

6 Probable Effects of Acute Whole Body Doses¹

| Acute Dose Rem (mGy) | Probable Effects |
|----------------------|---|
| 0-25 (0-250) | No detectable clinical effects. Delayed effects may occur, but are highly unlikely. |
| 25-100 (250-1000) | Slight blood changes with later recovery. Possible nausea. Serious delayed effects are possible but improbable. |
| 100-200 (1000-2000) | Nausea and fatigue, possible vomiting. Reduction in certain blood cells with delayed recovery. |
| 200-300 (2000-3000) | Nausea and vomiting probable on first day. Two week latent period followed by general malaise, loss of appetite, diarrhea, moderate loss of weight. Possible death in 2-6 weeks, but for most healthy individuals recovery likely. |
| 300-600 (3000-6000) | Nausea, vomiting, and diarrhea probable in first few hours. Short latent period followed by loss of appetite, general malaise, then hemorrhage, loss of weight, skin blotchiness, diarrhea, inflammation of throat. Some deaths in first weeks, possible eventual death to 50% of individuals receiving about 3500 mGy (assuming no medical treatment.) |
| 600 (6000 or more) | Nausea, vomiting, and diarrhea in first hours. Short latent period followed by diarrhea, hemorrhage, skin blotchiness, inflammation of throat, fever by end of first week. Rapid weight loss and death as early as second week with possible eventual death of 100% of exposed individuals. |

¹Adapted from the following references:

(a) United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) United Nations, NY (1977).

(b) Ibid (1982).

(c) Ibid (1988).

(d) "Medical Aspects of Radiation Accidents," E.L. Saenger (Editor), U.S. Atomic Energy Commission, p.9, 1963.