washington; D. M. Wallace, Royal Marsden Hospital, London; and Willet F. Whitmore, Jr., Memorial Center for Cancer and Allied Diseases, New York.

Morning Session

Friday morning, October 20, the conference will open with a session on cancer of the bladder, with discussions of fundamental problems, pathology, surgical treatment, and irradiation. Cecil M. Crigler will preside. A panel discussion on staging bladder cancer, with Murray M. Copeland, assistant director for education at MDAH, as moderator, will conclude the Friday morning session.

Clark on N.I.H. Panel

R. Lee Clark, Director and Surgeon-in-Chief, has been appointed chairman of the diagnostic research panel, National Cancer Institute, Department of Health, Education, and Welfare, by Dr. David E. Price, deputy director of the National Institutes of Health, and Dr. Kenneth M. Endicot, director of the National Cancer Institute. The appointment follows even years of service as a member of the cancer control committee, dissolved this year in the reorganization of National Cancer Institute administrative activities.

During his four-year term as chairman, which began July 1, Dr. Clark will lead the panel in making recommendations to the director of the National Cancer Institute on the development of research in the diagnosis of cancer and in reviewing for recommendation contracts in the field of cancer diagnosis that are submitted to the National Cancer Institute. The panel will also review periodically research activities in the diagnosis of cancer and suggest to the director of the National Cancer Institute areas of research in cancer diagnosis which require special encouragement and emphasis. National and international symposia on research in cancer diagnosis will be noted by the National Institutes of Health panel.

An average of 440 patients visit the MDAH outpatient clinic daily.

The second session of the day will be concerned with cancer of the prostate, urethra and penis, with J. Leslie Smith, Jr., assistant pathologist, presiding.

Saturday's Program

Saturday's program will conclude the conference with papers on "Other Genito-Urinary Tract Problems." Gilbert H. Fletcher, radiotherapist, will preside over discussions of radiotherapy, surgery, chemotherapy, and cytology of the genito-urinary tract. William O. Russell, pathologist, will be moderator of a panel discussion on cancer of the kidney and ureter.

Program committee members who aided Dr. Crigler and Dr. Miller in planning the conference are: J. Leslie Smith, Jr., assistant pathologist, J. Sid Jones, clinical assistant urologist, and Joe E. Boyd, Jr., MDAH administrator.

The Clinical Conference has been sponsored annually by MDAH and the Texas Department of Public Health to share the latest information on the diagnosis and treatment of cancer patients with physicians in Texas and the Southwest.

The 1960 Clinical Conference on Cancer of the Uterine Cervix, Endometrium and Ovary was attended by more than 200 physicians from Texas. Presentations at that conference are to be published by The Year Book Medical Publishers, Inc., of Chicago. Since the Rice-Southern Methodist football game will be played at Rice Stadium October 21, hotel reservations should be made in advance by sending reservations directly to the hotel.

Fletcher Named President-Elect

Gilbert H. Fletcher, MDAH radiotherapist and head, department of radiology, was nominated president-elect of the American Radium Society at the society's annual meeting in Colorado Springs, May 9 to 12. His appointment, which becomes effective in 1962, follows two years as treasurer for the society. Dr. Fletcher has been radiotherapist and head of the radiology department at MDAH since 1948.

Dr. Fletcher, in collaboration with the MDAH physicist, the late Dr. Leonard Grimmett, did the developmental work incidental to the design and building of the first Cobalt-60 teletherapy unit. Since construction of the unit in 1954, more than 2,500 patients at MDAH have received irradiation from Co-60.
Chemotherapy Book For Physician

Cancer Chemotherapy, a monograph of papers prepared by thirteen MDAH staff members and two other specialists under the direction of R. Lee Clark, Director and Surgeon-in-Chief at MDAH, has recently been published by Charles C. Thomas, Publisher, Springfield, Illinois.

Designed to aid the practicing physician in treating cancer patients, the 255-page book discusses the use of chemotherapeutic agents against various types of cancer.

Each chapter covers a different aspect of managing cancer with chemotherapy, such as, the effect of chemotherapeutic agents upon cellular metabolism and composition, lymphomas, leukemias, myeloma, solid tumors, glandular tumors, advanced mammary carcinoma, and chemotherapy as a surgical adjuvant.

