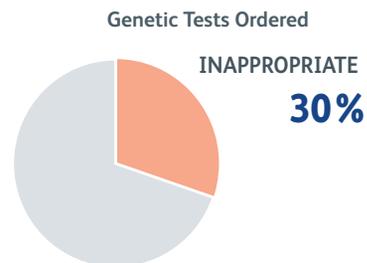
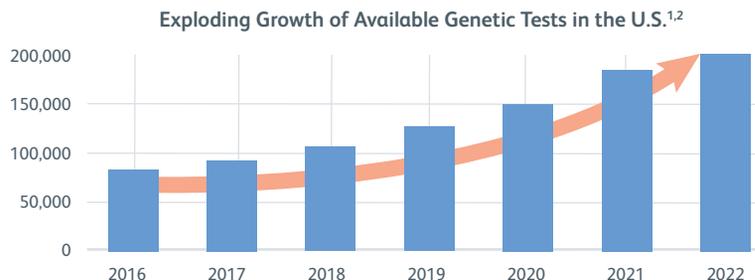


Did you know 30% of genetic tests are ordered incorrectly?

There are currently **60,000** genetic tests available in the U.S.^{1,2} with **20%** growth estimated over next 5 years. Healthcare systems and payers face an overwhelming burden of appropriate test selection due to the number of tests and the rapid advancement in genetic technologies. Inappropriate testing delays the appropriate clinical care for patients and wastes millions of healthcare dollars each year.



How can laboratory stewardship help?

Laboratory stewardship for genetic testing involves the case management of test orders by expert genetic counselors for medical necessity, clinical appropriateness, and cost-efficiency based upon established professional guidelines and payer specific requirements.

Benefits of case management



- Enables prompt and appropriate medical care
- Clinical expertise and genetic education available to providers
- Lowers costs by reducing incidence of inappropriate testing



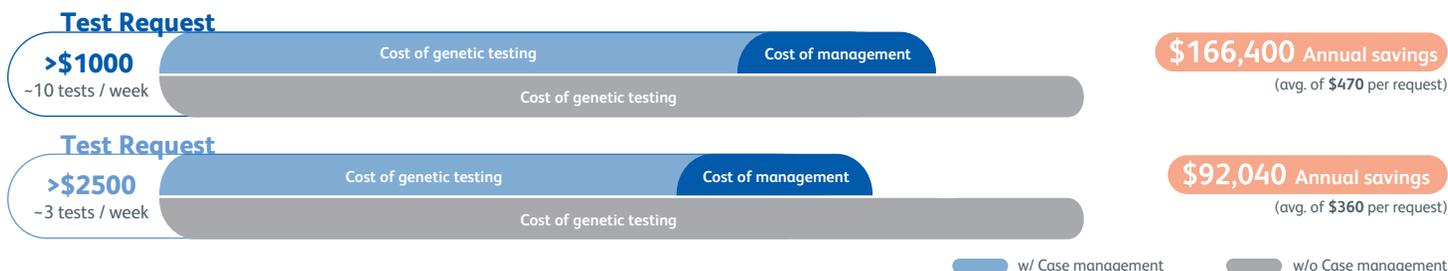
- Patient-centric approach avoids unnecessary testing
- Clarifies the diagnostic/prognostic genetic testing path
- Reduces out-of-pocket expenses



- Evidence-based recommendations
- Lowers costs while improving quality of care
- Ensures medical necessity and identifies cost-effective options

