

Table I. Signs of Pain and Distress in Laboratory Animals

Species	Signs of mild to moderate pain or distress	Signs of severe or chronic pain or distress
Cat	Increased aggression when approached; decreased food intake; licking.	Generally silent; may growl or hiss if approached; attempt to hide; crouching, hunched or stretched posture; wild escape behavior, vocalizing, un-groomed appearance; pupillary dilation; anorexia.
Cattle	Depressed; little interest in surroundings; weight loss and sudden drop in milk yield; lack of grooming	Rapid, shallow respiration; increased aggression; rigid posture; grunting and grinding of teeth; weight loss
Dog	Decreased alertness; stiff posture; panting; biting; licking or scratching; increased vocalization; increased aggression.	Unwillingness to move; crouching posture; increased restlessness; increased aggression; crying when handled or moved.
Gerbil	Ocular discharge; eyelids partially closed and matted with dry material; may "faint" when handled; changes in activity and burrowing behavior; arched back; hunched posture.	Loss of weight and condition; sores on face; hair loss on tail.
Guinea Pig	Eyes sunken and dull; changes in respiration; increased timidity; increased sleepiness; arched back; increased vocalization.	Weight loss; hair loss; scaly skin; dehydration; decreased timidity; unresponsive; excessive salivation (oral problems); increased barbering; loss of righting reflex; decreased vocalization; hypothermia.
Syrian Hamster	Ocular discharge; increased aggression; hunched posture; reluctance to move.	Loss of coat and body condition; increasing depression; extended daytime sleep periods; lateral recumbency; hypothermia; sores on lips, paws.
Horse	Interrupted feeding; pupillary dilation; glassy eyes; increased respiration; increased heart rate; profuse sweating; rigid stance; restlessness.	Depression; biting; kicking; circling; self-mutilation; reluctance to be handled.
Mouse	Eyelids partially closed; changes in respiration; rough hair coat; increased vibrissae movement; unusually apprehensive or aggressive; possible writhing, scratching, biting, self-mutilation; hunched posture; sudden running; aggressive vocalization; guarding.	Weight loss; dehydration; incontinence; soiled hair coat; eyes sunken, lids closed; wasting of muscles on back; sunken or distended abdomen; decreased vibrissae movement; unresponsive; separates from group; hunched posture; ataxia; circling; hypothermia; decreased vocalization.
Pigs	Changes in gait or posture; increased efforts to avoid handling; increased squealing when approached or handled.	Depression; unwillingness to move; attempts to hide; withdrawal from pen mates; anorexia.
Non-human primates	Generally few signs, especially in the presence of humans; decreased activity; decreased food and water intake; increased vocalization.	Huddled or crouching posture, with hand folded over abdomen; clenching or grinding of teeth; depression or increased restlessness; withdrawal from cage mates; increased (generally aggressive) attention from cage mates; anorexia; weight loss; decreased grooming.

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Rabbit	Ocular discharge; constipation or diarrhea; depression; facing back of cage; excessive self-grooming; stretched posture; early failure to eat and drink; dull attitude or increased aggression when handled; possible vocalization when handled; tooth grinding; respiratory rate may increase.	Tooth grinding; apparent sleepiness; dehydration; weight loss; fecal staining; wasting of lower back muscles; decreased production of night feces; unresponsive.
Rodents	Aggressive vocalization; licking, biting, scratching; guarding; rough hair coat \pm hair loss; reduced exploratory behavior.	Eyes closed, piloerection and ungroomed appearance; dehydration; weight loss; incontinence; soiled hair coat; self-mutilation; recumbent position with head tucked into abdomen; decreased vocalization; hypothermia; staggering/falling; squirming; poor gait; writhing; poor posture.
Sheep, Goat	Lying with legs extended; stamping feet; swaying stance; mild ataxia; restlessness or depression; increased aggression on handling; guarding; tooth grinding.	Rolling; frequently looking or kicking at abdomen; falling over; walking backward; rapid, shallow respiration; weight loss; tooth grinding; grunting; vocalization on handling (goats especially); rigidity; unwillingness to move.