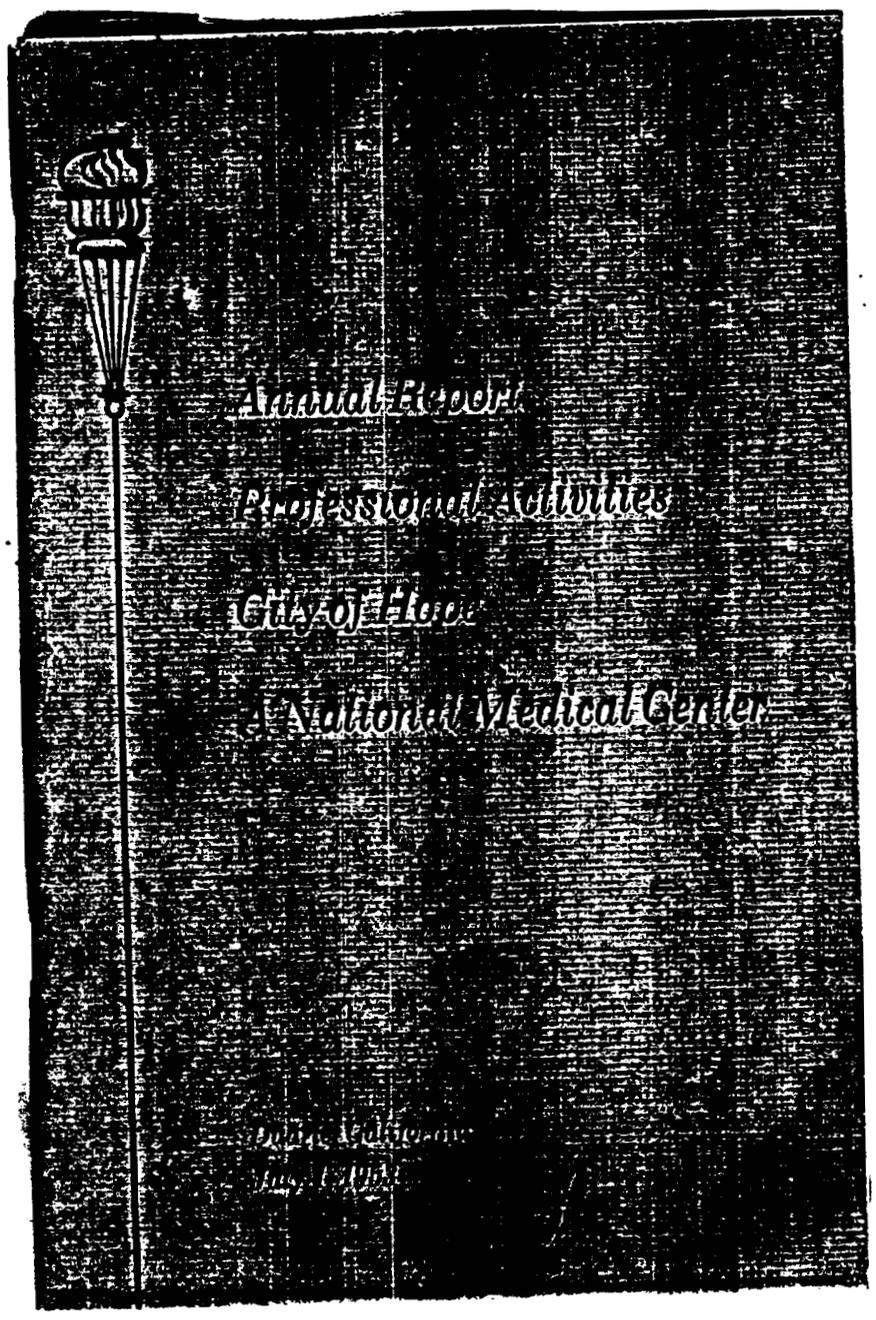


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Annual Report

Professional Activities

City of Hope

A National Medical Center

Duarte, California

July 1, 1953

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Foreword

When a hospital which has been essentially a tubercular sanatorium for 40 years is being converted to a National Medical Center with a general hospital for specialized diseases, as is the case with the City of Hope, it is well to report to those responsible for the future of the hospital. These responsible persons are the supporters of the hospital who are attending this biennial National Convention and therefore it is the purpose of the Chief of Professional Services to report to the Convention the changes that have been wrought during the past two years, from July 1951 to June 1, 1953, the period from the last Convention. Were it not for the constant encouragement and guidance of the Executive Director, Mr. Sam Golter, and the President of the Lay Board, Mr. Victor Carter, this report could not have been written now.

