

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

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** 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%

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**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:** Individuals with type 1 diabetes often develop an impaired awareness of hypoglycemia (IAH), meaning they are not fully aware of having low blood glucose levels. This research study is looking to determine what happens in the brain after repeat episodes of hypoglycemia.

**Study Contact:** Diabetes Study - [studydiabetes@umn.edu](mailto:studydiabetes@umn.edu)

**Principal Investigator:** Elizabeth Seaquist

**Phase:** N/A

**IRB**

**Number:** STUDY00008108

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