

UNCLASSIFIED

AD NUMBER
AD202550
NEW LIMITATION CHANGE
TO Approved for public release, distribution unlimited
FROM Distribution authorized to U.S. Gov't. agencies and their contractors; Specific authority; 1 Mar 58. Other requests shall be referred to Department of the Army, Armed Forces Special Weapons Project, Washington, DC
AUTHORITY
DoD RECC, ltr 30 Jun 2000, Alexandria, VA

THIS PAGE IS UNCLASSIFIED

UNCLASSIFIED

A 202550

Armed Services Technical Information Agency

ARLINGTON HALL STATION
ARLINGTON 12 VIRGINIA

FOR
MICRO-CARD
CONTROL ONLY

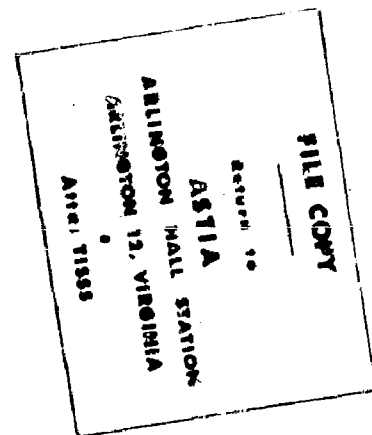
1 OF 1

NOTICE: WHEN GOVERNMENT OR OTHER DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE U. S. GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

UNCLASSIFIED

AD No. 2-02 6-5-58
ASTIA FILE COPY

QUARTERLY REPORT
TO THE
DEPARTMENT OF THE ARMY
ARMED FORCES SPECIAL WEAPONS PROJECT
Contract No. DA-49-007-MD-910



STUDY OF THE POST-IRRADIATION SYNDROME IN HUMANS

Period Covered by Report: November 1, 1957 - January 31, 1958

Date of Report : March 1, 1958

Investigator: James J. Nickson, M.D., Head, Section of Experimental Radiation, Division of Experimental Pathology, Member, Sloan-Kettering Institute; Chief, Department of Radiation Therapy, Memorial Center

Address : Sloan-Kettering Institute for Cancer Research
410 East 68th Street, New York 21, New York

Supported by: Research and Development Division
Office of the Surgeon General
Department of the Army
Washington 25, D. C.

Not for publication or publication reference
without approval of author and Chief, Research
and Development Division, Office of the Surgeon
General, Department of the Army, Washington 25, D. C.

FC
AC

BEST

AVAILABLE

COPY

Abstract

1. Preparing Institution: Sloan-Kettering Institute for Cancer Research
410 East 68th Street, New York 21, New York
2. Title of Report : STUDY OF THE POST-IRRADIATION SYNDROME IN
HUMANS
3. Principal Investigator: James J. Nickson, M.D., Head, Section of
Experimental Radiation, Division of Experimental
Pathology; Member, Sloan-Kettering Institute;
Chief, Department of Radiation Therapy,
Memorial Center
4. Number of Pages, : Five pages, two illustrations
Illustrations
5. Contract Number : DA-49-007-MD-910
6. Supported by : Research and Development Division
Office of the Surgeon General
Department of the Army
Washington 25, D. C.

During the period of the report, two patients with disseminated cancer but considered to be in good medical condition received total body radiation. Both patients were followed and the post irradiation syndrome carefully scrutinized.

In the case of the first patient for whom this was the second course of radiation, there was no appreciable change in the platelet count during three months subsequent to her irradiation. The patient is currently being followed at monthly intervals.

The second patient showed hematologic depression following irradiation and developed bleeding diathesis on the third week post irradiation. Protamine sulphate was given to the patient on the 26th post irradiation day to alleviate this condition but in spite of this unfortunately the patient expired on the 32nd day post irradiation having developed acute pulmonary edema.

Work is continuing on the study of cell membrane activity following total body irradiation.

Urinary excretion patterns following total body irradiation is also being checked as an index of radiation exposure.

Distribution of Abstract

Commanding Officer
Army Medical Research Laboratory
Fort Knox, Kentucky
ATTN: MEDRA-XD

Dr. Milton A. Lesler
Ohio State University
Research Foundation
Columbus, Ohio

Office of Naval Research
Department of the Navy
Washington 25, D. C.
ATTN: Code 454

Dr. James J. Mickson
Alton-Kettering Institute for
Cancer Research
410 East 68th Street
New York 21, New York

Commander
Air Research and Development Command
P. O. Box 1395
Baltimore 3, Maryland
ATTN: Surgeon

Dr. Lloyd J. Roth
University of Chicago
Chicago, Illinois

Commanding Officer
Army Environmental Health Laboratory
Building 1235
Army Chemical Center, Maryland

Dr. C. F. Comar
Cornell University
Ithaca, New York

Director
Walter Reed Army Institute of Research
Walter Reed Army Medical Center
Washington 12, D. C.
ATTN: Biophysics Department

Dr. W. P. Dyke
Director
Lanfield Research Institute
McMinnville, Oregon

E. H. Smith and Company
Silver Spring
Maryland

Director
Preventive Medicine Division
Bureau of Medicine and Surgery
Department of the Navy
Washington 25, D. C.

Commandant
Sas, USAF
Randolph Air Force Base, Texas
ATTN: Department of Radiobiology

Dr. Vincent P. Collins
Baylor University
College of Medicine
Houston, Texas

Dr. John E. Hampton, Jr.
Department of Physiology
Tulane University School of Medicine
P. O. Station 20 New Orleans 18, Louisiana



Department of Defense
Radiation Experiments Command Center
6801 Telegraph Road
Alexandria, Virginia 22310-3398

JUN 30 2000

Defense Technical Information Center
Attn: DTIC-OCQ
8725 Kingman Road, Suite 0944
Fort Belvoir, Virginia 22060-6218

Dear Sir:

The Department of Defense (DoD) Radiation Experiments Command Center (RECC) was established in response to the direction of the 7 January 1994 Secretary of Defense memorandum to compile, review, catalog, and retain documents and information pertaining human subject experiments involving ionizing radiation. DoD RECC made documents and information available to the public after proper reviews for classifications, personal privacy, or other release restrictions. The RECC is the approving authority for the release of documents and information once the redacted material has been extracted.

The documents in the following list have been reviewed and are now approved for release to the public, i.e. DoD Distribution Statement A:

AD 161955: A Study of the Effects of Total and Partial Body Radiation on Iron Metabolism and Hematopoiesis

AD 202550: Study of the Post-Irradiation Syndrome in Humans

AD 332449: Preparation of O-Alkyl Alkylphosphonoazidothioates of the Type MEP (S) or N3

AD B969511: Preparation of 4-Benzylpyridine

AD 114826: Preparation of V Agents in Aqueous Medium

AD 521703: RW Decontamination and Land Reclamation Studies

AD 596085: Static Test of Full-Diameter Sectional Munitions, E83, DPG RW 1-53

AD 521702: Dynamic Test of Spherical Radiological Munitions

AD 521701: Static Test of Four Segments of Full-Diameter Sectional Munitions, E83

This information is provided to you so that you can update your records. If you have any questions, please call me at (703) 325-2407.

Sincerely,

A handwritten signature in cursive script, reading "D. M. Schaeffer", is written over a horizontal line.

D. M. Schaeffer
Program Manager
Radiation Experiments Command Center