Data on Health Benefits To Be Distributed Soon

According to the Civil Service Commission, by Dec. 15 the 1972 revised health benefits plan brochures and information booklets will be given information on that date.

Benefits for all plans in 1972 will remain the same as in 1971. Premiums for most plans will increase.

The next issue of the NIH Record will have the new premium rates which become effective on Jan. 9, 1972. Health benefit enrollments and changes in enrollments also become effective on that date.

The information booklet on the open season will be distributed on a desk-to-desk basis. Employees will be given information on registration procedures, and directions for obtaining brochures of other plans.

The employee’s timekeeper will distribute a brochure of the plan in which he is presently enrolled. The brochures will have the 1972 premium rates.

Registration assistants will help employees to complete forms. A list of the assistants will be posted on all official NIH bulletin boards and in personnel offices.

Because of delays in printing the brochures due to negotiating premiums with the carriers, the Employee Relations and Recognition Branch, OPM, pointed out that CSC has extended the open season to Dec. 31.

Dr. James Dickson Will Speak At Multi-Testing Conference

Dr. James Dickson, program director, Engineering in Biology and Medicine, National Institute of General Medical Sciences, will deliver a major address on technology in health care at the Multi-Testing meeting to be held Dec. 3-4 in Washington, D.C.

The conference, sponsored by the International Health Evaluation Association, will explore the field of multi-testing and automation in relation to health care delivery.

NIH Staff, Grantees Take Active Part In 24th Gerontological Society Meeting

Editors of Gerontological Society publications received special plaques at the organization’s recent meeting. (L to r): Dr. Jerome Kaplan, Society president, made the presentations to Dr. Oscar J. Kaplan, Dr. Shock, and Dr. Birren.

Several staff members and scientists closely associated with NIH participated in the 24th Annual Scientific Meeting of the Gerontological Society held in Houston, Tex., Oct. 27-30.

One of the scientists, Dr. Bernice L. Neugarten, was the 1971 winner of the annual Robert W. Kleemeler Award for outstanding contributions to research on aging. Dr. Neugarten is Program Director of one of the largest training grants in adult development and aging awarded by the National Institute of Child Health and Human Development.

A psychologist, she is professor of Human Development at the University of Chicago, where one of her primary interests is the study of personality changes in adulthood, particularly as these relate to middle-aged and older people.

She is also concerned with antagonisms toward the old that may be now forming but were not present in earlier historical periods.

Two other well-known gerontologists received special awards at ceremonies commemorating the Gerontological Society’s 25th anniversary.

For his service as editor-in-chief of the Journal of Gerontology from 1963 to 1968, Dr. Nathan W. Shock, chief of the NICH Gerontology Research Center, received a plaque depicting the publication’s cover.

He also received a silver medal for his service as Society president in 1960.

Dr. James E. Birren, a former GRC staff member and Director (See GERONTOLOGY Page 4)

Healthy Children Needed To Give Samples of Blood

The Pediatric Metabolism Branch of the National Institute of Arthritis and Metabolic Diseases is requesting normal children in the 10-17 age range to give blood samples.

The children must be in good health with no history of chronic illness, hepatitis, or other liver, blood, or bone diseases. These young donors should not have been on any medication in the recent past and must have no family history of cystic fibrosis.

A 40 cc blood sample will be obtained in the Outpatient Clinic of Bldg. 10, and donors will be compensated with $5. Fcr an appointment call Ext. 64151.

Conference on Planning For New Cancer Centers To Feature Workshops

A conference on planning for cancer centers will be held on Dec. 2-10, at the Washington Hilton Hotel. The meeting is sponsored by the American Cancer Society and the National Cancer Institute in cooperation with the Association of American Medical Colleges.

Dr. Carl G. Baker, NCI Director, will speak on Cancer Centers and the National Cancer Institute, Linda W. Adams, executive vice president, American Cancer Society, will discuss Cancer Centers and the American People.

