

The effects on the blood cells of animals and man from exposure to single doses of whole-body radiation delivered over a short period of time (<24 hr) have been studied extensively. Observations of effects in man have been made on Japanese atomic-bomb victims [Liebow *et al.*, 1949; LeRoy, 1950]; the Marshallese natives exposed to fallout radiation [Cronkite *et al.*, 1955; Conard and Hicking, 1965]; reactor and criticality accident cases [Hempelmann *et al.*, 1952; Guskova and Baisogolov, 1956; Hasterlik and Marinelli, 1956; Brucer, 1959; Jammet *et al.*, 1959; Thoma and Wald, 1959; Bond *et al.*, 1960; Shipman *et al.*, 1961]; therapeutically irradiated cancer patients [Miller *et al.*, 1958]; and patients exposed for other medical reasons [Tubiana *et al.*, 1961; Hamburger *et al.*, 1962; Kuss *et al.*, 1962; Wald *et al.*, 1962]. The majority of these studies have consisted of observations of effects on the number of formed elements in the peripheral blood (hematological effects) as an index of severity of exposure. In recent years such studies have been extended to effects on the bone marrow directly and to production of chromosomal aberrations in somatic cells, usually by means of cell-culturing methods.

NATURE OF HEMATOLOGICAL SYNDROME

Hematological responses to radiation are largely dependent on damage to the bone marrow. The blood-forming marrow is encased in bone, the amount varying from one bone to the other; the ribs, vertebral column, and pelvic bones contain the greatest amount. The role of the lymphatic tissues (outside the bone marrow), which furnish lymphocytes to the blood, is not well understood, but lymphocytes are not considered as important to survival as are the bone-marrow cells. The degree of radiation damage to the bone marrow is reflected in peripheral blood counts. Lowering of levels of peripheral blood elements, therefore, is brought about largely by damage to the formative cells of the bone marrow and to the cells of the lymphatic tissues. Inhibition of cell division and cytological damage in the bone marrow can be seen shortly after irradiation. Heineke, as early as 1905, described destruction of bone-marrow cells following irradiation [Heineke, 1905]; since that time such changes have been well documented [Dunlap, 1942]. Fliedner *et al.* [1959] have reported such findings in the Oak Ridge Y-12 criticality accident victims. Damage to the genetic apparatus of the cells (i.e., the chromosomes) was evident with inhibition of cell

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areas namely the measurement and behaviour of natural radionuclides in the environment cosmic radiation measurement and dosimetry the external penetrating radiation field at ground level TENR Technologically Enhanced Natural Radiation and NORM Naturally Occurring Radioactive Materials studies assessment of the health effects of radon regulatory aspects of natural radiation exposures In these papers the results of many new surveys of natural radionuclide levels in the environment and of improved methods of detection are described While some of the natural radiation sources investigated are unmodified by human activity many accounts are given here of exposures to natural sources which have been enhanced by technology Such TENR and NORM exposures are shown to range from activities such as mining oil and gas exploitation the use of industrial by products as building materials to space travel to name but a few In several cases quite high doses to some individuals are shown to occur Accounts are given here of methods to prevent and reduce exposures to such sources **U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973** United States.

Environmental Protection Agency. Library Systems Branch, 1974 **Oversight, human total body irradiation (TBI) program at Oak Ridge** United States. Congress. House. Committee on Science and Technology. Subcommittee on Investigations and Oversight, 1982 Sources, Fields, Measurements, and Applications Frank H. Attix, Eugene Tochilin, 2013-10-22 Radiation Dosimetry Second Edition VOLUME III Sources Fields Measurements and Applications covers the significant aspects of radiation dosimetry The book discusses dosimetry relating to x rays and teleisotope gamma rays discrete and distributed alpha beta and gamma ray sources electron beams and heavy charged particle beams The text also describes dosimetry relating to reactors neutron and mixed n gamma fields neutrons from accelerators and radioactive sources initial and residual ionizing radiation from nuclear weapons natural and man made background radiation radiation in space ultra high energy radiation and uncommon types of particles Dosimetry relating to health physics diobiology radiotherapy implant and intracavitary therapy transition zones especially at bone tissue interfaces and radiation processing is also considered Physicists biophysicists and people involved in radiological science will find the book invaluable Space Radiation Biology and Related Topics Cornelius A. Tobias, Paul Todd, 2013-10-22 Space Radiation Biology and Related Topics provides information pertinent to the fundamental aspects of space radiation biology This book discusses space radiation hazards as well as the importance of natural radiations in the processes of biogenesis Organized into 12 chapters this book begins with an overview of the fundamental aspects of radiobiology This text then discusses the theoretical treatments of the chronic radiation response and the applicability of some of its features in extended manned space missions Other chapters review the literature on models for recovery from radiation damage to some cellular systems This book discusses as well the effects of radiations on mammals with emphasis on those effects pertinent to the space flight situation The final chapter deals with the safety of nuclear power in space and explains the three types of nuclear devices designed for power production in space This book is a valuable resource for radiologists radiobiologists and radiotherapists National Library of Medicine

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