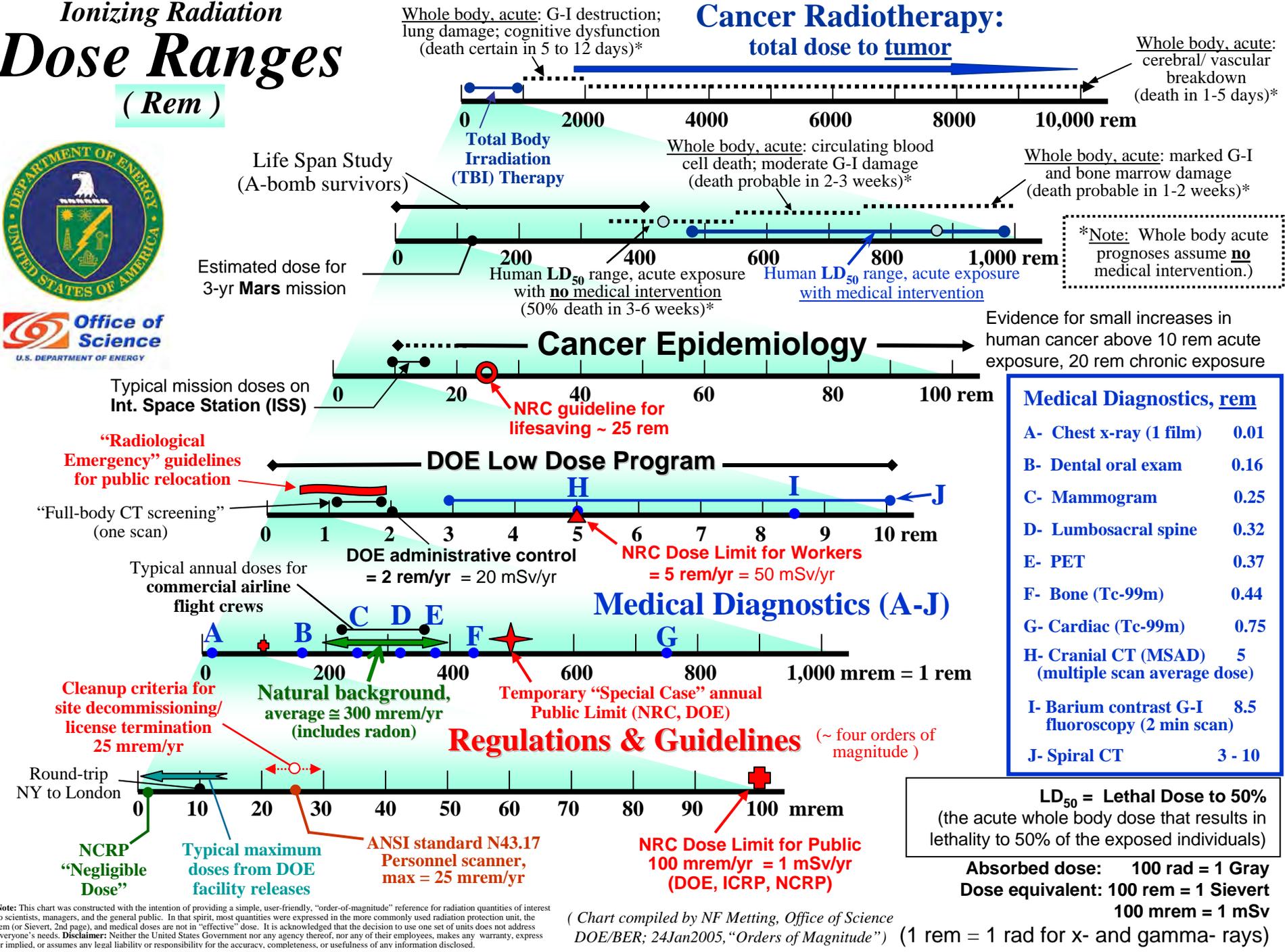


Ionizing Radiation Dose Ranges (Rem)



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. 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.

(Chart compiled by NF Metting, Office of Science DOE/BER; 24Jan2005, "Orders of Magnitude") (1 rem = 1 rad for x- and gamma- rays)

LD₅₀ = Lethal Dose to 50%
(the acute whole body dose that results in lethality to 50% of the exposed individuals)

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

