

235 Acute Radiation Effects of the Nagasaki Atomic Bomb by Distance
and Shielding Condition of Exposure

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Acute radiation effects of atomic bomb were studied on the basis of frequency of acute symptoms by distance and shielding condition of exposure. Onset time and severity of epilation were studied as well. The subjects were 12,905 atomic bomb survivors in Nagasaki exposed at a distance less than 4km from the hypocenter. Information on shielding conditions, acute symptoms, and onset time and severity of epilation was obtained from survivors when they apply to the atomic bomb survivor's handbook. The frequency of some major acute symptoms was: diarrhea-22%, fever-15% and epilation-11%. The frequency of epilation by exposure distance was 13% and 9% in those unshielded and exposed at a distance of 2.0-2.4km and 2.5-2.9km, respectively, while the respective figures reduced to 6% and 3% in shielded survivors.