Understanding a Positive Result

A guide to understanding risk and taking action
PART ONE:
Understanding a Positive Result

Your test result may include three parts: your Genetic Test Result, your breast cancer riskScore®, (if applicable), and your Clinical History Analysis.

Genetic Test Result

A. Your Myriad myRisk® Hereditary Cancer result summary is located on the first page of your report. It will look similar to the example shown to the right. If you received a POSITIVE myRisk Hereditary Cancer result it means:

1. Your myRisk Genetic Result is POSITIVE. You tested positive for a mutation in one or more genes. One or more of your genes that were passed down through your family is altered, or carries a genetic mutation, which increases your risk for one or more hereditary cancers. This mutation(s) is considered CLINICALLY SIGNIFICANT and changes to your medical management may be appropriate.

2. Your result may contain a breast cancer riskScore®. If the riskScore was performed, details will be provided on the following page of your Genetic Test Result (see E.)

3. Your result will contain a Clinical History Analysis. This analysis was based on personal clinical risk factors and the cancer family history you reported to your provider. If the analysis identified any modified medical management, an orange asterisk 🌟 will appear. A summary of medical management recommendations based on leading medical society guidelines will be provided in the myRisk Management Tool section of your report.

B. Your report provides you with detailed information about your specific gene mutation and your increased risk for associated cancers. With this information, you and your healthcare provider can develop a medical management plan that is right for you.

C. In addition to your positive result, your testing may have found one or more “Variants of Uncertain Significance (VUS).” A VUS is not currently known to be associated with an increased cancer risk. Myriad has made a lifetime commitment to understanding the nature of these variants. If new evidence about a variant is identified, that information will be made available to your healthcare provider who will then contact you with updated information. It is important to understand that medical management decisions should not be based on the VUS result.

Positive result with SINGLE SITE testing: If a member of your family has tested positive for a mutation, your provider may have ordered testing for only that mutation to see if you carry it. This is known as single site testing. If you get a positive single site test result, you DO carry the mutation that is in your family and should discuss relevant changes to your medical management with your healthcare provider. Because single site testing does not look for other mutations or assess risk from family history, there are limitations to the information. Positive results on single site tests will include a myRisk Management Tool that is specific ONLY to your gene mutation.
D. You can find a list of all the genes tested in the **Genes Analyzed** section.

E. If the riskScore® was performed, this page of your Genetic Test Result will contain details of the analysis. This page displays an estimate of your remaining lifetime risk for breast cancer as well as your risk over the next five years. You can compare your risk to the general population using the graph provided.

If the analysis identified any modified medical management based on your riskScore, an orange asterisk (*) will appear next to your score. A summary of medical management recommendations based on leading medical society guidelines will be provided in the myRisk Management Tool section of your report.

F. The Clinical and Cancer Family History Information Page displays the information regarding your clinical history and personal and cancer family history you reported.
PART TWO:
Understanding a **Positive Result**

Your future risk of cancer is influenced by your Genetic Test Result, your personal clinical history and your family history of cancer. The myRisk Management Tool provides a summary of your future risks based on your genetic result and the information provided to Myriad, but additional risk factors should be discussed with your provider.

### myRisk Management Tool

**G. Cancers Associated with a Positive myRisk Genetic Result.** If you received a Positive myRisk® Genetic Result, you will find a table of cancer risks specific to your gene mutation on the first page of the myRisk Management Tool below the genetic test result summary information. An additional table may include ranges of risks for these cancers as compared to the general population (see J.)

Cancers on these tables may be in red or orange. Red indicates that the increase in risk is significantly more than the general population. Orange indicates that the risk is elevated and there may not be an exact percentage known at this time.

**H.** You may receive a riskScore®, riskScore is only calculated for women under age 85, of solely White / Non-Hispanic and/or Ashkenazi Jewish ancestry, without a personal history of breast cancer, LCIS, hyperplasia, atypical hyperplasia, or a breast biopsy with unknown results. This score is calculated using both genetic and non-genetic factors that may be shared within your family. It is important to note that if your genetic mutation has an increase in risk for breast cancer, then your breast cancer risk will be defined only by your myRisk Genetic Result. However if your gene mutation is not known to carry a risk for breast cancer, then your healthcare provider may use riskScore to understand your risk for breast cancer. If your riskScore is calculated to be 20% or higher, modified medical management recommendations will be summarized later in the report.

**I.** If you are a woman who has never been diagnosed with breast cancer and have no relatives with a known genetic mutation you will also receive a Tyrer-Cuzick Risk Calculation. Tyrer-Cuzick is a model used to predict a woman’s risk of developing breast cancer which was developed by leading researchers. Tyrer-Cuzick takes into consideration your family history of cancer and other personal clinical risk factors. If your Tyrer-Cuzick Risk Calculation is 20% or higher, modified medical management recommendations will be summarized later in the report.
Medical Management

K. The myRisk Medical Management Tool provides a summary of management recommendations from leading medical societies that you and your healthcare provider may consider. In general, changes to your cancer risk management can take four possible directions:

1. You may be screened more often and perhaps with different or additional tests than you have had previously.
2. It might also be recommended that you take medications (known as risk-reducing agents) to reduce your risk.
3. There may be surgical steps to discuss.
4. You may discuss lifestyle changes with your provider.

Your healthcare provider will work with you to determine the best medical management plan for you. Be sure to contact your healthcare provider on a regular basis for updated information.

PART THREE: Information for Family Members

If you were found to have a genetic mutation, your relatives may want to consider genetic testing.

It is important to share information about your test results with your family. They may want to talk with a healthcare provider about how this affects them and the possibility of genetic testing. The Medical Management Tool shows risk levels associated with your gene mutation for family members.

If your risk of breast cancer was estimated to be above average using riskScore®, your female relatives may also be at an increased risk for breast cancer. Your relatives may want to consult with a healthcare provider to discuss their possible risk.
Next Steps

Your healthcare provider is always your number one resource. You are also invited to visit www.mySupport360.com, the Myriad program offering information and support for patients. You will find valuable information that will help you better understand your test result, and you can join a community of people who are on the same hereditary cancer testing journey as you.

You may also contact Myriad’s Medical Services team at 1-800-469-7423 x3850 to speak to a genetic counselor.

Working with your healthcare provider, the two of you will determine the appropriate next steps for you. Here are some possible actions to consider:

- Schedule any **follow-up appointments**

- **Speak with your family members** about your result and encourage them to see their healthcare provider about cancer prevention and testing

- Consider speaking with a **genetic counselor** about your test result and family history