



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.

Contact(s): Diabetes Study - studydiabetes@umn.edu

Principal Investigator: Elizabeth Seaquist

IRB

Number: STUDY00008108

System ID: 27975

Thank you for choosing StudyFinder. Please visit http://studyfinderstaging.umn.edu to find a Study which is right for you and contact sfinder@umn.edu if you have questions or need assistance.