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

Symptoms/Signs for Dose Range 3.0 to 5.3 Gy in Free Air

	Hours					Days					Weeks					
Symptoms/Signs	4 8	12	16	20 24	2	3	4	5	6	7	2 3	3	4	5	6	7
Nausea		ш				70-90	r									
Vomiting (retching)					50-61	0%										
Anorexia						90	-100%					60	0%			
Diarrhea (cramps)	~10%										40-80%					BBB
Fatigue 60-90%																
Weakness 60-90%		ш	ш	шш								ш	ш	ш	ш	ш
Hypotension																
Dizziness																
Disorientation																
Bleeding								(a) 0	-50%				ш			
Fever								(b)		П		ш	ш	ш	ш	
Infection				(c)	10-80	% 💷	ш	ш	ш	п						
Ulc eration										(d)	30%		ш	ш	ш	
Fluid loss/electrolyte imbalance																
Headache																
Fainting																
Prostration																
Death	2												<5 -	50%		
Severity Scale mild to mo	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW				ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ				_	used to improve visualiztion only.						
unspecified or mild moders					severe											
Management and Treatment																
Performance: DT:PD from 3 hours until death or recovery. UT:PD from 4 to 40 hours and from 2 weeks until death or recovery. Hospitalization Per centage/Duration At 2 to 5 weeks medical care for 10 to 80%. At low end of range less than 10% deaths. At high end, death may occur for more than 50%. Survivors return to duty. Therapy Blood transfusion, antibiotics, rest. Treatment with antiemetics																
(a) Moderate drop in platelets: from 3 x 10 ⁵ / mn (b) Moderate drop in granulocytes: from 6 x 10 ³ / (c) Moderate to severe drop in lymphocytes: from to 1.0 - 0.4 x 10 ³ /mm ³ (d) Epilation.	mm³ to :	2.0-1	0.5 x 1		PD D1) = P6 [= D6	erfori eman		e Deg Task	gràd	ss than ed (25-)					

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.

