

Time/Dose Effects in Acute Radiation Syndrome - Acute Clinical Effects of Single-Dose Exposure of Whole-Body Irradiation

Symptoms/Signs for Dose Range 0.75 to 1.5 Gy in Free Air

Symptoms/Signs	Hours						Days							Weeks						
	4	8	12	16	20	24	2	3	4	5	6	7	2	3	4	5	6	7		
Nausea							5-30%													
Vomiting (retching)							5-20%													
Anorexia							15-50%													
Diarrhea (cramps)																				
Fatigue																				
Weakness																				
Hypotension																				
Dizziness																				
Disorientation																				
Bleeding																				
Fever							(a)							(a)						
Infection							(b)													
Ulceration																				
Fluid loss/electrolyte imbalance																				
Headache																				
Fainting																				
Prostration																				
Death																				

Severity Scale

 mild to moderate	 moderate to severe
 unspecified or mild	 severe

Colors used to improve visualization only.

Management and Treatment

Performance:
o Combat effective.

Hospitalization Percentage/Duration
o None

Therapy
o None

(a) Slight drop in lymphocyte, platelet, and granulocyte counts.
(b) Increased susceptibility to non-opportunistic pathogens.

Adapted from NATO Handbook on the Medical Aspects of NBC Defensive Operations AMedP-6(B), Chapter 6, General Medical Effects of Nuclear Weapons: Diagnosis, Treatment, and Prognosis, 1 February, 1996.