REFERENCE GUIDE



Testing for Hereditary Breast and Gynecologic Cancer

Hereditary Cancer Risk Assessment and/or Testing Are Recommended By: American College of Obstetrics & Gynecology (ACOG)¹

American College of Medical Genetics and Genomics (ACMG) & National Society of Genetic Counselors (NSGC)³ US Preventive Services Task Force (USPSTF)²

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)⁴⁻⁵

GUIDELINES RECOMMEND GENETIC TESTING IF YOUR PATIENTS HAVE PERSONAL OR FAMILY HISTORIES OF ANY OF THE FOLLOWING SIGNS^{*} OF HEREDITARY CANCER:



MULTIPLE CANCERS

- > 2 or more primary cancers in the same person
- > 3 or more cancers on the same side of the family



EARLY-ONSET CANCERS

> Breast cancer diagnosed before 50

> Uterine cancer diagnosed before 50



RARE CANCERS

- > Triple negative breast cancer
- > Male breast
- > Ovarian
- > Pancreatic
- > Metastatic prostate



ANCESTRY

> Ashkenazi Jewish with breast cancer

HEREDITARY CANCER TESTING OPTIONS*



CancerNext®

39-gene test addressing the most common hereditary cancers; National consensus management guidelines provide recommendations regarding risk management for **all genes** in the panel⁴⁻⁵

19-gene test addressing hereditary

breast and gynecologic cancers;

National consensus management

Option to add 7 additional limited

guidelines provide recommendations regarding risk management for **all**



BRCANext[®]

genes on the panel⁴

evidence genes**



BRCAPlus®

13-gene STAT test addressing hereditary breast cancer risk; National consensus management guidelines provide recommendations regarding risk management for **all genes**⁴

*Additional testing options available **Genes are considered "limited evidence" if association with cancer has been suggested but not confirmed due to limited evidence. Management guidelines are not available regarding risk management.

Add +RNAinsight[®] for More Accurate Results⁶⁻¹⁰

Identifies more positive results

Reduces variant of uncertain significance (VUS) rate

Helps address evidence gaps in non-White populations

+RNAinsight Product Overview

- Has no impact on turnaround time or out-of-pocket cost to patient
- Is available for all tests except for BRCAPlus®
- Kit includes 1 EDTA tube (DNA) and 1 PAXgene® tube (RNA)

References

- 1. ACOG COMMITTEE OPINION, Number 793. Obstet Gynecol. 2019
- 2. US Preventive Services Task Force. (2019). BRCA-related cancer: risk assessment, genetic counseling and genetic testing
- 3. Hampel H, ACMG, NSGC, et al., Genetics in Medicine. 2014
- 4. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Genetic/Familial High-Risk Assessment: Breast, Ovarian, and Pancreatic. V1.2025. ©National Comprehensive Cancer Network, Inc. 2024. All rights reserved. Accessed September 13, 2024. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way.
- 5. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Genetic/Familial High-Risk Assessment: Colorectal, Endometrial, and Gastric. V2.2024 ©National Comprehensive Cancer Network, Inc. 2024. All rights reserved. Accessed October 19, 2024. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way.
- 6. Landrith T et al. npj Precision Oncology. 2020.
- 7. Karam R et al. JAMA Network Open. 2019.
- 8. Horton C et al. NPJ genomic medicine. 2022.
- 9. Horton C et al. JAMA Oncology. 2023
- 10. Horton C et al. Expanding the reach of paired DNA and RNA sequencing: Results from 450,000 consecutive individuals from a hereditary cancer cohort; (Oral Presentation Session 84 Strategies to Interpret Germline Variants in Cancer Predisposition Genes). Presented at the Annual Meeting of The American Society of Human Genetics, November 68, 2024, in Denver, CO.

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5%

Patients Impacted⁹

RNA evidence has been useful for 5% of hereditary cancer testing patients at Ambry.

~1/25

Positive Patients Would Be Missed Without +RNAinsight^{®10}

Results without +RNAinsight would be missed or inconclusive