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Integrated BRACAnalysis® with Myriad myRisk™ Hereditary Cancer

myRisk Genetic Result



RECEIVING HEALTHCARE PROVIDER First Name Last Name, MS Test Medical Center 123 Main St Testville, TX 55555	SPECIMEN Specimen Type: Blood Draw Date: Jan 09, 2015 Accession Date: Jan 13, 2015 Report Date: Apr 27, 2015	PATIENT Name: Last Name, First Name Date of Birth: Patient ID: Gender: Female Accession #: 01858538-BLD Requisition #: 4031822
ORDERING PHYSICIAN: Test HCP, MD		

**RESULT: NEGATIVE - NO CLINICALLY SIGNIFICANT MUTATION IDENTIFIED**

Note: "CLINICALLY SIGNIFICANT," as defined in this report, is a genetic change that is associated with the potential to alter medical intervention.

ADDITIONAL FINDINGS: NO VARIANT(S) OF UNCERTAIN SIGNIFICANCE (VUS) IDENTIFIED

Details About Non-Clinically Significant Variants: All individuals carry DNA changes (i.e., variants), and most variants do not increase an individual's risk of cancer or other diseases. When identified, variants of uncertain significance (VUS) are reported. Likely benign variants (Favor Polymorphisms) and benign variants (Polymorphisms) are not reported and available data indicate that these variants most likely do not cause increased cancer risk. Present evidence does not suggest that non-clinically significant variant findings be used to modify patient medical management beyond what is indicated by the personal and family history and any other clinically significant findings.

Variant Classification: Myriad's myVision™ Variant Classification Program performs ongoing evaluations of variant classifications. In certain cases, healthcare providers may be contacted for more clinical information or to arrange family testing to aid in variant classification. When new evidence about a variant is identified and determined to result in clinical significance and management change, that information will automatically be made available to the healthcare provider through an amended report.

ADDITIONAL INFORMATION**GENES ANALYZED**

Unless otherwise noted sequencing and large rearrangement analyses were performed on the following genes:

APC, ATM, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, EPCAM (large rearrangement only), *MLH1, MSH2, MSH6, MUTYH, NBN, PALB2, PMS2, PTEN, RAD51C, RAD51D, SMAD4, STK11, TP53.*

** Other genes not analyzed with this test may also be associated with cancer.

Indication for Testing: It is our understanding that this individual was identified for testing due to a personal or family history suggestive of a hereditary predisposition for cancer.

Associated Cancer Risks and Clinical Management: Please see the "myRisk Management Tool" associated with this report for a summary of cancer risk and professional society medical management guidelines that may be useful in developing a plan for this patient based on test results and reported personal/family history, if applicable. Testing of other family members may assist in the interpretation of this patient's test result.

Analysis Description: The Technical Specifications summary (MyriadPro.com/myRisk) describes the analysis, method, performance, nomenclature, and interpretive criteria of this test. The classification and interpretation of all variants identified in this assay reflects the current state of scientific understanding at the time this report was issued, and may change as new scientific information becomes available. The interpretation of this test may be impacted if the patient has a hematologic malignancy or an allogeneic bone marrow transplant.

Please contact Myriad Medical Services at 1-800-469-7423 X 3850 to discuss any questions regarding this result.

This Authorized Signature
pertains to this laboratory report:

Benjamin B. Roa, PhD
Diplomate ABMG
Laboratory Director
Richard J. Wenstrup, MD
Diplomate ABMG
Chief Medical Officer

These test results should only be used in conjunction with the patient's clinical history and any previous analysis of appropriate family members. The patient's clinical history and test results should not be disclosed to a third party, unless related to treatment or payment for treatment, without the patient's express written authorization. It is strongly recommended that these results be communicated to the patient in a setting that includes appropriate counseling. This test was developed and its performance characteristics determined by Myriad Genetic Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that clearance or approval for laboratory-developed tests is not required.



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GENETIC TEST RESULTS SUMMARY INFORMATION



RESULT: NEGATIVE - NO CLINICALLY SIGNIFICANT MUTATION IDENTIFIED

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ADDITIONAL FINDINGS: NO VARIANT(S) OF UNCERTAIN SIGNIFICANCE (VUS) IDENTIFIED

No clinically significant mutations were identified in this patient. However, based on personal/family history, the patient's cancer risks may still be increased over the general population. See information below.