The Objectives and Problems of Developing and Operating Cancer Centers will be discussed on the first day. That session will be under the chairmanship of Dr. Sidney Farber, president, of the Children’s Cancer Research Foundation, Boston, and former National Advisory Cancer Council member.

Reports on Education and Training will be given by Dr. Robert C. Hickey, University of Texas, and Dr. Sherman M. Melinkoff, UCLA School of Medicine.

(See CANCER PLANNING, Page 7)
Countryside Outing Held By Discover America Club

The first independent bus tour of the R&W Discover America Club took place in October. The group, made up of NIH’ers, chartered a bus and followed a route through historic St. Mary’s County, Md.

Some members in the NIH Recreation and Welfare Association is the only requirement for joining DAC.

L. Douglas Weiford, Jr., has been appointed manager of the NIH Recreation and Welfare Association. Mr. Weiford comes to the campus from the Defense Intelligence Agency, DOD, where he was the Office Services manager. He has also had 12 years experience in retail photography.

Booklet Tells Story of ‘Patient Emergency Fund’

Problems that accompany illness cost the Clinical Center $30,000 annually. A new edition of a booklet, entitled A Gift That Lasts Through the Year, describes how the Patient Emergency Fund helps to meet these problems.

The voluntary fund was established by the Clinical Center to help with financial problems that over 10 percent of its patients are unable to meet. Although medical care is supplied without cost, the government does not meet all the personal needs of patients and their families.

Most needs are small—$4 weekly will supply minor necessities for patients without funds, according to the booklet.

However, much of the money in the fund, administered by the CC Social Work Department, supports relatives who stay nearby to visit patients.

The fund relies heavily on voluntary contributions of individual NIH employees through several sources—the Davis Plan, gifts from those employees who receive money for donating blood, or donations from staff members who receive honorariums for articles or speeches.

Although patients are never expected to give, sometime they or their grateful families express their appreciation by donating.

Single free copies of the booklet are available from the CC Social Work Department, Bldg. 10, Room 1N-248; Office of Administrative Services, Bldg. 31, Room 1C-02, or from B/L/D administrative offices.

Dr. Alice Bishop Ring has been named assistant associate regional health director for Manpower, BHME, Region IX, San Francisco. Dr. Ring has served as medical director of Head Start programs in Salt Lake City and County.

As consultant to the Utah State Department of Health, Dr. Ring helped in developing a cystic fibrosis center, and setting up a clinic for treating children with oral-facial deformities.

NLM Unit Selects Union As Exclusive Representative

The National Federation of Federal Employees, Local 1776, has been certified as the exclusive representative of approximately 220 non-professional employees of the National Library of Medicine, effective Sept. 30.

A majority of the NLM employees selected the union through a secret ballot.

The local will act for and negotiate an agreement to cover all employees in the unit without discrimination or regard to labor organization membership.

The local may also be represented at formal discussions between management and employees (or their representatives) concerning grievances, and policies affecting working conditions.

TO JOIN THE “DAVIS PLAN” — make a Clinical Center patient’s life happier during the holiday season, and all through the year — please use this form.

Gifts are tax deductible.

Enclosed is a gift of $ . (Make checks payable to NIH Patient Emergency Fund.)

Send to: Your Administrative Officer, — or Mr. James Davis, director, Office of Administrative Services, Bldg. 31, Room 1C02 — or Mr. John Roatch, chief, Social Work Department, Clinical Center, Room 1N-250.

Donor’s name:__________________________

Institute/Division:_______________________

Bldg. & Room No. : ____________________

Join the “Davis Plan,” instead of sending Christmas cards to co-workers, use this form and donate to the CC Patient Emergency Fund.
Reuben Doggett’s Interest in Muscles Leads to Rare Training Opportunity

Would you accept a job without an assured salary, 3,000 miles from home, spending 15 hours a day, 6 days a week in a laboratory? Reuben Doggett did.

