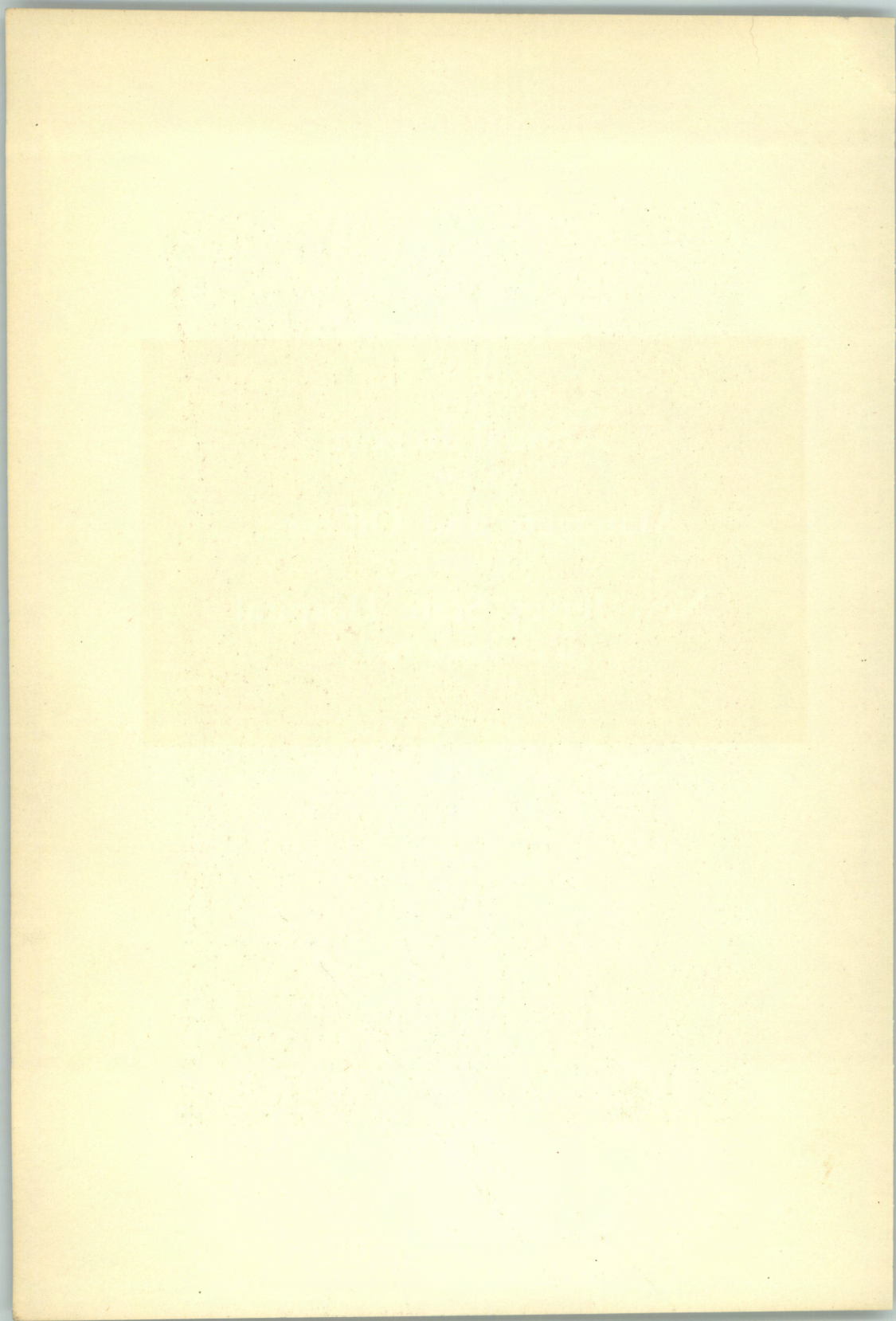


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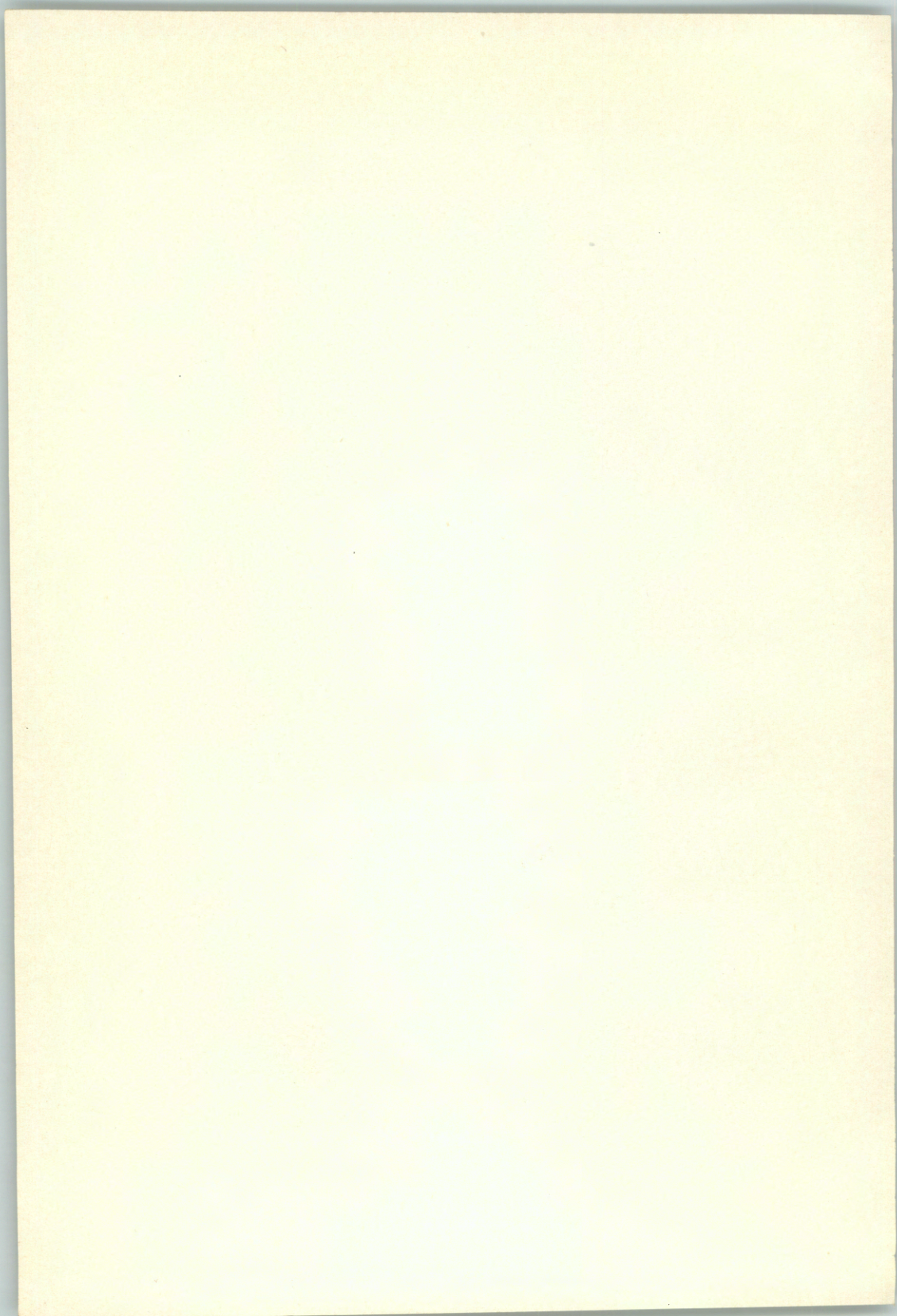
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OF THE
Managers and Officers
OF THE
New Jersey State Hospital
At Greystone Park

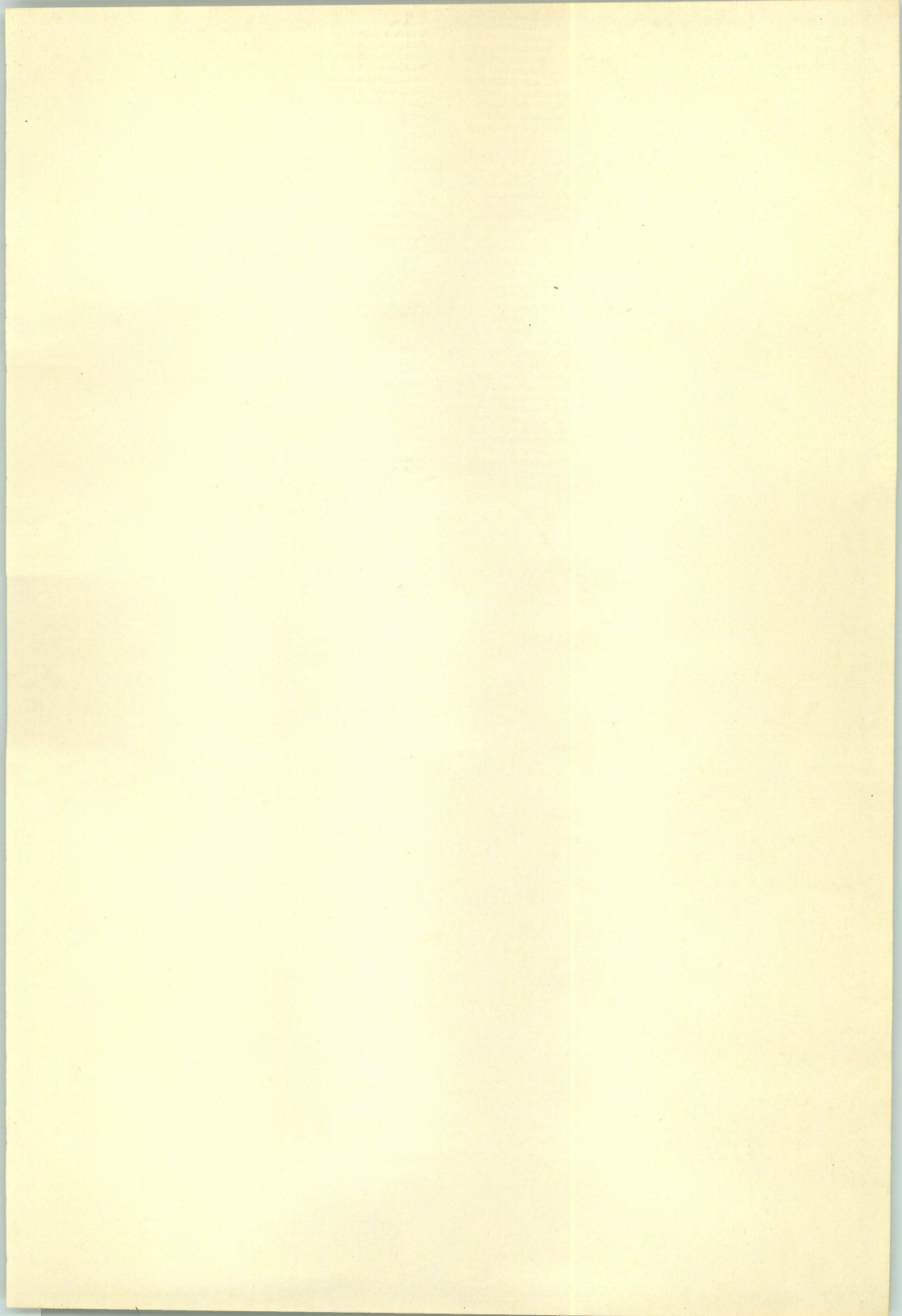
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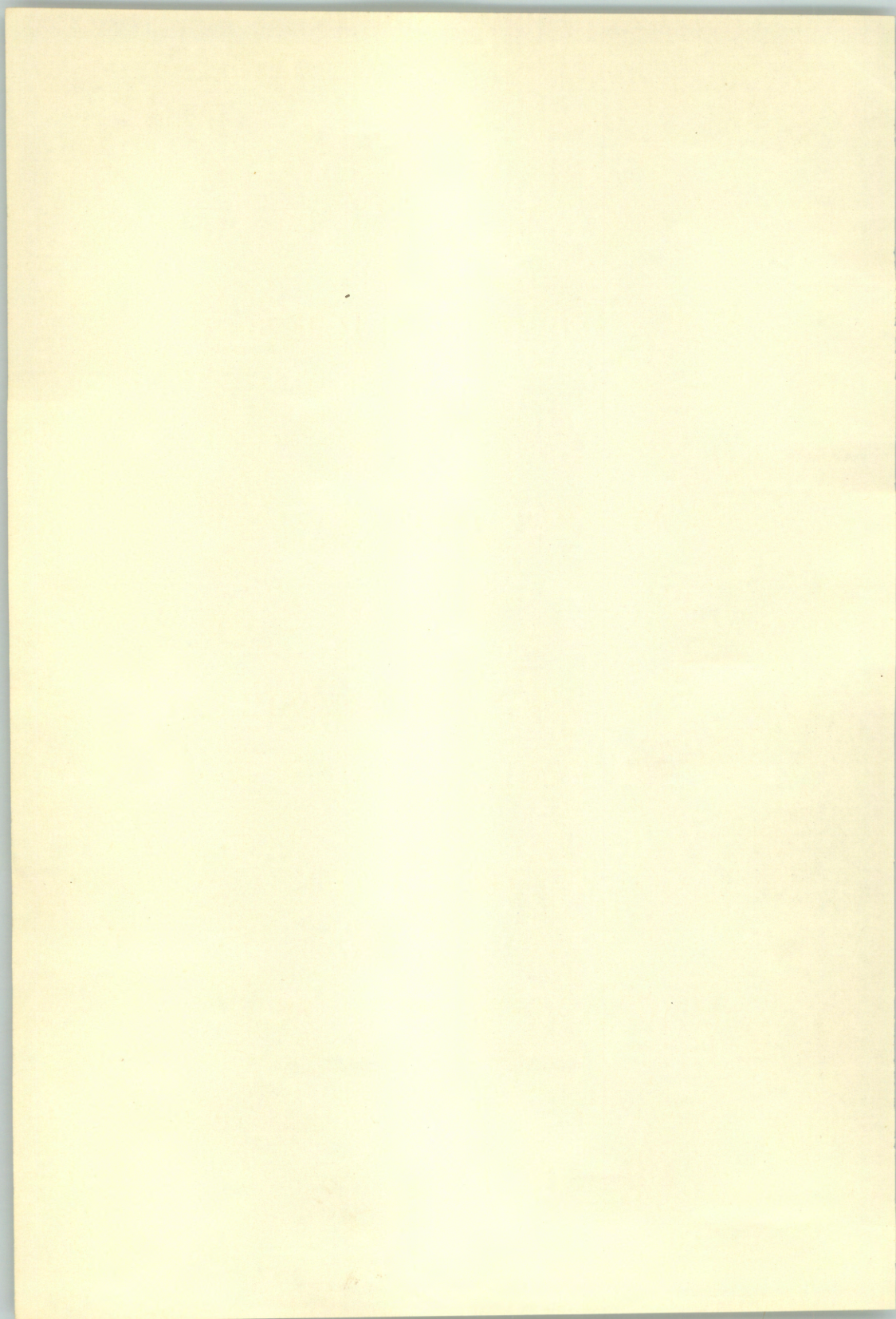




