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# Intraperitoneal Glucose Tolerance Testing (IPGTT)

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**Protocol status:** Working

**We use this protocol and it's working**

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**Protocol Integer ID:** 23807

**Keywords:** Intraperitoneal Glucose Tolerance Testing, cardiovascular, nephropathy, neuropathy, pediatric endocrinology, retinopathy, uropathy, wound-healing

## 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

## Materials

### MATERIALS

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

 1 cc syringe 27 Ga 1/2 needle **Becton Dickinson (BD)**

 Glucometer

### **Note:**

**BD Biosciences ([RRID:SCR\\_013311](https://doi.org/10.17504/protocols.io.3g7gjzn))**

- 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  $\mu$ l) at any time point.