Study Title: Walking with a Tethered Pelvic Assist Device (TPAD)

We are studying the walking pattern of children with spasticity using a device called the TPAD. This helps us learn how individuals walk with waist support or react to perturbations. We hope to use the TPAD in the future to train children with spasticity with difficulty walking and to develop programs to reduce falls.

Study Procedure

We are asking participants to:

- Walk on a treadmill on 2 different days, each daily session about 1.5 hours (30 minutes of total walking time).
- Wear reflective markers to record motion while walking
- Wear a pelvic brace over shorts

The child may or may not have minimal improvements in his or her walking after participation.
If you are interested in participating, please contact:

Rehabilitation and Regenerative Department

180 Fort Washington Avenue Suite 199
New York, NY 10032

- Isis E. Martínez, Study Coordinator at: 212-305-8894 or iem2106@cumc.columbia.edu

- Lauri Bishop, Research PT at: 212-305-6095 or lb2413@cumc.columbia.edu

- Vineet Vashista, Study Coordinator at: Vv2233@columbia.edu

OR the Principal Investigators:

- Sunil Agrawal, PhD at: sunil.agrawal@columbia.edu

- Heakyung Kim, MD at: hk2641@cumc.columbia.edu