

Understanding Your Positive *DICER1* Genetic Test Result

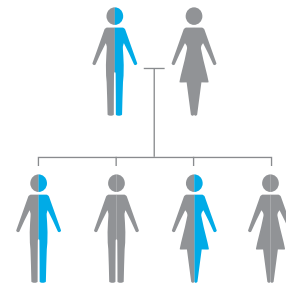
INFORMATION FOR PATIENTS WITH A PATHOGENIC MUTATION OR VARIANT, LIKELY PATHOGENIC

5 Things to know

1	<i>DICER1</i> mutation	Your testing shows that you have a pathogenic mutation or a variant that is likely pathogenic in the <i>DICER1</i> gene.
2	<i>DICER1</i> -related tumor predisposition	People with <i>DICER1</i> mutations have <i>DICER1</i> -related tumor predisposition.
3	Cancer and non-cancerous tumor risks	You have an increased chance to develop rare lung tumors (specifically pleuropulmonary blastoma), ovarian tumors, non-cancerous kidney tumors (cystic nephroma), central nervous system tumors, thyroid goiters and/or cancer, and other tumor types. These tumors typically occur in the first two decades of life.
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 <i>DICER1</i> mutation that was found in you. It is recommended that you share this information with your family members so they can learn more and discuss with their healthcare providers.

DICER1 Mutations in the Family

There is a 50/50 random chance to pass on a *DICER1* mutation to each of your children. The image to the right shows that everyone can carry and pass on these mutations, regardless of their sex at birth.



■ Has *DICER1* mutation
 ■ No *DICER1* mutation

RESOURCES

- American Cancer Society [cancer.org](https://www.cancer.org)
- Genetic Information Nondiscrimination Act (GINA) [ginahelp.org](https://www.ginahelp.org)
- National Society of Genetic Counselors [nsgc.org](https://www.nsgc.org)
- Canadian Society of Genetic Counsellors [cagc-accg.ca](https://www.cagc-accg.ca)

Please discuss this information with your healthcare provider. The cancer genetics field is continuously evolving, so updates related to your *DICER1* 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.