AUG 12, 2019

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.3g7gjzn

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

Protocol Citation: Donald McClain 2019. Intraperitoneal Glucose Tolerance Testing (IPGTT). **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.3g7gjzn>

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

Created: May 29, 2019

Last Modified: Aug 12, 2019

PROTOCOL integer ID:
 23807

Intraperitoneal Glucose Tolerance Testing (IPGTT)

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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

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

MATERIALS

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⊗ D-Glucose stock 100 mg/ml in saline (10 µl/g body weight) **Contributed by users**

⊗ 1 cc syringe 27 Ga 1/2 needle **Bd**

⊗ Glucometer **Contributed by users**

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 µl) at any time point.