The form of reporting reflects the teamwork existing in the hospital and in general is a consolidation of the reports by the Directors of the various medical departments, which have been edited or added to by the Chief of Professional Services. In some instances the reports do not tell the whole story nor portray the picture of the departmental change that has taken place. These omissions will be corrected in future annual reports, but thanks are due for the excellent cooperation of those Directors who have furnished this office with the reports even though the time allowed was short for their preparation.

A milestone was reached in the development of the City of Hope as a National Medical Center when the UCLA Medical School became loosely affiliated with us through the formation of the Medical Advisory Research Committee in May, 1952. The unselfish and helpful advice given to the Chief of Professional Services by all the members of this Committee and especially by the Dean, Dr. Stafford Warren, is gratefully acknowledged. To the Chairman, Professor Charles Carpenter, belongs much credit for his unceasing efforts in behalf of the City of Hope. With the guidance of the great men of this Medical Committee the medical program being developed will continue to remain on the highest scientific plane.

A Medical Center can be only as good as the work of its Medical Staff. The devotion to duty and accomplishments of the Staff are such as to receive the highest commendation and thanks from the Chief of Professional Services. Nurses, social workers, technicians, and medical secretaries have all worked together beyond the call of duty in playing their role in the development of the new Medical Center Program. In its advice on medical programs, the Medical Advisory Board under the Chairmanship of Dr. Louie Felger has been very helpful.

Page 4

Last, but not least, the Executive Committee of the Medical Center every proposed change was met with interest and their praise.

To the four members of the Committee and thanks are due for their interest in this change of the City of Hope.

Thanks are due to the unselfish cooperation of the

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medical secretaries have
playing their role in the
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Chairmanship of Dr.

Last, but most important of all, has been the work of the Medical Executive Committee. Charged with the responsibility of carrying out every proposed change for the development of the new program this Committee met weekly or even twice weekly, with many informal meetings interspersed. The enthusiasm of the Directors making up this Committee and their performance of duty deserves the highest commendation and praise.

To the four hundred or more employees of the hospital, acknowledgment and thanks are given to their splendid and untiring efforts in working often at new and different tasks under trying circumstances to help bring about this change of medical program.

Thanks are also due to the Eureka Press and to Mr. G. Korsen for his unselfish cooperation in helping to print this report before Convention time.

ALFRED GOLDMAN, M. D.
Chief of Professional Services

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Department of Radiology

The Department of Radiology is divided into three component parts, each of which functions under a director and an assistant director. The three subdivisions of the department are:

1. The Division of Radiation Therapy
2. The Division of Roentgenology
3. The Division of Isotope Medicine

The three departments, their function, personnel and equipment will be described in detail.

First, the Department of Radiation Therapy. This division treats, with X-ray, or radium, or cobalt, the various and many types of tumors, cancers and related diseases which the City of Hope accepts for care.

Many cases of cancer are treated by a combination of surgery and deep X-ray. After the surgery has been performed and in a few selected cases, before surgery, the patients are given a planned course of X-ray therapy. For this purpose the City of Hope has a very large, ultra-modern unit, built for the Institution by the General Electric Corporation. This Maxitron, as it is called, can be operated at 100,000 volts for treatment of diseases which are located near the surface, and at 200,000 and 250,000 volts for the treatment of deep-seated forms of malignant disease. This large X-ray unit is housed in a specially lead-lined room, the room having been constructed for this huge two-ton piece of equipment.

Since the installation of this unit, the Division of Therapy has treated a great many cases of cancer of the breast, after they had had surgery. Large numbers of cancers of the female organs have been treated with X-ray and a combination with radium. Several lung tumor cases have received X-ray treatment after surgery. Many patients with spread of cancer to various bones have been given courses of X-ray treatment. A fair number of skin cancers have been treated with complete success. Several cases of leukemia have been benefitted by X-ray therapy. In addition, several benign conditions such that may occur in our patients (especially in the tuberculosis section) are given treatment. A partial list of such is Bursitis, Arthritis, Dermatitis (skin irritations) and Keloids (scar tissue formations).