PERSONAL/FAMILY HISTORY SUMMARY AND MANAGEMENT INFORMATION

FAMILY MEMBER	CANCER / CLINICAL DIAGNOSIS	AGE AT DIAGNOSIS
Patient	None	
Mother	Ovarian	65



BASED ON HISTORY PROVIDED, NO MODIFIED MANAGEMENT GUIDELINES IDENTIFIED; OTHER CLINICAL FACTORS MAY INFLUENCE INDIVIDUALIZED MANAGEMENT

This information was provided by a qualified healthcare provider on the test request form and was not verified by Myriad. Family members listed as "other" are not included in personal/family history assessment.

Notes for Personalized Management: _____

INFORMATION ON HOW CANCER RISKS AND MANAGEMENT ARE DETERMINED

The myRisk Management Tool provides cancer risk levels based on analysis of genetic test results (see myRisk Genetic Result) and management recommendations based on a combined analysis of genetic test results and, when possible, personal/family cancer history. Additional details can be found on MyriadPro.com/myRisk.

- A comprehensive risk assessment may include other aspects of the patient's personal/family medical history, as well as lifestyle, environment and other factors.
- Changes in personal/family history or additional data regarding specific genes/mutations may affect the cancer risk estimates and management recommendations within this report. Personal/family history should be updated with a healthcare provider on a regular basis.





myRisk Management Tool

Name: Last Name, First Name

DOB:

Accession #: 01858538-BLD

Report Date: Apr 27, 2015

- Management recommendations are provided for personal/family history of colorectal adenomas, breast, colorectal, melanoma, pancreatic, and prostate cancers. Assessment is based on information provided on the test request form for the patient as well as first and second degree relatives. Analysis of third degree relatives for relevant cancers may be included if sufficient information is provided. Assessment for Amsterdam II Criteria for Lynch syndrome may not be complete in certain cases due to Myriad's limited understanding of the family structure. The Claus model is used to determine when women are estimated to have a greater than 20% lifetime risk for breast cancer based on family history (Claus EB, Risch N, Thompson WD. Cancer 1994; Feb 1;73(3):643-51). Unaffected women meeting this threshold will receive appropriate guideline-based breast management recommendations. Additional family history assessment may be required. African American ethnicity, when reported on the test request form, is used in assessment for prostate cancer management. Cancer risks and related management are included based on the gender provided. When personal and family history assessment could not be provided in this result (e.g., Single Site testing, insufficient history for analysis), the patient risk and/or management recommendations may deviate from what has been provided within this report. Please contact Myriad Medical Services at 1-800-469-7423 X 3850 for more information.
- No management recommendations are provided related to treatment of a previous or existing cancer or polyps. The recommendations provided may require modification based on the patient's personal medical history, surgeries and other treatments. Patients with a personal history of cancer, benign tumors or pre-cancerous findings may be candidates for long term surveillance and risk reduction strategies beyond what is necessary for the treatment of their initial diagnosis.
- Patients who have a clinical diagnosis of a genetic cancer syndrome (e.g., Lynch syndrome) may have different management recommendations than provided. Management should be personalized based on all known clinical diagnoses.
- The Genetic Test Result Summary includes: female breast, male breast, colorectal, endometrial, gastric, ovarian, pancreatic and prostate cancers, and melanoma. In this summary a gene associated cancer risk is described as "High Risk" for a cancer type if all of the following conditions are met: the absolute risk of cancer is approximately 5% or higher, the increase in risk over the general population is approximately 3-fold or higher, and there is significant data from multiple studies supporting the cancer risk estimate. A gene is described as "Elevated Risk" for a cancer type if there is sufficient data to support an increase in cancer risk over the general population risk, but not all criteria for "High Risk" are met.

INFORMATION FOR FAMILY MEMBERS

Family members should talk to their healthcare providers about hereditary cancer testing to help define their own risk and assist in the interpretation of this patient's genetic test result.

Please contact Myriad Medical Services at 1-800-469-7423 X 3850 to discuss any questions regarding this result.

END OF MYRISK MANAGEMENT TOOL

