Ambry Genetics®
A TEMPUS COMPANY

Understanding Your *NTHL1* Carrier Genetic Test Result

INFORMATION FOR PATIENTS WITH ONE PATHOGENIC OR LIKELY PATHOGENIC VARIANT

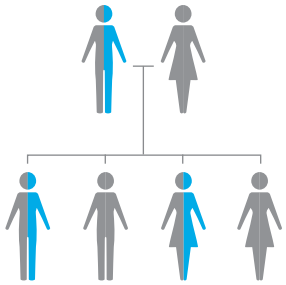
5 Things To Know

1	Result	Your testing shows that you have one pathogenic or likely pathogenic variant in the *NTHL1* gene.
2	Carrier	People with **one** pathogenic or likely pathogenic *NTHL1* variant are carriers. People with **two** pathogenic or likely pathogenic *NTHL1* variants have an increased chance to develop colorectal polyps and colorectal cancer. Your result shows you do not have this increased risk.
3	Cancer risks	There is insufficient evidence to suggest an increased cancer risk above that of the general population for people with only one pathogenic or likely pathogenic *NTHL1* variant.
4	What you can do	Risk management decisions are very personal. It is important to discuss 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 *NTHL1* variant that was found in you, as well as other *NTHL1* variants. It is recommended that you share this information with your family members so they can learn more and discuss with their healthcare providers.

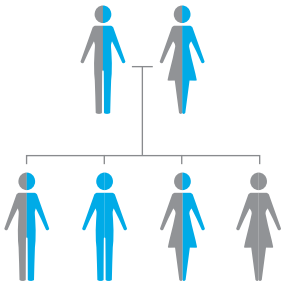
NTHL1 in the Family

There is a 50/50 random chance to pass on a pathogenic or likely pathogenic *NTHL1* variant to each of your children. If your partner also happens to carry one pathogenic or likely pathogenic *NTHL1* variant, there is a 25% chance that you will both pass on the *NTHL1* variant to your child.

One carrier parent, one non-carrier parent



Two carrier parents



- Has two pathogenic or likely pathogenic *NTHL1* variants (increased risk for colorectal cancer)
- Has one pathogenic or likely pathogenic *NTHL1* variant (carrier)
- No pathogenic or likely pathogenic *NTHL1* variants

RESOURCES

- 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 *NTHL1* 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.

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