

Hereditary Gastrointestinal Cancer Testing

REFERENCE GUIDE



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There is no room for doubt when it comes to making important life impacting healthcare decisions. By providing advanced confirmation genetic testing for hereditary gastrointestinal cancer, we can help you make more informed and reliable healthcare decisions with your patients.

The more accurate the results,
the more insight you have to
better treat your patients.



American College of Gastroenterology

A family history of cancer and premalignant GI conditions that provides sufficient information to develop a preliminary determination of the risk of a familial predisposition to cancer should be obtained for all patients being evaluated in outpatient gastroenterology and endoscopy practices. Genetic testing should be conducted in the context of pre- and post-test genetic counseling to ensure the patient's informed decision making.

Adapted from Am J Gastroenterol, 2015.

Why Is Genetic Testing Important?

KEY BENEFITS

Identifying patients with a genetic predisposition to cancer can allow informed recommendations and personalized medical management that significantly decrease cancer risks and improve overall survival rates.

Option to modify frequency and initial age of colonoscopy and other screening

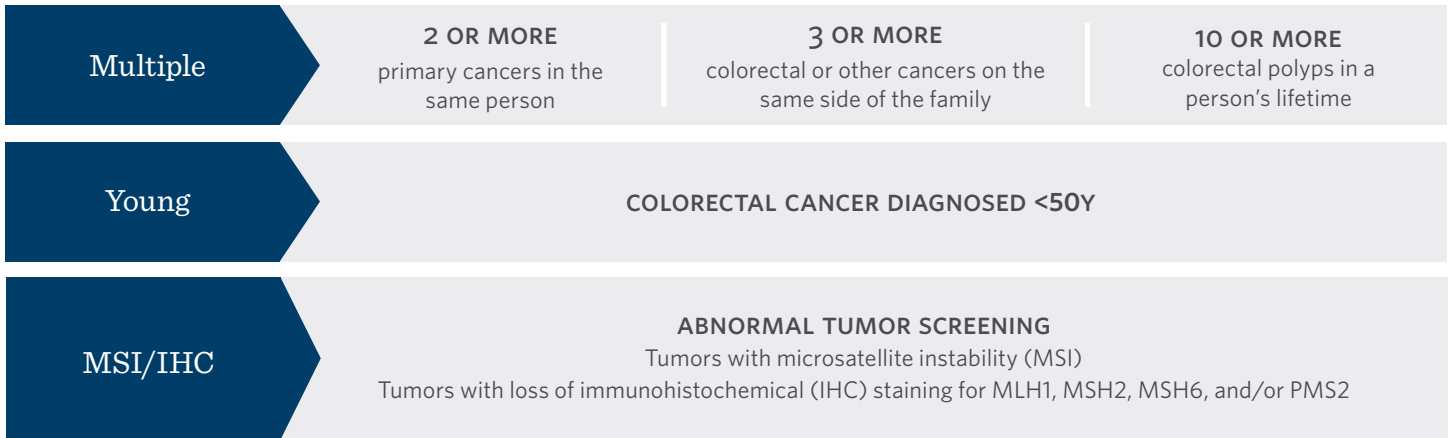
Consideration of prophylactic colectomy or other risk-reducing measures, as appropriate

Option to tailor chemotherapy strategies and/or determine eligibility for clinical trials

Identify at-risk family members

Identify Patients Who May Need Genetic Testing

If your patient or their family members have any of the following signs* for hereditary cancer, consider genetic testing:

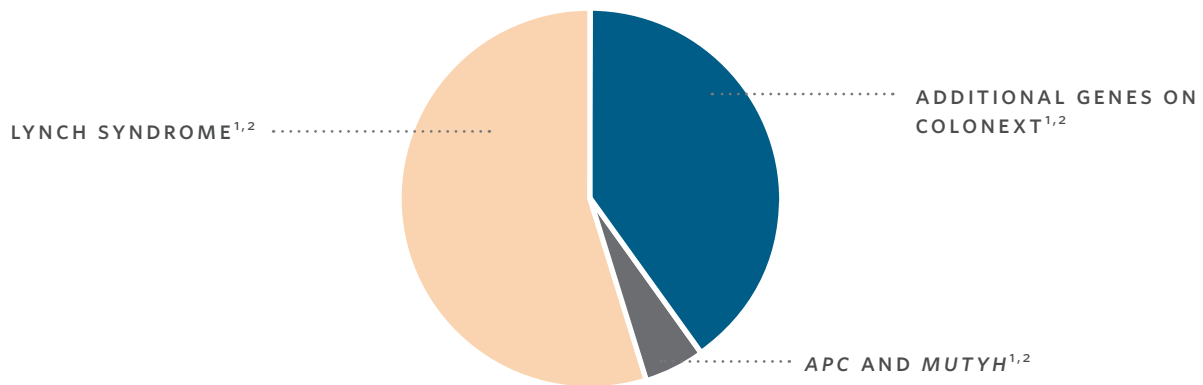


* Adapted from published genetic testing guidelines

Known Causes of Hereditary Colorectal Cancer

ORDERING THE RIGHT TEST CAN PROVIDE THE MOST ACCURATE AND COMPREHENSIVE ANSWERS

Over 135,000 cases of colorectal cancer are diagnosed each year, and about 5-10% of those are hereditary. Lynch syndrome accounts for the majority of hereditary colorectal cancer cases, but only tells part of the story.



