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:



- Wear contact lenses
- 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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Pattern Electroretinogram (PERG)

The PERG measures from the center of the eye, using different-sized patterns


1 hr testing


Eye drops given

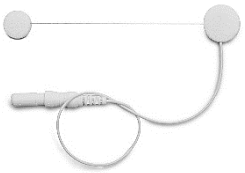
Pre-pERG (20 minutes)

1. History, eye exam, and colour vision testing

pERG Setup (5 minutes)

1. The patient is seated in the testing room
2. A skin-electrode is taped to the center of the forehead and at the outside corner of the patient's eyes with some paste, after cleaning with an exfoliating gel
3. 1 eye drop is given to each eye
4. A string-electrode is placed across the eyes, with a sticker at each corner of the eye
5. Glasses are worn, if prescribed


Skin-Electrode


String-electrode

pERG Testing (15-20 minutes)

1. The patient must sit on at a specific distance from the screen
2. The patient must look at the pattern on the screen, be still, calm, and not blink too much
    a. After the first 2 patterns are tested, the patient is moved closer for the last pattern
3. When competed, the paste is cleaned and the patient can continue with the next appointment or leave



❖ Keeping the head and eyes straight and not blinking is important for this test