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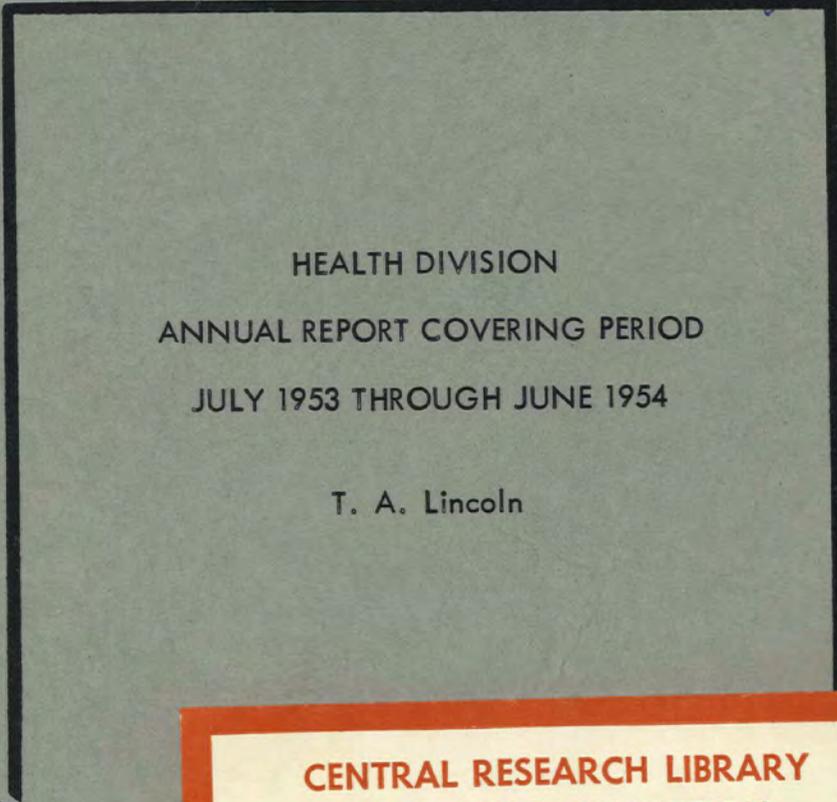
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HEALTH DIVISION
ANNUAL REPORT COVERING PERIOD
JULY 1953 THROUGH JUNE 1954

T. A. Lincoln



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Report Number ORNL-1776

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HEALTH DIVISION
ANNUAL REPORT COVERING PERIOD
JULY 1953 THROUGH JUNE 1954

Thomas A. Lincoln, M. D.

Date Issued

OCT 18 1954

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- 24. A. G. Kammer, M. D., Dept. of Occupational Medicine, Graduate School of Public Health, University of Pittsburgh, Pittsburgh 13, Pa.
- 25. E. V. Henson, M. D., C&CCC, South Charleston, W.Va.
- 26. R. J. Sexton, M. D., C&CCC, Institute, W. Va.
- 27. C. U. Dernehl, M. D. C&CCC, Texas City, Texas
- 28. J. Lyon, M. D., C&CCC, K-25, Oak Ridge, Tenn.
- 29. C. R. Sullivan, Jr., M. D., C&CCC, Y-12, Oak Ridge, Tenn.
- 30. Office of Research and Medicine, AEC, Oak Ridge, Tenn.
- 31. H. S. Gardner, M. D., C&CCC, Paducah, Ky.
- 32. E. A. Hathaway, M. D., Medical Director, Argonne National Laboratory
- 33. C. L. Dunham, Jr., M. D., Chief, Medical Branch, Division of Biology and Medicine, U.S. AEC, Washington, D. C.
- 34. T. L. Shipman, M.D., Medical Director, Los Alamos, N. Mex.
- 35. Merrill Eisenbud, Director, Health and Safety Division, New York Directed Operations, New York, N. Y.
- 36. W. D. Norwood, M. D., Medical Director, Hanford Engineer Works, Richland, Wash.
- 37. Robert Love, M. D., Brookhaven National Laboratory, Long Island, N.Y.

