

Understanding Your *MBD4* Carrier Genetic Test Result

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

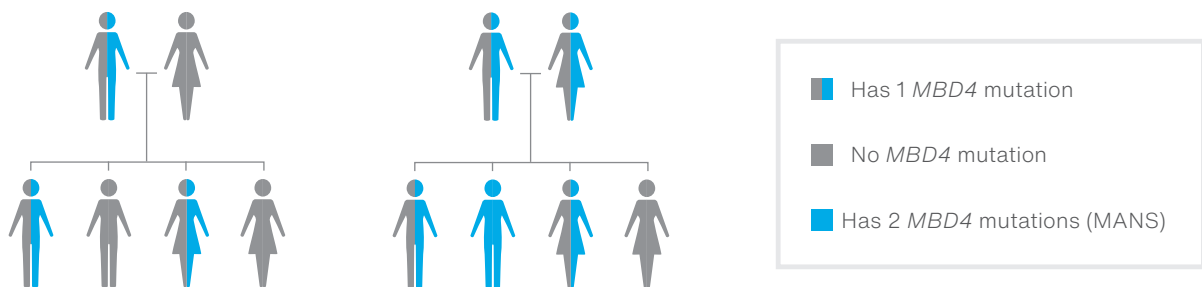
5 Things To Know

1	Result	Your testing shows that you have one pathogenic mutation or variant that is likely pathogenic in the <i>MBD4</i> gene.
2	Carrier	People with one <i>MBD4</i> mutation are carriers of <i>MBD4</i> -associated neoplasia syndrome (MANS). People with two <i>MBD4</i> mutations have MANS. Your result shows you do <u>not</u> have MANS, but your family members may be at risk for it.
3	Cancer risks	There is currently insufficient evidence to suggest an increased cancer risk for carriers (people with only one <i>MBD4</i> 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 <i>MBD4</i> mutation that was identified in you, as well as other mutations in the <i>MBD4</i> gene. It is recommended that you share this information with family members so they can learn more and discuss this with their healthcare providers.

MBD4 Mutations in the Family

There is a 50/50 random chance to pass on an *MBD4* mutation to each of your children. If your partner also happens to carry one *MBD4* mutation, there is a 25% chance that you will both pass on the *MBD4* mutation to your child (who will have *MBD4*-associated neoplasia syndrome) and a 25% chance that neither mutation would be passed on to your child.

The images below show that everyone can carry and pass on these mutations, regardless of their sex at birth.



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 *MBD4* 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.