Tissue-specific mechanisms underlying the unique insulin resistance phenotype in T1D
COMIRB # 19-0856

This study plans to learn more about your body’s ability to use insulin and what kinds of substances are found in your muscles and fat tissue that may affect how your body uses insulin.

This study involves the following visits:

- **Screening Visit (45-60 minutes)** – Visit 1 is a screening visit to determine your eligibility that will include a physical examination, blood draw, urine sample, and completion of questionnaires. You will be asked to fast (no food or liquids other than water) for 12 hours. You will have blood pressure and related vascular measures taken.

- **Visit 2 (120 minutes)** – Visit 2 will involve a medical history and physical examination by a medical provider, followed by a determination of your lean body mass using a special scale. You will be asked to complete questionnaires about your diet and physical activity. If you have type 1 diabetes, you will also meet with a study doctor to place a continuous glucose monitor and adjust insulin prior to the overnight stay.

- **Visit 3 (15 minutes)** – Visit 3 will involve you picking up a study diet prepared by a dietician and given special instructions on food consumption.

- **Visit 4 (Overnight visit)** – This visit will involve an overnight stay at the Clinical Research Center with a lab draw, muscle biopsy, fat biopsy, insulin clamp, and further lab draws. This visit will last for approximately 24 hours.

You might be eligible if you:

- Are between 20 and 45 years of age and are not obese (body mass index <30 kg/m²)
- Do not have a history of cardiovascular disease (heart attack, stroke, coronary bypass surgery or angioplasty)
- Are not taking statins for high cholesterol
- Do not have untreated thyroid disease
- Have not had a kidney and/or pancreas transplant
- Have not been diagnosed with type 2 diabetes or prediabetes OR have had type 1 diabetes for at least 5 years
- Are not a nicotine user

The following compensation will be provided for each visit you complete:

- **Screening (Visit 1):** $50.00
- **Pre-clamp visit (Visit 2):** $50.00
- **Clamp study (Visit 4):** $200.00

If you are interested, please contact the study team at (303) 724-0308 or email haley.wise@ucdenver.edu