

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

# Radiobiological Factors In Manned Space

**Mike Jess**



## **Radiobiological Factors In Manned Space:**

**Radiobiological Factors in Manned Space Flight** National Research Council (U.S.). Space Radiation Study Panel, 1967      **Radiobiological Factors in Manned Space Flight** National Research Council (U.S.). Space Radiation Study Panel, Wright Haskell Langham, 1967      **Radiobiological Factors in Manned Space Flight** Wright H. Langham, National research council. Space radiation study panel, 1967      *Radiation Hazards to Crews of Interplanetary Missions* Task Group on the Biological Effects of Space Radiation, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Division on Engineering and Physical Sciences, National Research Council, 1997-03-13

NASA's long range plans include possible human exploratory missions to the moon and Mars within the next quarter century. Such missions beyond low Earth orbit will expose crews to transient radiation from solar particle events as well as continuous high energy galactic cosmic rays ranging from energetic protons with low mean linear energy transfer LET to nuclei with high atomic numbers high energies and high LET. Because the radiation levels in space are high and the missions long adequate shielding is needed to minimize the deleterious health effects of exposure to radiation. The knowledge base needed to design shielding involves two sets of factors each with quantitative uncertainty: the radiation spectra and doses present behind different types of shielding and the effects of the doses on relevant biological systems. It is only prudent to design shielding that will protect the crew of spacecraft exposed to predicted high but uncertain levels of radiation and biological effects. Because of the uncertainties regarding the degree and type of radiation protection needed a requirement for shielding to protect against large deleterious but uncertain biological effects may be imposed which in turn could result in an unacceptable cost to a mission. It therefore is of interest to reduce these uncertainties in biological effects and shielding requirements for reasons of mission feasibility safety and cost.      *Nuclear Science Abstracts*, 1968      **Foundations of Space Biology and Medicine: Space as a habitat**, 1975      **U.S. Aeronautics and Space Activities** United States. President, 1963      Human Health and Performance Risks of Space Exploration Missions Jancy C. McPhee, John B. Charles, United States. National Aeronautics and Space Administration, 2009      **Radiation Effects and Tolerance, Normal Tissue** J. M. Vaeth, 1972-03-23      The Natural Radiation Environment VII J.P. McLaughlin, E.S. Simopoulos, F. Steinhäusler, 2005-03-30

The Natural Radiation Environment Symposium NRE VII the Seventh in the NRE series which commenced forty years ago in 1963 at Rice University Texas was held in Rhodes Greece in May 2002. During the intervening four decades the research work presented at these NRE Symposia has contributed to a deeper understanding of natural radiation and in particular of its contribution to human radiation exposures. It is clear from the quality and diversity of the 143 papers in this volume of *Radioactivity in the Environment* series that the study of the natural radiation environment is an active and continually expanding field of research. The papers in this volume fall into a number of main and topical research 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 Current Catalog National Library of Medicine (U.S.), 1965 **NASA Technical Note**, 1972

**Fundamentals of Aerospace Medicine** Jeffrey R. Davis, M.D., Robert Johnson, Jan Stepanek, 2008 Now in its Fourth Edition with a new editorial team this comprehensive text addresses all medical and public health issues involved in the care of crews passengers and support personnel of aircraft and space vehicles Coverage includes human physiology under flight conditions clinical medicine in the aerospace environment and the impact of the aviation industry on global public health This edition features new chapters on radiation toxicology and microbiology dental considerations in aerospace medicine women's health issues commercial human space flight space exploration and unique aircraft including parachuting Other highlights include significant new information on respiratory diseases cardiovascular medicine infectious disease transmission and human response to acceleration

**Military Radiobiology** James Conklin, 2012-12-02 Military Radiobiology provides an understanding of the sources and consequences of radiation exposure Military personnel must develop a working knowledge of postexposure effects in order to determine points of intervention The medical problems confronting military radiobiology include target damage which causes decrements in normal performance physiological injury and impairments of the immunological hematological system that lead to life threatening infectious complications The book begins by describing the properties of nuclear weapons including the mechanisms by which nuclear energy is stored within the nucleus its release and its conversion to those forces associated with nuclear weapons This is followed by discussions of the sources patterns radiological effects and management of nuclear fallout the biological effects of exposure to ionizing radiation released by nuclear weapons and effects of radiation on the immune system gastrointestinal physiology and cardiovascular function Subsequent chapters cover the diagnosis triage and treatment of radiation associated injuries internal contamination with radionuclides radioprotective drugs psychological reactions to nuclear confrontation and the response to a nuclear weapon accident

*Space Weather* Volker Bothmer, Ioannis A. Daglis, 2007-01-10 The editors present a state of the art overview on the Physics of Space Weather and its effects on technological and biological systems on the ground and in space It opens with a general introduction on the subject followed by a historical review on the major developments in the field of solar terrestrial relationships leading to its development into the up to date field of space weather Specific emphasis is placed on the technological effects that have impacted society in the past century at times of major solar activity Chapter 2 summarizes key milestones starting from the base of solar observations with classic telescopes up to recent space observations and new mission developments with EUV and X ray telescopes e g STEREO yielding an unprecedented view of the sun earth system Chapter 3 provides a scientific summary of the present understanding of the physics of the sun earth system based on the latest results from spacecraft designed to observe the Sun the interplanetary medium and geospace Chapter 4 describes how the plasma and magnetic field structure of the earth's magnetosphere is impacted by the variation of the solar and interplanetary conditions providing the necessary science and technology background for missions in low and near earth's orbit Chapter 5 elaborates the physics of the layer of the earth's upper atmosphere that is the cause of disruptions in radio

wave communications and GPS Global Positioning System errors which is of crucial importance for projects like Galileo In Chapters 6 10 the impacts of technology used up to now in space on earth and on life are reviewed **Advisory Committee on Human Radiation Experiments: Sources and documentation** United States. Advisory Committee on Human Radiation Experiments,1995

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