Mr. Doggett explained that the job gave him “an opportunity to work with one of the greatest muscle men in the world,” Dr. W. King Engel.

Dr. Engel is chief of the Medical Neurology Branch, National Institute of Neurological Diseases and Stroke.

Mr. Doggett—in his second year at the University of California in Los Angeles—was the only medical student assigned to the Medical Neurology Branch this past summer.

Although the appointment of a student at this level of training is rare, Dr. Engel accepted Mr. Doggett on the recommendation of Dr. John Blass, former NHLI staff member and now associate professor at UCLA.

Mr. Doggett was later granted a Summer Student Fellowship by the Muscular Dystrophy Associations of America, Inc., evidence of special competence early in his training.

Worked With Dr. Whitaker

Mr. Doggett worked with Dr. John Whitaker whose current project deals with muscle damage caused by inflammation.

In conjunction with Dr. Whitaker’s study Mr. Doggett attempted to provoke experimental polymyositis, a muscle disorder, in guinea pigs.

During his stay at NINDS, Mr. Doggett participated in all phases of the polymyositis study from immunization of animals to evaluation of alterations in muscle tissue.

He also attended Dr. Engel’s clinical rounds and conferences, and visited patients on the CG Medical Neurology Unit to learn firsthand about clinical research.

Mr. Doggett graduated from LeMoyne College in Memphis, Tenn., in 1963 with a degree in Zoology. Before entering medical school in 1968, he worked as an autopsy assistant, lab technician, and electron microscopist.

As a result of his summer at NINDS, he is now able to perform numerous specialized immunological assays and a variety of histochemical studies of muscle.

Drs. Whitaker and Engel felt that Mr. Doggett made a significant contribution to their studies. They invited him back next summer, but Reuben Doggett will be on a clinical clerkship at the beginning of his final year of medical school.

Mr. Doggett spent his vacation working in an NINDS lab on an immunological study of diseases affecting the neuromuscular system.

Temporary Parking Permits Available for Emergencies

Special arrangements may be made through the Protection and Parking Branch to obtain a temporary parking permit for emergencies.

For borrowed, rented, or new cars, a short-term permit may be obtained from the Guard Offices in Bldg. 31, Room B1-A-06; Bldg. 10, Room 1-A-06; Westwood Bldg., or the National Library of Medicine.

Officer Issues Permits

In situations where an employee does not have advance notice, upon arrival on the reservation, he may secure a temporary permit from any traffic police officer or drive directly to the guard booth at the Admissions and Follow-up Patients’ lot on Convent Drive. The officer there will issue a permit.

New cars should be registered as soon as possible in Bldg. 31, Room B1-C-11.

Employees are not visitors and are never entitled to park in visitors’ parking spaces.

For further information on parking, see page 198 of the yellow pages in the NIH Telephone and Service Directory.
NINDS Research Shows Whiplash Can Be Cause Of Brain Hemorrhage

One of the most common features of infants suffering from the "battered child syndrome" is subdural hematoma—a brain hemorrhage. Yet many of the infants show no external marks of injury to the head. The explanation for this phenomenon may lie in the findings of Dr. Ayub K. Ommaya, a National Institute of Neurological Diseases and Stroke neurosurgeon, that whiplash (defined as a sudden rotation of the head) can cause brain hemorrhage.

His animal studies have shown that the rotating action of the brain in the skull during whiplash can cause subdural hematoma even though there is no direct blow to the head and the symptoms may not appear immediately. His work was recently cited by Dr. A. N. Guthkelch, a neurosurgeon at the Hull Royal Infirmary in England, who stated that the same whiplash-type situation exists in many children who have been violently shaken.

**Surgeon Gives Statistics**

In the *British Medical Journal*, Dr. Guthkelch presented statistics from other studies. Statistics from another scientist showed that 42 percent of infants who were assaulted had subdural hematoma.

According to Dr. Guthkelch, the relatively large head supported by relatively tiny neck muscles makes the infant particularly vulnerable to whiplash injury.

