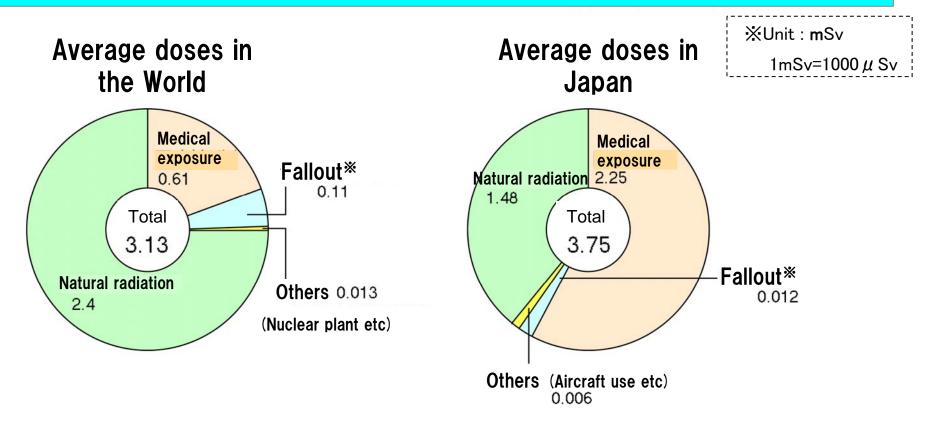


(Ref) Average dose rate at the monitoring post of Tokyo (3/17 9:00~3/18 9:00, March) : 0.050 μ Sv/h = 438 μ Sv/y

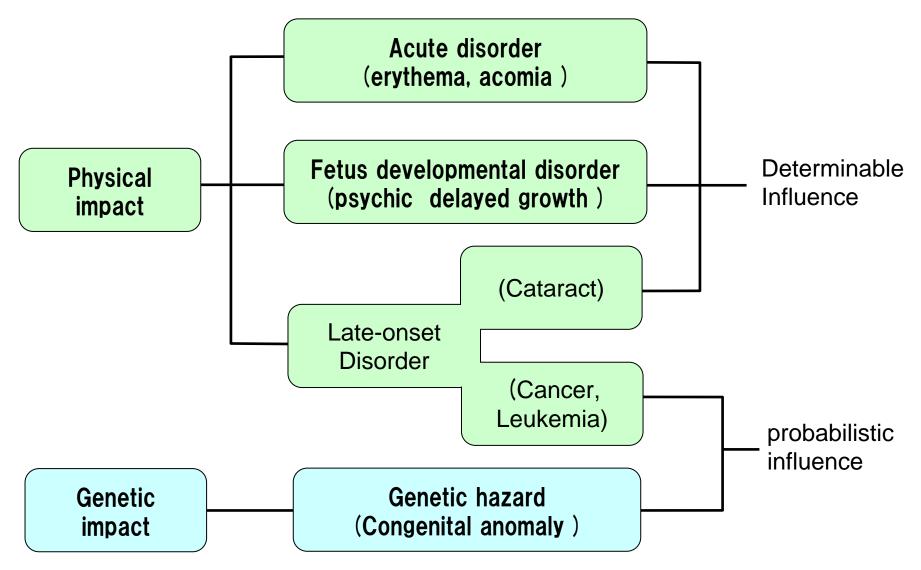
Annual doses per person received from nature and man-made source of radiation



%Fallout : the residual radiation hazard from a nuclear experiment

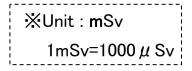
Adapted from ^[UNSCEAR Report 1992], and ^[Life environmental radiation] Former Science and Technology Agency (Japan)

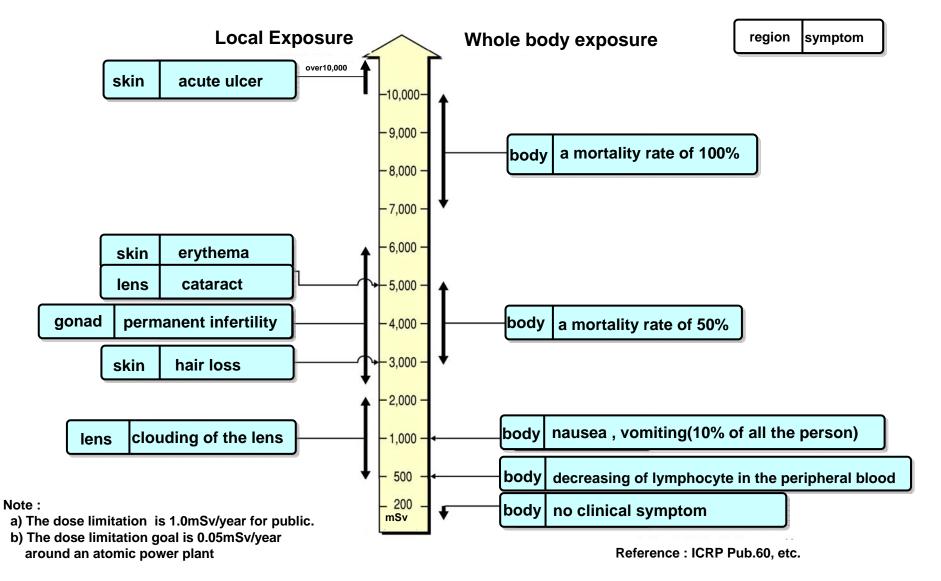
Effects of radioactivity to the human body



Adapted from $\ensuremath{^{\mbox{FBook}}}$ to understand effects of atomic radiation (RADIATION EFFECTS ASSOCIATION)

Acute Radiation Impact





A Guideline on Control Measures Concerning Nuclear Disaster Prevention

Indices for Evacuations

Projected Dose (Unit: mSv)		
Effective dose under external exposures	 Thyroid equivalent dose by radioactive iodine Equivalent dose of bone surface or lung by uranium Equivalent dose of bone surface or lung by plutonium 	Safety measures
10~50	100~500	Run into a building or house, stay there, shut the windows and keep air tightness. If the nuclear facility emits neutron ray or gamma ray directly, take shelter in a concrete building under instructions of the disaster countermeasures office.
50 or more	500 or more	Take shelter in a concrete building according to instructions of the disaster countermeasures office

- 1) The disaster countermeasures office figures out the projected dose, and instructs residents near the nuclear facility the safety measures, based on the dose.
- 2) "Projected dose" is what someone will receive out of doors while radioactive matter or ray is emitted.
- 3) Shall take steps of safeguards for the higher level of effective dose under external exposures, if the Thyroid equivalent dose by radioactive iodine, the Equivalent dose of bone surface or lung by uranium, and the Equivalent dose of bone surface or lung by plutonium are not in same level.

Reference: Nuclear Safety Commission of Japan,

The disaster prevention countermeasure of Nuclear Institutes (in Japanese), June 2001

Radioactivity and Radiation

