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-- Question 2. Sample Size -- Question 3. Dose -- Question 4. Identification of Adverse Reproductive Outcomes -- ALTERNATIVE APPROACHES -- 1 Introduction -- AIMS OF THIS REPORT -- 2 Basic Epidemiologic Issues -- 3 Feasibility and Design of an Epidemiologic Study -- STUDY COHORT -- MEASUREMENT OF EXPOSURE -- DEFINING THE DISEASE AND ASCERTAINING THE CASES -- 4 Basic Principles of Radiation Biology -- BIOLOGICAL EFFECTS -- SOURCES OF RADIATION EXPOSURE -- POTENTIALLY SENSITIVE SUBGROUPS -- 5 Genetic Principles and Issues -- 6 Current Knowledge and Estimation of Genetic Risk -- BASIC ESTIMATION EQUATION -- DATA FROM WHICH RISK ESTIMATES HAVE BEEN MADE -- Mice -- Humans -- Estimating the Spontaneous Burden -- Estimating the Effect of Ionizing Radiation -- ESTIMATING THE DOUBLING DOSE -- Mice -- Humans -- 7 Adverse Reproductive Outcomes -- GENERAL REMARKS -- MALE-MEDIATED REPRODUCTIVE AND DEVELOPMENTAL OUTCOMES -- INFERTILITY -- Radionuclide Irradiation -- SPONTANEOUS ABORTIONS -- PRETERM DELIVERY -- STILLBIRTHS AND NEONATAL DEATHS (PERINATAL DEATHS) -- BIRTH DEFECTS -- Human Chromosome Abnormalities -- Developmental Abnormalities -- MATERNAL ILLNESSES -- ALTERED SEX RATIO -- MORTALITY AMONG THE CHILDREN OF EXPOSED PARENTS -- CANCER AND LEUKEMIA IN PARTICULAR -- IMMUNE DEFICIENCY -- NEUROLOGIC DEFICIT, INCLUDING MENTAL RETARDATION -- 8 Feasibility of the Study of Adverse Reproductive Outcomes in the Families of Veterans Exposed Ionizing Radiation. DEFINITION OF A SUITABLE SAMPLE OR COHORT -- SIZE OF THE SAMPLE OR COHORT REQUIRED -- Question 1 -- Question 2 -- DOSIMETRY OF ATOMIC VETERANS -- IDENTIFICATION OF ADVERSE REPRODUCTIVE OUTCOMES -- 9 Alternative Approaches -- 10 Conclusions -- Glossary -- References.

Sommario/riassunto

Over the past several decades, public concern over exposure to ionizing radiation has increased. This concern has manifested itself in different ways depending on the perception of risk to different individuals and different groups and the circumstances of their exposure. One such group are those U.S. servicemen (the "Atomic Veterans" who participated in the atmospheric testing of nuclear weapons at the Nevada Test Site or in the Pacific Proving Grounds, who served with occupation forces in or near Hiroshima and Nagasaki, or who were prisoners of war in or near those cities at the time of, or shortly after, the atomic bombings. This book addresses the feasibility of conducting an epidemiologic study to determine if there is an increased risk of adverse reproductive outcomes in the spouses, children, and grandchildren of the Atomic Veterans.
