

Risks of Cancer (Radiation)

Radiation doses (mSv)	Relative risks of cancer*
1,000 ~ 2,000	1.8 [estimated to be 1.5 times per 1,000 mSv]
500 ~ 1,000	1.4
200 ~ 500	1.19
100 ~ 200	1.08
Less than 100	Difficult to detect

Source: Website of the National Cancer Center Japan

Risks of developing radiation-induced cancer are based on the data (solid cancers only) obtained from the analysis of instantaneous exposure due to the atomic bombing in Hiroshima and Nagasaki, and are not based on the observation of long-term exposure effects.

Relative risks indicate how many times larger the cancer risks are among people exposed to radiation when assuming the risks among non-exposed people as 1.

Radiation And Cancer Risk

Danny Wong

Radiation And Cancer Risk:

Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure United States. General Accounting Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure United States. General Office, 1980 Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure United Accounting Office, 1981 Technical Evaluation of the NASA Model for Cancer Risk to Astronauts States. General Accounting Office, 1981 Due to Space Radiation National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee for Evaluation of Space Radiation Cancer Risk Model, 2012-03-19 NASA's current missions to the International Space Station ISS and potential future exploration missions involving extended stays by astronauts on the lunar surface as well as the possibility of near Earth object NEO or Mars missions present challenges in protecting astronauts from radiation risks These risks arise from a number of sources including solar particle events SPEs galactic cosmic rays GCRs secondary radiation from surface impacts and even the nuclear isotope power sources transported with the astronauts The serious early and late radiation health effects potentially posed by these exposures are equally varied ranging from early signs of radiation sickness to cancer induction Other possible effects include central nervous system damage cataracts cardiovascular damage heritable effects impaired wound healing and infertility Recent research much of which has been sponsored by NASA has focused on understanding and quantifying the radiation health risks posed by space radiation environments Although many aspects of the space radiation environments are now relatively well characterized important uncertainties still exist regarding biological effects and thus regarding the level and types of risks faced by astronauts This report presents an evaluation of NASA's proposed space radiation cancer risk assessment model which is described in the 2011 NASA report Space Radiation Cancer Risk Projections and Uncertainties 2010 The evaluation in Technical Evaluation of the NASA Model for Cancer Risk to Astronauts Due to Space Radiation considers the model components input data for the radiation types estimated doses and epidemiology and the associated uncertainties This report also identifies gaps in NASA s current research strategy for reducing the uncertainties in cancer induction risks *Uncertainties in Fatal Cancer Risk* Estimates Used in Radiation Protection National Council on Radiation Protection and Measurements, 1997 Space Radiation Cancer Risk Projections for Exploration Missions: Uncertainty Reduction and Mitigation ,2002 NCRP Report National Council on Radiation Protection and Measurements, 1966 Health Risks from Exposure to Low Levels of Ionizing Radiation Committee to Assess Health Risks from Exposure to Low Levels of Ionizing Radiation, National Research Council, 2006-03-23 This book is the seventh in a series of titles from the National Research Council that addresses the effects of exposure to low dose LET Linear Energy Transfer ionizing radiation and human health Updating information previously presented in the 1990 publication Health Effects of Exposure to Low Levels of Ionizing Radiation BEIR V this book draws upon new data in both epidemiologic and experimental research Ionizing radiation arises from both natural and man

made sources and at very high doses can produce damaging effects in human tissue that can be evident within days after exposure However it is the low dose exposures that are the focus of this book So called late effects such as cancer are produced many years after the initial exposure This book is among the first of its kind to include detailed risk estimates for cancer incidence in addition to cancer mortality BEIR VII offers a full review of the available biological biophysical and epidemiological literature since the last BEIR report on the subject and develops the most up to date and comprehensive risk estimates for cancer and other health effects from exposure to low level ionizing radiation **Analysis of Cancer Risks in** Populations Near Nuclear Facilities National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on the Analysis of Cancer Risks in Populations near Nuclear Facilitiesâ¬"Phase I,2012-06-29 In the late 1980s the National Cancer Institute initiated an investigation of cancer risks in populations near 52 commercial nuclear power plants and 10 Department of Energy nuclear facilities including research and nuclear weapons production facilities and one reprocessing plant in the United States The results of the NCI investigation were used a primary resource for communicating with the public about the cancer risks near the nuclear facilities However this study is now over 20 years old The U S Nuclear Regulatory Commission requested that the National Academy of Sciences provide an updated assessment of cancer risks in populations near USNRC licensed nuclear facilities that utilize or process uranium for the production of electricity Analysis of Cancer Risks in Populations near Nuclear Facilities Phase 1 focuses on identifying scientifically sound approaches for carrying out an assessment of cancer risks associated with living near a nuclear facility judgments about the strengths and weaknesses of various statistical power ability to assess potential confounding factors possible biases and required effort The results from this Phase 1 study will be used to inform the design of cancer risk assessment which will be carried out in Phase 2 This report is beneficial for the general public communities near nuclear facilities stakeholders healthcare providers policy makers state and local officials community leaders and the media Estimating uncertainties in radiogenic cancer risk review of the Office of Radiation and Indoor Air's draft document Estimating radiogenic cancer risks draft addendum, uncertainty analysis, by the Radiation Advisory Committee., 1999 Reduce Your Cancer Risk Barbara Boughton, Michael Stefanek, 2010-03-01 Develop your anticancer strategy Knowledge is power Knowing your cancer risk is your best weapon against cancer Co published with the American Cancer Society Reduce Your Cancer Risk Twelve Steps to a Healthier Life will help you assess your risk based on your family history genetics and environment and help you make a comprehensive action plan to lower your chances of getting cancer With an anticancer strategy in place you ll help to protect yourself against cancer and live a healthier happier life Reduce Your Cancer Risk includes the most up to date information on Personal risk assessment Lifestyle changes Preventive health strategies Genetic counseling Preventive anti cancer medications Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure United States. General Accounting Office, 1981 Reducing Environmental Cancer Risk Suzanne H. Reuben, 2010-10 Though overall cancer

