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

## Symptoms/Signs for Dose Range 11.0 to 15.0 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%	100%
Vomiting (retching)		100%	100%
Anorexia		100%	100%
Diarrhea (cramps)	10%	KXXXXXX	100%
Fatigue	IXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	******	XXXXXXX 100%
Weakness		***************************************	100%
Hypotension		80% (a) X	100%
Dizziness		100%	100%
Disorientation		100%	100%
Bleeding		(b)	100%
Fever		30-45% (c) <b>KXXXXX</b>	100%
Infection		(d) <b>CXXXXXXXXXXXXXXXX</b>	100 %
Ulceration		(e) XX	100%
Fluid loss/electrolyte imbalance			(f) 100%
Headache	777777777777777777777777777777777777777	2222 100%	100%
Fainting		7//	70%
Prostration		ZZZ	70%
Death			100%
Severity Scale mild to m unspecified or mild moders	oderate mod	erate to severe Colors use	d to improve visualiztion only.
Management and Treatment			
Performance:  DT:PD from 1 to 5 hours; CI from 5 hours to 2 days; PD 2 to 6 days; CI from 6 days to death.  UT:PD from 1.5 hours to 8 days; CI from 8 days to death.  Hospitalization Per centage/Duration  3 to 6 days medical care for 100%; 100% deaths at 1 to 4 weeks.  Hospitalization as early as first day may be required depending on severity of symptoms.  Therapy  Maintenance of electrolyte balance, in addition to treatment recommended at lower doses.			
(a) Blood pressure drops 25%; temperature incr (b) Platelet count drops to zero. (c) Granulocyte count drops to zero. (d) Lymphocyte count drops to zero. (e) Epilation. (f) Moderate to severe intestinal damage.	eases to 102 degree F.	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.