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HEALTH DIVISION ANNUAL REPORT

July 1, 1953 -- June 30, 1954

Thomas A. Lincoln, M. D., Medical Director

SCOPE OF PROGRAM

An active program in industrial health has been maintained at the Oak Ridge National Laboratory during the past year, with the objective of maintaining the best possible health status of the employed personnel. The specific component parts of this program are as follows: (Changes are indicated with an asterisk and are explained at the end of this section.)

I. INDUSTRIAL HEALTH PROGRAM AS IT RELATES TO THE INDIVIDUAL EMPLOYEE.

The employee ordinarily is considered from three points of view: A. As a candidate for employment; B. As an employee requiring health maintenance, and C. As a sick or injured employee. The various procedures carried on under these divisions are as follows:

A. As A Candidate for Employment

1. Completion of Cornell Medical Index Health Questionnaire.
2. Completion of medical and employment history.
3. Laboratory examinations
 - a. Complete blood count.
 - b. Urinalysis
 - c. Chest film (14 by 17" at 6')
 - d. Serodiagnostic test for syphilis (VDRL).
 - * Vision and hearing evaluation and electrocardiogram now omitted here.
4. Brief personality evaluation by clinical psychologist, routinely when possible, and mandatory when examining physician so indicates.
5. Complete physical examination by a staff physician.
6. Review of all laboratory and clinical findings by examining physician.
 - a. Work health classification determined and forwarded to the employment Section of the Personnel and Service Department.

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- b. Reservations stated when indicated.
- c. Special consultation with Employment Section and/or expected supervision on marginal cases.
- 7. Additional examinations and procedures when employee reports for work.
 - a. Complete blood count, urinalysis, chest x-ray, if interval between preliminary examination and employment date exceeds three weeks.
 - b. Determination of blood type and Rh factor.
 - c. Vision evaluation through use of Bausch and Lomb Ortho-Rater.
 - d. Hearing evaluation through use of Maico audiometer.
 - e. Brief interview with examining physician for interval history.
 - f. Immunization
 - 1). Smallpox
 - 2). Tetanus
 - 3). Typhoid fever.
 - g. Fitting and issuing of occupational eyewear, if indicated.

B. As An Employee Requiring Health Maintenance

- 1. Annual multiphasic screening on all employees each year.
 - a. Complete blood count, urinalysis and serodiagnostic test.
 - b. Ortho-Rater examination.
 - c. Audiogram.
 - d. Electrocardiogram, including weight determination and blood pressure recording, at age 35 and then once a year after age 40, or yearly when abnormal, or when so requested by examining physician.*
 - e. Stimulating immunization injections as needed.
- 2. Complete periodic physical examination by physician.*
 - a. All employees 45 years of age and over.
 - b. Given every third year until age 45, with the exceptions listed below.
 - c. Yearly on all diabetics.
 - d. Yearly on all employees classified H-3, with or without restrictions.
 - e. Yearly when so requested by a physician.
 - f. Yearly on key personnel.
- 3. Special examinations, when indicated, because of special health hazards.
 - a. Metallurgy
 - 1). Vital capacity
 - 2). Blood and urine beryllium determination.

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- b. Cafeteria employees.
 - 1). Stool examination for ova and parasites.
 - c. Chemical Technology (mercury workers)
 - 1). Examinations done in 4500 Dispensary.
 - 2). Blood and urine mercury level determinations when employed, then every three months.
 - 3). Oral pharyngeal and neurological examination by a physician.
 - 4). Quarterly routine urinalysis and hemoglobin examination.
 - d. Lead Burners
 - 1). Blood and urine lead level determination when employed; then every three months for blood; and every month for urine.
 - e. Examinations for those in heavy jobs.
 - 1). X-ray film of lumbosacral spine.
 - f. Cyclotron and Pile Operators *
 - 1). Slit lamp examination by consultant ophthalmologist semi-annually.
 - g. Other diagnostic procedures, as indicated.
 - h. Clinical photograph, in color and/or black and white, of unusual findings.
 - i. Radiation exposee (L-4)*
 - These examinations are no longer performed.
4. Health Education
- a. Creation (or procurement) and distribution of posters and pamphlets.
 - b. Preparation of three dimensional table-size exhibits.
 - c. Procurement of waiting room issues of the American Medical Association health magazines, "Today's Health," and "Life and Health" for all dispensaries.
 - d. Preparation of a weekly news column for the Oak Ridge National Laboratory News.
 - e. Meeting with supervision or management to clarify job adjustment of the worker.
 - f. Weekly orientation program for new employees and other groups.
 - g. Talks to employee groups relative to occupational and non-occupational health problems.
 - h. Health education seminars *
5. Industrial hygiene surveys for occupational hazards control in cooperation with the Safety Department.
6. Assistance in medical aspects of industrial hygiene engineering.

