

Mouse Tumor Scoring

1. Appearance and Body Condition Score (BCS):

- BCS of 3: Normal; Score=0.
- BCS of 3: poor hair coat, decreased activity, normal posture and mobility; Score=2.
- BCS of 2: poor hair coat, decreased activity or hunched posture; Score=3.
- BCS of 1: poor hair coat, severe lethargy; Score=6.
- Moribund and/or severe cachexia; Score=19.

2. Tumor & degree of necrosis or ulceration (degree of ulceration to be determined by DLAM staff):

- Tumor ≤ 7 mm in any dimension; Score=0.
- Tumor ≤ 7 mm in any dimension with minor ulceration; Score=4.
- Tumor 7-17mm in any dimension; Score=9.
- Tumor ≥ 18 mm in any dimension, or abdominal distention; Score=12.
- Tumor ≥ 20 mm in any dimension; Score=14.

3. Bodyweight Change (for growing animals subtract percent deviation from normal growth pattern).

- No change from pre-tumor weight; Score=0.
- Weight loss of 5-10%, or gain of 5%; Score=9.
- Weight loss of 10-15%, or gain of 6-9%; Score=12.
- Weight loss of $> 15\%$, or gain of $> 10\%$; Score=15.
- Weight loss of $> 25\%$; Score=18.

BC1

Mouse is emaciated



- Segmentation of vertebral column prominent if not visible.
- Little or no flesh cover over dorsal pelvis. Pins prominent if not visible.
- Segmentation of caudal vertebrae prominent.

BC2

Mouse is under conditioned



- Segmentation of vertebral column prominent.
- Thin flesh cover over dorsal pelvis, little subcutaneous fat. Pins easily palpable.
- Thin flesh cover over caudal vertebrae, segmentation palpable with slight pressure.

BC3

Mouse is well conditioned



- Segmentation of vertebral column easily palpable.
- Moderate subcutaneous fat store over pelvis. Pins easily palpable with slight pressure.
- Moderate fat store around tail base, caudal vertebrae may be palpable but not segmented.

Cumulative Score	Recommended Action
0-7	Routine monitoring adequate.
8-13	Routine monitoring adequate. Consider supportive therapy such as fluid administration and easy access to food.
14-17	Contact lab animal personnel to discuss action plan. Euthanasia is likely and should be considered.
>17	Contact lab animal personnel to discuss action plan. Euthanasia is warranted.

Rat Tumor Scoring

1. Appearance and Body Condition Score (BCS):
 - a. BCS of 3: Normal; Score=0.
 - b. BCS of 3: poor hair coat, decreased activity, normal posture and mobility; Score=2.
 - c. BCS of 2: poor hair coat, decreased activity or hunched posture; Score=3.
 - d. BCS of 1: poor hair coat, severe lethargy; Score=6.
 - e. Moribund and/or severe cachexia; Score=19.
2. Tumor & degree of necrosis or ulceration (degree of ulceration to be determined by DLAM staff):
 - a. Tumor ≤ 20 mm in any dimension; Score=0.
 - b. Tumor ≤ 20 mm in any dimension with minor ulceration; Score=4.
 - c. Tumor 20-34mm in any dimension; Score=9.
 - d. Tumor ≥ 35 mm in any dimension, or abdominal distention; Score=12.
 - e. Tumor ≥ 40 mm in any dimension; Score=14.
3. Bodyweight Change (for growing animals subtract percent deviation from normal growth pattern).
 - a. No change from pre-tumor weight; Score=0.
 - b. Weight loss of 5-10%, or gain of 5%; Score=9.
 - c. Weight loss of 10-15%, or gain of 6-9%; Score=12.
 - d. Weight loss of $> 15\%$, or gain of $> 10\%$; Score=15.
 - e. Weight loss of $> 25\%$; Score=18.



- BC 1**
Rat is emaciated
- Segmentation of vertebral column prominent if not visible.
 - Little or no flesh cover over dorsal pelvis. Pins prominent if not visible.
 - Segmentation of caudal vertebrae prominent.



- BC 2**
Rat is under conditioned
- Segmentation of vertebral column prominent.
 - Thin flesh cover over dorsal pelvis, little subcutaneous fat. Pins easily palpable.
 - Thin flesh cover over caudal vertebrae, segmentation palpable with slight pressure.



- BC 3**
Rat is well-conditioned
- Segmentation of vertebral column easily palpable.
 - Moderate subcutaneous fat store over pelvis. Pins easily palpable with slight pressure.
 - Moderate fat store around tail base, caudal vertebrae may be palpable but not segmented.

<u>Cumulative Score</u>	<u>Recommended Action</u>
0-7	Routine monitoring adequate.
8-13	Routine monitoring adequate. Consider supportive therapy such as fluid administration and easy access to food.
14-17	Contact lab animal personnel to discuss action plan. Euthanasia is likely and should be considered.
>17	Contact lab animal personnel to discuss action plan. Euthanasia is warranted.