MEMBERS OF THE MEDICAL STAFF







THE
SEVENTY-EIGHTH ANNUAL REPORT
OF THE
MANAGERS AND OFFICERS
OF THE
NEW JERSEY STATE HOSPITAL
AT
GREYSTONE PARK
FOR THE YEAR ENDED JUNE 30
1953

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EMANUEL H. FEIRING, M. D.	Neuro-Surgery
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This Hospital is approved by the

JOINT COMMISSION ON ACCREDITATION OF HOSPITALS

of the

AMERICAN COLLEGE OF PHYSICIANS

AMERICAN COLLEGE OF SURGEONS

AMERICAN HOSPITAL ASSOCIATION

AMERICAN MEDICAL ASSOCIATION

CANADIAN MEDICAL ASSOCIATION

Residency Program in Psychiatry

approved by the

COUNCIL ON MEDICAL EDUCATION AND HOSPITALS

of the

AMERICAN MEDICAL ASSOCIATION

and the

AMERICAN BOARD OF PSYCHIATRY AND NEUROLOGY

92-212
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JENNIE BERMAN, M. S. W.	Director of Social Service
MARGARET DEVRIES	Director of Occupational Therapy
DOROTHY E. JOHNSON	Supervisor of Recreation
PHILIP B. ROBERTS, PH. G.	Pharmacist-in-Charge
RUTH MILK WICK, A. B., B. S.	Senior Librarian
RICHARD E. WINANS	Personnel Director
HENRY E. LANDESMAN, M. E.	Engineer-in-Charge
WILLIAM G. BEUCLER	Building Service Supervisor
JAMES B. STUART	Farm Supervisor

Northern New Jersey Mental Hygiene Clinics

AGNES P. MCGAVIN, M. D.	Director
MILDRED H. HURLEY	Director of Social Service

*Resigned

**Deceased

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Report To The Commissioner
To The Honorable Sanford Bates,
Commissioner of Institutions and Agencies:

The Board of Managers of The New Jersey State Hospital at Greystone Park present to you their seventy-eighth report, together with the report of Dr. Archie Crandell, Medical Superintendent and Chief Executive Officer, for the fiscal year ended June 30, 1953.

We believe that you are acquainted with the fine record of this hospital under the direction of Dr. Archie Crandell, Medical Superintendent and Chief Executive Officer; we do feel that everything possible should be done to provide still better treatment for our patients and shorten the period they are required to stay in the hospital. Our income from patient care during the past fiscal year was the highest in the history of the hospital. This money, however, is not reflected at the institution, as all items are budgeted, and we must appeal to you and your department for adequate funds to make Greystone Park the outstanding hospital in the country for the mentally ill. The overcrowding of the hospital, as shown in the report of the Chief Executive Officer, is definite evidence that proper supervision and segregation of patients is extremely difficult. Substantial relief must be given the hospital through the transfer of more than 2,000 patients to other institutions or through a building program on our own grounds.

On July 1, 1952, there were 7,373 patients on the books. On June 30, 1953, there were on the books 7,567 patients, excluding 1 female infant; an increase of 194 patients, made up of 123 men and 71 women. There were actually 6,480 patients resident in the hospital, excluding 1 female infant; 1,087 were out of the hospital on visit, temporary visit, or missing. During the year there were admitted 2,065 patients. The discharges numbered 1,243. Of those regularly discharged, 523 were recovered, 583 improved, 7 unimproved, and 49 without psychosis. The deaths numbered 629, and the total under care was 9,438 patients. The recovery rate was 35.7 per cent and the improved 39.8 per cent based on the number of first admissions which was 1,464.

Eleven regular meetings of the Board were held during the year and one special meeting, with an attendance of 62; conferences, committee meetings, and visits numbered 318, which made 380 recorded trips to the hospital by Board members. In addition, there were conferences held off the grounds or outside office hours not listed in the official records.

Mr. Abell and Mr. Evans again had perfect attendance records, while Mrs. Johnson was absent only once. Mrs. Leary attended eight regular meetings and Dr. O'Hanlon, Mr. Moseley and Mr. Littlefield attended six.

The Committee on Annual Report reviewed the report submitted to us by the Medical Superintendent and Chief Executive Officer, and we feel that all his comments and recommendations are for the best interests of the institution. We sincerely hope that you will give these recommendations your very careful consideration.

We know that you and the entire official staff of the Central Office have worked endlessly for the betterment of the various institutions in the State of New Jersey, and we take this opportunity to express our appreciation.

We also express our appreciation to Doctor Crandell and his entire staff for the cooperation given us during the past year, and we will assure you that we shall do everything within our power, too, for the best interests of the patients under the care of the hospital.

Respectfully submitted,

GEORGE O'HANLON, M. D., *President*

FRANK D. ABELL, *Vice-President*

FREDERICK S. MOSELEY, JR.

RUTH STILES JOHNSON

SCRIVEN S. EVANS, JR.

MARGARET B. LEARY

WILLIAM E. LITTLEFIELD

**Treasurer's Report of Cash Receipts and
Disbursements for the Fiscal Year
Ended June 30, 1953**

RECEIPTS

From:

Bergen County	513,934.85
Burlington County	338.10
Camden County	1,110.33
Cape May County	600.36
Cumberland County	1,073.09
Essex County	780,883.26
Gloucester County	605.86
Hudson County	238,971.21
Hunterdon County	1,049.59
Mercer County	543.57
Middlesex County	13,257.14
Monmouth County	8,948.99
Morris County	232,920.63
Ocean County	521.82
Passaic County	627,413.70
Salem County	544.35
Somerset County	4,799.04
Sussex County	31,659.83
Union County	52,360.40
Warren County	2,107.88
Non-Indigent Patients	393,210.53
State Contributing Patients	45,138.15
Excess Maintenance Collected by Counties	86,459.44
Miscellaneous Collections	24,029.38
	<hr/>
	\$3,062,481.50

DISBURSEMENTS

Amount of Collections deposited with State Treasurer..... **\$3,062,481.50**

ROBERT A. LOWERY
Treasurer.

Population by Counties in N. J.

1950 Census

Atlantic	132,879
Bergen	536,310
Burlington	135,926
Camden	300,287
Cape May	36,924
Cumberland	88,727
Essex	900,887
Gloucester	91,719
Hudson	646,136
Hunterdon	42,689
Mercer	229,412
Middlesex	264,659
Monmouth	223,306
Morris	164,613
Ocean	56,117
Passaic	337,308
Salem	49,615
Somerset	98,740
Sussex	34,308
Union	397,559
Warren	54,407
Total	<u>4,822,528</u>

Six Counties: Creystone Park service area 2,619,562

Report of the Chief Executive Officer

To The Board Of Managers:

The seventy-eighth annual report of The New Jersey State Hospital at Greystone Park, covering the fiscal year ending June 30, 1953, is respectfully submitted.

The increasing overcrowding has been our greatest difficulty, although our admission rate for the first time in nearly ten years failed to show an increase over the previous year. However, the number of patients under treatment, the maximum census, the number resident in the hospital, the number on visit, and the census at the close of the year all showed increases and reached new heights. With a rated capacity of 4,290 the hospital is overcrowded by 51 per cent, which has made proper classification and effective treatment a most difficult problem.

The gradual fireproofing of the south side of the Main Building has been continued; part of Tier 3 was completed and work is now in progress on part of Tier 2. Patients formerly residing in that area have still had to be crowded into other portions of the building. The completion of the whole project on the South Side will require at least two more years. On March 11 the new shop-type building was opened, some three hundred patients being moved into it from the Dormitory Building. At the end of the year contracts had been let and work was about to start on the reconstruction of the Dormitory Building. This work will be done in four or five sections; as each section is completed it will be occupied by patients and a new section vacated so that the work can be continued. The reconstruction of the Dormitory Building will probably require four or five years. The South Side and the Dormitory reconstruction provides no additional bed space, but it is hoped that plans can be completed during the next year to erect a building to house four hundred or five hundred working patients, using money from the second bond issue.

The educational activities of the hospital, under the supervision of the clinical director and the consultant in training and research, are pictured in a training bulletin issued at the close of the year. In addition to a residency program in psychiatry, approved for two years of training

by the Council on Medical Education and Hospitals of the American Medical Association in concurrence with the American Board of Psychiatry and Neurology, training is offered to theological students, graduate and undergraduate nurses, psychiatric technicians and attendants, and hospital volunteers.

Health

The hospital has fortunately been free of any illness of epidemic proportions during the year, and the general health of both the employees and the patient population has been good. All new employees as well as all newly admitted patients have routine physical and laboratory examinations, and in this way morbid conditions are uncovered. The tuberculosis case finding utilizes both initial and repeat chest-xrays in which the entire hospital population is surveyed annually. An occasional case of amoebic dysentery was uncovered during routine laboratory testing, and responded to specific and antibiotic treatment. Employees and patients handling food are examined at frequent intervals. The Department of Agriculture has continued its supervision of food products delivered to the hospital, and thus we have accepted only food products of standard quality.

There are still six women who are typhoid carriers in isolation on a hospital ward of the Main Building. They have continued in isolation since the mild typhoid outbreak in 1944 and, since their general health is excellent, we will undoubtedly have this group with us for some time.

Statistical Resume

General Data: During the year ending June 30, 1953, there were admitted 2,065 patients (1,038 men and 1,027 women). This figure is 75 less than last year. The admissions included 1,464 first admissions (759 men and 705 women), 537 readmissions (263 men and 274 women), 50 transfers from other similar hospitals in New Jersey (16 men and 34 women) and 14 special cases, all women admitted for surgery from the North Jersey Training School at Totowa. The above figures include 26 men committed under the Sex Offenders Act (Chapter 207, Laws of 1950), together with 10 patients, all men committed for examination, study and classification under the Provisions of Section 2:192-1.2 Revised Statutes of 1937. The number of patients discharged, including deaths, was 1,872 (916 men and 956 women), making an increase of 194 patients on the books at the close of the year.