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C. As a Sick or Injured Employee

1. Medical and/or surgical care of occupational illness or injury, including over-exposure to radiation, under workmen's compensation laws.
2. Emergency care for non-occupational illness or injury including diagnosis, emergency therapy, and referral to family physician when indicated.
3. Assistance and direction in medical rehabilitation of the ill or injured employee.
4. Liaison between ill employee and private physician, hospital, Welfare Services Department, American Red Cross, Veterans' representative, Office of Vocational Rehabilitation, etc.
5. Counseling services for workers presenting job maladjustments involving emotional disturbances (mental hygiene procedures).
6. Conference with management or supervision in order to effect a better work adjustment for the emotionally disturbed employee.

II. CONSULTATION SERVICES PROCURED FROM OUTSIDE AGENCIES OR INDIVIDUALS

- A. Consultant services in cardiology
- B. Consultant services in radiology.
- C. Consultant services in psychiatry and clinical psychology.
- D. Others as selected.

III. MISCELLANEOUS

A. Termination Physical Examination for All Employees

1. The same as preliminary examination, exclusive of electrocardiogram, serology and psychological consultation.

B. Special Examination for Visitors

1. Visitors of three days or less: These individuals do not report to the Health Division.
2. Visitors of three weeks to three months: Complete blood count, urinalysis and chest x-ray.
3. Visitors remaining over three months: The same procedures as for the preliminary physical examination without electrocardiogram, unless over age 40.

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C. Examinations for Individuals at the Laboratory under Contract or in Oak Ridge by Special Arrangement.

The same procedures as for the preliminary physical examination without an electrocardiogram, unless over age 40. Among these are:

1. Atomic Energy Commission.
2. Oak Ridge Institute of Nuclear Studies.
3. Catalytic Corporation.
4. Army Air Force.
5. Pratt Whitney Corporation.

COMMENTS

These will be confined to changes made during the past year in the examination program.

A. 3. * Vision and hearing evaluation and electrocardiogram.

The vision and hearing screening and electrocardiogram were eliminated from the preliminary physical examination in May 1954 in order to shorten the length of time each interviewee spent in the Health Division. These procedures, accomplished at this time only when requested by the examining physician, are completed in all cases when and if the individual reports for work. Since there has been a high percentage of offers declined, this change has enabled a significant saving.

A. 4. Personality evaluation.

All candidates are seen briefly by the clinical psychologist whenever possible at the time of the preliminary examination and a more complete examination is accomplished, if indicated, when they report to work. Adverse information is discussed with the physician who examined the applicant and then recommendations are made to the Personnel Section and the Division interviewing the applicant. The findings and subsequent opinions resulting from such an examination do not lend themselves to the ordinary health classification. Only when an applicant represents a greatly increased risk is he arbitrarily rejected by the Health Division.

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B. 1. d.* Electrocardiogram.

Annual electrocardiograms on young, apparently healthy employees do not provide sufficient diagnostic information to warrant the expense. For this reason, the frequency of electrocardiograms was reduced as indicated.

B. 2. * Complete periodic physical examination by physician.

The most important accomplishment of the past year has been the institution of a complete periodic physical examination program for all employees. In September 1953, all employees 45 years and older were scheduled for a complete physical examination by a physician to be performed within a month after the multiphasic screening procedures. In November, this program was further expanded to include a complete physical examination by a physician on all employees every third year until they reached the age of 45. In the spring of 1954, diabetics and workers with an H-3 classification were placed on the annual physical examination list.