In his own study of 23 cases of proved "or strongly suspected" assault on children—all but one of which was under 18 months of age (the other was under 3 years)—subdural bleeding occurred in 13 of the children (57 percent).

Six of these infants had skull fractures. Two others had skull fractures but no bleeding. Five of the infants, however, had subdural bleeding with no evidence of violence to the head.

Dr. Guthkelch concluded that simply moving the infant's head should be considered as a possibility in infant subdural hematoma.

The study covered 56 people initially tested in their 60s, and an additional 30 individuals initially tested in their 70s who were followed across a 7-year period. With increasing age hearing acuity became worse. Impairment was first noted at the high tones, but in later years it spread progressively to lower tones.

In another presentation, "The Effect of Free Association Upon Retention as a Function of Age," Dr. Phylis A. Moenster reported on a project involving the ability to remember in 102 women.

**GERONTOLOGY**

(Continued from Page 1)

of NICHID's Adult Development and Aging Program, also received a plaque as editor-in-chief of the *Journal* for the past 3 years, and a medallion for his presidency during 1962.

Dr. Birren is now Director of the Gerontology Center, University of Southern California, Los Angeles.

The presentations were made by Dr. Jerome Kaplan, 1970 Society president and current editor of the *Gerontologist*.

Dr. Oscar J. Kaplan, an NLM grantee at San Diego State College and first editor of the *Gerontologist*, also received a plaque.

NICHID grantees Frances Wilkie and Dr. Carl Eisdorfer reported at the meeting on "Hearing Levels by Age, Sex, and Race," based on work done at the Center for the Study of Aging and Human Development at Duke University.

Dr. Neugarten (l), receives a Steuben crystal as winner of the 1971 Gerontological Society Kleebsmier Award for aging research from Dr. F. Marott Sinex, Boston U., awards chairman.

**Patients, Relatives Need More Short-Term Housing**

Do you have a room or an apartment near NIH which you would like to rent on a short term basis—one day to a few months? More housing facilities are needed. Frequently, Clinical Center patients or their relatives from distant areas need a convenient place to stay.

Some 25 community residents have found it personally rewarding, as well as profitable, to help others during a difficult period.

Call the CC's Office Services, Administrative Branch, Ext. 63141.

Dr. Wilhelmus A. Loeven, Research Chemist in GRC Biophysics Section, Dies

Dr. Wilhelmus A. Loeven, 46, Gerontology Research Center, National Institute of Child Health and Human Development, died Nov. 2 in Baltimore.

Loeven was a research chemist in the Biophysics Section of the Center's Laboratory of Molecular Aging. He came to GRC in 1967 as a Visiting Scientist, and a year later joined the intramural staff.

He conducted studies of elastin and the elastolytic enzymes believed to be involved in the early processes of atherosclerosis and in the aging of elastic tissues.

Before joining the GRC staff, Dr. Loeven was acting chairman, Department of Chemistry and Physics, Netherlands Institute for Preventive Medicine, Leiden, from 1961 to 1967.

He conducted research, under a Rockefeller Fellowship, at the Municipal University of Amsterdam, the Netherlands, 1951-52.

Dr. Loeven is survived by his wife, Dora, and four children.

This ability is commonly believed to deteriorate as people age, but in a recent experiment, partially supported by NICHID, Dr. Moenster at Washington University, St. Louis, showed that, in fact, there is little difference between the memory recall of older people as compared with their younger counterparts of comparable intellectual background.

Her investigation showed, she said, that older people had greater difficulty learning specific subjects as quickly as younger individuals.

However, she found that free association seemed to help older individuals to remember information while it appeared to be of little benefit to younger people.
FIC Conference Explores Medical Education, Care

How to maintain a better balance between medical education and medical care was explored at the third conference on medical education sponsored by the Fogarty International Center Nov. 1-3.