There were under treatment during the year 9,438 patients (4,504 men and 4,934 women), which was 104 more than the preceding year. The maximum census for the year was 7,597 obtained on June 12th and the highest number actually in the hospital at any one time was 6,528 on June 12th. The average daily number in the hospital was 6,407.7. At the close of the year there were in the hospital 6,481 patients (3,109 men and 3,372 women, including 1 baby girl); 1,087 patients were out of the hospital; 1,075 patients (470 men and 605 women) were carried on visit or temporary visit, and 12 patients (10 men and 2 women, were carried as missing. This is an increase of 20 patients outside the hospital and of 174 actually in the hospital at the close of the year.

First Admissions: Of the 1,464 first admissions there were 1,117 patients of native birth (581 men and 536 women); the foreign-born numbered 347 (178 men and 169 women) or 27.3 per cent of the first admissions, which is .6 per cent less than last year. Both parents of 710 patients were also of native birth, while in 82 cases one parent was born in this country and the other was of foreign birth. Of the foreign-born patients, 69 were natives of Italy, 47 of Germany, 44 of Poland, 23 of Russia, 22 of Ireland and 14 of England. These six countries furnished 63.1 per cent of the foreign-born first admissions. The naturalized citizens numbered 185 and the aliens 162.

Tabulations of the psychoses of first admissions shows 447 patients diagnosed Chronic Brain Syndromes associated with Cerebral Arteriosclerosis, 330 with Psychotic Disorders, Schizophrenic reactions and 57 Manic Depressive reactions. These three groups accounted for 57 per cent. Other psychoses showing high incidence were Involutional Psychotic reaction 103, Alcoholic Intoxication 73, Psychosis with Psychopathic Personality 54, and Psychosis with Mental Deficiency 24.

The age tabulation shows that 526 patients were 60 years of age or over, accounting for 35.9 per cent of the first admissions. There were 144 patients under 25 years of age.

The civil condition of the first admissions was classified as follows: 422 single (272 men and 150 women), 601 married (307 men and 294 women), 323 widowed (110 men and 213 women), 69 separated (40 men and 29 women) and 49 divorced (30 men and 19 women).

Readmissions: The total in this group was 537 (263 men and 274 women). In the classification according to psychosis, 206 were suffering

from Schizophrenic reaction and 84 from Manic Depressive reaction; these two constitute 54 per cent.

Discharges: The total of those regularly discharged was 1,162 (575 men and 587 women). Of this number 523 (240 men and 283 women) were considered to have recovered from their psychoses. This is 35.7 per cent based on the number of first admissions, which is 1.9 per cent more than last year. Of those discharged as Recovered, patients suffering from Manic Depressive reaction constituted 21 per cent or 110. A total of 583 (288 men and 295 women) were discharged as Improved, or 39.8 per cent based on the number of first admissions, which is 1.4 per cent less than last year. The manner of discharge of the remaining patients was as follows: 7 Unimproved (2 men and 5 women) and 49 Without Mental Disorder (45 men and 4 women). In addition to those discharged, 67 patients (52 men and 15 women) were transferred to other similar hospitals in New Jersey; also 12 special cases, all women admitted from the North Jersey Training School at Totowa for surgery, were returned to that institution. The above figures include 15 men committed under the Sex Offenders Act (Chapter 207, Laws of 1950), together with 9 patients, all men committed for examination, study and classification under the Provisions of Section 2:192-1.2 Revised Statutes of 1937.

Deaths: During the year 629 patients died (289 men and 340 women). This is a rate of 6.66 per cent based on the number under treatment and is .12 higher than last year.

The largest single cause of death was arteriosclerotic heart disease, certified in 362 cases or 52.8 per cent of the total number; this is 5.3 per cent less than last year. Syphilis was the cause of death in 1 case, cancer in 18, bronchopneumonia in 115 and lobar pneumonia in 15.

The average age at death was .69 years higher than last year, being 71.40 years. At the time of death 521 or 82.8 per cent had passed the age of 60 years, a percentage .2 higher than last year. Those over 70 years of age totaled 398 and of this number 187 were in the 80's, 12 in the 90's and 2 patients reached the ages of 102 and 107.

The tabulation of the duration of hospital life showed that while 142 patients had been in the hospital less than one month, 50 patients had a residence of 20 years and over at the time of death, and of these 34 were suffering from Schizophrenic reaction.

The following transfers show the movement of non-resident and de-

portable cases encountered during the year: To mental hospitals outside the state, 20; to mental hospitals within the state, 67; to North Jersey Training School, 12; and deported, 1. There were 34 cases handled and reported who were removed by relatives, discharged or died.

Clinical Department

Dr. Laurence M. Collins, who has been a member of the staff of this hospital for thirty-six years and clinical director for twelve years, has continued the active supervision of the professional services. Dr. William H. Longley, assistant clinical director, has assisted him and had direct supervision of the educational activities and the hospital social service work. Through their leadership and the excellent work of the entire staff, the standard of professional care of the patients has been maintained on a high level throughout this year, even though our shortage of personnel and our overcrowding has reached a new high. The report of the clinical director follows:

Clinical Director's Report

For the first time in nearly ten years our admission rate failed to show a new high. There were 2,065 admissions during the year which was 75 short of the previous record high. As usual, the male and female figures were approximately even at 1,038 and 1,027 respectively. Of these, 1,464 were first admissions and 537 were readmissions. We also had 50 patients transferred in from other hospitals, 14 special cases from Totowa, 10 from the courts for presentence examination, and 26 sentenced under the Sex Offender legislation. The total number of patients under treatment was 9,438, a figure 104 higher than last year.

There were 35 fewer patients regularly discharged, but considering the drop in admissions the decrease is negligible. Staff attention to the prompt institution of therapy with the view of shortening the hospital stay was constantly emphasized and appears to have been at least partly responsible for arresting the steady upward climb of the in-patient census. For the past several years it has been noted that our census has been climbing at a steady rate. Our efforts to treat the patient quickly have now held the census steady and even reduced it by 50 patients from the January high of 6,525.

Figures of new admissions in diagnostic categories are given elsewhere and in general show percentages quite comparable to those of

last year. Central nervous system syphilis continues to be rarely seen and the cases are milder, usually found in the course of running routine laboratory tests rather than seen because of the overt symptoms of paresis or tabes. The problem of alcoholism and the economical use of our facilities recurs. Our policy has been to accept and treat all committed patients that are brought to us, and to admit those voluntary applicants in the best interests of the community and the individual patient.

There were 629 deaths in the institution during the past year, which when compared to our increased number of patients on treatment gives us a continued low mortality rate of 6.66 per cent. The average age at death was 71.4 years, .69 year higher than last year, in line with the continued lead shown by the category of cardiac deaths. The diminished resistance to infection of patients in this age group made them particularly susceptible to the hypostatic type of bronchopneumonia, which was the second large category of causes of death. Twenty-four of the deaths were coroner's cases; there were 160 autopsies, giving us an autopsy percentage of 26.32, which complies with the American Medical Association standards for approved hospitals.

The newest medical and psychiatric treatment methods have continued to hold our attention and constitute our practice throughout the hospital. The Fenwal system of parenteral fluid preparation has been installed. With this closed system of bottling sterile fluids of any type for intravenous or subcutaneous use we have a method which with speed and accuracy enables us to match the variety, sterility and pyrogen-free qualities of the best commercial products at a cost about one-quarter that of purchasing these items through usual channels. The system has a working capacity that will make it a community asset in event of local disaster and its versatility is shown by the fact that other pharmacologic products (novacaine, etc.) can be processed, and the system can be used for blood bank work as well if conditions warrant. In the past year we have obtained new equipment to better handle emergency situations. Our investigations of various drugs such as Marsilid and Rimifon in the therapy of tuberculosis, Antabuse in the treatment of alcoholism, and Metrazol cardiac stimulant tablets in cases of confusion contributed to by arteriosclerotic circulatory impairment, have put us in a position to use these drugs discriminately and properly. As in previous years major pharmaceutical companies were afforded the op-

portunity for displays of their products and occasional lectures and films of their latest research.

Group and individual psychotherapy has been increased in the past year as more of the staff developed capacities for the work. Dr. Longley and others have been conducting regular group therapy sessions, with individual therapy sessions as required by members of their groups, and have been the teaching nucleus for extending this work. Their group therapy activities have been conducted along with their other routine duties so that no more than two groups could be conducted simultaneously. From time to time in the past other doctors have conducted groups intermittently. At present there are six groups being conducted, working with 46 patients. During the year 86 patients received more than 5,100 hours of group therapy, and there were 1,800 more patient-hours of informal group discussions in the evenings scheduled by members of the organized groups. The size of the groups was kept down to 6-10 patients on the basis of past experience, and the goals of therapy were to create dynamic self-awareness, better and clearer interpersonal relationships, and an increased sense of personal acceptability and responsibility as a citizen. Various personal problems presented by individuals were restated in terms of the interests of the group and all members then collaborated to find the best possible solution. This repeated experience of successful self-expression within the framework of a group was emphasized throughout the work.

Staff training and education have continued during the year at the accelerated pace necessary to fulfill the requirements of the residency training program. Didactic lectures and courses were scheduled throughout the academic year at Greystone Park, and in New York at the College of Physicians and Surgeons and at the American Institute for Psychoanalysis. Dr. Fred Mettler of our consulting staff contributed very generously of his time and experience in most of the planning and we wish to express our gratitude for his efforts in our behalf. In addition to the program planning he himself conducted a course in Neuroanatomy in a very interesting and stimulating manner and was instrumental in bringing to us a distinguished staff of lecturers. We have continued to incorporate into the training schedule regular seminar sessions for the staff, regular clinical case presentations, x-ray film reviews, Journal Club meetings, and clinical pathological conferences. Rotation of the resident staff through the various services was continued for

training purposes throughout the year and the chiefs of services, acting as preceptors for the doctors assigned to them, conducted regularly-scheduled training interviews. Staff attendance at meetings of professional societies and public lectures was encouraged.

Regular staff meetings have continued to be held five times each week for the diagnosis and release of patients, as well as to consider in special cases matters of competency, driving privileges, need for guardianship, etc. These meetings have been attended by the affiliate nurses, psychiatric technician trainees, psychological interns, and clinical pastoral trainees as part of their regular training experience in this hospital. Monday afternoon rounds were made regularly with the superintendent to visit all new admissions of the previous week, establish a provisional diagnosis, and assign them to members of the staff for special study, diagnosis and treatment.

Psychological work under the direction of Miss Sylvia Friedman has been active. Screening tests have been performed on new patients, and test batteries administered to selected cases which presented diagnostic problems. Psychological interns assigned to this hospital for training during the year were Leon Hershkowitz, Alvin L. Galitzin, Milton Kramer and Morris Breakstone. Complete test batteries which included the Rorschach, Wechsler-Bellevue, Bender Gestalt and House-Tree-Person projective tests were given before and after the administration of Metrazol in cardiac-stimulant doses to a group of arteriosclerotic patients who were being studied. Lectures were given to groups of affiliate and graduate nurses and to the trainees of the clinical pastoral training program, and the psychologist conducted a course in Psychology for the psychiatric technician trainees.

The Shock Service under the direction of Dr. Esposito supervised the administration of 22,663 treatments in all. This included a total of over 11,000 ambulatory treatments given by the doctors on an ambulatory basis in other buildings as well as the Clinic. In the Clinic Building wards 6,670 insulin treatments were given to 429 patients, 724 electroconvulsive treatments were given to 85 patients, 3,560 combined shock treatments were given to 387 patients, and 11 patients were given 35 treatments with electroshock and curare. Drs. Ma, Anderson, Fenimore, Zigarelli and Pustroem gave treatments on their own services and thus made the working schedule lighter for Drs. Esposito and Dolinsky. From the investigation conducted in the previous year, Dr. Esposito con-

cluded that the Bromsulphalein Test was of definite value in patients having any history of liver dysfunction. With this test he eliminated from insulin treatment those cases which in former years had shown severe reactions to large doses of insulin, and he reports that as a result of having used this test no such case occurred this year.

The general tension of meeting the responsibilities of an ever-increasing in-patient population with a staff with many new members has somewhat lessened. Most of the doctors have completed a year and a half of very intensive training, and are integrating themselves into a functioning team that is producing results. The care of patients in this large institution is becoming less difficult. With official approval for accredited training, we look forward confidently to the work of the coming year. Staff spirit is good and with our increasing skill and experience as a group the results of our work must continue to improve.

