

GALNT12 gene

Associated Syndrome Name: GALNT12-associated cancer risk

GALNT12 Summary Cancer Risk Table

CANCER	GENETIC CANCER RISK
Colorectal	Elevated Risk

GALNT12 gene Overview

GALNT12-associated cancer risk ^{1, 2, 3, 4, 5}

- Mutations in *GALNT12* have been found in individuals and families with a history of colorectal polyps and colorectal cancer.
- There is evidence that some individuals with *GALNT12* mutations have a moderately increased risk for colorectal cancer. The exact size of this risk is not known.
- There are currently no guidelines for the medical management of individuals with mutations in *GALNT12*. Since information about the cancer risks associated with *GALNT12* mutations is relatively new, and there is uncertainty about the best ways to reduce these risks, it may be appropriate to interpret these results in consultation with cancer genetics professionals who have expertise in this emerging area of knowledge.

GALNT12 gene Cancer Risk Table

CANCER TYPE	AGE RANGE	CANCER RISK	RISK FOR GENERAL POPULATION
Colorectal	To age 80 ^{1, 2, 3, 4, 5, 6}	Elevated risk	2.8%

GALNT12 Cancer Risk Management Table

The overview of medical management options provided is a summary of professional society guidelines. The most recent version of each guideline should be consulted for more detailed and up-to-date information before developing a treatment plan for a particular patient.

This overview is provided for informational purposes only and does not constitute a recommendation. While the medical society guidelines summarized herein provide important and useful information, medical management decisions for any particular patient should be made in consultation between that patient and his or her healthcare provider and may differ from society guidelines based on a complete understanding of the patient's personal medical history, surgeries and other treatments.

CANCER TYPE	PROCEDURE	AGE TO BEGIN	FREQUENCY (UNLESS OTHERWISE INDICATED BY FINDINGS)
Colorectal	Currently there are no medical management guidelines for colorectal cancer risk in mutation carriers. However, the possibility of an increased risk for colorectal cancer may warrant consideration of individualized risk-reduction strategies, such as the modification of standard population screening recommendations by starting screening at younger ages and/or performing screenings at greater frequency. ⁷	NA	NA

Information for Family Members

The following information for Family Members will appear as part of the MMT for a patient found to have a mutation in the GALNT12 gene.

This patient's relatives are at risk for carrying the same mutation(s) and associated cancer risks as this patient. Cancer risks for females and males who have this/these mutation(s) are provided below.

Family members should talk to a healthcare provider about genetic testing. Close relatives such as parents, children, brothers and sisters have the highest chance of having the same mutation(s) as this patient. Other more distant relatives such as cousins, aunts,

uncles, and grandparents also have a chance of carrying the same mutation(s). Testing of at-risk relatives can identify those family members with the same mutation(s) who may benefit from surveillance and early intervention.

References

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4. Clarke E, et al. Inherited deleterious variants in *GALNT12* are associated with CRC susceptibility. *Hum Mutat*. 2012 33:1056-8. PMID: 22461326.
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