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

Symptoms/Signs for Dose Range 30.0 to 45.0 Gy in Free Air

	Hours					Days					Weeks					
Symptoms/Signs	4 8	12	16	20 24	2	3	4	5	6	7	2	3	4	5	6	7
Nausea	WW.	w	w	ww	W	·~~	~~		100%							
Vomiting (retching)	XXXX	XXXX	XXXX	XXXXX	****	XXX	XXX		100%							
Anorexia		ww.	<u> </u>	ww.		XXXX	XXX		100%							
Diarrhea (cramps)	KX	30%	į.			KX	XXX.		100%							
Fatigue	(XXX	(XXX)	(XXX)	(XXXX)	XXX	XXXX	XXX		100%							
Weakness		XXX	×××	****	****	~~~			100%							
Hypotension	8000	~~~	~~~	~~~		~~~	XXX		100 %							
Dizziness		WW	~~	·	·	~~~	~~		100%							
Disorientation	· ·	XXXX	XXXX	XXXXX	, , , , , , , , , , , , , , , , , , , 				100%							
Bleeding																
Fever			ш		50	-90%	(a)									
Infection						XX	XXX	X	(b)							
Ulc eration																
Fluid loss/electrolyte imbalance	Б	00000	00000	00000	***	***	XXX	3	100	r						
Headache	2	·	·	·	· ·	~~~	~~	Z	100	%						
Fainting					~~	~~~	· ·	9	100	%						
Prostration					RXX.	***	XXX	2	100	%						
Death									100	r						
Severity Scale mild to mo	oderate			mod	moderate to severe				Color	s use	d to improve visualiztion only.					
unspecified or mild modera				<u> </u>	seve		3									
	Ma	nager	nent a	nd Trea	tmen	t										
Performance: DT:PD from 6 to 20 minutes; PD from 20 to 90 T:PD from 30 minutes to 3 hours; CI from 31 Hospitalization Percentage/Duration At 6 hours to 1-2 days medical care for 100% Symptomatic medical care will be required with Therapy Supportive treatment.	nours to	death death:	n. sat2t			leath.										
(a) Granulocyte count drops to zero. (b) Lymphocyte count drops to zero.					CI = Combat Ineffective (less than 25% performar PD = Performance Degraded (25-75% performan DT = Demanding Task UT = Undemanding Task											

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.