The majority of the patients have their treatment while they are in-patients at the hospital. Those who are well enough to be ambulatory and who can arrange for satisfactory transportation, are treated as out-patients.

The sequence of events in the treatment of a cancer patient can best be described by taking a typical case through from entry to discharge. A patient with cancer of the cervix (female organ) is admitted to the hospital. After a complete diagnostic work-up, the patient is presented to the Tumor Board, which recommends radiation therapy. Then the Chief of the Department and his assistant see the patient and plot a detailed course of treatment which will involve daily treatments to specific areas with high

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to three component parts, an assistant director. The

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This division treats, with any types of tumors, cancers accepts for care. Operation of surgery and deep and in a few selected cases, and course of X-ray therapy. age, ultra-modern unit, built operation. This Maxitron, as treatment of diseases which 250,000 volts for the treat- ment. This large X-ray unit is having been constructed for

Department of Therapy has treated after they had had surgery. Some have been treated with lung tumor cases have re- sults with spread of cancer ray treatment. A fair number to success. Several cases of py. In addition, several benign cases (especially in the tuber- cular list of such is Bursitis, Arth- ritis (scar tissue formations). treatment while they are in- enough to be ambulatory and are treated as out-patients. of a cancer patient can best be from entry to discharge. A pa- tient is admitted to the hospital. Then the Chief of the De- partment plot a detailed course of treatment to specific areas with high

voltage X-ray, and interspersed will be two, three, or four treatments with radium. The number of treatments and the dosage will vary with the extent of the disease and the condition of the patient. The course of therapy will require four or five weeks of almost daily treatments for completion. When actual treatment is finished, the period of observation and follow-up begins. The patient is given regular return appointments to the radiology out-patient service. At intervals of one week to four weeks during the first year, the patient is seen by either the Chief of Radiology or his assistant. The results of the treatment are evaluated and the condition of the patient and the area treated are noted in the patient's history. Thus continuity of care is assured. The personnel which treats the patient follows this individual after completion of care. A cancer patient is almost never discharged, but will be followed for years in the out-patient department. The routine out-lined assures the patient that complications or recurrence will be noted as quickly as possible and any further treatment which may be possible can be readily undertaken. Cures are hoped for and strived for. Unfortunately they are not always possible. It may be possible however by means of such treatment as this department gives to achieve some measure of palliation; by this we mean the alleviation of pain and suffering and some prolongation of life under conditions of at least increased comfort.

The treatment with radium which the hospital carries on, requires the dose of a moderate amount of radium in platinum capsules, together with many applicators and holders of varying sizes and shapes. All this equip- ment and material the City of Hope has available for its patients.

For the varied treatments which the Department of Radiation Therapy gives, the personnel involved are:

1. The Chief of the Department together with his assistant. These two individuals are medical men with years of specialized training and experience in this particular field. Both of these men are members of the American Board of Radiology.

The department is making plans for important additions in equipment for cancer therapy. The most important of these are the Cobalt Bombs, or Cobalt Therapy units, as they are called. These units are the newest de- velopment in the use of radio-active material. We are in the process of acquiring in the very near future, one so called small source Cobalt Bomb. This one will have 200 to 300 curies of radio-active Cobalt. It is planned that we will get in addition, a much larger one which will contain 1250 curies. This large unit when it is turned on, will deliver radiation equiva- lent to a 2,000,000-volt X-ray machine. For these machines, we will have to build special rooms; the larger one will require as much as three-foot con- crete walls for protection of personnel on the outside. The shielded head, which will contain the Cobalt, will weigh as much as 3000 pounds. These units will be used in the treatment of deep-seated cancers. The radioactive Cobalt is being obtained from the Atomic Energy Commission. It has the equivalent strength of many millions of dollars worth of radium.

