

interest to scientists, managers, and the general public. In that spirit, most quantities are expressed as "dose equivalent" in the more commonly used radiation protection units, the rem and Sievert. Medical diagnostics are expressed as estimated maximum organ dose; as they are not in "effective dose" they do not imply an estimation of risk (no tissue weighting). Dose limits are in effective dose, but for most radiation types and energies the difference is numerically not significant within this context. It is acknowledged that the decision to use these units is a simplification, and does not address everyone's needs. (NRC = Nuclear Regulatory Commission; EPA = Environmental Protection Agency; DHS = Department of Homeland Security)

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Chart compiled by NF Metting, Office of Science, DOE/BER. "Orders of Magnitude" revised June 2010 http://www.lowdose.energy.gov/

= (absorbed dose x radiation quality)
Absorbed Dose: 1 Gray = 100 rad
10 1 Sv ≈ 1 Gy for x- and gamma-rays

( " ≈ " stands for "approximately equal to")