



EEG and Quantitative EEG

A specialty CRO with expertise in neurophysiology

Phase I Units

Clinilabs' phase 1 unit in New York City is well-suited to support electroencephalographic (EEG) and quantitative electroencephalographic (QEEG) studies. Our facility is equipped with 15 Grass brand diagnostic EEG systems that permit the recording of routine EEG tracings using standardized and customized montages. These high quality, digital tracings can be subjected to manual review for the detection of seizure activity, a common element in "seizure safety" studies. Quantitative EEG studies may be performed using Grass brand or Neuroscan (Compumedics) systems, the latter providing state-of-the-art data acquisition and QEEG analysis using NuAmps amplifiers and Curry 7 software. High density electrode placements provide a wide array of options for QEEG recording and brain mapping. One exceptional aspect of our NYC phase 1 unit is our staff. Studies conducted on our unit are supported by experienced EEG technicians, board-certified neurologists, and nurses who have conducted EEG and QEEG studies in normal healthy subjects and patient populations.

EEG Biomarkers

Quantitative EEG data can be used as biomarkers in early phase drug development in a variety of therapeutic areas, and are particularly relevant to the development of CNS active drugs. Our systems and analyses provide information related to Delta (Δ), theta (Θ), alpha (α), beta (β), and gamma (γ) band frequencies. We also collect and analyze event-related potentials (ERPs), such as P-100, P-200, and P-300 signals.

Centralized EEG and QEEG

Clinilabs' core data center is a leader in the centralized processing of EEG and QEEG data obtained in global, multicenter trials. We deploy the latest neurophysiological recording equipment, which is specially configured for each study and investigator site. Data collected at the investigator sites are electronically transmitted to our secure data center, so that tracings can be read by our team of board-certified neurologists. Quantitative EEGs are processed by an expert team of neurophysiologists using validated digital technology. We have successfully completed multiple trials, supporting the development of numerous CNS compounds.

Specialty Procedures

- Electroencephalography (EEG)
- Quantitative electroencephalography (QEEG)
- Sleep and wakefulness detection
- High density electroencephalography
- Photic and auditory stimulation
- Event related potentials
- Power spectral analysis