Shock Therapy

Dr. Amedeo Esposito has continued the supervision of shock therapy in the hospital as well as the two wards in the Clinic Building where insulin and combined therapy are administered. Results obtained during the past year compare favorably with previous years. On Ward 14, 166 male patients had treatments completed; 11 were transferred to Lyons Veterans Hospital and 122 left the hospital on visit or were discharged during the year. On Ward 15 treatments were completed on 166 women; 140 of these left the hospital on visit or were discharged during the year. There were no deaths during the year directly attributable to insulin or electroshock treatments; 3 patients sustained compression fractures of the spine during electroshock treatments. Liver function tests were continued on all patients older than forty years or who had any signs of liver malfunction. By this test, many not suitable for insulin therapy were excluded. Intocostin and other curare products have been used in selected cases; anectine appears superior to the other curare products. In addition to electroshock as an anesthetic prior to transorbital lobotomy, 6 electroshock treatments have been administered routinely to all patients following operation.

Most patients receiving shock therapy were diagnosed schizophrenic and of the 332 cases treated during the year in the Clinic Building 80.2 per cent were discharged or on year's visit, 9.9 per cent were improved but still in the hospital and 7.9 per cent were unimproved in the hospital.

Roentgenology and Electrotherapy

Dr. Daniel G. Melvin has supervised roentgenology and electrotherapy in both the main unit in the Clinic Building and the smaller unit in the Tuberculosis Building. He has been assisted by a staff of four and Dr. Albert Abraham has acted as consultant in cardiology.

As a result of the routine chest survey of the entire hospital population, follow-up films and laboratory studies were done on 26 employees and 195 patients. Thirty-seven patients were found to have pulmonary tuberculosis in some degree and were transferred to the tuberculosis unit for treatment.

A total of 7,884 x-ray exposures were made, 1,496 of the mandible and maxilla, 566 of the head, 747 of the chest, 176 of the hip and 105 of the abdomen, with other areas examined in smaller numbers. A total of 2,388 electrotherapy treatments were given. Electrocardiograms increased to 331.

Dr. Joseph Zigarelli has continued the operation of the eight-channel electroencephalograph in the Reception Building.

Tuberculosis

At the close of the year Dr. John Ma was the acting head of the Tuberculosis Service with Dr. Daniel G. Melvin continuing as consultant. Drs. Mamantov and Jurkans have assisted him. During the year 51 men and 24 women were admitted to the service and 27 men and 18 women were transferred to other buildings. There were 22 male and 13 female deaths during the year. Fluoroscopic examinations totaled 3,729; there were 1,599 artificial pneumothorax treatments given and 319 pneumoperitoneum treatments. There were 7,968 x-ray examinations, mostly of the chest. The research on the use of isonicotinic acid hydrazide and streptomycin is being continued. The occupational therapy program has enlisted 37 men and 34 women and merits expansion. Thirty-six patients have received shock therapy with encouraging results. Three additional television sets have been provided and the expanded recreation program has been greatly appreciated by the patients.

Surgery

Dr. Edward Kessler has continued immediate supervision of the Surgical Service, with Dr. Collins as consultant.

During the year 3 operations were performed for thyroid disturbances; 18 operations for various types of hernias, including strangulated,

ventral and postoperative; 14 operations were performed for various gynecological conditions and 15 for gastro-intestinal disturbances; 3 radical breast amputations were performed and 1 pilonidal cyst together with 3 bottle operations for hydrocele; there were 5 operations for radical amputation of extremities due to gangrene and circulatory disturbances; 2 rib resections for empyema; 3 operations for lacerations of tendons; 2 operations for insertion of Smith-Peterson nails and 1 operation for insertion of a Lorenzo screw. There were also a great number of fractures, both simple and compound, which required both open and closed reduction. The majority of these fractures occurred in people with pathological bone changes, the result of senile degeneration.

During the year 40 transorbital operations were performed and it was the practice that following each operation at least 6 electroshock treatments were administered to each patient.

A large number of patients required minor surgery. Complete reports will be found in the patients' case records.

Joan C. Fenimore, registered nurse anesthetist, reported 230 anesthesias of which 110 were local and 47 spinal.

During the year 2 boys and 2 girls were born alive in the hospital and there was 1 stillbirth.

There was one accidental death, a patient in the Dormitory Building who fell down the dust chute. One woman patient while on visit took arsenic; she was returned to the hospital and her subsequent death was listed as due to suicide.

Eye, Ear, Nose and Throat

This service has continued under the direction of Dr. Perry J. Gambill, a member of the hospital staff for twenty-nine years. He reports that routine examinations were performed on 2,065 newly-admitted patients, as well as 1,611 special examinations. There were 2,165 patients who received 4,574 treatments, and 309 surgical operations were performed, including 90 tonsillectomies. There were 939 special examinations performed on employees and 435 employees received 879 treatments as well as 139 surgical operations, which included the removal of foreign body from the eye in 39 cases. Refractions were performed for 801 patients and 53 employees.

Urology and Proctology

Dr. Marshall D. Hogan has supervised urology and proctology dur-

ing the year, making visits to the hospital as indicated. He reports 460 proctological examinations and 5 hemorrhoidectomies as well as 4 suprapubic operations and 98 urological examinations. Colonic therapy was administered to 247 patients who received 2,648 irrigations; there were also 162 catheterizations performed.

Dentistry

Dr. William J. Byatt, senior resident dentist, has been assisted by Dr. Edgar M. La Bar and two dental aides as well as Mr. Patrick DeNapoly, dental technician. During the year there were 3,649 patient visits to the dental clinic and 3,160 patients were examined, including 541 x-ray examinations. There were 2,577 extractions, 755 amalgam and 322 silicate fillings as well as 1,767 treatments for oral conditions. There were 164 surgical removals and 13 removals of impacted teeth as well as 5 fractured mandibles treated. The laboratory processed 239 dentures, including 117 full upper or lower, and repaired 212 dentures.

Chiropractic

During the past year Dr. Frank J. Gasser of Morristown has maintained a Chiropractic Clinic two mornings per week. He reports a total of 346 patients received 704 treatments, and states that a survey of older patients indicates that much more time could be profitably spent in caring for foot ailments.

Pathology and Bacteriology

The laboratories, under the supervision of Dr. Abraham J. Gitlitz, pathologist, with a staff of twelve, have been active throughout the year. Some old equipment has been replaced and new apparatus added to increase efficiency and keep abreast of new methods in order to maintain a high standard. A battery of laboratory tests is performed on each newly-admitted patient and special examinations as indicated. Liver function tests have been continued on all candidates for insulin shock therapy.

There were 7,890 urinalyses performed.

Hematology included 4,076 red blood cell counts, 4,078 counts of white cells and 2,580 differential counts. Hemoglobin was determined in 4,157 cases, bleeding and clotting time in 151 and sedimentation rate in 498. Blood typing was done in 3,588 cases with Rh factors being determined in each case and cross-matching in 22 cases.

Blood chemistry determinations included 5,099 for blood sugar, 2,620 for urea nitrogen and a lesser number for many other factors.

Immunological tests included 4,347 Wassermann and Kline determinations as well as 272 spinal fluid examinations. Bacteriological tests included 371 smears of sputum for tubercle bacillus as well as 75 for other organisms, 121 cultures and 36 Guinea pig inoculations. There were 1,415 feces examinations for ova and parasites and 1,361 for occult blood.

Among the other examinations listed were 443 cephalin cholesterol flocculation liver function tests and 199 bromsulphalein tests. From the 160 autopsies performed a total of 2,235 tissue pieces were examined. The total of all tests of all sorts performed during the year was 55,965.

Health Service for Employees

Dr. Joseph Donovan, who has been on the staff for twenty-nine years, has continued in charge of health service for employees, which includes the Out-Patient Clinic as well as the ward in the Clinic Building for employees requiring hospitalization. His report shows that 2,018 new applicants were given physical examinations and 6,834 physical re-checks and treatments were performed. There were 653 admissions to the employees' ward, 640 discharges and 6 deaths. Among the conditions treated were all those found in a general hospital, the greatest number being for the acute cold and respiratory infections prevalent during the winter season.

Staff Matters

Staff assignments generally have undergone little change during the past year. Dr. Theodore Gebirtig has continued as assistant superintendent, and Dr. Laurence M. Collins, clinical director, has continued to supervise the treatment and disposition of patients, assisted by Dr. William H. Longley, assistant clinical director, who has also directly supervised the resident training program and group psychotherapy.

In the Reception Building, Dr. Frank D. Fenimore has directed the female reception service, and Dr. Joseph F. Zigarelli, the male service as the electroencephalographic work. In the Clinic Building, the health services for the employees were provided under the direction of Dr. Joseph Donovan; Dr. Perry J. Gambill supervised the eye, ear, nose and throat work; Dr. Edward Kessler was in charge of surgery as well as the medical wards; shock therapy was under the direction of Dr. Amedeo

Esposito who supervised all ambulatory shock service throughout the hospital, and the dentistry has been under the supervision of Dr. William J. Byatt. In the Main Building, the female service continued under the direction of Dr. Raymond J. Harquail, and the male service under Dr. Archie Sofman. The Dormitory service, including the unit where working patients reside and the temporary senile unit, has been under the charge of Dr. Helen I. Anderson. Dr. Daniel G. Melvin has been responsible for the operation of the X-Ray Department, and has also served as consultant in the administration of the treatment of patients in the Tuberculosis service, which has been directly supervised by Dr. John Ma.

Two resident physicians appointed to the staff early in the spring, Marek Ellenzweig and William F. Windsor, left May 19, 1953, to enter the Medical Corps of the United States Army.

Much credit is due the medical staff for its effective and cooperative function throughout the year. Scientific meetings and lectures given in this area have been well attended by staff members.

Dr. Crandell attended the annual meeting in May of the American Psychiatric Association in Los Angeles, where he discussed the effects of prefrontal lobotomy on patients with severe chronic schizophrenic psychoses, and also served on the A. P. A. Board of Tellers. He completed a course in the medical aspects of radioactive isotopes at the United States Naval Medical School in Bethesda, Maryland. He attended many local, state and national meetings, including the annual meetings of the Association for Research in Nervous and Mental Disease, the American College of Physicians, the American Hospital Association, the Aero Medical Association, the Medical Society of New Jersey annual meeting in Atlantic City, the annual meeting of the American Medical Association in New York City, and the Medical Military Symposium at the United States Naval Hospital in Philadelphia. At the New Jersey Trudeau Society meeting at Lyons he discussed a paper entitled "Collapse and Resectional Therapy for Pulmonary Tuberculosis in Psychotic Patients."

During the past year Dr. Crandell served as president of the New Jersey Neuropsychiatric Association, past-president of the Morris County Medical Society, president-elect of the New Jersey District Branch of the American Psychiatric Association, and has continued in the capacity of consultant in neuropsychiatry to the Surgeon General of the United States Air Force.

Dr. Gebirtig represented the hospital at meetings of many organ

izations, including the National Association for Mental Health, the New Jersey Welfare Council, and the American Association of Psychiatric Clinics for Children. He was also present at the meetings of several Councils of Social Agencies, Newark, Hackensack, Passaic and Morris-town; and he attended the Governor's conference on chronic illness as well as the conference on juvenile delinquency in New York. Dr. Longley took part in the Fourth Mental Hospital Institute of the American Psychiatric Association, held at Columbus, Ohio.

The staff was well represented at the Third Annual Institute in Psychiatry and Neurology at Lyons, the regular meetings of the New Jersey Neuropsychiatric Association and the Morris County Medical Society. Many members also attended the annual meeting of the Medical Society of New Jersey, and of the American Medical Association in New York City.

It is hoped that the staff can be augmented gradually to approach the ratios suggested by the American Psychiatric Association, and in the forthcoming budget several additional positions will be requested.

The housing shortage for the staff has met no relief during the past year, and we are requesting that within the near future more adequate provision for this urgent need will be made.