Ambry collaborated in a study of >500 patients with colorectal cancer, in which 10.4% were identified by ColoNext to have a pathogenic mutation linked to increased cancer risks, which can have significant implications for medical management recommendations.¹

1. Cragun D, et al. *Clin Genet* 2014.
2. Ambry internal data

Finding Answers Through Quality Genetic Testing

Ambry's hereditary gastrointestinal cancer testing options:

| Test | Description | Average Turnaround Time* |
|------------|--|--------------------------|
| ColoNext | Providing more precise information to identify patients with hereditary colorectal cancer and guide personalized medical management recommendations NCCN® management guidelines available for all genes | 14.6 calendar days |
| PancNext | Providing information to identify patients with hereditary pancreatic cancer NCCN® management guidelines available for most genes | 14 calendar days |
| CancerNext | Comprehensive panel covering a broad range of tumor types, giving you more information to make better treatment and management decisions NCCN® management guidelines available for most genes | 14.4 calendar days |

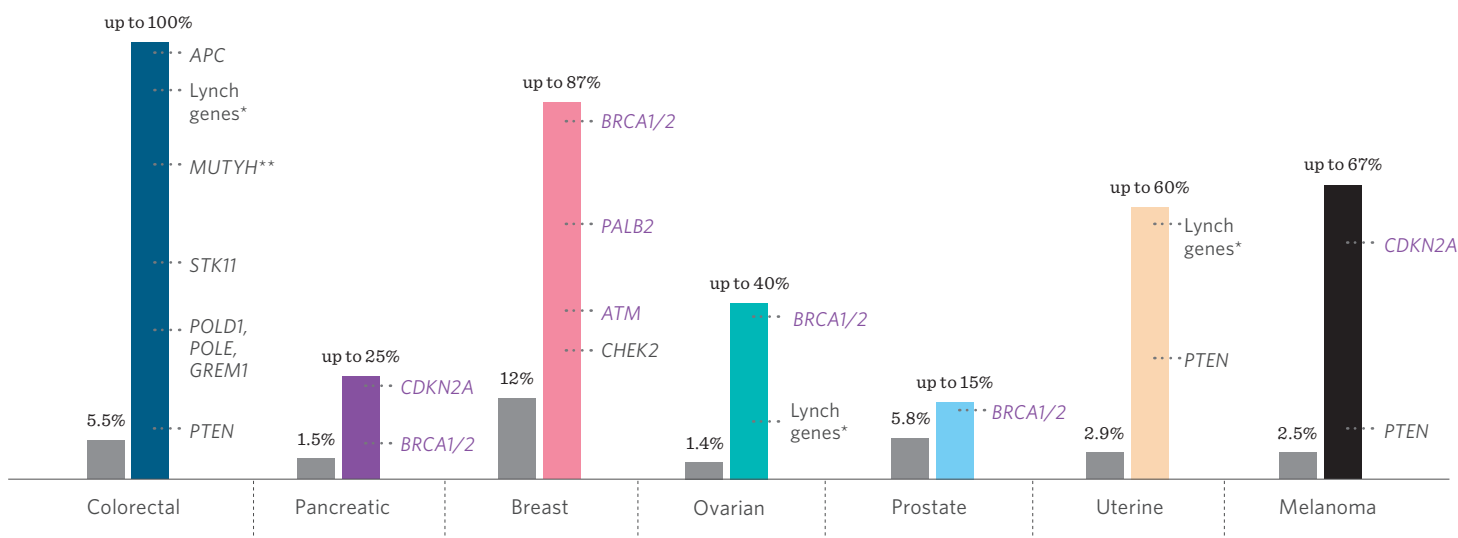
* Ambry's turnaround time represents the time that it takes for Ambry to perform the requested testing. When all necessary clinical and family history information is provided with the sample, results are typically completed within 14 days. We will notify you in the unusual event that results will take longer than 21 days.



Ambry continually participates in important game-changing studies to expand our knowledge of hereditary cancers. Please visit our website to see the most updated lists of genes included on our panels and additional testing options available: ambrygen.com/hereditary-cancer-panels

Gastrointestinal Cancer Genes and Associated Risks

POTENTIAL LIFETIME CANCER RISKS FOR PATIENTS WITH A HEREDITARY CANCER SYNDROME



■ General population

■ Purple genes are on PancNext and CancerNext only

* Lynch genes: MLH1, MSH2, MSH6, PMS2, EPCAM

** MUTYH biallelic mutations

Over 1 Million Tests Completed

MOVING SCIENCE FORWARD

Purposeful Confirmatory Testing

Many labs validate their tests based on certain limited studies. That's why we participated and led the largest study of its kind (20,000 cases) guiding us to utilize confirmatory testing when we see specific well-defined thresholds. Our mission is to get it right the first time.

Understanding Disease Better Through Free Data Sharing

Identifying an individual's genetic information is nothing new—it's what we do with it that is unique. When labs share genomic information, we can together accelerate the understanding of human disease. Through AmbryShare, we leverage de-identified information to collaborate with others and help people everywhere find answers.

SuperLab

Our 65,000 square foot highly-automated CLIA/CAP certified lab produces some of the fastest turnaround times in the industry, without compromising testing accuracy or specificity.

Ambry's Translational Genomics (ATG) Lab

As an advanced diagnostic lab, it's our responsibility to ensure the results you get from us are accurate and that classification is as complete and robust as possible. Our ATG lab is a unique laboratory that provides an additional service at no additional cost for you and your patients to generate more precise data potentially bringing clarity to some variants of unknown significance (VUS). This helps to actively drive down the rate of VUS results and can give you an increased understanding of your patient's results, so you can better provide medical management recommendations and improve health outcomes.

About Ambry



Just as no two fingerprints are alike, the way disease presents itself in every individual is different. Since 1999, our mission has always been about understanding disease better, so treatments and cures can be found faster. Every sample that arrives in our lab is viewed as a person with a life and a story that is unique to only them. By providing advanced confirmation genetic testing for inherited and non-inherited diseases, we can help you make more informed and responsible treatment decisions with your patients.