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
- Drive after testing

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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Multi-Focal Electroretinogram (mfERG)

The mfERG maps out how the center of your eye is working in normal lighting with a large pattern

1 hr testing

Eye drops given

Pre-mfERG (20 minutes)

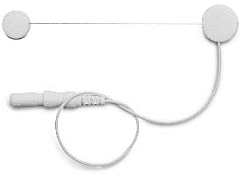
1. History, eye exam, and colour vision testing
2. 3+ drops for each eye, to open the pupils
3. 20 min wait before patient is moved to the testing room

mfERG Setup (5 minutes)

1. The patient is seated in the testing room
2. An 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



Skin-Electrode



String-electrode

mfERG Testing (35 minutes)

1. The patient must place their chin on the headrest and look towards the center to the screen, marked by an 'X'
2. The test is recorded for 30 sec at a time
    a. During the 30 sec, the patient will have to stare that the middle of the screen without blinking while the pattern quickly changes.
    b. When the pattern stops, the patient can rest until they are ready for the next 30 sec of the test
3. The test is complete when there is a total of 10 min recorded
4. When completed, the paste is cleaned and the patient can continue with their next appointment or leave



headrest and testing Screen

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