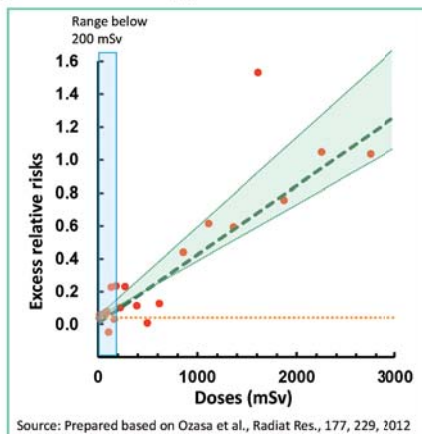




Deaths from solid cancer (results among atomic bomb survivors)



Excess relative risks: How cancer risks have increased among a group of people exposed to radiation compared with a group of non-exposed people

Health effects surveys targeting atomic bomb survivors have revealed that cancer risks increase as exposure doses increase. The latest epidemiological survey on solid cancer risks shows proportionate relationships between doses and risks, i.e., between exposure doses exceeding 100 mSv and the risk of developing solid cancer¹ and between exposure doses exceeding 200 mSv and the risk of death from solid cancer.²

However, there is no consensus among researchers concerning a relationship between cancer risks and exposure doses below 100 to 200 mSv. It is expected that studies will be further continued into the future to clarify whether a proportionate relationship can be found between cancer risks and all levels of exposure doses, whether there is any substantial threshold value, or whether any other correlations are found.

(Related to p.99 of Vol. 1, "Relative Risks and Attributable Risks," and p.164 of Vol. 1, "Disputes over the LNT Model")

1. E. J. Grant et. al., "Solid Cancer Incidence among the Life Span Study of Atomic Bomb Survivors: 1958-2009" RADIATION RESEARCH 187, 513-537 (2017)
2. K. Ozasa et. al., "Studies of the Mortality of Atomic Bomb Survivors, Report 14, 1950-2003: An Overview of Cancer and Noncancer Diseases" RADIATION RESEARCH 177, 229-243 (2012)

Included in this reference material on March 31, 2013

Updated on February 28, 2018