

Project Name: Therapeutic Application of High Energy
Sources; Potentiation of Radiation Effects with
Modifiers

Date Started:
Date Terminated:

Institution: Argonne Cancer Research Hospital
Funding Source(s): AEC

Identification: AT(11-1)69
Project Duration:
Principal Investigator(s): M.L. Griem

704203

Responsible Government Official(s): *John R. Tottow, Ph.D.; James L. Luerman, Ph.D.*

Objective(s) of Project: To compare the relative efficiency of supervoltage radiations (x-ray, cobalt-60 gamma rays, electrons and fast neutrons) in the treatment of cancer; and to explore the use of drugs as agents to increase the lethal effects of radiation on tumors.

Short Description: Hodgkin's disease and other lymphomas are being treated by a combination of laparotomy to improve staging and diagnosis, and carefully planned radiation to indicated organs of involvement. A number of malignancies are being treated with ultrahigh dose rate electrons to study the effects of this radiation. Chromium-51 radioactive permanent implants are also being evaluated. Head and neck malignancies are being subjected to combined treatment schedules, including drug pre-treatment and split-course radiation. The sensitizing qualities of hydroxyurea and cytosine arabinoside are being tested on a hair follicle indicating system before being tested on animal tumors and patients.

Follow-up Data:

References: N.S.A. 02:1365 (1972)
N.S.A. 01:1614 (1968)
N.S.A. 01:1615 (1968)
N.S.A. 80C0051566 (1979)

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