The conference, headed by Dr. Philip R. Lee, chancellor of the San Francisco Medical Center, was co-sponsored by the Bureau of Health Manpower Education.

One hundred participants from 10 countries took part in the discussions. They included medical educators, administrators, students, and representatives of the AAMC and the AMA.

Subjects, presented in formal papers, included the comparative characteristics of medical education and of medical care systems; undergraduate, postgraduate and continuing education, and disease priorities in medical education.

The role and the responsibility of the medical school and the academic health sciences center was one of the recurring questions discussed at the conference.

The view was expressed that the teaching center should expand its range to include problems that exist in a defined population group and investigate methods of health care.

Also discussed was the complex relationships between governments as underwriters of care through social security and welfare systems, the university centers, and the physician.

Participants agreed that the future would be seriously affected by such basic issues as national health priorities, national budgets, and governmental influence on medical education and practice.

The importance of educating populations in self care and health was stressed, and the possibilities of regionalizing health resources in order to meet needs were touched upon.

A fourth recurrent theme was the preparation of medical students for entering practice.

Conferences pointed out that present training in medical schools gives the student little opportunity to observe and be responsible for the continuing care of families within communities.

Suggestions to improve the preparation of students for entering medical practice included general training for future specialists and specialty training for the future family physician.

The final session of the conference was concerned with health care and medical education in underserved areas.

Conference proceedings will be published later.

Federal Officials Discuss Programs, Grant Support

Representatives from the Bureau of Health Manpower Education, the National Library of Medicine, and the Office of the Director, NIH, recently consulted with members of the Association of American Medical Colleges during the AAMC meeting held at the Washington Hilton Hotel.

The Government officials met with medical school officials and faculty members at the Federal Consultation Center.

The Center was established by BHME as a place for Federal officials to meet with AAMC members to discuss programs, and policies and developments in legislation and grant support.

Besides NIH, officials from other HEW agencies, and other Federal Departments, including the Department of Labor and the Veterans Administration, also held meetings with AAMC members.

Kidney Disease Booklet Published by NIAMD

Dr. Kent L. Angerbauer has been named chief, Manpower Studies Branch, Division of Dental Health, BHME. Formerly, he was with the Division's Education Development Branch.

Dr. Angerbauer received his D.D.S. from Loyola University Dental School and an M.P.H. from the University of Minnesota.

Diseases of the kidney and how they are treated are the subject of a new publication, "Kidney Disease and Artificial Kidneys," published by the National Institute of Arthritis and Metabolic Diseases.

Describing in simple terms the kidneys, how they function, and the diseases which affect them, the booklet includes general information on symptoms and danger signals which should be followed up.

The booklet is designed to answer questions most often asked by the public about kidney disease.

In addition, it describes the two recently developed methods for treating irreversible kidney failure—dialysis (use of artificial kidneys) and transplantation.

It also discusses the up-to-date principles involved in management of patients with renal failure.

CINE Golden Eagle Award Given to Two NIH Films

Two NIH films were each presented with the CINE Golden Eagle Award by the Council on International Nontheatrical Events, on Thursday, Nov. 11, at the Fourteenth Annual Awards Presentation ceremonies in the Mayflower Hotel.

Ruth Dudley accepted the award for the film, "Earlier Recognition of Learning Disabilities." Mrs. Dudley, the film's project officer, is the information officer for the National Institute of Neurological Diseases and Stroke.

Hugh Jackson, chief, Features Branch, Office of Information, OD, accepted the award for "To Seek . . . To Teach . . . To Heal!"

That film was also presented with an international award—the Gold Medal—given by the First International Festival of Medical Films which was held in Marburg, West Germany. Also, the film won special prizes for best editing and directing.

Mr. Jackson accepted the international prize for NIH at a banquet attended by foreign diplomats on Nov. 12. The film has been nominated for competition in other international film festivals.

Both films may be borrowed at no charge.

