

**TABLE 2-1****PATHOPHYSIOLOGICAL EVENTS OF ACUTE RADIATION SYNDROME**

<b>Dose Range (Gy)</b>	<b>Pathophysiological events</b>		
	<b>Prodromal Effects</b>	<b>Manifest-Illness Effects</b>	<b>Survival</b>
0.5-1.0	Mild	Slight decrease in blood cell count	Almost certain
1.0-2.0	Mild to Moderate	Early symptoms of bone-marrow damage	Probable (>90%)
2.0-3.5	Moderate	Moderate to severe bone-marrow damage	Possible**
3.5-5.5	Severe	Severe bone-marrow damage; slight intestinal damage	Death within 3.5-6.0 weeks †
5.5-7.5	Severe	Bone-marrow pancytopenia and moderate intestinal damage	Death within 2-3 weeks
7.5-10.0	Severe	Combined gastrointestinal and bone-marrow damage; hypotension	Death within 1.0-2.5 weeks
10.0-20.0	Severe gastrointestinal damage; upper half of range: ETI;* gastrointestinal death		Death within 5-12 days
20.0-30.0	Gastrointestinal and cardiovascular damage		Death within 2-5 days

\* Early Transient Incapacitation

\*\*Top third of range: LD<sub>50/60</sub>

Middle third: LD<sub>10/60</sub>

Bottom third: LD<sub>5/60</sub>

† Top half: LD<sub>99/60</sub>

Bottom half: LD<sub>90/60</sub>

Source: Data from reference 1.