A brief chapter is devoted to a discussion of the Cancer Chemotherapy National Service Center, written by Roy C. Heflebower, formerly executive secretary of the Southwest Cancer Chemotherapy Study Group, and H. Grant Taylor, MDAH pediatrician and chairman of the Southwest Cancer Chemotherapy Study Group.


George E. Moore, director of Roswell Park Memorial Institute, Buffalo, New York, discusses The National Program for the Adjuvant Use of Chemotherapy in the Surgical Treatment of Cancer in a chapter by John S. Stehlin, Jr., MDAH associate surgeon.

The final chapter consists of a list of 382 references to chemotherapeutic research publications. The list is indexed by general references, bibliographic sources, disease categories, and drugs.

Contributors to the volume from MDAH are: Daniel E. Bergsagel, associate internist; R. Lee Clark, Director and Surgeon-in-Chief; A. Clark Griffin, biochemist; Roy C. Heflebower, executive secretary, Southwest Cancer Chemotherapy Study Group; Clifton D. Howe, internist; Raymond G. Rose, associate internist; Melvin L. Samuels, assistant internist; Mary E. Sears, assistant research internist; C. C. Shullenberger, associate internist; John S. Stehlin, Jr., associate surgeon; Margaret Sullivan, assistant pediatrician; Wataru W. Sutow, associate pediatrician; and H. Grant Taylor, pediatrician.

Grants Expansion Supported

Research, education, and building expansion at MDAH have been aided recently by twelve grants totaling $832,041.

The National Cancer Institute, U. S. Department of Health, Education, and Welfare awarded:

1. $639,213 to MDAH to be used in the construction of additional space for laboratories and offices. This is the second largest grant as yet awarded to MDAH for expansion of facilities.

2. $19,899 to John E. Healey, Jr., associate experimental surgeon, for the study of the effect of chemotherapeutic agents on the liver.

3. $16,792 to Herman D. Suit, assistant radiotherapist, to study the modification of tumor response to local x-irradiation.

4. $15,289 to Grant Taylor, pediatrician, for research on the transmission of tumor virus from female animals to offspring.

5. $13,187 to Gilbert H. Fletcher, radiotherapist, for a study on the evaluation of supervoltage therapy.

6. $7,940 to Robert J. Shalek, associate physicist, for research on radiation effects on dilute solutions of lysozyme.

7. $5,120 to George G. Rose, assistant biologist, to study the induction of cytodifferentiations in tissue cultures.

The Bureau of State Services of the U. S. Department of Health, Education, and Welfare granted:

1. $36,000 to Robert L. Egan, assistant radiologist, to continue to study and demonstrate the usefulness of mammography in diagnosing breast cancer and to increase the acceptance of and skills in using the technique by radiologists. In addition, The Texas State Department of Health has awarded (GRANTS, continued on page 4)
Dr. Egan $7,500 for the mammography project. (See story, page 1.)

The United States Atomic Energy Commission granted:
1. $26,820 to Robert J. Shalek, associate physicist, for radiation studies on bacterial and animal viruses.

The Damon Runyon Memorial Fund for Cancer Research awarded:
1. $18,500 to T. C. Hsu, associate biologist, for research on the cytology of cell strains.

The American Cancer Society, Inc., granted:
1. $13,900 to Saul Kit, associate biochemist, for studies of the nucleic acids of normal tissues and tumors.

Ethicon, Inc., Somerville, New Jersey, granted:
1. $11,931 to John E. Healey, Jr., associate experimental surgeon, for research on the non-suture repair of body tissues using a plastic adhesive.

Physicians from 248 of the 254 Texas counties have referred patients to MDAH. Counties not having patients referred since the institution began patient care activities in 1944 are: Armstrong, Borden, Culberson, Hartley, King, and Terrell.

Jones Fellows Named

Two Jesse H. Jones Fellowships Honoring Dr. E. W. Bertner have been awarded for a period of one year each, announced Murray M. Copeland, assistant director for education.

Reuben E. Koenig, a National Cancer Institute Fellow in the department of surgery for the past year, will continue his studies under the new fellowship. Dr. Koenig graduated from Baylor University College of Medicine in 1953 and interned at Gorgas Hospital, Panama Canal Zone. His early residency training also took place there.

