SickKids®

Ophthalmology & Vision Sciences

Visual Electrophysiology Unit (VEU) Services

For your appointment

Please bring:



- Health card
- Eye glasses or prescription
- Sunglasses or hat
- Snacks

Do not:



- Use Atropine drops before appointment if prescribed

Important Information:



- Cellphone use is not acceptable during testing. Cellphone use can interfere with test recordings and impact test results.
- Please provide 48 h notice of any cancellation/reschedule request. Please use MyChart to view your appointments and E-Check In.
- If there is more than 1 test booked in VEU, they will be done together; combined tests can take up to 3 hours.
- Test results take time to review and will be sent to the referring physician in 3-6 weeks. Test results are not uploaded to MyChart



For any testing related questions, please contact: visualelectrophysiology.unit@sickkids.ca

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Visual Electrophysiology Unit

Visual Evoked Potential (VEP)

Flash VEP | Pattern VEP | Multichannel VEP (mcVEP)

A VEP measures a signal from the visual centre, at back of the head, to patterns or flashes

1 hr testing

Before Testing (20 minutes)

1. Eye history, eye exam, and colour vision testing

Setup (5-10 minutes)

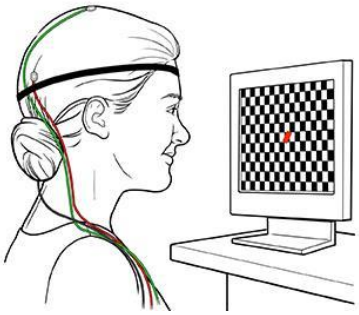
1. The patient is seated in the testing room
    - Young children and infants can be seated on their parent's lap
    - Some children can be tested in their stroller or wheelchair
2. A skin-electrode is placed at the center of the forehead, top of the head, and 1-5 are put on the back of the head with paste, after cleaning with exfoliating gel
3. A self-adhering wrap is placed around the head to keep electrodes in place
4. Glasses are worn, if prescribed



Skin-Electrode

Testing (10-30 minutes)

1. The patient must sit at a specific distance from the pattern or flash
2. Recordings are taken from both Eyes, and one eye at a time
    - When testing one eye the other eye is covered with an eyepatch
3. When finished, the paste is cleaned and the patient can continue with their other appointments or leave



VEP testing setup

- ❖ The patient must be awake, focused, and cooperative for testing
- ❖ Electronics or toys may be used to help children focus and stay calm between test recordings
- ❖ 1-2 people can keep the patient company and help encourage or support testing