incidence and mortality have continued to decline in recent years cancer continues to devastate the lives of far too many Americans In 2009 alone 1 5 million American men women and children were diagnosed with cancer and 562 000 died from the disease There is a growing body of evidence linking environmental exposures to cancer The Pres Cancer Panel dedicated its 2008 2009 activities to examining the impact of environmental factors on cancer risk The Panel considered industrial occupational and agricultural exposures as well as exposures related to medical practice military activities modern lifestyles and natural sources This report presents the Panel's recommend to mitigate or eliminate these barriers Illus Carcinogenesis Arthur C. Upton, 1986 This book provides the first comprehensive and systematic survey of present knowledge about radiation carcinogenesis World experts review in detail current information on such topics as the incidence of various forms of cancer in irradiated populations the carcinogenic effects of ionizing radiation in laboratory animals theoretical mechanisms of radiation carcinogenesis and the implications of the data for assessing the risks of human cancer In view of recent controversy about the carcinogenic hazards of low level exposure to radiation and other carcinogens this book is a timely contribution toward our understanding of the carcinogenic risks of low level radiation **Assessment** Peter G. Shields, 2005-05-24 The assessment of cancer risk is a complex process that requires the examination of etiological agents real world environments and individual rates of exposure This reference offers practical approaches to determine cancer risk in individuals groups of exposed persons and the general public in relation to individual genetic and Liver Cancer Risk from Internally-deposited Radionuclides National Council on Radiation Protection and acquired suscep Measurements.2001 Assessment of Technologies for Determining Cancer Risks from the Environment United States. Congress. Office of Technology Assessment, 1981 **Assessment of Technologies for Determining Cancer Risks from** the Environment ,1981 DeVita, Hellman, and Rosenberg's Cancer Vincent T. DeVita, Theodore S. Lawrence, Steven A. Rosenberg, 2008 Presenting comprehensive cutting edge information on the science of oncology and the multimodality treatment of every cancer type this eighth edition now in full color contains more than 40 brand new chapters and more than 70 chapters have been rewritten by new contributing authors Cancer Risks from Radiation Medical Imaging in Children Danny Wong, 2018 Background radiation medical imaging is a valuable tool in detecting diseases Biological Effects of Ionizing Radiation Report BEIR VII Phase 2 suggested that radiation exposures even at low dosages may impose stochastic cancer risks However radiation medical imaging has yet been fully understood further studies on this subject are much needed Over several decades there have been much research dedicated to studying the impact of low dose diagnostic imaging on health particularly in the children population Purpose This scoping review is to gather existing literature on the cancer risks associated with radiation medical imaging in children and to identify gaps in the literature for future studies on this topic Methods Scopus and PubMed databases were selected for the literature search and the scoping review methodology was applied in this research Results The study has spanned over three thousand articles N 3 191 and by

applying the exclusion and inclusion criteria twelve 12 articles have been chosen for this research The research data suggested that exposure to a dental X rays may be linked with thyroid cancer due to limited research that had been conducted more studies are needed to provide clearer understanding of the health impacts b X rays may not have any association with cancer again more research is required on this subject c computed tomography scans may be linked to various cancers including thyroid leukemia solid cancer and cancer mortality and d angiography based on mathematical cancer risk model seems to suggest there are possible cancer risk Today there have been no studies performed on patient level Conclusion The research indicates that there are potential cancer risks associated with dental x ray angiography mathematical model and CT scans however due to limited research that has been performed up to this point further studies are required on cancer risks from radiation medical imaging in children

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Radiation And Cancer Risk Introduction

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