

Biological effects of low doses of ionizing radiation: A fuller picture

The two latest reports of the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) provide a comprehensive overview of current knowledge

When the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) submitted its 1994 report to the United Nations General Assembly this year, the international community received a fuller picture of the biological effects of low doses of ionizing radiation. The 272-page 1994 report specifically addresses epidemiological studies of radiation carcinogenesis and adaptive responses to radiation in cells and organisms.

The report is designed to supplement the more extensive 928-page report that UNSCEAR presented to the UN in 1993.* That report addressed global levels of radiation as well as major issues of radiation effects, including the mechanisms of radiation oncogenesis; the influence of level of dose and dose rate on stochastic effects of radiation; hereditary effects of radiation; radiation effects on the developing human brain; and late deterministic effects in children.

Taken together, these two reports provide an impressive account of current knowledge on the biological effects of ionizing radiation. This article — though by no means an account of all essential information — summarizes the highlights of UNSCEAR's assessment of the effects of low doses of ionizing radiation, hereinafter called "low radiation doses" (see box, page 39) in the context of available radiobiological evidence.

Radiobiological effects: The current understanding

Since the beginning of the 20th century, it has been known that high doses of ionizing radiation produce clinically detectable harm in an exposed individual that can be serious enough to be fatal. Some decades ago, it became clear that low ra-

diation doses also could induce serious health effects, although of low incidence and only detectable through sophisticated epidemiological studies of large populations. Because of the work of UNSCEAR, these effects are now better and more widely understood and better quantified.

Effects at the cellular level: DNA damage and repair mechanisms. The biological effects of radiation derive from the damage it causes to the chemical structure of the cell. For low radiation doses, damage to the *deoxyribonucleic acid (DNA)* in the cell's nucleus is of concern. The damage is expressed as *DNA mutation* occurring in genes in chromosomes of *stem cells*, which can alter the information that passes from a cell to its progeny.

While DNA mutation is subject to efficient repair mechanisms, the repair is not error free. Most damage is repaired, but some damage remains or is badly repaired, and this has consequences for the cell and its progeny. (See box, page 38.)

Evidence of cell adaptation. There is experimental evidence that DNA mutations can be reduced by a small prior conditioning dose of radiation, probably because of stimulation of the repair mechanisms in cells. (See box, page 42.) Such a process of *adaptive response* has been demonstrated in human lymphocytes and in certain mouse cells. The cellular response is transient and there appear to be individual variations. As it is recognized that the effectiveness of DNA repair is not absolute, adaptation is likely to occur together with the processes of DNA mutation and its subsequent effects. The balance between

by Abel J. González

* See the 1994 UNSCEAR Report, *Sources and Effects of Ionizing Radiation*; UN Pub. Sales No. E.94.XC.11; United Nations, New York, (1994), and the 1993 UNSCEAR Report, *Sources and Effects of Ionizing Radiation*; UN Pub. Sales No. E.94.XC.2; United Nations, New York (1993). Also see the *IAEA Bulletin*, Vol. 35, No. 4, page 49 (1993), for highlights of the 1993 report.

Dr. González is Deputy Director of the IAEA Division of Nuclear Safety.

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