

Participate in Research

Metformin for Motor and Cognitive Improvement in Children with Cerebral Palsy: A Feasibility Study



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TO ASK QUESTIONS OR FIND OUT IF YOUR CHILD IS ELIGIBLE, PLEASE CONTACT:

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Do you have a child diagnosed with cerebral palsy?

Consider participating in our clinical trial for a study drug called Metformin!

What is this study about?

We are doing a clinical trial to see if taking the study drug Metformin for 16 weeks can improve motor and thinking skills in children with cerebral palsy.

This study will be done at two different places in Toronto: Holland Bloorview Kids Rehabilitation Hospital (Holland Bloorview) and the Hospital for Sick Children (SickKids).

Who can participate?

We are looking for children between 5-18 years of age who:

- Have cerebral palsy with stiffness on both sides of the body
- Gross Motor Function Classification System (GMFCS) Level of II – V
- Able to communicate (verbal or non-verbal)
- Meet other safety and eligibility criteria

What's involved?

- Each child will be in the study for 48 weeks (11 months)
- Each child's motor skills and thinking ability will be initially tested and observed for 16 weeks (about 4 months) before they take metformin
- Taking the study pill (metformin) every day for 16 weeks (about 4 months)
- Each child will come back about 4-months after they stop taking metformin
- Sharing some medical information

At Holland Bloorview:

- Examinations with a study doctor and research physiotherapist and 3 blood draws

At SickKids:

- MRI pictures of your child's brain (1 hour per session)
- Tests to measure thinking ability (~ 90 minutes)

Potential Risks?

- Metformin is generally a safe drug, but does have some side effects associated with it such as diarrhea, stomach pain, feeling weak, and muscle pain
- Blood draws may cause some pain, light-headedness, and bleeding or bruising
- Physical exam with study doctor may be uncomfortable

Participants will be reimbursed for parking or TTC expenses for each study visit at Holland Bloorview & SickKids.

Participants will also receive a \$100.00 gift card three times throughout the study in recognition of their time commitment.

For more information and to find out if your child is eligible to participate, please contact the study team at Holland Bloorview.