Philip J. Migliore, Pittsburgh, Pennsylvania, has been appointed a Fellow in the Department of Pathology. A graduate of the University of Pittsburgh School of Medicine, he interned at West Penn Hospital, Pittsburgh, and served a residency while holding an appointment as junior instructor at the University of Pittsburgh School of Medicine.

The Jesse H. Jones Fellowship, which is awarded to postgraduate medical or scientific candidates, was established by Houston Endowment, Inc., organized for philanthropic purposes and endowed by Mr. and Mrs. Jesse H. Jones, in honor of Dr. E. W. Bertner, first acting director of MDAH.

Distinguished Visitors at Staff Meetings and Seminars

Distinguished scientists and physicians from England, France, Iceland, and the United States have visited MDAH recently. Sponsored by various departments of the hospital, they presented seminars and addressed staff meetings.


H. Marcovich, Institut Pasteur, Paris, presented the April 7 seminar. He spoke on “Mechanism of Lethal Action of X-Rays in Escherichia coli K 12”.

Erwin Chargaff, department of biochemistry, Columbia University, College of Physicians and Surgeons, New York, addressed the April 18 seminar on “Problems in the Nucleotide Sequence of Deoxyribonucleic Acid.” Dr. Chargaff received his degree in chemistry from the University of Vienna in 1928. He held appointments at Yale, the Institute of Hygiene in Berlin, and Institut Pasteur, Paris, before joining the staff of the College of Physicians and Surgeons in 1935 where he is now professor of biochemistry. He was awarded the Pasteur Medal in 1949 and the Neuberg Medal in 1958.

Niels Dungal, professor of pathology, University of Iceland, presented his paper on “Experimental Production of Cancer with Smoked Food” at the May 22 seminar. Dr. Dungal is about to complete a five-year study of stomach cancer in Iceland. In his experiments with rats, stomach cancer occurred in thirty-three percent of those on a smoked trout diet and in ten percent of those on a smoked muttonfish diet. His research on cases of stomach cancer in Iceland showed that there was a low incidence of stomach cancer when fish were not smoked.

George J. Cunningham, department of pathology, Royal College of Surgeons, London, addressed the General Monthly Staff Meeting May 10 on “Bronchial Epithelium and Bronchial Cancer” and “Postgraduate Medical Education in England with Special Reference to the Royal College of Surgeons.” Dr. Cunningham, who is Sir William Collins professor of pathology at the college and conservator of the pathology museum in London, is particularly interested in the problem of lung cancer. A graduate of St. Bartholomew’s Hospital Medical School, London, in 1937, Dr. Cunningham was named to his present post in 1953.

Herbert C. Schwartz, assistant professor of pediatrics, Stanford University College of Medicine, presented a special seminar May 25 on “Enzymic Synthesis of Hemoglobin.”

J. Murray Luck, professor of biochemistry, Stanford University, presented a paper on “Basic Proteins of the Cell Nucleus” at the Research Seminar on May 23. Dr. Luck received his Ph.D. degree from Cambridge University in 1925. After holding an appointment at The University of Toronto, he joined the staff of Stanford University in 1926. Since 1932 he has been an editor of the Annual Review of Biochemistry and since 1934, managing editor. Dr. Luck is a member of the Society of Biologists and Chemists, of which he was president in 1954. His special interests include the chemistry of proteins and the biochemistry of cancer.

“The curative value of supervoltage roentgenotherapy is best demonstrated in control of tumors of the oropharynx, urinary bladder, and the stage III cases of cancer of the uterine cervix,” states Doctor Gilbert H. Fletcher, MDAH radiotherapist. Proc. Conf. on Res. on Radiotherapy of Cancer, pp. 179-186.
Staff Activities

David E. Anderson, associate biologist, spoke on “Genetic Aspects of Bovine Ocular Squamous Carcinoma” at the Genetics Seminar held at The University of Texas in Austin May 10. At the Texas Dental Association meeting in Houston April 30 to May 4, Dr. Anderson, in collaboration with Dr. J. M. McClendon, University of Texas Dental Branch, and Dr. E. A. Cornelius, Hermann Hospital, presented an exhibit on “Cherubism—Hereditary Fibrous Dysplasia of the Jaws.”

