Ambry Genetics®

Understanding Your *MUTYH* Carrier Genetic Test Result

INFORMATION FOR PATIENTS WITH ONE PATHOGENIC MUTATION OR VARIANT, LIKELY PATHOGENIC

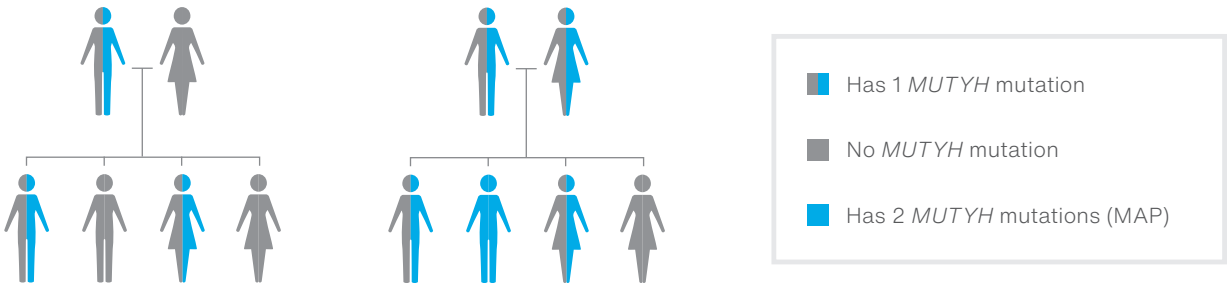
5 Things To Know

1	*MUTYH* mutation	Your testing shows that you have one pathogenic mutation or variant that is likely pathogenic in the *MUTYH* gene.
2	Carrier	People with one *MUTYH* mutation are carriers of *MUTYH*-associated polyposis, or MAP.* People with two *MUTYH* mutations have MAP. Your result shows you do not have MAP, but your family members may be at risk for it.
3	Cancer risks	There is currently no evidence to suggest an increased cancer risk for carriers (people with only one *MUTYH* mutation) over that of the general population.
4	What you can do	Risk management decisions are very personal. It is important to discuss options with your doctor and decide on a plan that works for you.
5	Family	Family members may be at risk- they can be tested for the *MUTYH* mutation that was identified in you, as well as other mutations in the *MUTYH* gene. It is recommended that you share this information with family members so they can learn more and discuss this with their healthcare providers.

** MUTYH-associated polyposis (MAP) is caused by a person having two MUTYH mutations. This condition is associated with a higher risk for gastrointestinal polyps, colorectal cancer, and possibly cancers of the duodenum and stomach.*

MUTYH Mutations in the Family

There is a 50/50 random chance to pass on the *MUTYH* mutation to your sons and daughters. If your partner happens to carry one *MUTYH* mutation, there is also a 25% chance that you will both pass on the *MUTYH* mutation to your child (who will have MAP), and a 25% chance that neither mutation would be passed on to your child. The images below show that both men and women can carry and pass on these mutations.



Reach Out

RESOURCES

- Ambry's Hereditary Cancer Site for Families patients.ambrygen.com/cancer
- Hereditary Colon Cancer Foundation hcctakesguts.org
- Genetic Information Nondiscrimination Act (GINA) ginahelp.org
- National Society of Genetic Counselors nsgc.org
- Canadian Society of Genetic Counsellors cagc-accg.ca

Please discuss this information with your healthcare provider. The cancer genetics field is continuously evolving, so updates related to your *MUTYH* result, medical recommendations, and/or potential treatments may be available over time. This information is not meant to replace a discussion with a healthcare provider, and should not be considered or interpreted as medical advice.

MKT-ONCO-FLYR-10017-EN v2 | 06.23.23

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