

# Brain Computer Interface (BCI) Program

## General Information

[Glenrose Rehabilitation Hospital - Brain Computer Interface Program | Alberta Health Services](#)

“Brain-Computer Interfaces (BCI) are an emerging access technology. Non-invasive sensors worn on the head detect intentional brain activity patterns. The BCI converts the brain activity patterns into commands to control devices. Unlike switches or eye gaze, BCI does not rely on physical movements.

The Brain-Computer Interfaces (BCI) Program is a clinical and research program. It serves both children and adults. The program connects patients with BCI to achieve functional goals and enable participation. Patients use BCI to control:

- Toys
- Video games
- Smart home devices
- Power wheelchairs
- Functional Electrical Stimulation (FES) units”

You will be paired with a clinician to see encounters such as:

- Exploratory sessions
- Assessment
- Consultation
- Training
- Group sessions

**Please contact Corinne Tuck (OT) ([corinne.tuck@albertahealthservices.ca](mailto:corinne.tuck@albertahealthservices.ca)) at least 48 hours prior to your scheduled time in the BCI program to discuss your learning goals and what might be available to see.**

Note: Some sessions are scheduled in an OUTREACH setting. You can arrange your own transportation to the location, or get a ride from the BCI team from the Glenrose and back – please arrange in advance if needed.

### **Rosecrest Home**

10205 134 Ave NW  
Edmonton, AB T5E 1J2  
780-427-0927

### **Elves Child Development Centre**

10825 142 Street NW  
Edmonton, AB T5N 3Y7  
780-454-5310

## Chart Review Prior to Clinic

## Brain Computer Interface (BCI) Program

How much time (approximately) to allow per patient for chart review:	N/A
Which documents to review:	N/A
<b>When and Where to Meet Preceptors</b>	
Please plan this with Corrine Tuck <a href="mailto:corinne.tuck@albertahealthservices.ca">corinne.tuck@albertahealthservices.ca</a>	

### **Paperwork during and after patient encounters:**

It is not expected that you will generally have paperwork to complete in this setting. However if there is a need for that, identified either by you or your preceptor, please discuss the expectations at that time.