

## Introducing BRCAvantage™ Genetic testing for *BRCA1* and *BRCA2* available through Sonora Quest Laboratories

### Rely on BRCAvantage™ from Sonora Quest Laboratories when a *BRCA1* or *BRCA2* mutation is suspected

- Fast, economical testing can provide answers needed to make important treatment decisions
- Genetic counseling and pre-authorization services streamline the process and ease the workload in your office
- Patient educational materials are written with their questions and concerns in mind and can help you support your patient across the continuum of care

### Comprehensive Analysis and Interpretation

The BRCAvantage™ test is performed on a next generation sequencing platform in conjunction with Quest Diagnostics' proprietary software for data analysis to help ensure accuracy and confidence in the result. The test also employs the use of multiplex ligation probe amplification (MLPA) to detect large rearrangements. If a variant is identified, it is cross referenced with multiple mutational databases, ensuring a careful and complete clinical interpretation.

BRCA testing can be valuable for individuals 18 and older who have a strong family history of breast or ovarian cancer, or Ashkenazi Jewish lineage, where the frequency of a BRCA mutation is at least seven times higher than that found in the general population.<sup>1</sup> In certain cases with a strong family history, even men may benefit from testing.

## Is your patient at increased risk for hereditary breast or ovarian cancer (HBOC) syndrome, caused by a genetic mutation in *BRCA1* or *BRCA2*?

Compared to the general population, patients with a confirmed BRCA mutation have a greatly increased risk of developing cancer during their lifetime—up to an 85% risk of breast cancer, up to a 40% risk of ovarian cancer, and up to a 20% risk of prostate cancer. Their children, brothers, sisters, and parents have a 50% chance of possessing the same autosomal dominant mutation and facing comparable risks.<sup>2</sup>

Valuable genetic information can empower physicians and patients to help shape patient management. There's a need to know if a BRCA mutation is present, because proactive steps can be taken to mitigate the risk of cancer for the patient and family members both today and tomorrow. Initiatives can include aggressive surveillance and interventions that can greatly reduce the likelihood of developing various cancers.<sup>1,3</sup>

For any patient facing life-altering decisions impacting them and their family, education and consultation provided by the treating physician or a genetic counselor is the basis for informed consent, pre-genetic testing.<sup>4</sup>

### Lifetime Cancer Risk Associated with HBOC<sup>2,3,5,6</sup>

Breast Cancer				Ovarian Cancer		Prostate Cancer	
Women		Men		Women		Men	
General population	<i>BRCA1/2</i> mutation						
12%	≤ 85%	0.1%	≤ 6%	1%	≤ 40%	16%	≤ 20%

## Sonora Quest Laboratories is your partner across the Continuum of Care, empowering you and your patients with complete access to the technology, expertise and resources you need

Sonora Quest Laboratories is a leading provider of diagnostic information services that patients and clinicians need to make better health care decisions. We harness the diagnostic insights that the body reveals through laboratory testing to empower faster treatment, lower costs and favorable outcomes. More than 20,000 patients every day - nearly 7 million patients every year - benefit from our solutions and commitment to creating a healthier Arizona.

- A state-wide network of 70 Patient Service Centers that facilitates simple, convenient blood draws
- Complete screening, oncology and women's health test portfolios
- Educational resources for providers and patients

- Pre-authorization services for BRCAVantage™ testing that helps make BRCA testing more accessible
- Access to genetic counselors for patient and clinician support
- Timely turnaround

# Turn to Sonora Quest Laboratories for results that empower your patients and their families today and tomorrow

## Testing Economy and Efficiency

When it comes to cancer detection and treatment, timing can be critical—and the Sonora Quest Laboratories BRCA test portfolio is built around this principle.

The BRCAvantage™ Comprehensive Evaluation provides a simple, efficient, cost-effective way to get the most definitive answer by testing for all possible BRCA mutations with a single blood draw. This avoids concern about needing further testing or requiring additional test authorization.

Additionally, BRCAvantage™ offers clear and competitively priced testing options for each patient scenario—including single-site analysis for a known family variant, or mutations specific to those of Ashkenazi Jewish lineage—testing only what the patient needs.

## Access to Genetic Consultation

Genetic Counseling is an important part of BRCA testing. For physicians, we offer consultations to answer questions related to genetic testing and test selection. Many patients already have access to genetic counseling services through their primary healthcare provider. For those who don't, Sonora Quest Laboratories will link individuals considering genetic testing to a genetic counselor. Counselors will advise on benefits, limitations, risks and options associated with testing, and they will help explain what the results mean for the patient and the patient's family.

## Access to Pre-Authorization Concierge Service

Sonora Quest Laboratories requires completion of insurance pre-authorization prior to BRCA testing. Because many insurance plans have established specific criteria in order to cover and reimburse the cost of BRCA testing, we offer a pre-authorization concierge service to assist patients through the pre-authorization process. We will work with health plans on your behalf to determine if the test will be covered, and when necessary, provide an estimated out-of-pocket cost to help the patient make an informed decision on ordering or moving forward with testing.

