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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Electroretinogram (ERG)

The ERG measures how your whole eye functions during dark-adapted (nighttime) and light-adapted (daytime) conditions

1 hr testing

Eye drops given

Pre-ERG (20 minutes)

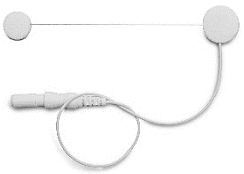
1. Eye history, eye exam, and colour vision testing
2. 3+ drops for each eye, to open the pupils

ERG 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. The eyes are covered by eyepatches and the patient sits in the dark for 20 min
4. After 20 min, 1 eye drop is given to each eye
5. A string-electrode is placed across the eyes, with a sticker at each corner of the eye



Skin-Electrode



String-electrode

ERG Testing (35 minutes)

1. The patient must place their chin on the chinrest and look into a bowl for the test, with their head straight
2. Flashes are recorded and measured, while in the dark
3. The patient adjusts their eyes to light in the bowl for 10 minutes with no flashes and the chin still on the chinrest
4. After 10 min, flashes are recorded and measured with the light on
5. When completed, the paste is cleaned and the patient can continue with their next appointments or leave



Testing bowl

❖ Keeping the head and eyes straight and not blinking helps the test run quickly