"Early Recognition . . ." is available from the National Medical Audiovisual Center (Annex), Station X, Atlanta, Ga., 30324. Prints may be purchased for $99.50 each from the National Audiovisual Center, National Archives and Records Service, Washington, D.C.

"To Seek . . ." may be borrowed from Association-Sterling Films, 866 Third Ave., New York, N.Y. 10022. Prints may be purchased at $148 each from the National Audiovisual Center.
Children to Be Examined for Hereditary Factors in Assessing Coronary Disease

Children of parents who have participated over the past 20 years in the National Heart, Lung and Blood Institute’s Framingham Heart Study and who have been invited to take part in the Framingham Offspring Study sponsored by NHLI’s Epidemiology Branch.

Research may determine to what extent factors known to increase susceptibility to atherosclerosis and coronary heart disease tend to cluster in families.

The importance of hereditary factors in the development and clinical signs of cardiovascular disease will also be assessed.

**800 Families Selected**

Among the 5,209 persons originally entered in the study, there were 1,644 families in which both husband and wife participated. A random sample of 800 of these families has been selected for the Offspring Study.

The children will be examined at approximately the same ages that their parents were when first examined 22 years ago.

According to other investigations it has been possible to make direct comparisons of such factors as blood cholesterol of parents and their children at similar ages.

Those enrolling in the Framingham Offspring Study will receive a cardiovascular examination similar to that to which their parents have undergone every 2 years as participants in the Framingham Study.

**Dr. Feinleib Project Officer**

Dr. William C. Kannel, Framingham Heart Study Director, will direct the examinations of the children. The Framingham Union Hospital will provide laboratory services under a contract with NHLI. Dr. Manning Feinleib, chief of the Epidemiology Branch, is project officer.

Information on the children will be compared with the extensive data compiled on their parents.

**Major risk factors** in coronary heart disease, aside from age and sex, include elevated blood levels of cholesterol and other fatty substances; elevated blood pressure, elevated blood uric acid levels and certain metabolic disorders, notably diabetes.

Results from the Framingham Study indicate that individuals with various combinations of these and other “risk factors” may run up to a 30-fold increased risk from coronary attacks compared to persons with none.

Certain of these risk factors are known to “run in families,” for example, diabetes and certain blood-lipid disorders. There is also evidence for a hereditary component in high blood pressure and in elevated blood uric acid levels.

Little is known about the role of heredity in other risk factors.
4 Soviet Cardiologists Visit NHLI Facilities

Four Soviet cardiologists recently visited the National Heart and Lung Institute under the auspices of the USSR-USA Scientific Exchange Agreement.

The visitors were: Prof. E. Chazov, Deputy Minister of Health, Academician, Academy of Medical Sciences, and Prof. P. E. Lukomskaia, head, Department of Hospital Therapy, Second Moscow Medical School, Academician, AMS.

Also, Prof. L. A. Myasnikov, Senior Scientific Investigator, Director of the Clinical Division, Deputy Director, Institute of Cardiology, AMS, and Dr. U. S. Petrosyan, Senior Scientific Investigator, Director, Division of Intracardiac Research Methods, Institute of Cardiovascular Surgery, AMS.

They met with Dr. Theodore Cooper, NHLI Director, and toured the Institute's laboratories and clinical facilities.

Information and ideas were exchanged with NHLI staff members conducting studies in clinical cardiology, coronary heart disease, and cardiovascular surgery.

UV Analyzer Selected By Industrial Research As One of Top 100

An operator removes data from the UV Analyzer which may be used in future mass screening to detect early stages of diseases.

The UV Analyzer, an automated device for clinical analysis of body fluids, has been selected as one of the 100 most significant new technical products of 1970 in a competition sponsored by Industrial Research, Inc.

The analyzer was developed at the Oak Ridge National Laboratory, with support from the National Institute of General Medical Sciences in cooperation with the Atomic Energy Commission.

Performs Routine Analysis

It is the first automated system capable of routine analysis of hundreds of the molecular constituents in physiologic fluids and other aqueous mixtures.

