

Electrocochleography (ECOG)

Patient Information

You have been scheduled for an ECOG test. This test is an objective measure of the integrity of a portion of the auditory system. The test provides diagnostic information that is used to determine the cause of auditory problems such as hearing loss, tinnitus, fullness, dizziness etc. During the ECOG, we analyze the electrical activity in the inner ear (cochlea) where the nerve endings for the auditory system are located. **DO NOT** use make up the day of testing.

The electrical activity from the inner ear and the auditory nerve is picked up by electrodes and later analyzed on the computer. When analyzing the response, we look for specific patterns that indicate normal transduction of sounds into the electrical activity. Different auditory disorders (such as Meniere's syndrome) alter the ability of the inner ear to transmit sound waves into neural information in characteristic ways.

During testing, electrodes are placed on your ears and next to your eardrum. A series of loud clicks are delivered to your ears through insert earphones. You will not need to respond. The best results are obtained if you are relaxed. You may even take a nap during the test. Reading is not permitted. The entire procedure takes approximately one hour. The results are analyzed by the audiologist and discussed with the doctor. You should schedule a follow up appointment to obtain these and any other results from your doctor.

Should you have any further questions about the ECOG testing, please do not hesitate to call our office.