This examination is designed to cover all aspects of worker health. A careful medical history is recorded with special attention to the social and work history and plans for retirement on all employees over 45. All laboratory work, which was performed approximately a month previously as a part of the multiphasic screening program, is reviewed with the employee. A complete physical examination, including routine funduscopy and rectal examination, is performed. The employee is informed of all significant abnormalities and recommendations for treatment or further diagnostic procedures are made. Eating habits in all patients who are obese or malnourished are investigated and appropriate diets prescribed. The work classification is reviewed in each case, revised according to the present physical condition and notification of such changes is forwarded to the Division concerned.

B. 2. f * Cyclotron and pile operators

The slit lamp examinations done by consultant ophthalmologists from Oak Ridge are now performed in the Health Division dispensary, using a slit lamp borrowed from the Biology Division. This change has

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enabled a considerable financial saving and a great decrease in the amount of time lost by individuals who formerly had to go in to Oak Ridge on a rather indefinite appointment basis. (Consultant cost per examination has been reduced by 50%.)

B. 2. i * Radiation exposee.

It has now been firmly established that complete blood counts are of no value in monitoring radiation exposure. All employees will continue to get a yearly blood count and urinalyses as part of the periodic examination.

B. 3. h.* Health education seminars.

See special section on Health Education on page 13.

PERSONNEL SERVED

During this period, the total number of employees at the Laboratory approximated 3400 + and in addition, the Health Division rendered services to personnel from Catalytic Corporation, Oak Ridge Institute of Nuclear Studies, Army Air Force, Oak Ridge School of Reactor Technology and Pratt Whitney Corporation. These services, represented, in the main, pre-placement and termination physical examinations or dispensary visits.

PERSONNEL OF THE HEALTH DIVISION

The Division, headed by the Medical Director, has when staffed to capacity, two additional staff physicians and seven nurses. There is one x-ray technician, four clinical laboratory technicians, an administrative clerk, two clerks, two secretaries, one ophthalmic dispenser, and three members rendering custodial services. A consultant clinical psychologist, at the present time, spend approximately three days weekly at the Health Division.

FACILITIES

A. Building 2013

1. Changes.

- a. The Reception Room was modified in order to accommodate more files for our constantly expanding clinical record section. Photographs 1 and 2 show the major changes, which included moving the desk forward about eight feet, changing the general

Photograph No. 1





Photograph No. 2

orientation of the files, changing the lighting facilities, and modifying the front desk. Photograph 3 shows the changes made in the former library, which is now an additional examination room.

- b. A complete painting program was undertaken in May of 1954. Color consultant services were obtained and the color program suggested by the Pittsburgh Paint Company was accepted. Painting is proceeding at a slow rate and will probably be completed in October of 1954.
- c. A one ton air conditioning unit was installed in the Rest Ward and three-quarter ton units were installed in the ophthalmic dispensary and the third clinical examination room.

B. Building 4500

- 1. A sub-dispensary in Building 4500 has not been changed in the past year.

C. Building 7009

- 1. Construction of a sub-dispensary in the 7000 Area was begun in June of 1954. This dispensary will occupy 254 square feet in the 7009 building, which is the Carpenter Shop. Emergency care for injuries and minor non-occupational illnesses will be provided.

This dispensary will be opened August 16th and will be staffed by one of the present regular nurses of the dispensary in Building 2013. When illnesses and vacations decrease the present nursing staff it may be difficult to keep this sub-dispensary open at all times without an additional nurse.

SECTION REPORTS

X-ray Section

The principal change in the x-ray program in the past year has been the discontinuance of the special chest x-ray survey, which had been done in past years in October and early November. A special survey, as before, was done in October and November 1953, but beginning in March of 1954 a chest x-ray was included as a part of the multiphasic

Photograph No. 3



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program. This change was made so that a recent chest x-ray would be available to the physician for the periodic physical examination. Unnecessary cost of overtime during such a special survey was eliminated and the work load in the X-ray Department was better distributed throughout the entire year.

The terminated x-ray file was removed from the x-ray office to the Laboratory Records Section.

Nursing Service

The shift nurses examined approximately 800 clinical records and recorded the incidence of childhood diseases, appendicitis, eye and ear infections, as reported in the medical history form at the time of the pre-placement physical examination. This information was incorporated into a health article for the Laboratory News.

The Nursing Service assisted in the two health education seminars.