These new Cobalt beam units are being constructed for us in conjunc- tion with plans and developments carried out by the United States Atomic Energy Commission. The therapy department also needs and hopes to acquire a low voltage and intermediate voltage therapy unit, to adequately care for the superficial cancers on the skin and near the surface.

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REPORT OF X-RAYS - JANUARY 1 - MAY 31, 1953

January	Pts. 497	Films	1609
February	" 534	"	1538
March	" 389	"	1507
April	" 548	"	1435
May	" 594	"	1509
	2,472		7,576

X-RAY THERAPY

	Pts. Visits	Areas Treated	
January	113	141	
February	169	253	
March	215	294	
April	100	153	
May	121	205	
	717	1,046	

CANCER PATIENTS TREATED WITH RADIUM IN FIRST FIVE MONTHS OF 1953

January	2	April	2	
February	3	May	3	
March	3			
		Total	13	

CANCER PATIENTS TREATED WITH RADIOACTIVE ISOTOPES IN FIRST FIVE MONTHS OF 1953

January	6	April	0	
February	4	May	6	
March	4			
		Total	20	

2. DIVISION OF ROENTGENOLOGY

This division or subdepartment makes all of the X-ray films of bones and organs taken in the hospital. There are numberless types of X-rays to be made, from simple ones of bones to complex planigrams which are depth X-rays of tissues and organs taken at specific levels below or between skin surfaces. The Department of Roentgenology carries out the difficult and detailed fluoroscopic and radiographic examinations of the heart and lungs, and of the esophagus and stomach and whole intestinal tract. There are serial and complex examinations made of the kidneys and the bladder. There are multiple X-rays made of the skull to rule out various kinds of diseases. There is no bone or organ of the human body which is not examined by X-ray in this department of the hospital.

In order to carry out this multiplicity of examinations, the department employs the full-time service of a Radiologist trained by years of teaching and experience in the making of and the interpretation of fluoroscopy and X-rays. In order to make the many X-ray films required, a staff of four full-time specially trained X-ray technicians is employed. In addition the department uses a secretary and two clerks.

The equipment large X-ray units turned out each with a third very large together with one of Chest Diseases. cient of equipmen X-ray on films, of This great new pic equipment itself w

3. The third divis medium. This div the new materials products are chen acting piles of the such plants as that these isotopes onl required that the training in their ution, it is required sonnel and patien isotopes give off. to receive approva ices of a carefully all of our isotope might be damagin A.E.C. recommend to any of the radi

The departmen isotopes as colloid active gold, radioa disease and we be that we are using cancer, and in th this disease.

It is planned to adequately service radioactive materi

The isotope dr department of Ra the Health Physic has been taught to been used.

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MAY 31, 1953

.....	1609
.....	1536
.....	1507
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.....	7,576

visits	Areas Treated
3	141
9	253
7	294
9	153
4	205
7	1,046

RADIUM IN FIRST 1953

.....	2
.....	3
Total.....	13

RADIOACTIVE ISOTOPES IN 1953

.....	0
.....	6
Total.....	20

TECHNOLOGY

of the X-ray films of bones and other less types of X-rays to obtain milligrams which are depth measurements below or between skin levels carries out the difficult and delicate work of the heart and lungs, the intestinal tract. There are also examinations of the kidneys and the bladder. To rule out various kinds of disease of the body which is not examined by X-rays, the department has been trained by years of teaching and the use of fluoroscopy and radiography, a staff of four full-time technicians. In addition the de-

The equipment utilized by this department numbers two complete and large X-ray units which enable us to make the hundreds of X-ray plates turned out each week. The patient load is ever increasing to the point that a third very large and complete X-ray and fluoroscopic unit is required together with one or more fluoroscopes for the exclusive use of the Division of Chest Diseases. It is also planned to acquire the newest and most efficient of equipment for Angio Cardiography. This is the visualization by X-ray on films, of the heart chambers, and the whole blood vessel system. This great new piece of equipment will require a room to house, and the equipment itself will cost many thousands of dollars.

