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Grip strength test

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Protocol status: Working
We use this protocol and it's working

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Abstract

Grip strength test for mice

Troubleshooting

1 Hold the animal by the middle/base of the tail and allow it to grasp a tangled fine gauge stainless steel wire attached to steel chain (**13.2g**). Then, lift them carrying the corresponding weight with their forepaws for a total of 5 seconds. If the animal does not succeed assign **0 seconds** to that animal. If the animal succeeds holding the weight, move on to the next weight.

2 Hold the animal by the middle/base of the tail and allow it to grasp a tangled fine gauge stainless steel wire attached to steel chain (**32.1g**). Then lift them carrying the corresponding weight with their forepaws for a total of 5 seconds. If the animal does not succeed assign **the max nº of seconds** he held the weight to that animal. If the animal succeeds holding the weight, move on to the next weight.

3 Hold the animal by the middle/base of the tail and allow it to grasp a tangled fine gauge stainless steel wire attached to steel chain (**19.7g**). Then lift them carrying the corresponding weight with their forepaws. If the animal does not succeed assign **the max nº of seconds**to that animal. If the animal succeeds holding the weight, move on to the next weight.

4 Hold the animal by the middle/base of the tail and allow it to grasp a tangled fine gauge stainless steel wire attached to steel chain (**25.9g**). Then lift them carrying the corresponding weight with their forepaws. If the animal does not succeed assign **the max nº of seconds**to that animal. If the animal succeeds holding the weight, move on to the next weight.

5 Hold the animal by the middle/base of the tail and allow it to grasp a tangled fine gauge stainless steel wire attached to steel chain (**38.4g**). Then lift them carrying the corresponding weight with their forepaws. If the animal does not succeed, assign **the max nº of seconds**to that animal. If they succeed holding the weight, move on to the next weight.

6 Hold the animal by the middle/base of the tail and allow it to grasp a tangled fine gauge stainless steel wire attached to steel chain (**44.6g**). Then lift them carrying the corresponding weight with their forepaws. If the animal does not succeed, assign **the max nº of seconds**to that animal. If the animal succeeds holding the weight, assign **30 seconds** to that animal.

7 Calculate Grip latency (s) as a sum of the time holding the increasing weights (0-30 seconds).