Clinical Laboratory

In addition to changes in the laboratory examination program as previously indicated, the clinical laboratory added the following chemistry procedures:

1. Twenty-four hour urine sugar.
2. Thymol turbidity
3. Serum bilirubin

Clinical Records

The weekly report was discontinued on January 1, 1954. This information is now submitted in a quarterly report.

Administrative Section

The library was consolidated in one room and all books were filed by catalog number.

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Occupational Vision and Clinical Photography Section

The program in the procurement and issue of occupational eyewear continues. Currently the following types of safety glasses are being issued:

1. Type of glasses
 - a. Spectacle and goggle type.
 - b. Face and eye shields.
 - c. Respirators
 - d. Clip-ons.
2. Types of frames
 - a. Plastic and metal
 - 1). With and without side shields.
 - 2). With and without adjustable nose pads.
 - b. All plastic (including lenses)
 - 1). Opaque
 - 2). Clear goggle frames
 - c. Special frames inserted in filter masks, respirators and clip-ons.
3. Lenses - hardened
 - a. White
 - 1). Plano
 - 2). Prescription.
 - b. Tinted, pink.
 - 1). Prescription only.
 - c. Green sun lens type.
 - d. Glass blowers
 - 1). Cobalt and didymium (cobalt, plano only).
 - e. Welders, all shades.

Mr. Rule now makes weekly field trips into working areas of the Laboratory to better evaluate worker needs in the field of occupational vision and to assist supervision with employees with special vision or eye safety problems. These visits are being recorded and an evaluation will be made in a year.

Psychological Service

A psychological evaluation of prospective Laboratory employees was continued during the past fiscal year. Prospective employees are seen briefly at the time of their initial interview and a more complete evaluation is made at the time they report for work. At the present time the psychologist is seeing possibly 80% of all individuals who come to the Dispensary for a preliminary examination. In any case in which the examining physician feels it necessary, the candidate is required to return for a psychological evaluation if, for some reason, he cannot be studied that day. Psychodiagnostic studies, as well as a psychological interview, are made on all employees referred by one of the staff physicians. Disposition of these cases ranges from brief counseling service at the Dispensary, to referral for psychiatric or psychological care at various area clinics or hospitals.

During the year several of the Divisions of the Laboratory requested the assistance of the psychologist in resolving personality or job adjustment problems among individuals under their direction.

Health Education

The Graphic Arts Department made two posters during the past year indicating the role of mental health in industrial medicine, which were exhibited at the following meetings:

- Persone] Conference of the American Management Association,
Chicago, February 1954.
- Institute on Industrial Psychiatry, Department of Psychiatry,
School of Medicine, University of Buffalo, Buffalo, March 1954
- Management Conference, American Management Association,
New York City, June 1954

Several talks were presented on the special hazards to workers in the OREX Project and in the Metallurgy Division.

Two Health Education Seminars were the most important additions to the Health Education Program. On February 10, 1954, Dr. Wade H. Boswell discussed headaches, their cause, significance and treatment, in the auditorium of the 4500 building. This seminar was attended by

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700 persons and received an enthusiastic reception.

A second seminar was conducted on June 9, 1954 when Dr. J. Vivian Gibbs, Knoxville obstetrician and gynecologist, discussed the general aspects of female health to approximately 500 female workers. A question and answer period followed.

Health education seminars covering the general fields of urology and ophthalmology are planned for the next year.

A special narrative report, giving a current evaluation of worker health at the Laboratory, was instituted during the past year, and is being sent to Dr. Larson and Mr. Ramsey about every 60 days.

Clinical Investigation Section

Dr. T. A. Lincoln studied the clinical aspects of the toxicology of propylene diamine. A number of patch tests were performed and case records accumulated. A preliminary report was given at the AEC meeting in Berkeley, California, in November of 1953.

Administrative Section

Dr. Lynn F. Lockett joined the staff of the Health Division October 1, 1953 and at the present time is serving as Associate Medical Director. Dr. W. N. Tauxe terminated January 1, 1954 to accept a residency in pathology at the Mayo Clinic, Rochester, Minn. Mrs. Joan Livingston was transferred to the Library Division effective March 1, 1954.

Attendance at Professional Meetings

Attendance at professional meetings, in addition to AEC and Carbide and Carbon Chemicals Company conferences, was as follows:

Thomas A. Lincoln, M. D.