Appointments

Resident Physicians

Yaroslav Panchuk, M. D.....	October 27, 1952
Lloyd Saltus, M. D.....	November 10, 1952
John W. Lathen, M. D.....	November 17, 1952
Elmar Kurzbach, M. D.....	January 15, 1953
Marek Ellenzweig, M. D.....	February 2, 1953
William F. Windsor, M. D.....	March 2, 1953
Antons Jurkans, M. D.....	March 23, 1953
Mary Mullan, M. D.....	April 1, 1953
Michael Coffey, M. D.....	April 15, 1953
Hubert Felger, M. D.....	May 1, 1953

Resident Dentist

Edgar M. LaBar, Jr., D. D. S.....	September 1, 1952
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Chiropodist

Frank J. Gasser, D. S. C.....	July 27, 1952
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Director Mental Hygiene Clinics

Agnes P. McGavin, M. D.....	January 2, 1953
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Resignations

Resident Physicians

Stephania Korenec, M. D.	October 24, 1952
Lloyd Saltus, M. D.	November 30, 1952
Marek Ellenzweig, M. D.	May 19, 1953
William F. Windsor, M. D.	May 19, 1953

Neurologist

Elizabeth Eken, M. D.	November 30, 1952
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Dental Surgeon

Francis C. Bartleman, D. D. S.	March 31, 1953
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Resident Dentist

Richard T. Burns, D. D. S.	July 16, 1952
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Resident Training

The hospital was inspected on two occasions by representatives of the Council on Medical Education and Hospitals of the American Medical Association. Dr. Louis J. B. LeBel visited the hospital in April shortly before his untimely death. Dr. William W. Southard completed the inspection of the resident training program on Election Day, and at the end of the fiscal year, in concurrence with the American Board of Psychiatry and Neurology, our program was approved for two years of training.

The training program bulletin published by the hospital at the end of the fiscal year lists the resident training program in detail as well as the other educational programs being carried on at this institution.

Under the direct supervision of our assistant clinical director, Dr. William H. Longley, a complete course has been offered to both first-year and second-year residents at this hospital. Under the training program residents were required to comply with the following curriculum: case conferences, ward rounds, staff seminars and a series of lectures on clinical psychiatry as well as monthly clinical pathological conferences, x-ray reviews and Journal Club. In addition to the above, all first-year residents have received a two-day orientation of the hospital which included all therapeutic units; in-service training on basic psychiatry and neurology, including lectures on the various phases; a six-month assignment to the insulin and electric shock service, and a two-hour brain cutting session scheduled every other week throughout the academic year. The second-year residents have continued in-service training,

involving theory and advanced clinical psychiatry and neurology, and individual and group psychotherapy. In the organization pattern, each first-year resident has been supervised by a second-year resident, both of whom are directed by a permanent staff member. Individual conferences have been conducted by the assistant clinical director.

Dr. Fred A. Mettler has given invaluable assistance to the program, and through his efforts we have been able to secure many outstanding authorities in various fields to serve as lecturers. Those who have lectured to the resident staff are as follows: Lauretta Bender, M. D., on child psychiatry; Emanuel Feiring, M. D., on neurosurgery; Walter Freeman, M. D., on psychosurgery; Gilbert Glaser, M. D., on neurophysiology; Harry Grundfest, Ph.D., on neurophysiology; Paul F. A. Hoefer, M. D., Ph.D., on electroencephalography; Lothar B. Kalinowsky, M. D., on convulsive therapy; Nathan S. Kline, M. D., on group therapy; Carney Landis, Ph.D., D.Sc., on psychology; H. Houston Merritt, M. D., on neurology; Howard W. Potter, M. D., on psychotherapy; Harry B. vanDyke, M. D., Ph.D., on pharmacology; Abner Wolf, M. D., on neuropathology; Harold G. Wolff, M. D., on psychosomatic medicine, and Joseph Zubin, Ph.D., on psychology. In addition to arranging for the above lecture series, which was well attended by our hospital staff as well as by physicians in neighboring areas, Dr. Mettler also gave a series of lectures on neuroanatomy.

Research

The research activities at this hospital have been under the general supervision of Dr. Fred A. Mettler, editor of the book "Selective Partial Ablation of the Frontal Cortex," the account of the work of the Columbia-Greystone Associates, which group was organized under his leadership and conducted the work on topectomy at this institution. These cases have been followed carefully under a grant from the United States Public Health Service, MH-305 (C2), with the superintendent acting as the principal investigator. Mrs. Helene Gonzer, M. S. S. W., has been in charge of the social work on this project.

Work on several other projects of a research nature are under consideration and publications will be made later. These include the evaluation of liver function in certain patients undergoing shock therapy; the improvement of patients suffering from both psychiatric and tubercular conditions under isonicotinic acid therapy; the establishment of prognostic

indications for therapy and for a base-line in evaluating the results of psychiatric treatment; and follow-up study of patients returning home from this hospital correlated with certain social factors.

Nursing

The administration of the department continued under the supervision of Miss Laetitia M. Roe, R. N., B. S., director of nursing. Miss Margaret Larkin, R. N., B. S., assistant director of nursing, was in charge of professional nurse education. Miss Sophie Kraykowski, R. N., B. S., and Mrs. Patricia Long, R. N., assistant directors of nursing service, were responsible for supervision in the Reception Building, Clinic Building, Main Building South and Main Building North, Dormitory Building, the temporary senile building, and Tuberculosis Building, respectively. Mrs. Ruth Haney Beam, R. N., instructor, was in charge of sub-professional nursing education. Mrs. Long was absent due to illness January through June. Miss Maloney and Mrs. Warner relieved in the nursing office intermittently.

Nursing Service and Education: At the close of the year there was a total of 87 nurses, which included 3 instructors, 17 supervisors, 27 head nurses, 21 staff nurses and 15 part-time nurses; there were 76 technicians, 101 charge attendants, 339 attendants, 104 part-time workers, 20 technician trainees and 99 affiliate student nurses. This made a total of 707 persons plus 119 part-time personnel giving nursing care to 6,481 patients as compared to 687 persons plus 54 part-time workers giving care to 6,175 patients a year ago. The professional nurse personnel has increased slowly but steadily. There has been a constant turnover in the attendant group without gain over the previous year except in part-time workers. The shortage of men has made it necessary to give very large assignments. Women have been assigned to male areas where it is feasible to help relieve the situation.

The majority of the permanent employees are working the forty-hour week but have demonstrated a fine loyalty and cooperation by working overtime in order to cover all the shifts when the situation was drastic. During February, March and April there was an unusual amount of absence due to illness. The evening shift has been dependent for staffing on the part-time workers with hours ranging from one hour to seven hours an evening. It has been necessary to plan most of the vacations during the summer months when relief could be supplied by the college

students. At the end of June last year 58 college students were enrolled for summer work whereas there were 73 this year from 40 different colleges.

Miss Caroline Boos, psychiatric technician, was chosen candidate for the award of psychiatric aide achievement, which was sponsored by the National Association for Mental Health. Of the 26 attendants who took the charge attendants' examination in January, 20 attendants passed successfully. The technicians sponsored the drive for blood for Korea which was collected by the Red Cross Bloodmobile on April 21st; 78 pints were donated.

The patients' incident and accident report forms as well as the employees' incident report forms were revised and adopted. The written personnel policies for all employees in the nursing department were revised and given to each individual. The supervisors' meetings were held every two weeks but the staff meetings in the buildings were cancelled in March because of illness.

Graduate Nurse Program: The graduate nurse in-service program began January 6th. The course consisted of a series of lectures and discussion periods in psychiatry, psychiatric nursing, supervision and clinical teaching with the affiliate student and the sub-professional workers, administration and psychiatric films. On May 12th twenty-three nurses received certificates for satisfactory completion of the course. Many of the nurses attended the psychiatric lectures in the resident training program. One graduate nurse took the affiliate course.

Several members of the faculty and nursing staff attended the New Jersey State Nurses' Convention at Atlantic City in October and the National League for Nursing Biennial at Cleveland in June. Miss Roe and Miss Larkin attended the meetings of the Administrators' Committee of the New Jersey League for Nursing. Miss Roe continued to work with the Psychiatric Committee of the National League for Nursing Evaluation and Guidance Service on the revision of the achievement tests for basic students and graduate nurses. Miss Roe and Miss Larkin attended the Governor's conference on chronic illness in December. Miss Roe served as chairman of the Civil Service Committee of the New Jersey State Nurses' Association, District #1.

Affiliate School of Nursing: During the year 460 student nurses completed the three-month affiliation in psychiatric nursing; 99 students were enrolled in the last day of the year. A total of 19 schools continued the affiliation, Camden-Clarke Memorial Hospital of Parkersburg,

West Virginia, having transferred to another school on March 2, 1953.

Miss Elizabeth Maloney, R. N., B. S., M. A., was appointed instructor on August 1, 1952. Miss Rose Caruso, R. N., B. S., began clinical teaching in the Reception Building October 1, 1952, and was appointed instructor in April of 1953. Mrs. Lorene Warner, R. N., B. S., returned from educational leave and was appointed instructor June 1, 1953. Mrs. Ruth Connelly, R. N., continued as assistant instructor and attended Rutgers University. Miss Maloney taught psychiatric nursing to undergraduate students in the bachelor's program in the School of Nursing of Rutgers University during the spring semester.

The Home School meeting was held April 23, 1953, after which the Greystone Park Association served tea to the guests and the students. The contract of affiliation was revised and renewed with each school in May. The School of Nursing of Rutgers University completed the agreement with this hospital to send students from the two-year program for clinical experience in psychiatric nursing. The Greystone Park Association served tea to the incoming students and the staff at each six-week change. The staff physicians, special departments and the mental hygiene clinic staff have continued their contributions to the affiliate nurse course. Student-Faculty Cooperative Government has continued to function effectively and with active support from the student group.

The Psychiatric Technician Training Program: During the year 30 trainees were enrolled in the course; 8 graduated October 1, 1952, and 10 graduated April 1, 1953, making a total of 18. The graduation exercises for all technicians, which included the three other state hospitals, were held in the Chapel at Greystone Park on May 5, 1953. In the last six weeks of the one-year course the trainees were given ward assignments where they were placed in charge in order to obtain some administrative experience. The staff physicians, special departments, the mental hygiene clinic staff and the hospital chaplain have contributed in the teaching. The staff responsible for the teaching and clinical experience of the sub-professional students has remained the same. Miss Edith Beach, R. N., received the Bachelor of Science degree from New York University; she has continued as instructor in the technician program and the attendant training program. Mrs. Elizabeth Moore, R. N., continued as assistant clinical instructor, and Mr. Harry Young, psychiatric technician, taught the course in body structures and assisted in the attendant training.

Attendant Training Program: All new attendants were assigned to the training wards for two weeks and received the five-day orientation under Mr. Young and clinical instruction from Miss Beach. During the year 134 attendants were given certificates for successful completion of the 44-hour course which included demonstration and practice of the elementary nursing procedures. Each attendant had the opportunity for individual guidance and counselling. There were 15 new employees enrolled in the class at the end of the year. The program has helped to reduce the turnover in this group and has attracted some desirable employees.

The Volunteer Program: The orientation and indoctrination course for volunteer workers was held in September and March. The nursing department assumed the responsibility of the volunteer program, and policies and regulations were drawn up and accepted. The director of nursing assigned volunteers as needed on certain wards as nurse assistants, in the library, in the occupational therapy department and as clerical workers in the nursing offices. The association was responsible for recruiting volunteers. All the volunteer workers in the various divisions were encouraged to take the course. Approximately 750 hours were donated from January to June 1, 1953, and 8 workers were enrolled in the above assignments at the end of the year.

Clinical Areas: A laundry sorting and mending room was constructed and set up entirely by patients under the direction of Miss Agnes McAndrews, R. N., in the duct hallway under Main Building North. Two Singer sewing machines were installed, and during the year 9,078 articles of men's clothing were repaired and 3,972 articles were distributed to other buildings. On March 9, 1953, patients from Wards 63, 65 and 69 were transferred to the new temporary senile building, which has operated under the nursing administration of the Dormitory Building.

Religious Services

The resident chaplain, Keith W. Keidel, B. D., has continued to supervise the religious program of the hospital and has conducted the Sunday morning worship services for patients of the Protestant faith. The beautiful chapel in the Main Building is also utilized by the clergy of St. Virgil's parish, Morris Plains, who have two services each Sunday morning, for the Roman Catholic employees at 7:00 and for patients of this faith at 8:30. The local Jewish congregation also conducts services on Fridays and Christian Science services are held on Wednesday afternoons.

In addition to conducting religious services the resident chaplain also assists in the educational program of the hospital; community clergy were encouraged to visit the hospital one day a week to gain an understanding of psychiatric illness and more formal training of theological students is conducted in a twelve-week clinical pastoral training program, particularly during the summer and fall quarters. The chaplain has also assisted in the educational course through the hospital as well as delivered certain lectures to students in other training courses.

Social Service

A professional staff of 13 and a clerical staff of 5 conducted the social service work of the hospital during the past year. New members of the staff included George Seymour, John J. Curran, Mrs. Mary Melvin and Miss Doris Daniels; James E. Lindsley assisted as a summer worker.

