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Sommario/riassunto	With an estimated 3.3 billion ionizing radiation imaging examinations performed worldwide each year, the growing use of x-ray-based

diagnostic procedures raises concerns about long-term health risks, especially cancer. In addition, rapid growth in the number of nuclear power plants around the world increases the risk of a nuclear accident similar to that of Fukushima, Japan. Add to this, exposure to non-ionizing radiation from prolonged cell phone use, proton radiation from solar flares, and potential nuclear conflict or a dirty bomb attack, and the need to expand our repertoire of radiatio