AEC Industrial Physicians meeting, Berkeley, Calif., Oct. 5, 1953

Industrial Hygiene Foundation meeting, Pittsburgh, Pa., Nov. 18-19, 1953.

Industrial Medical Association meeting, 1954 Industrial Health Conference, and AEC Industrial Physicians meeting, Argonne

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National Laboratory, Chicago, April 24 - 30, 1954.

A classified paper was read by Dr. Lincoln at the Berkeley meeting and a report of the slit lamp examination, as performed by the Health Division of the Oak Ridge National Laboratory, was given at the Chicago meeting.

RECOMMENDATIONS

1. One additional nurse will probably be necessary to maintain service in the 7009 building dispensary.
2. Chest x-rays should be taken semi-annually on all male employees 45 years or older.

- - - - -

STATISTICS

Statistical Summary

Average monthly severity rate (days lost per illness-absence)		4.9
Average monthly disability rate (days lost per 1000 days scheduled)		14.1
Average monthly frequency rate (absence per 1000 days scheduled)		2.9
Average number of visits per employee per year		13.1
Average number of ORNL employees on payroll per month		3400
Total number of visits for fiscal year 1953-54		44,055
Total visits by ORNL employees	41,513	
Total visits by DuPont Co. employees	1	
Total visits by AEC employees	227	
Total visits by others	2,311	
Total visits to X-10 Dispensary	31,865	
Total visits to 4500 Dispensary	7,115	
Total visits to Y-12 Dispensary	5,075	

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Average number of patients visiting the dispensary per month	2,053
Average number of employee-patients visiting the dispensary per month	1,889
Average percent of all ORNL employees visiting the dispensary	59.4%
Average number of illness-absences per employee per year	.7%
Average number of preliminary examinations per month	68
Average monthly ratio of occupational to non-occupational procedures	1:1.3
Total number of procedures accomplished for fiscal year 1953-54	71,388
Non-occupational illness, first visit	12,174
Non-occupational illness, repeat visit	5,267
Non-occupational injury, first visit	1,379
Non-occupational injury, repeat visit	942
Occupational illness, not otherwise classified, first visit	78
Occupational illness, not otherwise classified, repeat visit	128
Occupational injury, not otherwise classified, first visit	2
Occupational injury, not otherwise classified, repeat visit, alleged or questionable	7
Occupational injury or exposure, chemical, first visit	188
Occupational injury or exposure, chemical, repeat visit	366
Occupational injury or exposure, chemical, alleged or questionable, first visit	10
Occupational injury or exposure, chemical, alleged or questionable, repeat visit	9
Occupational injury or exposure, not otherwise classified, first visit	1,905
Occupational injury or exposure, not otherwise classified, repeat visit	3,605
Occupational injury or exposure, radiation, first visit	27
Occupational injury or exposure, radiation, repeat visit	4
Occupational injury or exposure, radiation, alleged or questionable, first visit	3

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COMPLETE EXAMINATIONS

Absence due to non-occupational illness, first visit	31
Absence due to non-occupational injury, first visit	1
Absence due to occupational injury, first visit	2
Industrial Hygiene examination	14
Job transfer examination	20
Periodic health examination, first visit	780
Periodic health examination, repeat visit	3
Emergency Squad examination	1
Non-occupational examination	94
Preplacement examination	279
Rehire examination	54
Termination examination	422
Preliminary examination	782

PARTIAL EXAMINATIONS

Absence due to non-occupational illness	2,207
Absence due to non-occupational injury	59
Absence due to occupational illness	11
Absence due to occupational injury	49
Industrial Hygiene examination, first visit	328
Industrial Hygiene examination, repeat visit	50
Job transfer examination	7
Periodic health examination, first visit	5,320
Periodic health examination, repeat visit	169
Emergency squad examination	3
Non-occupational examination, first visit	424
Non-occupational examination, repeat visit	87
Pre-placement examination, first visit	435
Pre-placement examination, repeat visit	37
Rehire examination, first visit	68
Rehire examination, repeat visit	5
Termination examination	156
Blood donor examination	45
Clinical laboratory industrial hygiene procedure, first visit	310
Clinical laboratory industrial hygiene procedure, repeat visit	5