A daily average of patients on visit during the year was 1,075 which constituted a large case load considering the number of workers available. During the year 3,881 interviews were made in the hospital and 4,108 in the community covered all services to patients and their families; 667 histories were obtained by questionnaire with an additional 252 interim histories secured by correspondence. There were 616 pre-visit interviews with relatives of patients and 68 home investigations prior to release on year's visit.

Further expansion of the service is necessary with additional space, equipment and clerical assistance being required.

Occupational Therapy

The effective utilization of time is as important in the hospital as it is in the community. Rehabilitation is as important to those suffering from mental and emotional illnesses as it is to those physically handicapped. Our occupational therapy program in this hospital is designed to reach every patient, no matter how greatly handicapped. There are many classes on the wards which, by simple repetitive tasks, seek to interest the patient who appears lost to reality. As improvement is shown the type of work is varied, so that we find many patients able to attend the daily sessions at the Men's and Women's Arts and Crafts Shops, where they can be both busy and useful. Many patients also find pleasure and therapeutic benefit in working on the farm and in the garden and caring for the fine herd of Holstein cattle.

The Men's Arts and Crafts Shop produced 7,848 articles including

many types of baskets, over 1,000 rugs, more than 2,000 brooms and approximately 2,000 pieces of pottery. There were also 3,127 articles made or repaired for hospital use. The Women's Arts and Crafts Shop produced 2,239 articles including many types of rugs and chair seats as well as all varieties of embroidery work and crocheting. The plain sewing department made 6,500 sheets, 7,500 pillow cases, and more than 2,000 towels as well as thousands of useful articles of clothing, isolation gowns, masks and other articles.

An important unit in the occupational therapy program is the Printing and Book-binding Shop where more than 500,000 forms were punched and perforated, 25,000 padded, 850,000 were ruled, over 15,000 were bound and a total of 2,300,000 printing impressions were recorded. In the production of the shop is this annual report, which is composed, printed and bound there as well as the monthly magazine *The Psychogram* which has just completed thirty-eight years of publication, the past year in its new format. Thomas Beresford as foreman engaged the interest of many patients and the product of their work has elicited praise from many in this field.

Mrs. Margaret C. DeVries has supervised the occupational therapy classes conducted on the wards as she has done for many years past. She has been assisted by 9 occupational therapists and 4 aides, with 4 additional college students helping during the summer months. The more than 600 patients working in her classes produced 4,575 saleable articles as well as 4,719 necessities for use on the hospital wards. Many hospital visitors have been attracted to the display of ceramics, painting, weaving and small craft articles produced by these patients.

Occupational therapy exhibits have been sent to the Morris County Fair and the Trenton State Fair with much favorable comment. Members of the department attended several meetings and conferences including the annual meeting of the New Jersey Occupational Therapy Association at the Kate Macy Ladd Convalescent Home.

Recreation

The recreational program has been continued under the able direction of Mrs. Dorothy Johnson, supervisor of recreation, and 5 recreational assistants as well as 5 aides and 4 summer assistants. The program is all-inclusive. Classes are conducted for regressed patients which include marching, calisthenics, folk-dancing and game play in an endeavor to

encourage their resocialization. Many patients in the senile group enjoy the activities in the Dormitory auditorium as well as on the lawn in favorable weather. The department has helped in the harvesting of garden crops, has conducted ward parties which included patients of all types and classes. Afternoon dances have been enjoyed by many with an average attendance of 200 at each party. Special attention has been given to patients receiving shock therapy and psychosurgery, including them in a special group where every effort is made to encourage their resocialization.

The music classes have been a source of enjoyment to many, including those specially chosen and trained to serve as a mixed choir for the Protestant service each Sunday morning. The Glee Club has also been a popular organization which has assisted at parties and at the Christmas pageant. Other activities have included art classes, and the Canasta and Variety Clubs. Many patients have enjoyed activities on the tennis courts where competitive sets are arranged in both singles and doubles. Other summer activities have included soft-ball, croquet, bocci and horseshoe-pitching, whereas during the winter season bingo, ping-pong, card parties and gymnasium classes are popular.

Large groups from 200 to 700 patients attend the Monday night dances and entertainments, while smaller groups on the wards enjoy the movies projected from the portable 16 mm. machine.

The annual Christmas party and pageant continues to be the outstanding production of the department, with the Christmas play "The Littlest Shepherd" as the headline attraction this year.

Library

Mrs. Ruth M. Wick has served as senior librarian during the year. For a few months she had a junior library assistant but during most of the time she has been dependent on volunteers from the Greystone Park Association as well as several dedicated patients. The main library in the Clinic Building has continued to be the focus of activity, with branches in the Main Building and Dormitory Building serving patients in those areas.

Mrs. Janet McKinlay of the State Library in Trenton surveyed the hospital and recommended greatly increased staff and larger quarters as well as a definite per capita budget for the purchase of new books.

Over 1,500 books were added to the collection, most of the volumes being fiction. This permitted the discard of many books long out of date,

but the collection is still quite weak in science, sports and hobby material.

An aluminum book cart was presented to the hospital by the Monday Afternoon Club of Passaic. We have also received many donations of books and magazines from friends of the institution.

Circulation for the year totaled 84,661, which included fiction 9,920, non-fiction 3,035, periodicals 64,678, as well as many game and puzzles.

Greystone Park Association

Mrs. Alice B. Fort of Morristown has, as president of the association, during the past year, been most active in leading the many affiliated groups in service for the hospital. Among the outstanding achievements of the past year, the fifth in the life of the organization, are the securing for the hospital and its patients of 13 television sets, a large electric turn-table for record playing, a night club piano, and many other items of equipment for the recreation department. The members and the organizations which they represent have also procured valuable items of clothing and costume jewelry as well as countless books and magazines for distribution. Many articles have been produced for the use of the patients, including bed jackets, washable slippers and drapes. More than 267 hours of work were required to pack 6,500 Christmas boxes for the annual party. The organization has sponsored teas for the affiliating student nurses and helped to beautify the grounds by securing 10,000 pachysandra plants. They have furnished more than 3,500 hours of volunteer work for the hospital.

Pharmacy

Philip B. Roberts, Ph.G., has continued as pharmacist-in-charge, assisted by George H. Rowland, Ph.G., and John Callery, B. S., Ph.G. Louis Bangert, for many years on the staff, has been on sick leave during the year. Mr. Roberts, who has completed thirty years on the staff of the hospital, served on the Pharmaceutical Advisory Committee for the Department. He reports that 23,560 individual prescriptions were filled during the year, as well as 2,391 requisitions on medical stores. This has necessitated the production of many items of a pharmaceutical nature in thousands of packages for distribution to the wards of the hospital.

Physical Therapy

Wilbur T. Riker, senior physical therapist, has been assisted by Augusta Radtke, and reports a total of 10,496 treatments completed in the male hydrotherapy unit of the Reception Building and 16,936 in the wo-

men's unit. Demonstrations have been provided for visiting groups and psychiatric technician students.

Barber Shops

Mr. Hershel Tucker, head barber, has supervised 11 barbers and 5 hairdressers in his department. He reports that 290,650 shaves and 34,575 haircuts were given to the men patients, as well as 73,447 treatments, including haircuts, shampoos, fingerwaves, facials and permanents to the women patients.

Photography

Photographs of patients for identification and comparison are usually made on admission and discharge. Daniel J. Lutz, photographer, reports 1,891 admission photographs completed and filed, as well as 1,185 on those leaving the hospital. Other production in this department included 433 prints of patients for deportation and similar purposes, 987 prints of building activities and of a similar nature, a total of 6,172 pictures made during the year.

Medical Records

The medical record office maintains the clinical records of all patients who have been in this hospital and also prepares and maintains accurate statistics concerning them. Mr. Joseph Brown, R. R. L., has continued in charge of this department and the statistical tables found at the close of this report will give much valuable information concerning the present trends in types of patients under treatment as well as other comparative data.

The microfilming of old records, begun several years ago, has been continued and, with two clerks assigned to this project, 28,674 records have been copied on film, reaching the discharges for December of 1937. Since the last patient discharged this year bore a discharge number of 52,619, we still have over 25,000 records to process. However, it is felt that discharge case records should be kept in their original form for at least ten years since they might be required for court examination and other research.

Mr. Leo Boulris has reported that 1,610 patients' fingerprints were taken under his direction, bringing the total on file in this section to 23,558. He also took 1,268 fingerprints of employees, making a total of 9,723 fingerprint records in this division. In most cases two or three and even more complete fingerprint record cards are made for each in-

dividual since they must be filed in local, state and federal indexes. Reports are also received on employee records from the agencies to which the records are forwarded.

Mental Hygiene Clinics

Agnes P. McGavin, M. D., was appointed to the position of director of the clinics January 1, 1953; for the first half of the year the department had been directed by the assistant superintendent. Dr. A. C. Isham gave part-time service during the year as did Michael Permison for the period ending March 1st. Mr. Robert Beechley, psychologist, transferred to Totowa; George Genn, Ph.D., continued the psychological work alone until Samuel Goldworth, Ph.D., joined the staff in May. Miss Hurley continued to supervise the psychiatric social work, Miss Ethel Werner replaced Miss Alyce Baldwin, and at present there are three vacancies on the professional staff and two on the clerical staff.

A new clinic was established at the Bayonne General Hospital in September and the Kearny clinic at the West Hudson Hospital was discontinued in April.

A total of 296 clinics were held at eight different locations. There were 616 open cases at the beginning of the year, 447 new cases were opened and 541 cases were closed, leaving 522 cases on the roll at the end of the year; there were 672 different cases handled during the year. The psychiatrists interviewed a total of 823 patients, the psychologists saw 532, and the social workers 355. In addition, 1,588 interviews were made about patients by the social workers.

The possibility of combining the mental hygiene clinic work with that done by the other state hospitals into a unified service at department level has been discussed during the year and the decision in this matter will greatly affect the future operation of these clinics.

Business Department

Having completed six years as business manager, John T. Neal, Jr., has become indispensable in the operation of the hospital. He is responsible for all the operations of the hospital not directly clinical in nature. This includes not only the business office, the personnel department, food service, farm and engineering divisions, but also the fire and police departments, the laundry and linen control and the garage. With his many years of experience in the public utilities and his broad knowledge of the business field, Mr. Neal has most capably handled this

work for which he is so well qualified. The following summary will present a picture of the operation of these divisions as presently organized under his direction.

Business Office

The business office continued under the direct supervision of Robert A. Lowery, treasurer and assistant business manager, whose forty-three years of efficient and faithful service has contributed greatly not only to the operation of the business office itself but in the various other departments in which his experience has been of great help to the business manager, such as the supervision of the culinary department, stores department, laundry, linen room and many patient projects.

In May, Peter Glenn joined the staff as supervising accountant. He will assist in all phases of business administration and will assume direct supervision of our accounting procedures. As a former field auditor in the Central Office he brings with him many years of accounting experience which will aid us in bringing greater efficiency to our office.

George Zelenak returned in April after being out for eighteen months due to an automobile accident.

Mr. Lowery, as treasurer, reported collections for the past year of \$3,062,481.50 as compared with last year's receipts of \$2,674,440.13.

Institutional Collector

Our institutional collector, Thomas C. Tighe, reports that he made 435 visits to county adjusters, closed 606 cases, had 1,098 interviews, and took care of 168 amended orders, resulting in receipts of \$68,169.98 and had collections amounting to \$120,897.22. This excellent result was due to the fine relationship which Mr. Tighe has built up with the various county adjusters and is an indication of his keen interest.

Personnel

The personnel department continued under the direction of Richard E. Winans, assisted by William Loeber and Karl Marx. During the year a total of 7,652 recruitment transactions were made by the interviewing staff. This figure included 4,373 personal interviews, 1,093 placement letters and 2,186 placement inquiries received by telephone from persons and agencies outside the hospital. As a result of this activity 1,469 persons were hired, which was approximately one out of every four persons

interviewed. The employee enrollment increased from 1,446 at the beginning of the year to 1,558 at the close, an increase of 112.

Police

On November 1, 1952, Sgt. John R. Miller was assigned by State Police Headquarters as chief security officer for this institution, replacing Staff Sgt. Joseph W. Mack, also of the State Police, who was transferred to the New Jersey Turnpike detail. Sgt. Miller came to us with seventeen years of experience with the State Police and has continued the work done under the leadership of Sgt. Mack. Our police department now consists of 17 men: a chief security officer, a foreman watchman, 13 institutional patrolmen, and 2 temporary institutional patrolmen. Three of these men are engaged in building security patrol in the Main, Dormitory and Tuberculosis Buildings, while the rest of the men perform regular police duties. The department has become proficient in apprehending escaped patients and has handled all police matters in an efficient manner. The police radio system is of great value in this work.

