

**Table1 Clinical Score Parameters for radiation induced sickness. Mice**

Assess the following parameters and tally with associated scoring system:	
A. Physical appearance	0 – normal 1 – lack of grooming 2 – rough hair coat 3 – very rough hair coat 4 – Eye discharge covering the eyeball
B. Posture	0 – normal 1 – sitting in hunched position 4 – hunched posture, head resting on floor 6 – lying prone on cage floor/unable to maintain upright posture (**suggests moribund and euthanasia required)
C. Activity/Behavior	0 – normal 1 – minor changes in behavior 3 – above plus change in respiratory rate or effort 6 – moves only when stimulated
D. Food intake	0 – normal 1 – moderately reduced 2 – not eating since last check point (**assumes multiple checks per day, by visual inspection of food on floor of cage) 3 – not eating for last 2 check points (**assumes multiple checks per day, by visual inspection of food on floor of cage)
E. Water intake	0 – normal 1 – mildly reduced 2 – moderately reduced 3 – severely reduced (**with supplemental fluids given by s.c.)
F. Feces	0 – normal 1 – mildly reduced 2 – moderately reduced 3 – severely reduced
G. Body Weight (assessed weekly, then every other day when 10% weight change reached, and daily after 15% weight change reached)	0 – normal (<5% change from initial weight) 1 – 5-10% weight change 2 – 10-14.9% weight change 3 – 15-19.9% weight change 4 – 20-24.9% weight change 6 – > 25% weight change
H. Body temperature (ventral surface temp. determined using infrared thermometer)	0 – 33-35 °C 2 – 30-32.9 °C 4 – 28-29.9 °C 6 – < 28 °C
Endpoint for euthanasia: any single parameter of 6 or combined score for parameters A to H => 15.	
Immediate endpoints for euthanasia:	
1. Unconsciousness 2. Inability to remain upright 3. Agonal respiration (i.e. gasping) 4. Convulsions	

#### NMR

Assess the following parameters and tally with associated scoring system:	
A. Physical appearance	0 –normal 1 – lack of grooming 2 – rough skin 3 – very rough skin
B. Posture	0 – normal 1 – sitting in hunched position 4 – hunched posture, head resting on floor 6 – Lie on the cage floor with feet facing up (**suggests moribund and euthanasia required)
C. Activity/Behavior	0 – normal 1 – minor changes in behavior 3 – above plus change in respiratory rate or effort 6 – moves only when stimulated
D. Food intake	0 – normal 1 – moderately reduced 2 – not eating since last check point (**assumes multiple checks per day, by visual inspection of food on floor of cage) 3 – not eating for last 2 check points (**assumes multiple checks per day, by visual inspection of food on floor of cage)
E. Water intake (Calculated based on root vegetables intake)	0 – normal 1 – mildly reduced (reduced 10%) 2 – moderately reduced (reduced 25%) 3 – severely reduced (reduced 33%) (**with supplemental fluids given by s.c.)
F. Feces	0 – normal 1 – mildly reduced 2 – moderately reduced 3 – severely reduced
G. Body Weight (assessed weekly, then every other day when 10% weight change reached, and daily after 15% weight change reached)	0 – normal (<5% change from initial weight) 1 – 5-10% weight change 2 – 10-14.9% weight change 3 – 15-19.9% weight change 4 – 20-24.9% weight change 6 – > 25% weight change
H. Body temperature (ventral surface temp. determined using infrared thermometer)	0 – 30-33 °C 2 – 30-32.9 °C 4 – 28-29.9 °C 6 – < 28 °C
Endpoint for euthanasia: any single parameter of 6 or combined score for parameters A to G => 15.	
Immediate endpoints for euthanasia:	
1. Unconsciousness 2. Inability to remain upright 3. Agonal respiration (i.e. gasping) 4. Convulsions	