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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Hand-Held Electroretinogram (ERG)

The hand-held ERG measures how your whole eye functions during dark-adapted (nighttime) and light-adapted (daytime) conditions, without drops

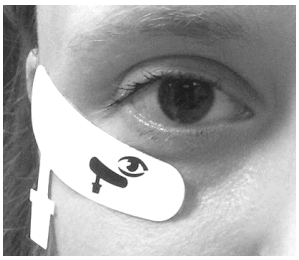
1 hr testing

Pre-ERG (20 minutes)

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

ERG Setup (5 minutes)

1. The patient is seated in the testing room
2. A sticker-electrode is placed under the eye after cleaning with an exfoliating gel
3. The eyes are covered by eyepatches (if able) and the patient sits on the dark for 15 to 20 min before testing.



Sticker Electrode

ERG Testing (20 – 40+ minutes)

1. The right eye is tested first in the dark, then the left Eye
    a. The patient must look into a very small bowl of a handheld device placed over their eye
    b. The eye must be open and flashes will only be recorded and measured if the eyes stay in the camera's view
2. The lights in the room will be turned on and the patient must adjust their eyes for 5 to 10 minutes
    a. The right eye will be tested first, then the left eye
3. When the test is completed, the stickers are removed and the patient can continue with other appointments or leave.



Testing with Hand-Held ERG

- This ERG is extremely sensitive to eye and face movement – good cooperation is required for testing