



Dear Family Member,

A member of your family has been identified as having a genetic mutation in the **BRCA1 gene**. Mutations in this gene are known to be associated with an increased risk for certain cancers. This means that other family members are at risk to carry this same gene mutation and hence at an increased risk for certain cancers. This letter has been written to summarize information regarding *BRCA1* mutations.

Gene mutations in the *BRCA1* gene are associated with an increased risk of breast, ovarian, and prostate cancers. Women who are *BRCA1* positive have a 50-85% lifetime risk for developing breast cancer and a 24-45% lifetime risk for ovarian cancer. Men who are *BRCA1* positive have an elevated risk for developing male breast cancer and prostate cancer. As with other hereditary cancer syndromes, the cancers may occur at earlier ages and may be more aggressive than in the general population. *BRCA1* may also be associated with an elevated risk for pancreatic cancer and melanoma.

Understanding risk is an important tool in prevention and management of cancer. It is important to note that some individuals with *BRCA1* mutations will never develop cancer over their lifetime. When one inherits a *BRCA1* mutation, he/she is not inheriting cancer; rather they are inheriting a predisposition to cancer.

When an individual has one copy of the *BRCA1* gene mutation they have an increased risk for cancers as outlined above. Because everyone has two copies of the gene for *BRCA1*, this means that a parent who carries an *BRCA1* mutation has a 50% chance of passing the mutation onto each of their children. It also means that if a person carries such a mutation, their siblings have a 50% chance to carry the same mutation. If a person does not carry the mutation, they cannot pass it onto their children. Extended family members may also be at risk for having the same mutation.

We strongly recommend that you and all persons in your family who are at risk for carrying the *BRCA1* gene mutation consider scheduling an appointment for cancer genetic counseling to discuss the benefits and limitations of genetic testing.

GeneScreen is available to discuss this information in more detail with you and coordinate appropriate testing. Please visit the following website to submit your request for genetic counseling: <https://hipaa.jotform.com/200926739003048>. You can also contact Genescreen directly at **908-766-2800** for more information or to schedule a remote consultation with a genetic counselor.