

# NeuroDevelopment Center

245 Waterman Street, Suite 200

Providence, RI 02906

## QEEG EVALUATION

Patient Name \_\_\_\_\_ Gender \_\_\_\_\_ Date \_\_\_\_\_

Date of Birth \_\_\_\_\_ Handedness \_\_\_\_\_

Medication

Dosage

Last Date Taken

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Head Injury \_\_\_\_\_ Yes \_\_\_\_\_ No

Loss of Consciousness \_\_\_\_\_ Yes \_\_\_\_\_ No

Convulsions \_\_\_\_\_ Yes \_\_\_\_\_ No

Substance or Drug Abuse/Addiction \_\_\_\_\_ Yes \_\_\_\_\_ No

Memory Difficulties \_\_\_\_\_ Yes \_\_\_\_\_ No

Confusion \_\_\_\_\_ Yes \_\_\_\_\_ No

Depression \_\_\_\_\_ Yes \_\_\_\_\_ No

Thought Disorder \_\_\_\_\_ Yes \_\_\_\_\_ No

Learning Disability \_\_\_\_\_ Yes \_\_\_\_\_ No

Hyperactivity, Attention, or Impulse Control \_\_\_\_\_ Yes \_\_\_\_\_ No

Autism Spectrum Disorder \_\_\_\_\_ Yes \_\_\_\_\_ No

(Asperger's, PDD, Autism, NLD)

## **Preparing for your QEEG:**

**It is critically important for obtaining a valid quantitative EEG study of brain function that you follow the steps below prior to your QEEG recording. The brain mapping results are only as good as the recording, so it is imperative that you carefully follow each of the steps below:**

If you are taking stimulant medication, it is preferable to do the QEEG recording after a 48-hour medication washout. Please check with your prescribing physician to determine if it is possible to stop taking the stimulants 48 hours prior to recording the QEEG. Do not make changes in any other medication, but be sure to bring medication type and dosage information to provide to the technician to record before the QEEG is done.

- Avoid taking any over the counter medication or supplements for three to four days prior to the QEEG.
- Do not drink coffee, tea, red bull, caffeinated soft drinks, or any other substance with caffeine less than 15 hours prior to the QEEG.
- Call to reschedule the QEEG if you are ill. We do not want to conduct the recording, even if you only have a cold.
- Be sure to get a good night's sleep before the QEEG is done. Let the technician know if there has been any sleep disturbance.
- Drink plenty of water the day before the QEEG recording to hydrate the skin.
- The **evening before your QEEG**, wash your hair 3 times with a pH neutral shampoo, such as Neutrogena non-residue shampoo (available at CVS). Do not use crème rinse or any other hair products on your hair until after your appointment. Do not wash your hair again in the morning of your appointment.
- Make sure hair is completely dry before coming for the QEEG.
- Do not put any products on your hair such as hair spray or gel of any kind the morning of your mapping.
- Use the restroom if you need prior to the start of the QEEG because we will not be able to stop once the recording begins

For younger children: The application of the electrode caps takes approximately 15-20 minutes. During this time, kids can choose to play Gameboy or to watch a DVD. They will need to sit patiently without any other activity during the actual recording, so we want to keep them engaged and enjoying themselves during the preparation time to reduce the likelihood of restlessness during the recording. Ask your child which he/she would prefer (gameboy or DVD) ahead of time. If it is a DVD, you may want to rent one he/she is especially interested in and bring it along or bring a favorite from home. We also have a selection of kids DVD's here at the Center.

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## Insurance Coverage of qEEG and Neurofeedback Services

Unfortunately, our professional services in providing qEEG and neurofeedback are not covered by any of the insurers we provide for. In most cases, biofeedback is an excluded service under the terms of the contract. In other cases, biofeedback may be covered only as a medical service and only for medical problems such as pelvic floor disorder.

EEG services are covered when provided by a physician to diagnose a medical neurological disorder. The physician must be physically present in the facility where the recording is done. Because we use EEG for the purpose of guiding neurofeedback, it is considered incidental to a non-covered service and therefore is not covered.

Sometimes our clients have called their insurers and have been misinformed that one of these services is covered by their policies. On every occasion, this has been due to a misunderstanding. We have been providing these services for 17 years now and have had the opportunity to investigate for every insurer we accept. **Neither qEEG nor neurofeedback are covered services when performed by non-medical personnel. Under no circumstances will we submit claims to insurers.**

Because these services are not covered, you are personally responsible. We ask that you pay for each visit at the time of service or for multiple visits using a package plan.

Please acknowledge by signing below that you have read and understand these policies and agree to accept all financial responsibility and pay for each service at the time it is provided.

Print name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## **qEEG Consent Form**

The quantitative Electroencephalogram (qEEG) is an assessment procedure used along with other data to guide the neurofeedback process. It differs from a medical EEG when performed or ordered by a neurologist in that it is not being used to diagnose any medical condition.

Although a substantial body of the qEEG research has been completed showing a significant relationship between qEEG measures and multiple dimensions of function such as mood and attention, and between qEEG measures and several diagnostic groups, qEEG has not yet achieved the endorsement of the medical community as a whole. For this reason, some medical professionals may consider it experimental or investigative. Neither the EEG acquisition hardware nor the normative reference database used to analyze the EEG data statistically has obtained FDA approval.

Many factors unrelated to brain activity can influence or alter the EEG. These factors, such as muscle tension, eye or tongue movements, sneezing, swallowing, or head movements, as well as psychoactive medications, are called artifacts, since they have an impact on the EEG recording but do not represent brain activity. Our technician will work with you or your child to reduce these sources of artifact. Sometimes, however, it is not possible to eliminate them completely. Our technician can usually determine if the recording will be adequate for purposes of analysis. He will discontinue the recording if useful results could not be obtained. But even with artifact present, it is most likely that there will be ample useful data for analysis.

The procedure will take approximately one hour to complete. The recording will involve placing on the head an elasticized cap that contains embedded sensors. A conductive gel is injected into a well in the sensors. This gel conducts the electrical activity or brainwaves measured at the scalp, which is conveyed to the computer for offline analysis. This is a noninvasive and essentially painless procedure. During the preparation, a q-tip will be used to clean the scalp with a soft abrasive substance. Some redness or irritation may occur from this process that will go away in a few hours. We will then gather data under two conditions-with eyes open and fixed on one location, and with eyes closed. Other than the redness and irritation mentioned above, there are no known risks to EEG acquisition.

By signing below, you indicate your understanding of the procedure and its purpose and any risks involved and provide your consent for the qEEG recording.

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Name of Patient

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Signature of Person Responsible

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Date