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DoD RECC, ltr 30 Jun 2000, Alexandria, VA

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QUARTERLY REPORT
TO THE
DEPARTMENT OF THE ARMY
ARMED FORCES SPECIAL WEAPONS PROJECT
Contract No. DA-49-007-1D-910

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RETURN TO
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ATTN: TISS

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.

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Abstract

1. Preparing Institution: Sloan-Kettering Institute for Cancer Research
410 East 60th 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,
Illustrations : Five pages, two 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

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JUN 30 2000

Defense Technical Information Center
Attn: DTIC-OCQ
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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 black ink, appearing to read "D. M. Schaeffer".

D. M. Schaeffer
Program Manager
Radiation Experiments Command Center