

### Purpose of this study:

To investigate the association of psychomotor abilities and balance performance in individuals with type 1 diabetes. Type 1 diabetic patients have been observed as experiencing poor balance, gait impairments and cognitive function. The cause of these debilitating symptoms is still unknown.

### What will you be doing?

#### Session 1

##### NeuroCom Testing



This machine will run different motor and sensory activities to analyze balance and reaction abilities.

##### Purdue Pegboard



The individuals will be asked to place pegs on the platform with their right, then left, then both hands for time.

##### Grooved Pegboard



Subjects will place pegs in a row and down a column for time with their right and left hand.

##### Digit Symbol Substitution Test

Digit:	1	2	3	4	5	6	7	8	9				
Symbol:	—	⊥	□	⊂	⊃	○	△	×	=				
Samples	2	5	7	1	2	Test	1	2	9	7	3	5	4
	⊂	⊃	△	—	⊥								
	1	4	3	5	9		6	8	1	2	4	2	

The paper and pencil task will ask the participants to fill in correctly coded symbols.

#### Session 2

##### Neuroimaging:



Structural MRI, functional MRI, and diffuser tensor imaging data will be collected using the Colorado State University scanning center.

Any questions?

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