J. P. Chang, associate biologist, presented “Cytological and Chemical Evaluation of the Section Freeze-Substitution Technique,” co-authored by Samuel H. Hori, department of pathology, Darrell N. Ward, associate biochemist, and Milton Anken, department of pathology, at the Twelfth Annual Meeting of the Histochemical Society, April 8 to 9 in Atlantic City, New Jersey. Dr. Hori presented a paper on “Localization of Adenosine Triphosphatase Activity in Cytoplasm,” co-authored by Dr. Chang, at the same meeting.

Paul M. Chau, associate radiotherapist, spoke on “Complications in the High Dose Total Pelvic Irradiation of Female Pelvic Cancer” at the annual meeting of the American Radium Society in Colorado Springs, May 9 to 13. At the same meeting, W. S. MacComb, head and neck surgeon, presented “Necrosis in Treatment of Intraoral Cancer by Radiation Therapy.”

Murray M. Copeland, assistant director for education, addressed the Jefferson County Medical Society on “Cystic Tumors of the Neck” in Beaumont, May 8.

William C. Dewey, assistant physicist, delivered a paper on “Criteria for Evaluating Collimators Used in In Vivo Distribution Studies with Radios isotopes” at the Society of Nuclear Medicine meeting in Pittsburgh, June 13 to 17.

Leon Dmochowski, virologist, delivered a paper on “Electron Microscope Studies of Polyoma-Induced Kidney Tumors in Mice, Rats, and Hamsters,” co-authored by C. E. Grey, E. Berezcky, and Julian Blicharski, at the 52nd Annual Meeting of the American Association for Cancer Research in Atlantic City, New Jersey, April 7. At the same meeting, John A. Sykes, assistant biologist, presented “Tissue Culture Studies of Human Leukemic Lymph Nodes,” co-authored by L. Dmochowski, C. C. Shullenberger, and C. D. Howe. At the Bacteriology Seminar at The University of Texas in Austin on May 9, Dr. Dmochowski lectured on “Some Aspects of Tumor Virus Replication.”

Nylene E. Eckles, associate internist, presented papers on “Practical Aspects of Chemotherapy” and “Treatment of Metastatic Breast Cancer” at the Robert B. Green Hospital in San Antonio, May 7. In Corpus Christi, June 14, Dr. Eckles addressed the Corpus Christi Surgical Society on “Current Practical Chemotherapy in Malignancy.”

Elon W. Frampton, research associate, section of microbiology, spoke on “Studies on the Incorporation of Uridine into the Ribonucleic Acid Components of Irradiated Bacteria” at the spring meeting of the Texas Branch of the Society of American Bacteriologists in College Station, May 5 to 6.

A. Clark Griffin, biochemist, spoke on “Characterization of a Toxin Isolated from Malignant Diseases” at the Henry Ford Foundation International Symposium on Tumor Host Relationship in Detroit, May 18 to 20. At the same meeting, Bruno Jirgensons, biochemist, presented “Optical Rotatory Properties of Serum Proteins in Malignant Diseases.”

F. L. Haas, biologist, William C. Dewey, assistant physicist, Willam T. Humphrey, assistant radiation biologist, Robert J. Shalek, associate physicist, and Herman D. Suit, assistant radiotherapist, attended the Ninth Annual Meeting of the Radiation Research Society in Washington, D. C., May 15 to 19. Dr. Haas participated in a symposium on “Molecular Processes and Their Possible Relationship to Radiation Effects”; Dr. Dewey spoke on “Relative Radiosensitivity of Different Phases in the Life Cycle of L-P59 Mouse Fibroblasts”; Dr. Humphrey lectured on “Alteration in Cell Culture Systems by 5-Bromodeoxyuridine”; Dr. Shalek presented “The Appearance of An Oxygen Effect in X-Irradiated Dilute Lysozyme Solutions After the Addition of Nutrient Broth”; and Dr. Suit spoke on “Estimation of Mean Lethal Dose of C3H.” At the symposium on Methodology in Basic Genetics at The University of Texas in Austin, May 3 to 5, Dr. Haas delivered a paper on “Mechanisms Involved in UV-Induction of Mutation.”