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Special study interview, first visit	7
Special study interview, repeat visit	4
Psychodiagnostic service, first visit	48
Psychodiagnostic service, repeat visit	1
Psychologic consultation, first visit	106
Psychologic consultation, repeat visit	123
Psychiatric consultation, first visit	16
Psychiatric consultation, repeat visit	4
Psychodiagnostic tests	78
Consultation, occupational condition, first visit	13
Consultation, occupational condition, repeat visit	10
Consultation, non-occupational condition, first visit	658
Consultation, non-occupational condition, repeat visit	116
Consultation or advisory service without patient, occupational, auxiliary service	1,471
Consultation or advisory service without patient, non-occupational, auxiliary service	2,396
Pre-marital serodiagnostic test, first visit	45
Pre-marital serodiagnostic test, repeat visit	3
Medical termination examination	26
Procedure for outside physician, first visit	140
Procedure for outside physician, repeat visit	512
Emergency care for visitors	8
Auxiliary procedure:	
Audiogram	3,992
Electrocardiogram	2,201
Field clinical laboratory procedure	373
Clinical laboratory procedure	6,052
Bacteriological culture	11
Bacteriological smear	37
Basal metabolic rate	21
Blood cholesterol	45
Blood glucose	109
Blood pressure	2,342
Blood typing	830
Blood icteric index	7

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Agglutination test	12	
Blood NPN	7	
Blood bleeding time	6	
Blood, uric acid	4	
Complete blood count	5,179	
Clotting time	7	
Feces, parasites and ova	11	
Feces, bacteriological	2	
Feces, occult blood	2	
Feces, complete	5	
Gastric analysis with intubation	1	
Hemoglobin	54	
Height	1,577	
Heterophile	7	
Hematocrit	5	
Malarial parasites	2	
PSP	2	
Platelet count	5	
RBC and hemoglobin	185	
Rh factor	1,024	
Serum bilirubin	5	
Sedimentation rate	99	
Sperm count	6	
Thymol turbidity	2	
Urinalysis	5,377	
Urinalysis, quantitative, 24 hour sugar	1	
Urine, bilirubin	1	
Urinalysis, non-restricted area	500	
Venipuncture for VDRL	3,780	
Vital capacity	1	
Weight	1,577	
WBC	11	
WBC and differential	101	
Total		22,960*

*The figure on the previous page represents the number of clinical laboratory visits. More than one laboratory procedure may be performed in one visit, hence the total as above for the breakdown of procedures.

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Occupational Vision Section Procedures	
Spectacles issued, plano, first visit	325
Spectacles issued, plano, repeat visit	4
Spectacles ordered, prescription, first visit	366
Spectacles ordered, prescription, repeat visit	4
Spectacles issued, prescription, first visit	340
Spectacles issued, prescription, repeat visit	3
Emergency service for non-occupational eyewear	19
Partial replacement, first visit	187
Partial replacement, repeat visit	5
Adjustment and repair, first visit	46
Adjustment and repair, repeat visit	1
Advisory service regarding vision, first visit	91
Advisory service regarding vision, repeat visit	3
Special ophthalmological examination	95
Auxiliary procedures:	
Ortho-Rater examination	4,131
Clinical photograph, occupational	14
Clinical photograph, non-occupational	4
X-ray, occupational, auxiliary service	3,028
X-ray, non-occupational, auxiliary service	3,449
Immunization	
First immunizations	567
Second immunizations	459
Third immunizations	385
Booster and smallpox	545
Other immunizations, first visit	335
Other immunizations, repeat visit	6
Psychologic interview testing, preplacement	221

DISPOSITION

Return to regular work	57,572
Return to modified or part-time work	2,323
Death	10
Remain off work	8,098

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Rejected	36
Accepted conditionally	1
Accepted	3,189
Sent to hospital or physician's office	65
Sick leave	94

ATTENDANT

Psychiatrist	27
No attendant*	6,821
Nurse referral	228
Nurse	25,427
Nurse and doctor	3,718
Doctor	9,575
Technician	24,762
Psychologist	830

* This code is necessary to avoid a false duplication of items in the Attendant code.

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