

Virtual BCI - Play games using thought

Join us for the Brain-Computer Interface (BCI) Pilot Program from home



What are Brain-Computer Interfaces?

Brain computer interfaces (BCIs) are computer systems that take brain signals and translate them into commands. Users control BCIs by thinking about specific things such as imagining your favourite place, singing a song in your mind or imagining movement (e.g. closing and opening fist). Through practice, the BCI learns the specific patterns of your brain to perform a task, such as controlling music or playing a game. For example, you could turn on your favourite YouTube video just by thinking.

How Does the Virtual BCI Program Work?

- This virtual program includes individual sessions at the hospital and in the home.
- Individual sessions include BCI set up, training and calibrating the computer system to each child followed up with home based virtual coaching.
- There will be some evaluation of your child's experience because you are helping us learn how to use BCIs practically in every day settings.
- There will be opportunity to choose different activities and games to play and practice while using the system.
- After training, a recreation program will be available to families based on interest.

This program is for individuals:

- with a physical disability that have restricted control of hand and arm movements
- with any range of communication - must be able to respond to yes/no questions (e.g. verbally, with a physical signal or with yes/no cards)
- that can understand cause and effect
- with an estimated developmental age of minimum 5 years

For more information & how to get involved

Please email: BCI@hollandbloorview.ca



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