

Client Management Resource for individuals with ${f two}$ (biallelic) likely pathogenic or pathogenic mutations in MUTYH

This overview of clinical management guidelines is based on this patient's positive test result for two (biallelic) pathogenic or likely pathogenic *MUTYH* variants. Unless otherwise stated, medical management guidelines used here are limited to those issued by the National Comprehensive Cancer Network[®] (NCCN[®])¹ in the U.S. Please consult the referenced guideline for complete details and further information.

Clinical correlation with the patient's past medical history, treatments, surgeries and family history may lead to changes in clinical management decisions; therefore, other management recommendations may be considered. Genetic testing results and medical society guidelines help inform medical management decisions but do not constitute formal recommendations. Discussions of medical management decisions and individualized treatment plans should be made in consultation between each patient and his or her healthcare provider, and may change over time.

AGE TO START	FREQUENCY		
Colorectal Cancer			
Small adenoma burden that can be handled endoscopically			
Individualized	Every 1-2 years		
Individualized	N/A		
Post-surgery	N/A		
Adenoma burden that cannot be handled endoscopically			
Individualized by polyp burden	N/A		
Individualized	N/A		
Post-surgery	Every 6-12 months depending on polyp burden.		
Post-surgery	N/A		
Individualized	Every 12 months		
30-35 years old (baseline)	Individualized		
	Individualized Individualized Post-surgery Individualized by polyp burden Individualized Post-surgery Post-surgery Individualized		

* It is recommended that patients be managed by physicians or centers with expertise in MUTYH-associated polyposis (MAP) and that management be individualized to account for genotype, phenotype, and personal considerations.

** Options have not been studied in the specific setting of colorectal cancer and biallelic MUTYH gene mutations.

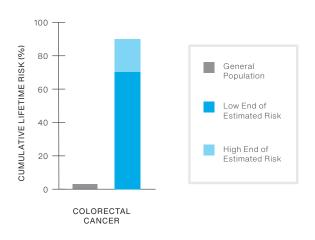
 Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Genetic/Familial High-Risk Assessment: Colorectal, Endometrial, and Gastric. v3.2024. © National Comprehensive Cancer Network, Inc. 2024. All rights reserved. Accessed October 31, 2024. To view the 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.

Understanding Your Positive *MUTYH* Genetic Test Result INFORMATION FOR PATIENTS WITH **TWO PATHOGENIC OR LIKELY PATHOGENIC VARIANTS**

5 Things To Know

1	Result	Your testing shows that you have two pathogenic or likely pathogenic variants in the MUTYH gene.
2	<i>MUTYH</i> -associated polyposis (MAP)	People with two pathogenic or likely pathogenic <i>MUTYH</i> variants have <i>MUTYH</i> -associated polyposis, also referred to as MAP.
3	Cancer risks and other medical concerns	You have an increased chance to develop gastrointestinal polyps and colorectal cancer, and possibly gastric/duodenal polyps or duodenal cancer.
4	What you can do	Risk management decisions are very personal. There are options to detect cancer early or lower the risk to develop cancer. It is important to discuss these options with your healthcare provider and decide on a plan that works for you.
5	Family	Family members may also be at risk – they can be tested for the pathogenic or likely pathogenic <i>MUTYH</i> variants that were identified in you. It is recommended that you share this information with family members so they can learn more and discuss this with their healthcare providers.

Lifetime Cancer Risks With MAP*

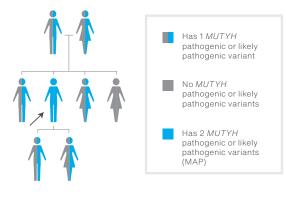


* Risk of colorectal cancer if polyposis is left untreated. Cancer risks will differ based on individual and family history.

MUTYH in the Family

You have two pathogenic or likely pathogenic *MUTYH* variants, therefore, any children you have will inherit one of them. Your children are not at risk to have MAP unless your partner has at least one pathogenic or likely pathogenic *MUTYH* variant as well.

Each of your parents carries at least one pathogenic or likely pathogenic MUTYH variant. This means your siblings have a 25% chance to have MAP, a 50% chance to inherit one pathogenic or likely pathogenic MUTYH variant, and a 25% chance to inherit no pathogenic or likely pathogenic MUTYH variants.



RESOURCES

National Society of Genetic Counselors nsgc.org Canadian Association 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.