

Courtagen's rxSEEK™ Epilepsy



Epilepsy

Drug Metabolism for Epilepsy and Seizure Disorders

Detect Anti-Epileptic Drug Compatibilities and Interactions

Early identification of individual's susceptibility to adverse effects of anti-epileptic drugs (AEDs) provides powerful information to physicians in determining an effective course of treatment. Additionally, recent research has suggested that patients who experience fewer side effects are more likely to comply with therapy regimens. Adverse effects account for 11% of non-adherence to drug therapy programs (PMID: 25258521). Side effects from AEDs are not uncommon. About 61% of individuals using these drugs report an adverse effect, increasing the rate of treatment failure (PMID: 16238706).

rxSEEK™ Epilepsy tests an individual's ability to metabolize anti-epileptic drugs (AEDs) based on the haplotype sequence of certain liver enzymes involved in drug and chemical metabolism. The report contains:

- Easy-to-read classification of the common anticonvulsants and benzodiazepines used according to the patient's metabolism profile for each drug
- Dosing guidance for each drug, including potential interactions with other drugs (efficacy and/or toxicity)

Anti-Epileptic Drugs Reported

- Cannabidiol (Epidiolex)
- Carbamazepine (Tegretol, Carbatrol)
- Eslicarbazepine Acetate (Aptiom)
- Ethosuximide (Zarontin)
- Ezogabine (Potiga)
- Felbamate (Felbatol)
- Fosphenytoin (Cerebyx)
- Gabapentin (Neurontin)
- Lacosamide (Vimpat)
- Lamotrigine (Lamictal)
- Levetiracetam (Keppra)
- Oxcarbazepine (Trileptal)
- Perampanel (Fycompa)
- Phenobarbital (Luminal)
- Phenytoin (Dilantin)
- Pregabalin (Lyrica)
- Primidone (Mysoline)
- Rufinamide (Banzel)
- Stiripentol (Diacomit)
- Tiagabine (Gabitril)
- Topiramate (Topamax)
- Valproic Acid (Depakote, Depakene)
- Vigabatrin (Sabril)
- Zonisamide (Zonegran)

Courtagen provides saliva DNA specimen collection kits at no charge. Questions? Contact our Patient Advocates.

P 877.395.7608 | F 617.892.7192 | email: genomics@courtagen.com | www.courtagen.com

Courtagen's Unmatched Customer Support

Turn Around Time: 2-4 weeks. Results are delivered in weeks, not months.

Saliva Sample: DNA for sequencing is reliably extracted from a single saliva sample. No blood draw or muscle biopsy required; however blood and muscle tissue are accepted. No charge saliva kits are provided, no charge phlebotomy services are offered.

Insurance Assistance: Courtagen works with patients, physicians, and insurance carriers to pre-approve each test. Courtagen will bill the insurance company and is willing to handle an appeal process as needed.

Courtagen Care Financial Assistance Program: Provides financial assistance to patients based on demonstrated financial need. A qualified applicant may be asked to contribute between \$0 and a maximum cost sharing of \$200 depending on determination of financial need.

Online Portal: A secure physician online portal is available for ordering genetic tests and accessing patient reports when completed.

Genetic Counselors: Available to address your questions regarding Courtagen test results. Contact us at clinical@courtagen.com.

Clinical Experience: Courtagen's Medical Director, Laboratory Director, and variant science team have over 25 years of experience in the treatment and genetic interpretation of neurological and metabolic disorders.

Reports: Utilizing Courtagen's customized ZiPhyr® informatics pipeline and thorough clinical evaluation, each report is provided in a concise format with interpretation and recommendations for consideration.

Data and DNA Security: Advanced IT solutions safeguard patient records and financial information. In the laboratory, Courtagen de-identifies patient and test records and uses the proprietary method of DREAM PCR to provide exceptional lab decontamination.

Required forms

Courtagen Test Requisition (completed and signed by ordering clinician)

Signed Patient Consent (on the Courtagen Test Requisition or Consent Form provided in the saliva kit)

Photocopy front & back of all insurance cards (including subscriber date of birth)