Understanding an Elevated Result

A guide to understanding risk and taking action
PART ONE:

Understanding an Elevated 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 an Elevated myRisk Hereditary Cancer result it means:

1. Your myRisk Genetic Result is NEGATIVE. You tested negative for any clinically significant changes (called mutations) in the genes analyzed on the myRisk Hereditary Cancer panel. Based on this, your risk for a hereditary cancer syndrome is lower but not completely ruled out.

Although your genetic result was negative you are still at an Elevated risk of cancer based on either your breast cancer riskScore® or your Clinical History Analysis. One or both of these analyses identified modified medical management as indicated by an orange asterisk. A summary of medical management recommendations based on leading medical society guidelines will be provided in the myRisk Management Tool section of your report.

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 D.)

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.

B. In addition to your elevated 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.

C. You can find a list of all the genes tested in the Genes Analyzed section.
D. 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.

E. The Clinical and Cancer Family History Information Page displays the information regarding your clinical history and personal and cancer family history you reported.

If you have additional questions about your result please contact your healthcare provider. Myriad’s Medical Services team is also available to help: (800) 469-7423 x3850 / helpmed@myriad.com
F. If you received an Elevated result, despite testing negative for any gene mutations you are still at ELEVATED risk for one or more cancers based on personal clinical factors, your family history of cancer, and/or your riskScore®.

G. If you are a woman, your elevated risk may be a result of your 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. riskScore® is not calculated if a woman or blood relative is known to carry a mutation in a breast cancer gene. This score is calculated using both genetic and non-genetic factors that may be shared within your family. If your riskScore is calculated to be 20% or higher, modified medical management recommendations will be summarized later in the report.

H. Your elevated risk may be a result of the analysis of your clinical history. 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.

myRisk Management Tool

**PART TWO:**

**Understanding an Elevated 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 may be present and should be discussed with your provider.
Medical Management

I. 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 three 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. 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 no mutations were found in the genes we tested, your relatives may not need genetic testing.

However, in some cases, genetic testing should be offered to another relative, especially if they have been diagnosed with a cancer associated with the suspected hereditary cancer genes for which you were tested. This can provide more information about hereditary risk for you and others in your family. Talk to your healthcare provider to help determine whether any further genetic testing should be offered to you or a family member.

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.
PATIENT SUPPORT

Resources

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.

Next Steps

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