

Table 1. Qualifying Pain/Distress/Suffering

Variable	
Body Weight Changes 0 Normal 1 <10 percent weight loss 2 10-15 percent weight loss 3 >20 percent weight loss	
Physical Appearance 0 Normal 1 Lack of grooming 2 Rough coat, nasal/ocular discharge 3 Very rough coat, abnormal posture, enlarged pupils	
Measurable Clinical Signs 0 Normal 1 Small changes of potential significance 2 Temperature change of 1-2°C, cardiac and respiratory rates increased up to 30 percent 3 Temperature change of >2°C, cardiac and respiratory rates increased up to 50 percent, or markedly reduced	
Unproved Behavior 0 Normal 1 Minor changes 2 Abnormal, reduced mobility, decreased alertness, inactive 3 Unsolicited vocalizations, self-mutilation, either very restless or immobile	
Behavior Responses to External Stimuli 0 Normal 1 Minor depression/exaggeration of response 2 Moderately abnormal responses 3 Violent reactions, or comatose	
	TOTAL

Adapted from Morton, D.B. and P.H.M. Griffiths (1985). *Veterinary Record* 116: 431-436

Table 2. Selected Clinical Observations Used in Cancer Research and Toxicological Studies

Parameter	What to Look For
General Appearance	Dehydration, decreased body weight, missing anatomy, abnormal posture, hypothermia, fractured appendage, swelling, tissue masses, prolapse, paraphimosis
Skin and Fur	Discoloration, urine stain, pallor, redness, cyanosis, icterus, wound, sore, abscess, ulcer, alopecia, ruffled fur
Eyes	Exophthalmos, microphthalmia, prosis, reddened eye, lacrimation, discharge, opacity
Nose, Mouse and Head	head tilted, nasal discharge, malocclusion, salivation

Respiration	Sneezing, dyspnea, tachypnea, rales
Urine	Discoloration, blood in urine, polyuria, anuria
Feces	Discoloration, blood in feces, softness/diarrhea
Locomotor	Hyperactivity, hypoactivity, coma, ataxia, circling, muscle, tremors, convulsion/seizure, limb paralysis, prostration

Montgomery, C.A., Jr. (1990). *Cancer Bulletin* 42(4): 230-

Table 3. Selected Criteria for Euthanasia of Moribund Animals

•	Rapid weight loss (15-20 percent within a few days)
•	Extended period of weight loss (progressing to emaciated state)
•	Spreading area of alopecia caused by disease
•	Rough hair coat, haunched posture, distended abdomen, or lethargy, especially if debilitating or prolonged (3 days)
•	Diarrhea, especially if debilitating or prolonged (3 days)
•	Coughing, rales, wheezing, and nasal discharge
•	Distinct icterus and/or anemia
•	Rapid growth of mass or masses, or clinical signs of neoplasia
•	Central nervous system signs such as head tilt, tremors, spasticity, seizures, circle or paralysis or paresis, especially if associated with anorexia
•	Frank bleeding from any orifice
•	Markedly discolored urine, polyuria, or anuria
•	Persistent self-induced trauma
•	Lesions interfering with eating or drinking
•	Clinical signs of suspected infectious disease requiring necropsy for diagnosis
•	Other clinical signs judged by experienced technical staff to be indicative of moribund condition

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