During the year the Civil Defense program functioned in conjunction with the police department and numerous tests were received as relayed by the New Jersey State Police, Region B Headquarters, Morristown. On Sunday, March 8th, a full scale air raid drill was held, in which the police department aided by Dr. Crandell in car 449 and Mr. Neal in car 409 participated. This drill was estimated to be about 95 per cent effective.

Fire Prevention

The fire department continued under the direction of Chief Charles H. Acker, assisted by George Arnold, assistant chief, and Paul Horning truck driver. These men covered the department twenty-four hours a day for the entire year. In addition, 45 employees served as a volunteer brigade. The motorized equipment consists of 3 pumping engines, one 85-foot aerial ladder truck and one half-ton pick-up truck. Semi-monthly fire drills for our volunteer firemen were conducted on hospital time and many of the members of this department also attended the monthly Morris County Fire School sessions.

During the year we had 9 general alarms, 33 still alarms, 35 investigations of extinguished fires, 4 sprinkler system alarms, 17 requests for emergency oxygen, etc., and one mutual aid call, a total of 99 alarms,

with an estimated fire loss to state property of \$714.93. The prompt and efficient answering of all alarms and the training our volunteers are receiving under the excellent leadership of Chief Acker is reflected in the above results. At the present time Assistant Chief Arnold is on sick leave and will be retired August 31, 1953. This absence plus 2 unfilled positions places a tremendous burden on Chief Acker to properly cover his assignment.

Garage

The main garage, under the supervision of William Walton, Jr., has been responsible for the maintenance and operation of 73 licensed motor vehicle units. This includes the autos assigned to the social service department of the hospital and to the Northern New Jersey Mental Hygiene Clinics. Mr. Walton is to be commended upon the excellent condition in which he keeps the institution's cars and trucks.

Laundry

The Laundry, under the supervision of Floyd Evans, handled approximately 7,525,984 pieces during the year. There were 5 new Zermo presses, 2 new Zermoette presses and 2 new canopies installed during the year. The canopies were placed over the 8 roll mangles, which contributed greatly to the comfort of the patients operating them. With the addition to the Laundry which has been approved, together with new equipment now on order, we believe the efficiency of the Laundry will be increased.

Building Maintenance

William G. Beucler continued to supervise the general maintenance and housekeeping control together with general supervision of the mattress shop, bed repair shop and tailor shop.

Mrs. Alma K. Rose continued as head housekeeper and supervised the general housekeeping throughout the employees' residence areas.

The central linen rooms remained under the supervision of Mrs. Gertrude Carr. We now have two central linen rooms in the institution, one in the Main Building which handles linens for approximately 3,000 patients and one in the Dormitory Building which cares for approximately 1,900 patients housed in the Dormitory Building, Unit A and the new temporary senile building as well as 600 tuberculosis patients. With the addition to the rear of the laundry which will allow us to install there the mattress sterilizer now located in the Clinic Building, we will have

room to establish a central linen room at the Clinic Building and Reception Building area.

William T. Barry, foreman upholsterer, continued as supervisor of the upholstery shop and was responsible for the manufacture and repair of mattresses, pillows and miscellaneous upholstery work.

Frank DePrimo, head tailor, was responsible for the repair and pressing of many garments for both patients and employees. In addition, he produced many articles including laundry bags and this year cut and bound approximately 200 indestructible blankets.

Food Service

At the first of the year our food service department was under the direct supervision of William Walton, Sr., with Richard R. Gessner, Miss Yvonne VanMarter and Nicholas Galgay as assistant food service supervisors. This department was charged with the responsibility of turning out over 21,000 meals per day for our patients and employees. In December John Hauryluke was appointed as assistant food service supervisor, replacing Nicholas Galgay who was in a temporary appointment. In March Miss Margaret Mendoza was appointed as dietitian, and assigned to the Tuberculosis Service. On March 19, 1953, William Walton, Sr., was granted a sick leave of absence and Richard Gessner was appointed acting food service supervisor during his absence; Mr. Walton has since indicated that he plans to retire.

Miss Rosemary Kramp, dietitian in the Clinic Building, reports that 465 different patients received special diets, an average of 100 diets being served per day, in addition to the employees' infirmary. A total of 78,966 trays were served at the Clinic Building, 39,030 trays to the Reception Building and approximately 3,000 trays served to the Tuberculosis Building.

We were fortunate in obtaining considerable kitchen equipment during the year through war surplus, and most of these items have been placed in use. One of the most essential items was a bake oven which was installed in our nurses' kitchen.

In March the new temporary senile building was opened with the kitchen equipment in the serving pantry of the finest, making it very easy to handle the difficult feeding problem in this area.

The butcher shop continued under the supervision of Joseph Feldenzer, head butcher, who also took care of the slaughtering of hogs and

cows from our farm department. During the year 1,008,961 pounds of meat were prepared for patient and employee consumption.

William Dalhoff, head baker, continued in charge of the bakery and, despite the handicap of personnel shortages, produced approximately 650,000 loaves of bread and in addition many cakes, rolls, cookies and pies.

During the year the kitchens were under the supervision of the following head cooks: employees' cafeteria, Carl Newman; main kitchen, Ford Hollis; nurses' kitchen, John Evans, and Dormitory kitchen, Harry Pengilly.

Farm

James B. Stuart, farm supervisor, continued in charge of all branches of the farm and conducted a vigorous program of improvements.

Hugh McLellan, head dairyman, reported the herd consisted of 332 animals and produced 955,523 quarts of milk, a total value of \$119,980.56. Our milk production was 80,000 quarts above last year's figure with a corresponding increase in the production per cow, averaging 9,855 pounds of milk and 346.2 pounds of fat, or an increase of 729 pounds of milk and 29.8 pounds of fat. This is the result of a program of herd culling dating back several years. The conversion of the horse barn to a young stock barn has been completed, affording us a modern housing unit for these animals. A new ventilating system is also being installed in all of our milking barns.

Pearson F. Havens reported a total of 1,634 tons of ensilage produced, valued at \$13,365.83. Though a larger acreage was harvested, adverse weather conditions resulted in a lower per acre yield.

Charles Dilley died in February, 1953, and since his death Howard Hoffman has been charge of the piggery. The 340 hogs slaughtered during the year weighed 98,604 pounds and were valued at \$30,112.20, averaging 290 pounds each. There has been a considerable improvement in the quality of pork, resulting from an established feeding and breeding program.

Dudley Millner completed his first year in charge of the poultry plant and reported a total of 26,828 dozen eggs produced and 4,291 pounds of fowl, valued at \$16,834.16, from 3,175 birds, an increase of 928. The average production per hen was 213 eggs, an increase of 35 eggs per bird, resulting in an increase of 50,378 more eggs than last year's total. An area adjacent to our poultry plant was cleared of brush

and seeded. Range shelters were constructed, which increased our chick-raising program.

The garden remained under the supervision of John Zeis and supplied fresh vegetables for use at the institution, valued at \$27,248.58. The net value of all farm produce amounted to \$215,416.56, which is \$426.21 under the total produced last year.

The greenhouse and grounds remained under the supervision of Britton Koch. The usual fine job of landscaping and maintenance was done and in addition Mr. Koch, with the help of patients, not only constructed a building housing our new concrete block plant but installed the equipment and machinery, and to date has produced over 20,000 concrete blocks.

The saw mill produced over 39,000 board feet of logs for use at the institution during the year, which had a total value of \$7,875.23.

The extermination continued under the supervision of Frank Roberts, with a very satisfactory control of various pests. In addition, Mr. Roberts has supervised the salvage yard and has done a very fine job in utilizing the men of his department in various improvement projects throughout the institution.

Matthew Casey has kept our track in good condition throughout the year, and Michael Darby has been in charge of the drag line and the unloading of coal for use at our power plant. Gus Salvesen, in charge of all trucking, reports the long-distance trucks made 490 trips for a total mileage of 35,723 miles. During the year 9,442 yards of ashes were donated to the road departments of adjacent towns and counties and for use by the State Highway Department, while 858 yards of ashes were used by the institution for sanding purposes. With the completion of our new concrete block plant the institution will utilize more of the ashes during future years.

Engineering

The engineering department remained under the supervision of Henry Landesman, M. E., with William Carew, assistant engineer-in-charge of the utilities, and Maurice A. Chaillet, M. E., assistant engineer-in-charge of the maintenance department.

During the year the power plant consumed 24,977 tons of coal and 792,523 gallons of oil to produce 2,429,372 K. W. H. of electricity; in addition, there were 2,376,200 K. W. H. purchased. A total of 201,802,000 gallons of water were pumped during the year, compared with

employees, \$1,100,000.

An employees' building, similar in construction to our present building for housing single employees, is requested, to cost \$1,100,000.

A recreation hall to include theater, gymnasium, bowling alleys and a grandstand is requested, to cost \$825,000.

Loss of Employees by Retirement or Death

Five employees retired during the year:

186,957,000 gallons of water pumped last year; total consumption of water amounted to 457,752,000 gallons compared with 433,310,000 last year. Our sewage disposal plant took care of 404,317,000 gallons compared to last year's figure of 393,018,000 gallons; daily sewage flow was 1,110,000 gallons.

During the year 40 231 repair orders were handled, compared with

TABLE I—(Continued.)

ADMINISTRATIVE STAFF IN SERVICE AT END OF YEAR

	Full Time - Part Time	
	M. W.	M. W.
BUSINESS ADMINISTRATION—Total.....	448	169
16. Business Manager.....	1	
17. Assistant Business Manager.....	1	
18. Clerical Employees including Stenographers and Bookkeepers.....	14	23
19. Dietitian.....		2
20. Housekeeping Employees.....	5	30
21. Farm Employees.....	86	
22. Other Employees.....	338	96
MENTAL HYGIENE CLINIC—Total.....	3	18
a. Physicians.....		
1. Director.....		1
2. Assistant Director.....		
b. Director Clinic Social Workers.....		1
c. Psychologist.....	3	1
d. Social Workers.....		7
e. Clerical Employees.....		8

TABLE II.

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDED JUNE 30, 1953

RECEIPTS	
1. Balance on hand from previous fiscal year.....	\$.00
2. Received from appropriations.....	6,536,197.73
3. Received from paying patients	
(a) Devoted to hospital use.....	
(b) Paid into State general fund.....	\$ 3,062,481.50 3,062,481.50
4. Received from other government sources.....	
(a) Federal.....	\$ 20,374.34
(b) State.....	
(c) County (paid into State general fund)	
(d) City	20,374.34
5. Received from all other sources.....	
(a) Devoted to hospital use	
(b) Paid into the State general fund.....	.00
6. TOTAL receipts (Sum of Items 1, 2, 3, 4, and 5)	\$9,619,053.57
DISBURSEMENTS	
Expenditures for maintenance:	
7. Salaries and wages	\$4,132,858.16
8. Provisions (food)	1,000,446.99
9. Fuel, light and water.....	339,924.79
10. All other expenditures for maintenance	832,711.70
11. TOTAL expenditures for maintenance	
(Sum of items 7, 8, 9, and 10)	\$6,305,941.64
12. Expenditures for improvements, including new buildings, additions, permanent betterments, etc.....	220,303.63
13. Expenditures for other purposes (specify) Fire Loss—Compensation Awards	23,763.66
14. TOTAL expenditures (Sum of items 11, 12, and 13)	\$6,550,008.93
15. Amount returned to State treasurer or other officials.....	3,062,757.35
16. Balance on hand at close of year	
Federal	2,424.44
(Non-lapsing appropriations:)	Fire Loss 3,862.85
Include balance for maintenance and for all other purposes.	6,287.29
17. TOTAL disbursements (Sum of items 14, 15, and 16; also equal to item 6)	\$9,619,053.57
18. Estimated value of consumed food raised on hospital farm ...	175,833.99
19. Do amounts reported above (items 8 and 18) include meals fed to staff and their families and other employees?..	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
(a) If so, how many individual meals were fed to staff, etc., during year?.....	
(b) If so, how many individual meals were fed to patients during year?.....	

