

# 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

**S Nieto**



## **Radiation And Cancer Risk:**

**Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure** United States. General Accounting Office,1980      Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure United States. General Accounting Office,1981      *Problems in Assessing the Cancer Risks of Low-level Ionizing Radiation Exposure* United States. General Accounting Office,1981      **Technical Evaluation of the NASA Model for Cancer Risk to Astronauts 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      **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      **Cancer Risk 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 acquired suscep 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 Uncertainties in Fatal Cancer Risk Estimates Used in Radiation Protection National Council on Radiation Protection and Measurements,1997 **Assessment of Technologies for Determining Cancer Risks from the Environment** United States. Congress. Office of Technology Assessment,1981 **Extrapolation of Radiation-induced Cancer Risks from Nonhuman Experimental Systems to Humans** National Council on Radiation Protection and Measurements,2005 Assessment of Technologies for Determining Cancer Risks from the Environment ,1981 **Space Radiation Cancer Risk Projections for Exploration Missions: Uncertainty Reduction and Mitigation** ,2002

*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 Risk Evaluation* Günter Obe,Gary E. Marchant,Burkhard Jandrig,Holger Schütz,Peter M. Wiedemann,2011-04-27 An overview of the different approaches to cancer risk assessment of environmental factors including omics technologies discussing the strengths and weaknesses of the methods in different fields The main focus is on the carcinogenic effects of ionizing and non ionizing radiation demonstrating the difficulties in accurately assessing those factors that may or may not pose a significant cancer risk The book extends the view to a broader context of risk assessment highlighting various aspects of risk management Written by leading experts in the field this is a resource for policy makers and professionals in health risk assessment and public health workers as well as oncologists and researchers in academia This title is also available as a mobile App from MedHand Mobile Libraries Buy it now from Google Play or the MedHand Store Cancer Imaging M. A. Hayat,2007-11-21 This second of two volumes on Cancer Imaging covers the three major topics of imaging instrumentation general imaging applications and imaging of a number of human cancer types Where the first volume emphasized lung and breast carcinomas Volume 2 focuses on prostate colorectal ovarian gastrointestinal and bone cancers Although cancer therapy is not the main subject of this series the crucial role of imaging in selecting the type of therapy and its post treatment assessment are discussed The major emphasis in this volume is on cancer imaging however

differentiation between benign tumors and malignant tumors is also discussed This volume is sold individually and Cancer Imaging Volume 1 ISBN 978 0 12 370468 9 sells separately for 189 and also as part of a two volume set ISBN 978 0 12 374212 4 for 299 Concentrates on the application of imaging technology to the diagnosis and prognosis of prostate colorectal ovarian gastrointestinal and bone cancers Addresses relationship between radiation dose and image quality Discusses the role of molecular imaging in identifying changes for the emergence and progression of cancer at the cellular and or molecular levels      **Cancer Nursing** Connie Henke Yarbro,Michelle Goodman,Margaret Hansen Frogge,2005 Rapid changes in oncology necessitate a comprehensive up to date reference for oncology nurses For seventeen years best selling Cancer Nursing Principles and Practice has filled this need supplying oncology nurses with cutting edge current information Now in its Sixth Edition Cancer Nursing reflects the constantly shifting progress in the science of oncology as well as emerging new therapies new treatment modalities the latest results from clinical trials updates on new chemotherapeutic agents and targeted therapies and new perspectives on supportive care      Journal of the National Cancer Institute ,2003

**Cancer Sourcebook, 9th Ed.** James Chambers,2021-10-01 Consumer health information about risks prevention and treatment of major forms of cancer Includes index glossary of related terms and other resources      **Cancer and the Heart** Michael S. Ewer,Edward Yeh,2006 Accompanying CD ROM contains complete text in searchable PDF format P 4 of cover

*Cancer in Children and Adolescents* William L. Carroll,Jonathan L. Finlay,2010-10-22 Over the last six decades there has been tremendous improvement in the survival rate for the majority of children affected by cancer in the United States and in Western Europe Despite dramatic advances in the developed world 85% of children diagnosed with cancer globally will not survive this disease *Cancer in Children and Adolescents* is an accessible textbook that covers the complexities and interdisciplinary nature of cancer occurrences and provides the fundamentals of diagnosis and management of cancers that affect children and adolescents Distinguished for its global focus many chapters in *Cancer in Children and Adolescents* are co authored by recognized specialists from around the world *Cancer in Children and Adolescents* is divided into four major sections Section 1 The Laboratory Biology and Diagnostic Evaluation of Childhood Cancer Section 2 Principles of Cancer Therapy in Children Section 3 Tumors of Children Section 4 Supportive Care

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