

Jan 23, 2025

Version 2

Pole Test V.2

DOI

<https://dx.doi.org/10.17504/protocols.io.4r3l2qqj3l1y/v2>

daniel.dautan daniel^{1,2}, Per Svenningsson^{1,2}

¹Department of Clinical Neuroscience, Karolinska Institutet, 171 76 Stockholm, Sweden;

²Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, MD 20815, USA



Jacquelyn Haytayan

Weill Cornell Medicine

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.4r3l2qqj3l1y/v2>

Protocol Citation: daniel.dautan daniel, Per Svenningsson 2025. Pole Test. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.4r3l2qqj3l1y/v2> Version created by [Jacquelyn Haytayan](#)

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working



Created: January 23, 2025

Last Modified: January 23, 2025

Protocol Integer ID: 118992

Keywords: ASAPCRN, behavior, mouse, Parkinson's, motor impairment, pole test test for motor ability, motor ability, pole test test, mice

Funders Acknowledgements:

Aligning Science Across Parkinson's

Grant ID: 020608

Abstract

Test for motor ability in mice

Materials

50cm long, 1 cm diameter, wooden pole placed perpendicularly to small stand

Set Up

- 1 Place the wooden, 50 cm long, 1cm in diameter the home cage to be tested, and make sure it stands upright on stand.
- 2 Set up recording camera to record the trials.
- 3 Take measurements of mice body weight.
- 4 Clean pole completely with ethanol.

Protocol

- 5 Habituate the mice to the pole one time before testing by carefully placing the mouse on the top of the pole facing downwards. Allow the mouse to travel down and reach the home cage.
- 6 After habituation, test the mouse by again placing them on the top of the pole facing downwards. Allow the mouse to travel down and reach the home cage. There is no time cut-off.
- 7 Record the time that the mice took to descend the first half, the second half, and the total pole.
- 8 Test each mouse 5 times rotating between other mice in the cage.
- 8.1 Be sure to clean the pole completely with ethanol between each cage to prevent olfactory bias.