



BanCAPs

Dr. Bansal's Child &
Adolescent Psychiatry
Services

WWW.BANCAPS.COM

Phone: 618-310-0085

Fax: 618-744-0677

Email: contact@bancaps.com

24B Professional Park Drive,

Maryville, IL - 62062

PHARMACOGENOMIC TESTING

Pharmacogenomics, or pharmacogenetics, is the study of how your genes affect your body's response to medications. The testing may reveal which medications are less likely or more likely to work, or have increased risk of side effects based on your DNA. This test adds value in flowing clinical scenarios:

- 1) Several medications have been tried as per treatment guidelines and they have been effective or partially effective.
- 2) Most medications tend to give you side effects.
- 3) Atypical response to medications.

This testing examines 2 kinds of genes: Pharmacodynamic genes and Pharmacokinetic genes.

Pharmacokinetics is how a body processes a drug including how the drug is absorbed, how it's distributed throughout the body, where it's distributed, how you metabolize the drug, and then eliminate it. Pharmacodynamics considers the complex interactions between the drug and your body and accesses how biological processes in the body respond to or are impacted by a drug. In simple words, pharmacokinetics is '*what the body does to the drug*' and pharmacodynamics is '*what the drug does to the body*'.

We examined 2 most widely used pharmacogenomic tests, Genomind (genomind.com) and Genesight (genesight.com). Genomind examines 24 genes (including 19 pharmacodynamic genes and 5 pharmacokinetic genes) and Genesight examines 14 genes (including 5 pharmacodynamic genes and 9 pharmacokinetic genes). We concluded that Genomind testing is much more comprehensive and informative but might also be costlier. More information about both these tests is available on their respective websites.

COST OF THE TESTING: It is difficult to predict how much the testing will cost you as its difficult to know how much of the total cost will be covered by your insurance. Genesight and Genomind provide you with that information before preforming the test. If insurance does not cover the cost at all, the maximum cost for Genomind is \$349 (price is \$399 but \$50 coupon can be applied by calling them) and \$330 for Genesight.



BanCAPs

**Dr. Bansal's Child &
Adolescent Psychiatry
Services**

WWW.BANCAPS.COM

Phone: 618-310-0085

Fax: 618-744-0677

Email: contact@bancaps.com

24B Professional Park Drive,

Maryville, IL - 62062

PROCESS:

- 1) We order the test for you.
- 2) You receive an email with a link that you use to go to the payment site and do the following: provide your shipping address, electronically consent to the test, upload a copy of your insurance card, pre-pay for the test (if applicable).
- 3) A kit will be shipped to you and you will collect your DNA by swabbing the inside of your cheek. No bloodwork or needles are involved
- 4) You will ship back the sample in the prepaid envelope
- 5) We will receive the results of the test in 4-5 days
- 6) We will share the results with you