

Measurement of Glucose Homeostasis in Human Brain by NMR: Effect of Recurrent Hypoglycemia on Type 1 Diabetes (Aim 2)

Status: Recruiting

Eligibility Criteria

Age: 18 years and over

Inclusion Criteria:

- 18 to 65 years old - diagnosis of Type 1 diabetes - diabetes duration 2
- 30 years - Hemoglobin A1C less than 8.5%

Exclusion Criteria:

- unaware of hypoglycemia when it is occurring - pregnant or plan to become pregnant during the study - uncontrolled hypertension (blood pressure greater than 145/95 mmHg) - inability to undergo MRI scanning, including but not limited to unable to remain still in an MRI scanner for more than 30 minutes, claustrophobia, presence of paramagnetic substances or pacemakers in body, weight over 300 pounds - other medical or mental health issues (study staff will review)

Conditions & Interventions

Conditions:

Diabetes & Endocrine

Keywords:

Diabetes Mellitus, Type 1

More Information

Description: To measure glucose transport in the frontal cortex and hypothalamus in subjects with T1D before and after induction of impaired awareness of hypoglycemia (IAH). Kinetic parameters for glucose transport and metabolism will be measured using hyperglycemic clamps at 3T at baseline and after recurrent HG.

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IRB

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