

for all scans in 1 yr: 25 mrem

Note: This chart was constructed with the intention of providing a simple, user-friendly, "order-of-magnitude" reference for radiation quantities of interest to scientists, managers, and the general public. In that spirit, most quantities were expressed in the more commonly used radiation protection unit, the rem (or Sievert, 2nd page), and medical doses are not in "effective" dose. It is acknowledged that the decision to use one set of units does not address everyone's needs. (NRC—US Nuclear Regulatory Commission; EPA—US Environmental Protection Agency) Disclaimer: Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information disclosed.

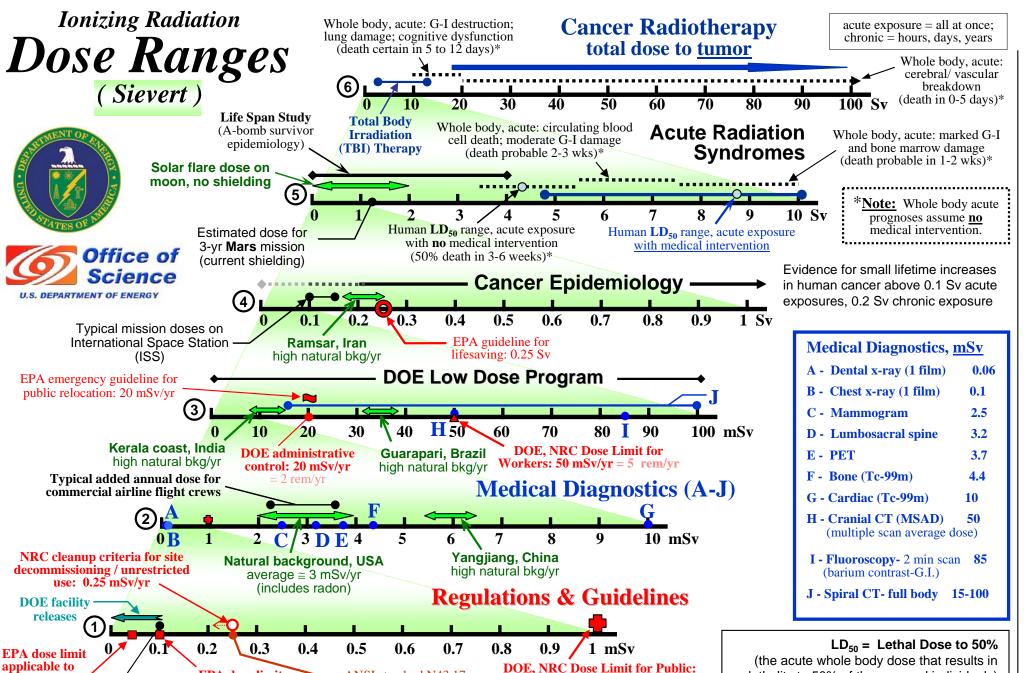
4 mrem/vr

10 mrem/vr

Chart compiled by NF Metting, Office of Science, DOE/BER "Orders of Magnitude" revised Oct 2008 http://www.science.doe.gov/ober/

Absorbed dose: 100 rad = 1 GrayDose equivalent: 100 rem = 1 Sievert 100 mrem = 1 mSv

(1 rem = 1 rad for x- and gamma-rays)



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Round-trip

NY to London

public drinking

water systems:

0.04 mŠv/vr

EPA dose limit

from releases in air:

 $0.1 \, \text{mSv/vr}$

ANSI standard N43.17

Personnel scans-max total dose

for all scans in 1 vr: 0.25 mSv

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1 mSv/vr = 100 mrem/vr

(ICRP, NCRP)

lethality to 50% of the exposed individuals)

Absorbed dose: 1 Gray = 100 radDose equivalent: 1 Sievert = 100 rem 1 mSv = 100 mrem

(1 Sv = 1 Gy for x- and gamma-rays)