Richard C. Hay, associate anesthesiologist, and William S. Derrick, anesthesiologist, presented an exhibit, “Subarachnoid Alcohol Block in the Control of Intractable Pain in Advanced Cancer,” at the American Medical Association meeting in New York City, June 25 to 30.

Renilda Hilikemeyer, director of nursing, gave an illustrated lecture on “Communications” at the Texas League for Nursing, Head Nurse’s Workshop, at Memorial Hospital, Houston, May 25. At the same meeting, R. A. Kolvoord, head, department of medical communications, spoke and conducted a workshop on “Creating Tools for Communications.”

Edward C. Hinds, clinical assistant dental surgeon, addressed the American Society of Maxillofacial Surgeons on “Selection of Procedure in the Management of Jaw Deformities” in New York City, April 17.

Clifton D. Howe, internist, spoke to the San Antonio Club of Internal Medicine on “Cancer Chemotherapy with the Newer Compounds” in San Antonio, May 2. At a meeting of the board of directors of the American Cancer Society, Harris County Division, on May 24 in Houston, Dr. Howe discussed “Cancer Chemotherapy—Present Status.”

Richard H. Jesse, Jr., assistant head and neck surgeon, presented “The Contribution of Supervoltage Roentgenotherapy to the Integration of Surgery and Radiation in Squamous Cell Carcinomas of the Head and Neck” to the annual meeting of the James Ewing Society in New York City, April 12 to 14. He lectured on “Diagnosis and Treatment of Lesions of the Head and Neck” at the Sabine District Dental Society meeting May 11 in Port Arthur. At the Sixth Annual Cancer Symposium of the Canadian Cancer Society and Allan Blair Memorial Clinic in Regina, Saskatchewan, May 30 to 31, he presented “Management of Cancer of the Oropharynx and Larynx,” “Remarks and Commentary,” and participated in panel discussions on “Cancer of the Head and Neck” and “Diseases of the Thyroid Gland.”

W. S. MacComb, head and neck surgeon, spoke on “Carcinoma of the Larynx” May 1 at MDAH, during a program presented by the head and neck service for Col. Franklin L. Spann and his staff from Brooke General Hospital, Fort Sam Houston. Lectures on head and neck cancer were given by all members of the staff of the head and neck service. A. J. Ballantine, associate surgeon, presented “The Treatment of Cancer of the Pharyngeal Wall” and “Intraoral Skin Grafts.”

Eleanor J. Macdonald, epidemiologist, spoke to the annual meeting of the Board of Directors of the Reno Cancer Center regarding a state-wide cancer program in Reno, Nevada, May 3. She served as a consultant to the tumor registry at the Reno Cancer Examination Center May 1 to 5. As part of the IBM Corporation Executive Training Program May 18 in Chicago, Miss Macdonald lectured on "Exploitation of Medical Records as an Administrative and Research Tool Through Data Processing Techniques."

Lowell S. Miller, associate radiotherapist, presented papers on "Carcinoma of the Bladder" and "The Radiologist and Carcinoma of the Breast" and participated in a panel discussion on "Carcinomas of the Endometrium" during a symposium on Carcinomas of the Female Generative Tract and Carcinomas of the Breast in San Antonio, May 7.

Felix Rutledge, gynecologist, spoke on "Carcinoma of the Vulva" and "Chemotherapy in Treatment of Carcinoma of the Cervix" and was panel leader of discussions on "Cancer of the Cervix" and "Carcinoma of Endometrium" at the meeting of the Miller-Bowie County Medical Societies sponsored by The University of Texas Postgraduate School of Medicine in Texarkana, Arkansas-Texas, April 9.

Beaury C. Burns, Jr., assistant gynecologist, addressed the society on "Carcinoma of the Ovary," and Joseph A. Lucci, Jr., clinical assistant gynecologist, presented "Carcinoma of the Cervix and Pregnancy" and "Carcinoma of the Breast and Pregnancy" and was panel member for a discussion of "Carcinoma of the Endometrium." Dr. Rutledge was leader of a clinical conference on "Treatment of Cervical Cancer" and of a conference on "Chemotherapy in Pelvic Cancer" at the Tenth Annual Meeting of The American College of Obstetrics and Gynecology in Bal Harbour, Florida, April 25 to 27. At the same meeting, R. Vernon Colpitts, clinical assistant gynecologist, presented a paper on "Urological Complications in Treatment of Carcinoma of the Cervix."