3. DIVISION OF ISOTOPE MEDICINE

The third division of the Department of Radiology is that of isotope medicine. This division employs in research and diagnosis and treatment the new materials made available by the Atomic Energy Commission. These products are chemicals that are made radio-active in the large chain-reacting piles of the Atomic Energy Commission. They are sent to us from such plants as that at Oak Ridge, Tennessee. The A.E.C. grants the use of these isotopes only to carefully chosen institutions and individuals. It is required that the individual in charge of the isotopes shall have special training in their use and in the hazards encountered in their use. In addition, it is required that the strictest of precautions be taken to protect personnel and patients from the extremely dangerous radiation which these isotopes give off. Our Department Chief has had the needed experience to receive approval from the A.E.C. The department also employs the services of a carefully trained A.E.C. approved health physicist who calibrates all of our isotopes. He monitors all areas for dangerous radiation which might be damaging to personnel. It is his responsibility to administrate the A.E.C. recommendations for the safety of all persons who may be exposed to any of the radiant energy from the isotopes.

The department is carrying on extensive research in the use of such isotopes as colloidal chromic phosphate, Radioactive phosphorous, Radioactive gold, radioactive iodine. These are tried in various forms of malignant disease and we believe that our research efforts are encouraging. We feel that we are using some of these new materials for advance in knowledge in cancer, and in the relief from some pain and suffering that results from this disease.

It is planned to expand and enlarge the isotope department in order to adequately service the growing need of the research department for the new radioactive materials.

The isotope department uses the time and services of the Chief of the department of Radiology, one full time specially trained technician, and the Health Physicist. In addition, there is trained nursing personnel that has been taught to handle patients and patient waste, where isotopes have been used.

A great deal of special equipment is employed by the department. A partial list includes expensive Geiger tubes and circuits together with a large scaling or counting mechanism. A Geiger tube monitor with tubes of varying window thickness for the determination of contamination of materials and equipment by radioactive substances. For example, syringes and apparatus used to administer radioactive isotopes must be stored for

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as much as 3 months before they can be used again, in order that they shall become decontaminated. Frequently dressings and patient waste must be stored in isolated and protected areas until the radioactivity shall decay before they can be burned or dumped into the sewage system.

The handling of these materials is complex and dangerous and can be trusted only to persons cognizant of the manifold problems.

During the next several months much additional equipment will be required by this department to augment its service to research and cancer therapy.

A summary of the growth of the department of Radiology in the past 2 years may be summarized as follows:

In the Division of Radiation Therapy

1. The maxitron was placed in use and treatment schedules have grown from three (3) patients treated per day to an average of 10 per day. It is expected that this may double in the next year.
2. The department will acquire two Cobalt bombs and take on added research and treatment of many forms of malignant diseases.
3. There will be added additional radium and radium equipment.

These activities will require in addition to our present staff, the services of a physicist.

In the Division of Roentgenology

The number of patients cared for each day has increased during the past year from an average of 10 per day to an average of 25. A rapidly increasing daily patient load is anticipated during the coming year. The department now makes an average of 7500 x-ray film exposures each month. A year ago the average was well under 3000. With the new x-ray units ordered, the capacity of the department will be much increased and such an increase is essential since the growing hospital needs are taxing our present facilities.

The Isotope Division

One year ago this division was just beginning its activities and the month by month increase in the number of patients treated has been marked. The budget for this department will have need to be raised. The cost of materials is high. Two patients a week are treated with radioactive chromic phosphate. The cost of the material itself for each of these patients is approximately \$75. This represents only a small fraction of the cost of producing this material; the major expense of which is borne by the Atomic Energy Commission. It is planned to treat and to use experimentally more and more of the radioactive isotopes.

Submitted by
MELVILLE L. JACOBS, M. D.
Director of Radiology

Department

The City of Hope excessive growth, of believe that the growth controlled, integrated, The growth and development of necessary creation of necessary Program. Recently the reorganized to carry c

The Administrative the various department structure in every way sion has been completed with a view toward off and techniques, coup sonnel, and money. He treatment of the pati performance of admini

Services to the pati reported by the heads this expansion. The ne to patients, also requir in such activities as the cal personnel, the purc ments, the provision departments, and the e a minimum budget.

The Department of ministration, and is co Director of the Lay B pital, especially those c closely planned and ce The Director of Admini Administrator a man w supervised work experic work closely with the L and assistance in every expert in his field: Hou nel, Purchasing, Garden

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The following projec of which we are prou which can be demonst