*At Sonora Quest Laboratories, we are pleased to help make affordable, easily accessible BRCA genetic testing available to everyone. It's important to you and your patients, so it's important to us.*

**BRCAvantage™**



# Rely on Sonora Quest Laboratories when you and your patient need to know

## Sonora Quest Laboratories *BRCA1* and *BRCA2* Mutation Analysis Testing

Test Name	Test Code	Specimen Requirements	CPT Code(s)*
BRCAvantage™ Comprehensive ( <i>BRCA1</i> seq, <i>BRCA1</i> dup/del, <i>BRCA2</i> seq, <i>BRCA2</i> dup/del)	906369	4 mL whole blood collected in an EDTA (lavender top) tube	81211, 81213
BRCAvantage™ Ashkenazi Jewish Screen (specific mutations to Ashkenazi population in <i>BRCA1</i> and <i>BRCA2</i> )	906366	4 mL whole blood collected in an EDTA (lavender top) tube	81212
BRCAvantage™ Single Site (selected mutation in <i>BRCA1</i> or <i>BRCA2</i> )	906368	4 mL whole blood collected in an EDTA (lavender top) tube	81215, <i>BRCA1</i> variant; 81217, <i>BRCA2</i> variant
BRCAvantage™ Rearrangements ( <i>BRCA1</i> dup/del and <i>BRCA2</i> dup/del)	906367	4 mL whole blood collected in an EDTA (lavender top) tube	81213, 81479

\* The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.

A completed Sonora Quest Laboratories BRCA test requisition **MUST** be submitted with the sample in order for testing to be performed. Please contact us at 1.800.766.6721, ext. 5285 or email [SQLMarketing@SonoraQuest.com](mailto:SQLMarketing@SonoraQuest.com) to obtain BRCA test requisitions. Fax the completed BRCA test requisition to 1.855.422.5181 prior to sample submission to the laboratory.

BRCA testing will not be performed until Pre-Authorization or payment has been received. Please contact our Pre-Authorization Concierge Service at 1-866-GENE-INFO (866.436.3463) prior to sample collection.

## Additional Breast Cancer Testing from Sonora Quest Laboratories

- Breast pathology
- ER/PR, HER2 IHC and FISH, and Ki-67
- Comprehensive menu of IHC stains
- Comprehensive menu of blood and tissue-based testing, including:
  - DNA Cell Cycle/Ploidy
  - Serum-based tumor markers like CA27.29 and CA 15-3
  - CellSearch® Circulating Tumor Cells, Breast

For more information on genetic counseling and Pre-Authorization Concierge Services, please contact us at 866.GENE.INFO (866.436.3463). For more information about BRCA testing, speak to your Sonora Quest Laboratories Account Manager or visit [SonoraQuest.com/BRCA](http://SonoraQuest.com/BRCA)

### References

1. American College of Obstetricians and Gynecologists. ACOG Practice Bulletin No. 103: Hereditary breast and ovarian cancer syndrome. *Obstet Gynecol.* 2009;113:957-966. 2. Cancer.Net. American Society of Clinical Oncology (ASCO). Cancer.Net Editorial Board, Feb 2010. Available from: <http://www.cancer.net/cancer-types/hereditary-breast-and-ovarian-cancer>. Accessed August 6, 2013. 3. National Comprehensive Cancer Network. NCCN clinical practice guidelines in oncology. Genetic/familial high-risk assessment: breast and ovarian. V4.2013. [http://www.nccn.org/professionals/physician\\_gls/pdf/genetics\\_screening.pdf](http://www.nccn.org/professionals/physician_gls/pdf/genetics_screening.pdf). Accessed August 15, 2013. 4. The American Society of Breast Surgeons. Position Statement on BRCA Genetic Testing for Patients With and Without Breast Cancer. Revised by The American Society of Breast Surgeons Research Committee and approved by the Society's Board of Directors September 30, 2012. Available from [https://www.breastsurgeons.org/statements/PDF\\_Statements/BRCA\\_Testing.pdf](https://www.breastsurgeons.org/statements/PDF_Statements/BRCA_Testing.pdf). Accessed August 10, 2013. 5. American Cancer Society. Ovarian Cancer. Last Medical Review: 03/21/2013. Last Revised: 03/21/2013. Available from: <http://www.cancer.org/cancer/ovariancancer/detailedguide/ovariancancer-key-statistics>. Accessed August 2, 2013. 6. American Cancer Society. Prostate Cancer. Last Medical Review: 02/27/2012. Last Revised: 08/15/2013. Available from: <http://www.cancer.org/cancer/prostatecancer/detailedguide/prostate-cancer-key-statistics>. Accessed August 2, 2013.

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