Since most diseases are believed to be caused at the molecular level, such analyses will be important to biomedical scientists in defining the causes.

The system has separated over 180 molecular constituents in human urine—70 have been identified.

Later, "norms" may be established and tests devised to allow physicians to accurately diagnose related patient disorders.

The UV Analyzer is also effective as a monitor of drug levels in the body and as an instrument to determine drug dosages.

Seven prototype systems have been built and are being used in research and clinical laboratories for in-depth analyses of fluids.

The principal developers of the analyzer at Oak Ridge were Charles D. Scott, section chief, Molecular Anatomy Program, and Norman G. Anderson, MAN Program director.

A doctor who was visiting a hospital in Las Vegas saw a patient's chart with three lemons on it.—Medical World News

BCG Vaccination Discussed At Tuberculosis Conference

The incidence of tuberculosis remains high in certain high risk population groups in this country even though TB rates have continuously dropped since the turn of the century.

The effect that BCG vaccination of these groups might have on the epidemiology of TB was discussed at a conference on Immunization in Tuberculosis held at Stone House, Oct. 26-28.

Other subjects considered were: mechanisms involved in the stimulation of cellular immunity and delayed hypersensitivity and the role of humoral antibody.

Also, mycobacterial vaccines and the characteristics which determine their effectiveness, and tuberculosis as reflected by its natural history in man and its epidemiology in the U.S.

Surg. Gen. Jesse L. Steinfeld served as general chairman of the conference, which was sponsored by the Fogarty International Center with technical assistance provided by the National Institute of Allergy and Infectious Diseases.

CANCER PLANNING

(Continued from Page 1)

Drs. Leon O. Jacobson, University of Chicago, and C. Chester Stock, Sloan-Kettering Institute for Cancer Research, will talk on Research.

Reporting on Service will be Dr. Gerald Murphy, Roswell Park Memorial Institute, and Dr. Clifton K. Meador, University of Alabama.

The Administrative and Fiscal View will be covered by Dr. R. Lee Clark, M.D. Anderson Hospital and Tumor Institute, and Dr. J. Lowell Orbison, University of Rochester.

Moderators Listed

The staff of NCI's Extramural Activities will serve as moderators at workshops on the topics under discussion. They are:

Dr. Margaret H. Edwards, acting chief, Special Programs Branch; Dr. William G. Hammond, acting chief, Clinical Investigations Branch; Dr. Samuel Price, health scientist administrator, and Dr. William L. Roberson, program director for Clinical Research Centers.

On Dec. 10, Dr. J. Palmer Saunders, associate director for Extramural Activities, will discuss the Role of the National Center Institute in the Development of Cancer Centers. Five workshops will be held. They are:

Current National Cancer Institute Center Programs, The Role of the Cancer Center in Training, and Geographic Studies Branch; Dr. William A. Walter, Jr., deputy associate director, and Dr. George E. Jay, program director. Other leading scientists will act as moderators.

The proceedings of the conference will be published in the journal, Cancer.
Workshop on Psoriasis Stresses Research Aims

A workshop—Cell Controls in Psoriasis—sponsored by the National Institute of Arthritis and Metabolic Diseases, was recently held at NIH. About 100 scientists and physicians from different fields attended the meeting.

This is the second psoriasis workshop held since November 1970 and it reflects the accelerated pace in psoriasis research.

Psoriasis Afflicts Millions

Psoriasis, a common skin disorder whose cause is unknown, is marked by rapid proliferation and scaling of epidermal cells. It affects between 2 and 8 million Americans.

One recent survey pointed out that the annual cost of medical care for 4 million psoriasis patients may total $960,000,000.

Dr. G. Donald Whedon, NIAMD Director, addressed the opening session and emphasized the workshop's goals.

He called the workshop "a significant and valuable part of an intensifying effort by this Institute and its grant-supported scientists to learn more and to do more about this serious and important disease."

