Ambry Genetics®
A Konica Minolta Company

Understanding Your Positive *CTNNA1* Genetic Test Result

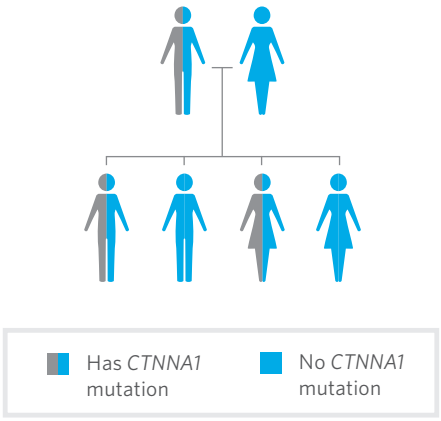
INFORMATION FOR PATIENTS WITH A **PATHOGENIC MUTATION** OR **VARIANT, LIKELY PATHOGENIC**

4 Things To Know

1	*CTNNA1* mutation	Your testing shows that you have a pathogenic mutation or a variant that is likely pathogenic in the *CTNNA1* gene.
2	Cancer risks	You have an increased chance to develop gastric cancer.
3	What you can do	There may be risk management options to detect cancer early. It is important to discuss these options with your doctor, and decide on a plan that best manages your cancer risks.
4	Family	Family members may also be at-risk. They can be tested for the *CTNNA1* mutation that was found in you.

CTNNA1 Mutations in the Family

There is a 50/50 random chance to pass on an *CTNNA1* mutation to your sons and daughters. The image to the right shows that both men and women can carry and pass on these mutations.



Understanding Your Positive *CTNNA1* Genetic Test Result

INFORMATION FOR PATIENTS WITH A **PATHOGENIC MUTATION** OR **VARIANT, LIKELY PATHOGENIC**

Result	**MUTATION**	Your testing shows that you have a pathogenic mutation (a disease-causing change in the gene, like a spelling mistake) or a variant that is likely pathogenic in the *CTNNA1* gene. Either of these results should be considered positive.
Gene	***CTNNA1***	Everyone has two copies of the *CTNNA1* gene, which we randomly inherit from each of our parents. Mutations in one copy of the *CTNNA1* gene are associated with an increased chance to develop cancer.
Cancer Risks	**INCREASED**	You have an increased chance to develop gastric cancer. The estimated lifetime risk for cancer is not yet known.
Management Options	**FOR MEN & WOMEN**	Options for screening and early detection for men and women may be available. Talk to your doctor about which options may be right for you.
Risk Management	**VARIES**	Risk management decisions are very personal, and the best option depends on many factors. Screening typically begins earlier than in the general population, and is often more frequently done. It is important to discuss these options with your doctor.
Family Members	**50/50 CHANCE**	Your close relatives (like your parents, brothers, sisters, children) have a 50/50 random chance of inheriting the *CTNNA1* mutation that you carry, and other family members (like your aunts, uncles, cousins) may also inherit it. Your relatives can be tested for this same mutation. Depending on the family history, those who DO NOT have it may not have an increased lifetime chance (above the general population) to develop cancer.
Next Steps	**DISCUSS**	It is recommended that you share this information with family members so they can learn more and discuss this with their healthcare providers.
Reach Out	**RESOURCES**	• Ambry's hereditary cancer site for families patients.ambrygen.com/cancer • 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 *CTNNA1* 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.

7 Argonaut, Aliso Viejo, CA 92656 USA Toll Free +1.866.262.7943 Fax +1.949.900.5501 ambrygen.com