Robert J. Shalek, associate physicist, addressed students attending the Texas Nuclear Science Symposium for High Schools on "The Relation of Basic Research to the Treatment of Cancer by Radiation" at The University of Texas, Austin, June 12 to 14.

John S. Stehlin, Jr., associate surgeon, lectured on "Cancer Chemotherapy From the Standpoint of Arterial Perfusion" to the Bexar County Medical Society in San Antonio, April 11. He addressed the Ohio State Surgical Society in Columbus, May 5, on "Regional Perfusion for Cancer." From June 25 through July 11, Dr. Stehlin toured South America under the auspices of the International Union Against Cancer and gave five lectures: two in Lima, Peru, and one each in Santiago, Chile; Buenos Aires, Argentina; and Montevideo, Uruguay.

E. C. White, surgeon, was guest speaker at the annual lectureship of Alpha Omega Alpha, honorary medical society, in Louisville, Kentucky, April 7. He presented papers on "Cancer of the Thyroid," "Malignant Melanoma," "Cancer of the Breast," and "Function of a Cancer Center." During the University of Kansas Medical Center's 16th Annual Postgraduate Course in Surgery, May 16 in Kansas City, Dr. White lectured on "Regional Perfusion with Carcinocidal Drugs" and "Soft Tissue Tumors of the Extremities."

Internally distributed radioactive isotopes play a definite, but minor, role in the treatment of the cancer patient, according to Doctors John F. Storaasli and Ernest L. Schoeniger, Cleveland. Proc. Conf. on Res. on the Radiotherapy of Cancer, pp. 173-178.

"Race, social class, and concurrent disease appear to have no effect inherently on the tumor response . . . that may influence the outcome of radiation therapy in carcinoma of the cervix," believes Doctor Manuel Garcia, Charity Hospital, New Orleans. Proc. Conf. on Res. on the Radiotherapy of Cancer, pp. 133-138.

A total of 93 residents, fellows, and observers were trained in 12 basic and clinical sciences at MDAH in 1960.
Staff Publications

Recent publications by staff members include the following:


Nursing Institute

An Institute in Oncological Nursing, presented by the MDAH department of nursing May 15 to 19, was attended by public health nurses from Texas.

Under the direction of Miss Renilda Hilkemeyer, director of nursing, twenty-four MDAH staff members and two guest speakers discussed the various aspects of nursing in relation to the cancer patient.

Miss Helen Lawson, consultant, State Health Department, spoke on "Supplemental Coding." "Services for Cancer Patients" was the subject of a talk by Mrs. Martha Walters, assistant to the director, Harris County Unit, American Cancer Society.

Panel discussions, hospital tours, and two movies completed the program.

Progress in research continued during 1960 at MDAH through the 222 projects included in 75 research programs.

Social Service Holds Second Institute

Approximately 75 social workers, public health nurses, and other interested persons from 29 Texas counties attended an Institute on Cancer Care, sponsored by the MDAH medical social service department, June 7 to 9.

Mrs. Edna Wagner, director of social services, presided over the program in which eight MDAH staff members, the social service department, and two guest speakers discussed the medical and psycho-social problems of the cancer patient.

Mrs. W. Aubrey Smith, vice president, Texas Division of the American Cancer Society, sponsored a special luncheon for participants of the Institute.

This was the second of three institutes planned by the social service department. The next institute is scheduled for October 25 to 27.

In Calcium37 tracer studies undertaken by Doctor E. Greenberg and his associates, in New York, on patients with malignant bone lesions, preliminary results indicate that progressive bone lesions are usually associated with an increased accretion rate of calcium in the skeleton as a whole and an increased local uptake of calcium in the lesion areas. Proc. Conf. on Res. on the Radiotherapy of Cancer, pp. 158-169.
Cancer Clinical Research Supported

N.I.H. Grant Underwrites Program

MDAH One of Few Designated

The University of Texas M. D. Anderson Hospital and Tumor Institute was named as recipient of a grant to create within the institution a center for cancer clinical research. The grant is from the National Institutes of Health and approved by the Surgeon General's office. In this capacity, the institution received $375,506 for the current year to establish within the present facilities a special area for a multidisciplinary attack on cancer.

