

Risks and Threshold Doses of the Main Effects of Prenatal Irradiation

Gestational Age	Stage	Potential Biologic Effect	Threshold	Risk
0–2 wk	Preimplantation /implantation	Abortion	>10 rad	
		Organ malformation	>5; >10 rad	
3–7 wk	Organogenesis	Growth retardation	>10 rad	
8–25 wk	Fetal	Growth retardation	>10 rad	
		Mental impairment	>10 rad	
Whole pregnancy		Carcinogenesis	None	6×10^{-4} per rad
		Mutagenesis	None	1×10^{-2} per rad

Modified from Fattibene P, Mazzei F, Nuccetelli C, Risica S: Prenatal exposure to ionizing radiation: Sources, effects, and regulatory aspects. Acta Paediatr 88:693, 1999.

Effects Of Prenatal Irradiation With Special Emphasis On Late Effects

Michael Brown



Effects Of Prenatal Irradiation With Special Emphasis On Late Effects:

Effects of Prenatal Irradiation with Special Emphasis on Late Effects Christian Streffer,G. Patrick,1984

Effects of Prenatal Irradiation with Special Emphasis on Late Effects. EULEP Symposium, 29 July 1982, Bordeaux (France) G. Patrick,Commission of the European Communities,European Late Effects Project Group.

Mol,Congrès. Bordeaux. 1982,1984

Genetic and Somatic Effects of Ionizing Radiation United Nations. Scientific Committee on the Effects of Atomic Radiation,1986

Advances in Radiation Biology John T. Lett,2013-10-22 Advances in Radiation Biology Volume 12 provides an overview of the state of knowledge in the field of radiation biology Environmental matters are continuing to produce surprises and remain sources of concern The safe disposal of radioactive waste still is a major problem facing the nuclear power industry A possible solution is discussed here New information about the survivors from radiation exposure at Hiroshima and Nagasaki has emphasized the consequences of brain damage in the developing embryo the importance of late radiation carcinogenesis and the roles played by age and sex in human radiation responses It also is prompting an increasing number of scientists involved in radiation protection to question the use of small animal models to quantify late radiation effects in humans Contributions to this volume deal with experimental and other aspects of those problems Finally increasing confirmation of the dose rate response for densely ionizing radiations has highlighted the hazard they pose to humans in the terrestrial and extraterrestrial environments Therefore the intention of agencies in the United States and elsewhere to generate better funded and more scientifically perspicacious programs of space radiation biology is welcome Possible interests of the military in that regard are also considered

Contemporary Issues in Modeling Psychopathology Michael S. Myslobodsky,Ina Weiner,2013-03-09 Despite considerable progress in clinical and basic neurosciences the cure of psychiatric disorders is still remote little is known about their prevention and the etiology and molecular mechanisms of mental disorders are still obscure Diagnoses are still guided by patients stories The mission of animal models is to bridge the gap between the story and the synapse Contemporary Issues in Modeling of Psychopathology attempts to do this by examining such questions as What good might come from such a model Are we wasting our time How far can we carry results from model animals such as rats and mice without causing a highly distorted view of the field and its goals This book serves as the opening volume for a new series Neurobiological Foundation of Aberrant Behaviors Journal of the National Cancer Institute ,2008

Brain, Behaviour, and Iron in the Infant Diet John Dobbing,2013-12-14 Iron deficiency in infancy is very widespread even in developed countries and even when there is no general malnutrition This book examines the question whether iron deficiency in early life leads to deleterious changes in brain and or behavioural development Each of the nine contributors comments critically on each of the other eight chapters so that the book is very extensively peer reviewed The evidence is set out so that the reader may make his own informed judgement Iron deficiency could very easily be prevented this fact is of prime importance if such deficiency has long lasting effects on human

intellectual capacity and achievement

Late Irradiation Effects Conference: Inventory of Capability, AEC

Headquarters Auditorium, Germantown, MD, December 4-6, 1963 Paul S. Henshaw, 1965

Sources and Effects of

Ionizing Radiation United Nations. Scientific Committee on the Effects of Atomic Radiation, 1993

Radiopathology of

Organs and Tissues Eberhard Scherer, Christian Streffer, Klaus-Rüdiger Trott, 2012-12-06 The biologic effects of radiation on normal tissues and tumors represent a complex area for investigation These effects are of far reaching consequence to the diagnostic radiologist and the radiation oncologist having a significant impact not only in concepts relative to radiation protection but also in concepts relative to tumor biology and its response to radiation injury The volume edited by SCHERER STREFFER and TROTT represents an extension of basic radiation biology data into the effects of radiation in producing pathology in organs and tissues The data presented by the multiple authors involved in this text cover essentially all tissues in the body with specific definition of radiopathology changes and their impact on clinical care of the patient This volume represents an important and significant contribution toward a better understanding of these effects and the pathology produced by radiations L W BRADY H P HEILMANN F HEUCK M W DONNER Philadelphia Hamburg Stuttgart Baltimore Preface This book represents an attempt to describe the clinical radiobiology of complications arising in different organs after radiotherapy of cancer patients Since by their very nature malignant tumors infiltrate the organ in which they have arisen and the neighboring tissues curative radiotherapy requires the planned irradiation of considerable amounts of healthy but potentially or microscopically involved normal tissues and organs with the full target dose This may lead to early or late normal tissue radiation injury **Pollution Abstracts** ,1984 *Relative Radiation Sensitivities of Human Organ Systems* Kurt I. Altman, John T. Lett, 2013-10-22 Advances in Radiation Biology Relative Radiation Sensitivities of Human Organ Systems Part III is the third volume of the series Relative Radiation Sensitivities of Human Organ Systems It presents reviews of organ systems not included in the preceding two parts Advances in Radiation Biology Volumes 12 and 14 The subject matter contained in the current volume is viewed through the eyes of the radiation therapist Although the presentations have strong clinical overtones an effort has been made wherever possible also to address the radiobiological bases of radiation sensitivity of organs The book contains seven chapters and begins with a study on radiation damage to the kidney This is followed by separate chapters on inherent or intrinsic radiosensitivity of human cells the impact of brachytherapy i e short distance radiation treatment using photon radiation on tumors and human tissue tolerance to fast neutron radiotherapy Subsequent chapters deal with normal tissue effects of combined hyperthermia and radiotherapy the impact of ionizing radiation on the successive stages of human development in utero and developments in theoretical knowledge and practical applications of ionizing radiations which have taken place in a little less than a century

Environment Abstracts ,1985 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U

S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters **Pesticides Documentation Bulletin** ,1965 The Effects of Radiation and Radioisotopes on the Life Processes Charles M. Pierce,U.S. Atomic Energy Commission,1963 Current Research on Cancer Etiology and Epidemiology Smithsonian Science Information Exchange. Current Cancer Research Project Analysis Center,1975 924 references to research projects being conducted in the United States and elsewhere Entries arranged under 8 topics e g Identification of high risk groups Chemical carcinogenesis and Teratogenesis Entries include title researcher address contract number summary and supporting agency Indexes by subjects investigators contractors supporting agencies and contractor numbers **Technical Books & Monographs** United States. Department of Energy, **Technical Books & Monographs** United States. Energy Research and Development Administration,1968 Age-dependent Factors in the Biokinetics and Dosimetry of Radionuclides Georg B. Gerber,D. M. Taylor,J. W. Stather,1992 *Environmental Protection Research Catalog* Smithsonian Science Information Exchange,1972

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