



Apr 18, 2024

Version 2

## Glucose Tolerance Test V.2

DOI

[dx.doi.org/10.17504/protocols.io.261geddodv47/v2](https://dx.doi.org/10.17504/protocols.io.261geddodv47/v2)

Sabina Marciano<sup>1</sup>, Roberta Marongiu<sup>2,3</sup>

<sup>1</sup>Weill Cornell medicine;

<sup>2</sup>Department of Neurological Surgery, Weill Cornell Medical College, New York, NY 10065;

<sup>3</sup>Aligning 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.261geddodv47/v2>

**Protocol Citation:** Sabina Marciano, Roberta Marongiu 2024. Glucose Tolerance Test. **protocols.io**  
<https://dx.doi.org/10.17504/protocols.io.261geddodv47/v2> Version created by **Eileen Ruth Torres**

**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:** April 18, 2024

**Last Modified:** September 23, 2024

**Protocol Integer ID:** 98408

**Keywords:** ASAPCRN, glucose tolerance test the glucose tolerance test, glucose tolerance test, insulin resistance, glucose, diabetes, test

**Funders Acknowledgements:**

Aligning Science Across Parkinson's


Grant ID: 020608

## Abstract

The glucose tolerance test is performed to determine how quickly the glucose is cleared from the blood. It is used to test for diabetes or insulin resistance.

## Troubleshooting



- 1 Single cage the mice for 1 week in advance
- 2 Weight the mice
- 3 Fast mice for  06:00:00 6h
- 4 After fasting, measure glucose with a glucose meter
- 5 Perform an intraperitoneal injection of 2g / kg body weight of glucose (20% D-glucose stock solution dissolving 2g of glucose in 10ml saline and give 10ul per gram of body weight).
- 6 Collect blood samples for glucose measurement at 15, 30, 45, 60, 90 and 120 min post glucose injection