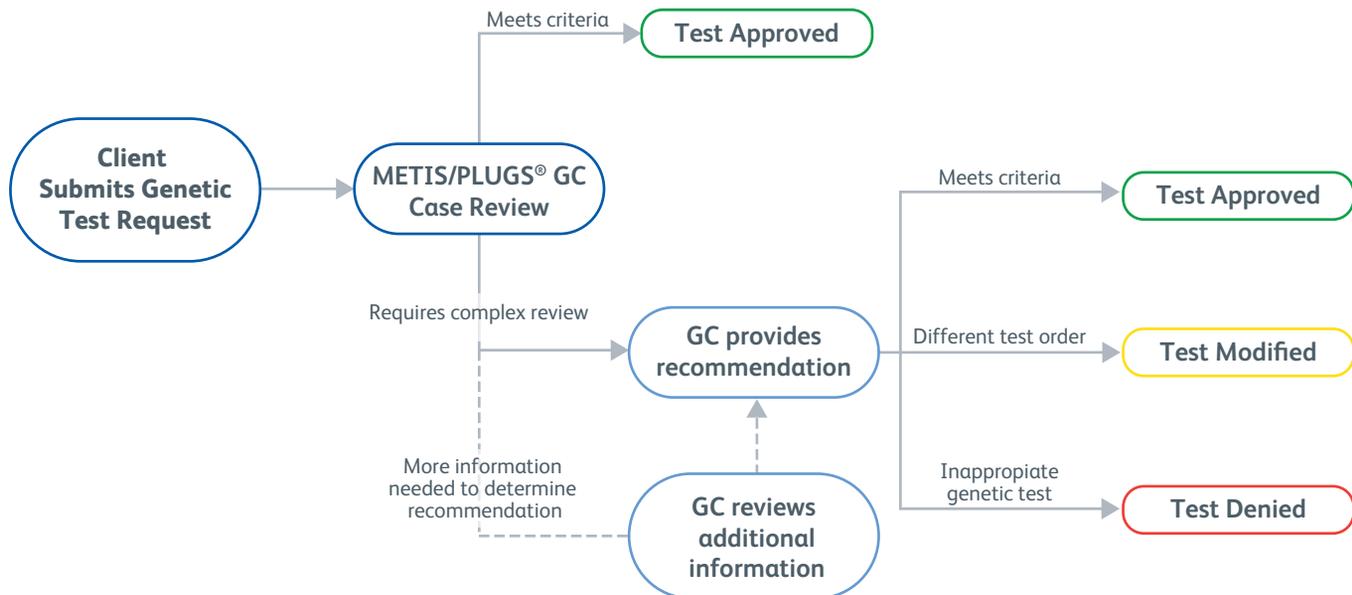
Estimated cost savings provided by laboratory stewardship.

After a thorough review of a case, genetic counselors will recommend modification on **~30%** of incoming orders with an average savings of **\$350** per review.⁴



1. www.GeneTests.org
 2. www.NextGxDx.com
 3. Miller CE, Krautscheid P, Baldwin EE, Tvrdik T, Openshaw AS, Hart K, Lagrave D. Genetic counselor review of genetic test orders in a reference laboratory reduces unnecessary testing. Am J Med Genet A. 2014; 164: 10094-1101
 4. Seattle Children's Hospital data collected September 2011 – September 2013 http://www.seattlechildrenslab.org/media/2952/PLUGS-Information-Brochure.pdf

How does the GeneTestAdvisor process work?



What does the genetic counselor consider during a case review?

- Was the correct test ordered?
- Is the test medically necessary?
- Can sequential testing be considered?
- Are there alternate tests that are more appropriate?
- Have the optimal test and reference laboratory been selected?
- Is insurance pre-authorization required?

Let GeneTestAdvisor increase the value of your genetic testing program.

With the combination of experience in case review and expertise in genetics, PLUGS® and Metis Genetics have joined together to create a case management solution for genetic testing to support healthcare systems and insurance payers in effectively administering their genetic testing caseload.

PLUGS®
 Patient-centered Laboratory
 Utilization Guidance Services



>4 years of utilization management experience
 Seattle Children's PLUGS program, founded in 2012, helps laboratories reduce costs and errors associated with unnecessary genetic testing by providing resources, expert advice, and a valuable peer network for members to develop sustainable utilization management programs.



National network of genetic counselors
 Using a national network of board-certified genetic counselors and our proprietary web-based platform, Metis Genetics enables easy and secure access to professional guidance that empower individuals to improve their health.