The grant award, announced by R. Lee Clark, M.D., Director and Surgeon-in-Chief of M. D. Anderson Hospital and Tumor Institute, was made to organize a Cancer Clinical Research Center, and to support a broadly-based and usually long-term program of research activity. "Therefore," Dr. Clark said, "since the long-term program was considered for this institution, there is a possibility that more than $4 million will be granted to the Hospital during the next seven year period."

The research undertaken, he explained, may be flexible in nature, and typically involve the organized efforts of both clinical and basic science groups. The study is directed toward the application of basic science knowledge to the clinical care of the cancer patient and furthering the general knowledge of physiology and pathology as it pertains to malignant and normal growth.

Dr. Clark said that the approach will bring the research scientist closer to the problems involved in human cancer. This closeness will be achieved by the researcher's working in much closer cooperation with the physician who is in charge of treating the cancer patient. "In fact," Dr. Clark said, "the research scientist will participate in the daily evaluation of the immediate results of the clinical research."

He explained that the Cancer Clinical Research Center will consist of 20 beds allocated for special clinical research. Normally the daily cost of maintaining the hospital bed is almost doubled when used for clinical research. The total cost of the research beds will be covered by the N.I.H. grant, but will not replace any support now available for charity beds. It will supplement the basic state support to permit the expansion of the clinical research program.

Sixteen of the twenty beds will be located on 3-West, the nursing unit originally designed for experimental medicine. This area contains a metabolic kitchen, dietitian's office, an electro-encephalogram laboratory and clinical laboratory. Very slight remodeling will be required in this area for special hematological and analytical laboratories. The twenty beds are allocated as follows:

- For the study of enzymes, amino acids, hematology and virology
- For studies on various types of breast cancer
- For studies on the parathyroid and thyroid metabolism
- For the study of leukemia in adults
- For toxohormone studies
- For studies on cancer in children
- For studies on pathologic changes relating to trace mineral metabolism or for those involving the use of nuclear medicine techniques
- For physiologic studies of patients after surgical treatment
- For studies on chemotherapeutic agents

According to the Federal grant, the clinical research program must have a supervisory committee whose members represent the range of disciplines and interests required to provide competent advice on the planning and execution of its activities. Dr. Clark outlined the various disciplines that would be called upon at M.D. Anderson Hospital. "Included," he said, "are members of the staff who are specialists in surgery, radiotherapy, pathology, internal medicine, biochemistry, biology, epidemiology, and physics."

The clinical research, Dr. Clark said, will involve exacting observations on patients in the Cancer Clinical Research Center regarding various aspects of physiology, metabolism and hematology. Therefore, he said, it will be necessary to have intensive nursing care given by nurses who are specially trained in clinical research. They must be able to do certain intensive types of observing and reporting which normally are not a part of the duties of the regular hospital nurse. For the most part, the professional staff of the hospital will be utilized in the program, with the addition of certain experts specially trained in clinical research discipline, in a multidisciplinary approach to the cancer problem. The center will function as an organized department of the institution.

Dr. Clark stated that although the substantial grant for the M. D. Anderson Hospital Cancer Clinical Research Center will not underwrite construction of new areas, it will accelerate, enhance and substantially increase the institution's clinical investigative program. In some areas, he said, it may step up the attainable goals by months and even years. And although some basic science research is restricted because of the lack of space, the new program will allow the further correlation of clinical research and basic research, so that both programs can be augmented by the reorientation of existing facilities and the direct approach to the problems involved in cancer care.

The grant funds will in no way replace those supporting existing research activities, but will be for additional clinical research. Thus, there will be an increased use of the present facilities to obtain research information in regard to the cancer patient, acceleration of the application of newly acquired information in the basic sciences to human use, and bring the research scientists to a place of greater prominence in the immediate solution of the cancer problem.

Dr. Clark stated that the grant was possible "only because of the excellent state support received throughout the years. Without that support we possibly would not have been considered."