CITIZENSHIP OF FIRST ADMISSIONS

	TOTAL	MEN	WOMEN
CITIZENS BY BIRTH	1117	581	536
CITIZENS BY NATURALIZATION	185	108	77
ALIENS.....	162	70	92
TOTAL.....	1464	759	705

FIRST ADMISSIONS CLASSIFIED WITH REFERENCE TO SELECTED DISORDERS

MENTAL DISORDERS	TOTAL			WHITE			NON-WHITE		
	T	M	F	T	M	F	T	M	F
TOTAL	1464	759	705	1271	649	622	193	110	83
Acute Brain Syndromes, total.....	29	25	4	16	14	2	13	11	2
Alcoholic intoxication.....		18	1		10			8	1
All other conditions.....		7	3		4	2		3	1
Chronic Brain Syndromes, total.....	632	325	307	558	279	279	74	46	28
CNS syphilis		14	9		6	4		8	5
CAS and senile brain disease		234	267		217	249		17	18
Alcoholic intoxication.....		43	11		30	8		13	3
All other conditions.....		34	20		26	18		8	2
Psychotic Disorders, total.....	533	232	301	461	200	261	72	32	40
Involutional psychotic reactions.....		24	79		23	72		1	7
Manic-depressive reactions.....		20	38		20	32			6
Schizophrenic reactions.....		164	166		137	141		27	25
All other conditions.....		24	18		20	16		4	2
Psychoneurotic Reactions.....	95	58	37	92	56	36	3	2	1
Personality Disorders.....	54	45	9	48	39	9	6	6	
Transient Situational Personality Disturb.....	4	2	2	3	1	2	1	1	
Mental Deficiency, with Psychosis.....	24	14	10	18	11	7	6	3	3
Without Mental Disorder.....	20	17	3	20	17	3			
Mental Disorder, Undiagnosed Psychosis.....	73	41	32	55	32	23	18	9	9

AGE OF FIRST ADMISSIONS CLASSIFIED WITH REFERENCE TO SELECTED DISORDERS

MENTAL DISORDERS	Total			Under 15 yrs.		15—19 years		20—24 years		25—29 years		30—34 years		35—39 years		40—44 years		45—49 years	
	T.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.
TOTAL	1464	759	705	6		24	20	53	41	71	65	69	63	89	51	51	49	49	53
Acute Brain Syndromes, total.....	29	25	4																
Alcoholic intoxication.....		18	1					1		1		6		1	1	1		2	
All other conditions.....		7	3					1	2					2		3			
Chronic Brain Syndromes, total.....	632	325	307																
CNS syphilis.....		14	9					1						1		2	1	3	
CAS and senile brain disease.....		234	267																1
Alcoholic intoxication.....		43	11							2	1	3	1	10	2	8	3	9	2
All other conditions.....		34	20					2	2	7	2	2	1	2	1	2	1	3	5
Psychotic Disorders, total.....	533	232	301																
Involuntal psychotic reactions.....		24	79														12	1	25
Manic-depressive reactions.....		20	38				1	2	6		7	2	10	3	6		4	3	3
Schizophrenic reactions.....		164	166	1		15	11	25	24	37	37	28	34	27	28	16	17	6	9
All other conditions.....		24	18							2		4	3	3	2	5	2	3	2
Psychoneurotic Reactions.....	95	58	37			1	2	1	4	15	8	11	6	17	6	5	2	7	2
Personality Disorders.....	54	45	9	1		1	1	12	1	2	3	4	1	11	1	4	2	3	
Transient Situational Personality Disturb.....	4	2	2	1			2												
Mental Deficiency, with Psychosis.....	24	14	10	1		1		6			2	1	3	1	1			2	1
Without Mental Disorder.....	20	17	3			1		2	1			1		3		4	1	2	
Mental Disorder, Undiagnosed Phychosis.....	73	41	32	2		5	3	2	1	3	5	7	4	8	3	1	4	5	3

AGE OF FIRST ADMISSIONS CLASSIFIED WITH REFERENCE TO SELECTED MENTAL DISORDERS (Continued)

[illegible]

AGE OF READMISSIONS CLASSIFIED WITH REFERENCE TO SELECTED DISORDERS

MENTAL DISORDERS	Total			Under 15 yrs.	15—19 years	20—24 years	25—29 years	30—34 years	35—39 years	40—44 years	45—49 years								
	T.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.						
TOTAL	537	263	274			5	2	17	12	18	29	46	43	39	28	35	28	29	28
Acute Brain Syndromes, total...	6	4	2																
Alcoholic intoxication			4	2								2		1		1			2
All other conditions																			
Chronic Brain Syndromes, total	86	52	34																
CNS syphilis			4	3											1	2	1		1
CAS and senile brain disease			15	22															
Alcoholic intoxication			25	2				1		3				1		4		5	1
All other conditions			8	7		1			1			2	3		1	2	2		
Psychotic Disorders, total	344	148	196																
Involutional psychotic reactions			6	37											3		3		5
Manic-depressive reactions			32	52				1	3	4	8	3	5	3	8	10	8		
Schizophrenic reactions			106	100		4		9	8	10	22	29	24	20	12	14	9	7	8
All other conditions			4	7								1		1	1		1		
Psychoneurotic Reactions	28	17	11			1	1	3	2	4	1	1	1	1	3	2	2	1	
Personality Disorder	40	24	16					3	2	2	1	2	4	6	2	4	2	1	2
Transient Situational Personality Disturb.																			
Mental Deficiency, with Psychosis	14	6	8			1	3	2				1	2	1	2			1	
Without Mental Disorder	7	7					1							1					
Mental Disorder, Undiagnosed Psychosis	12	5	7						1			2	1	1				1	

[illegible]

Psychotic Disorders	200	200	200	200	200	200	200	200	200
Involuntional		26	99	22	79	4	20		
Manic Depressive		31	96	27	83	4	13		
Schizophrenic		158	180			158	179		1
All other conditions ..		18	12	8	9	10	2		1
Psychoneurotic Reactions	118	68	50	3	9	65	41		
Personality Disorders...	67	45	22	34	16	10	6	1	
Transient Situational Personality Dis....	2	1	1	1	1				
Mental Deficiency with Psychosis	30	11	19	5	15	6	4		

COMMITTED AND VOLUNTARY ADMISSIONS BY SELECTED
MENTAL DISORDER

MENTAL DISORDERS	FIRST ADMISSIONS			READMISSIONS		
	Total	Committed	Voluntary	Total	Committed	Voluntary
TOTAL	1464	1260	204	537	399	138
Acute Brain Syndromes, total.....	29	23	6	6	5	1
Alcoholic intoxication.....		14	5		5	1
All other conditions.....		9	1			
Chronic Brain Syndromes, total....	632	600	32	86	73	13
CNS syphilis		21	2		5	2
CAS and senile brain disease...		492	9		34	3
Alcoholic intoxication.....		39	15		19	8
All other conditions.....		48	6		15	
Deceptive Disorders total	533	468	65	344	260	84

CAUSE OF DEATH BY SELECTED MENTAL DISORDER

	TOTAL			CHRONIC BRAIN SYNDROME ASSOCIATED WITH									MANIC DEPRESSIVE REACTION			SCHIZOPHRENIC REACTION			ALL OTHER MENTAL DISORDERS		
				MENINGOENCEPH. AND OTHER CNS SYPHILIS			CERE. ARTERIO. & OTHER SENILE BRAIN DISEASE			ALCOHOLIC INTOXICATION											
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
629	289	340	19	13	6	453	201	252	7	6	1	9	2	7	63	28	35	78	39	39	
17	12	5	1	1		7	6	1							6	4	2	3	1	2	
1		1	1		1																
18	7	11				7	3	4				2	1	1	7	2	5	2	1	1	
2	1	1				1		1										1	1		
64	19	45	1	1		50	13	37							3		3	10	5	5	
1	1								1	1											
314	156	158	9	8	1	254	123	131				5	1	4	21	9	12	25	15	10	
48	10	38	2	1	1	41	7	34							1	1		4	1	3	
3	2	1				1	1								2	1	1				
115	61	54	3	1	2	80	44	36	3	3					11	5	6	18	8	10	
1	1																	1	1		
1		1																1		1	
43	18	25	2	1	1	11	3	8	3	2	1	2		2	12	6	6	13	6	7	
1	1					1	1														

AGE OF PATIENTS AT TIME OF DEATH

	TOTAL	MEN	WOMEN
Total	629	289	340
Under 15 years			
15—19 years			
20—24 years	3	1	2
25—29 years	3		3
30—34 years	9	5	4
35—39 years	12	7	5
40—44 years	5	4	1
45—49 years	12	4	8
50—54 years	21	9	12
55—59 years	43	21	22
60—64 years	46	26	20
65—69 years	77	50	27
70 years and over	398	162	236

TOTAL DURATION OF HOSPITAL LIFE OF PATIENTS DYING IN HOSPITAL CLASSIFIED ACCORDING TO SELECTED MENTAL DISORDERS

MENTAL DISORDERS	TOTAL			Less than 1 month		1-3 months		4-6 months		7-11 months		1 year		2 years		3-4 years		5-9 years		10-19 years		20 years and over	
	T.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.
TOTAL	629	289	340	70	72	42	62	11	26	24	23	37	43	23	14	19	17	18	26	22	30	23	27
Acute Brain Syndromes.....																							
Alcoholic Intoxication.....																							
All other conditions																							
Chronic Brain Syndromes, total..	479	220	259	60	67	39	52	8	22	19	18	27	35	20	12	16	16	15	18	12	16	4	3
CNS syphilis					1		1			2					1	2	2	3		4	1	1	1
CAS and senile brain disease				58	65	38	51	8	22	17	18	27	35	19	12	14	14	9	18	8	15	3	2
Alcoholic intoxication				2	1	1												3					
All other conditions																							
Psychotic Disorders, total	124	56	68	7	2	2	7	3	4	4	4	8	7	2	2	2	1	3	6	8	12	17	23
Involutional psy'tic reaction.				1		1	3	1	1	2		3	1					1		1	2		1
Manic-depressive reactions ..									1		1		1				1		1	1			3
Schizophrenic reactions								1		2		1	3	2	1	1	1	2	5	3	6	16	18
All other conditions				6	2	1	4	1	2		2	4	2		1	1				3	3	1	1
Psychoneurotic Reactions, total..	3	1	2								1					1							
Personality Disorders																							
Transient Situational Personality.																							
Disturb																							
Mental Deficiency, with Psychosis	8	4	4				1					1		1				2	1			1	1
Without Mental Disorder																							
Mental Dis., Undiagnosed Psy'sis.	15	8	7	3	3	1	2			1		1	1							1	1	1	

AGE OF RESIDENT POPULATION

	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85 & Over	
Men	3109	5	30	86	156	240	260	334	391	351	278	272	277	192	138	59	40	
Women	3371		16	59	122	245	316	376	341	371	379	309	288	226	161	100	62	
Total	6480	5	46	145	278	485	576	710	732	722	657	581	565	418	299	159	102	

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AGE ON FIRST ADMISSION

COUNTY	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-over
Total.....	1464	6	44	94	136	132	140	100	102	91	93	65	102	90	112	94	53	10
Bergen.....	354	4	10	16	24	28	37	16	19	20	20	17	30	29	31	35	16	2
Camden.....	1										1							
Essex.....	429	1	10	37	40	34	43	34	37	26	33	22	33	21	28	17	11	2
Hudson.....	114		7	14	21	15	13	12	7	6	7	3	5	1	1	1		1
Hunterdon.....	1													1				
Middlesex.....	2	1					1											
Monmouth.....	4							1							1	2		
Morris.....	189		3	10	15	19	14	11	15	12	13	10	9	12	18	14	11	3
Ocean.....	4								1	1			1			1		
Passaic.....	342		13	15	33	36	31	23	20	23	19	12	21	26	30	24	15	1
Somerset.....	5				1		1		1	1			1					
Sussex.....	13		1	1	2			2	1	1		1	1		3			1
Union.....	5							1	1	1			2					
Warren.....	1			1														

AGE ON READMISSIONS

Total.....	537	7	29	47	89	67	63	57	52	45	30	25	12	4	5	5		
Bergen.....	127	2	9	12	17	17	14	16	12	11	8	4	2		2	1		
Essex.....	129	3	5	16	25	17	11	13	12	7	8	6	3		2	1		
Hudson.....	49		3	4	16	6	4	5	3		3	3	1	1				
Mercer.....	1										1							
Middlesex.....	2					2												
Morris.....	75	1	4	3	7	7	11	4	11	9	4	8	2	1	1	2		
Passaic.....	138	1	7	11	20	18	18	18	13	18	6	4	3			1		
Sussex.....	11			1	4			1	1					2				
Union.....	5		1				3						1					

