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

Symptoms/Signs for Dose Range 15.0 to 30.0 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	***************************************	***************************************	100%
Vomiting (retching)		***************************************	100%
Anorexia	***************************************	100%	100%
Diarrhea (cramps)	20%	××××××××	100%
Fatigue	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	****	XXXX 100%
Weakness	***************************************	***************************************	100%
Hypotension	777777777777777777777777777777777777777	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100%
Dizziness	·····	***************************************	100%
Disorientation			100%
Bleeding		(a) 💌	100%
Fever	777777777777777777777777777777777777777	45-50% (b) ****	100%
Infection		(c) KXXXXXXXXXXX	100 %
Ulc eration			100%
Fluid loss/electrolyte imbalance	777777777777777777777777777777777777777	///////	(d) 100%
Headache		100%	100 %
Fainting			80%
Prostration		********	80%
Death	(e)		100%
Severity Scale mild to mo	oderate mode	rate to severe Colors use	d to improve visualiztion only.
Management and Treatment			
Performance: DI:PD 1 to 2 hours; Cl 4 hours to 3 days; PD 3 to 4 days; Cl 4 days to death. UI:PD 1 to 7 hours; Cl 7 to 25 hours to 4.5 days; Cl 4.5 days to death. Hospitalization Per centage/Duration 3 to 4 days medical care for 100%. 100% deaths at 5 to 10 days. Therapy Maintenance of electrolyte balance, supportive treatment.			
(a) Platelet count drops to zero. (b) Granulocyte count drops to zero. (c) Lymphocyte count drops to zero. (d) Severe intestinal damange. (e) Renal failure.		CI = Combat Ineffective (les PD = Performance Degrade 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.

