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## Intraperitoneal Glucose Tolerance Testing (IPGTT) [↗](#)

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**1** Works for me [dx.doi.org/10.17504/protocols.io.3g7gjzn](https://doi.org/10.17504/protocols.io.3g7gjzn)

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### ABSTRACT

#### Summary:

This is the standard protocol for most routine glucose tolerance testing. It is performed on awake mice, fasted for 6 hr.

#### Diabetic Complications:



Cardiovascular



Nephropathy



Neuropathy



Pediatric Endocrinology



Retinopathy



Uropathy



Wound-Healing

### EXTERNAL LINK

<https://www.diacomp.org/shared/document.aspx?id=11&docType=Protocol>

### MATERIALS

**NAME** ▾

**CATALOG #** ▾

**VENDOR** ▾

D-Glucose stock 100 mg/ml in saline (10 µl/g body weight)

1 cc syringe 27 Ga 1/2 needle

[View](#)

[Bd](#)

Glucometer

### MATERIALS TEXT

#### Note:

**BD Biosciences ([RRID:SCR\\_013311](#))**

1 Mice are fasted for six hours by removal to a clean cage without food at the end of their dark (feeding) cycle.

2 Mice are weighed.

- 3 After 6h of fasting, a fasting glucose level is obtained from venous blood from a small tail clip.
- 4 1 mg/g body glucose is injected intraperitoneally.
- 5 Blood glucose values are obtained at 5, 15 30, 60, and 120 min.
- 6 If desired, blood may also be obtained for insulin assay (~50 µl) at any time point.



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