Groundwork Provided

He further added that it would "provide the groundwork for future research."

Dr. Whedon read the prepared remarks of the Congressman from Oregon, Wendell Wyatt, who was to address the session, but was prevented from an important House vote.

Mr. Wyatt lauded the group "whose time, energy, and creative imagination have brought this workshop into being . . . ."

Dr. Whedon also welcomed Beverly Foster, director of the National Psoriasis Foundation, a voluntary organization with headquarters in Portland, Oreg.

"With her cooperation, more effective public education and additional research support has been possible," he said.

The workshop focused on factors affecting cell replication and function.

Special attention was directed to factors influencing epidermal mitosis, connective tissue and capillary overgrowth, and the role of cyclic AMP in the psoriatic lesion.

Dr. Laurence H. Miller, Dermatology Program director, Extramural Programs, NIAMD, planned and organized the workshop.

Other program chairmen included Dr. Eugene J. Van Scott, formerly of the National Cancer Institute and now at Temple University School of Medicine.

Publication of the proceedings is planned for a later date.

Diabetes Mellitus Induced in Monkeys; Cardiovascular Changes to Be Studied

Scientists at the Oregon Regional Institute of Arthritis and Metabolic Diseases, have recently been able to study diabetes mellitus in monkeys. Out of some 400 monkeys, all of whom are descendants of a wild pig-tailed macaque, two were found to be free from any side effects except self-induced diabetes—100 percent of all diabetics die of cardiovascular complications.

Yet, despite the prevalence of diabetes mellitus in monkeys, with this diabetic model—apparantly—diabetes and its close association with arteriosclerosis and heart disease, most of the experimental research with human models yields only fragmentary and post facto information.

Some researchers have attempted to work with nonhuman models, but existing methods of inducing diabetes in animals resulted in models with many side effects unrelated to diabetes itself.

This, in turn, limited the studies to short-term work concentrating almost exclusively on the metabolic effects of insulin.

Disease Complications Studied

The NIH-supported study was designed to develop a nonhuman primate model which could be used in long-term studies of the cardiovascular changes and complications associated with diabetes.

Previously, scientists induced diabetes in animals through surgery or with chemicals. However, Dr. Howard explains that for this investigation, he ruled out removal of the pancreas—the organ that produces insulin—since this operation usually produced serious side effects.

In monkeys, the pancreas adheres to the surrounding intestines and unless completely removed, pancreatitis and, eventually, death result.

Dr. Howard also ruled out the use of alloxan—the commonly used diabetes-inducing drug—because the concentrations of the drug needed to produce diabetes would prove toxic to the kidneys and liver.

"Since a major condition of the whole study was to keep the monkeys alive over a period of years to allow the full manifestation of the diabetic syndrome," Dr. Howard noted, "Any concomitant abnormalities in other tissues would obscure the already complicated interrelationships in the effects of the diabetes on the animal."

Recent testing of streptozotocin in animals revealed that this drug produced a diabetic-like state.

Based on this work, the investigators found it reasonable to assume that they could induce diabetes by administering streptozotocin directly into the pancreas.

Additionally, pancreatic injection might clearly define the exact amount of the drug needed to produce the desired effect.

In this experiment, the Oregon researchers used pig-tailed macaques extensively. Seven monkeys received streptozotocin and one monkey acted as a control.

The two monkeys receiving lower concentrations of the drug showed only transient signs of diabetes.

The other five monkeys who received higher concentrations, however, became overtly diabetic.

The disease, similar to all human juvenile diabetes and to some maturity-onset diabetes, appeared free of the side effects that often occurred after other surgical and chemical procedures.

Dr. Howard discussed the development of this diabetic model in a recent issue of Primate News, the Oregon Center publication.

Congressman Wyatt (second from right) attended the evening social function and was briefed on proceedings by Dr. Whedon (right); Mrs. Foster, and Dr. Miller.