BRCAcare

DNA-based Next Generation Sequencing (NGS) technologies provide high sensitivity and accuracy for the detection of BRCA and other gene mutations.

Tests Available:

- **BRCA1/2: Comprehensive BRCA Analysis**
- **BRCA1/2: Ashkenazi Jewish 3-site Mutation Analysis**
- **BRCA1 & BRCA2: Specific Site Analysis**
- **Testing for Hereditary Breast & Ovarian Cancer Syndrome (HBOC)**
  - **Breast Cancer High Risk Extended Panel Plus: 14 genes** (*BRCA1, BRCA2, CDH1, PTEN, TP53, STK11, ATM, CHEK2, PALB2, BARD1, BRIP1, MUTYH, RAD51C, RAD51D*)
  - **Breast Cancer High Risk Extended Panel (No BRCA1, BRCA2): 12 genes** (*CDH1, PTEN, TP53, STK11, ATM, CHEK2, PALB2, BARD1, BRIP1, MUTYH, RAD51C, RAD51D*)
  - ***BRCA1/2*: Ashkenazi Jewish 3-site Mutation Analysis** (Reflex to Breast Cancer High Risk Extended Panel Plus if negative)
- **Testing for Lynch Syndrome genes:**
  - **Comprehensive Hereditary Breast and Gynecologic Cancer Panel: 19 genes** analyzed by Gene Sequencing and/or Deletion/Duplication Analysis (*BRCA1, BRCA2, ATM, BARD1, BRIP1, CDH1, CHEK2, MUTYH, PALB2, PTEN, RAD51C, RAD51D, STK11, TP53, EPCAM, MLH1, MSH2, MSH6, PMS2*).

Now Available

Targets genes of elevated risk for the development of breast, ovarian, and endometrial uterine cancer.

Advantages:

- **Non-invasive**
- **Ease of collection**
- **Rapid turnaround time**
- **High sensitivity and specificity**
- **Genetic counseling can be arranged**
- **Patient friendly pricing**

UNLOCK YOUR

BRCA
CODE™

IH0117 Upd: 9_2023

MEDICAL DIAGNOSTIC LABORATORIES L.L.C.

2439 KUSER ROAD, HAMILTON, NJ 08690-3303
TL: 609-570-1000, FX: 609-570-1050, TF: 877-269-0090
www.mdlab.com

Final

MDL#: 4328684 **Test Results** **Physician Copy**

Genetic Counselor Information:

Specimen Type:	Mouthwash
Date Collection:	1/25/2015
Date Processed:	1/26/2015
Date Reported:	3/2/2015
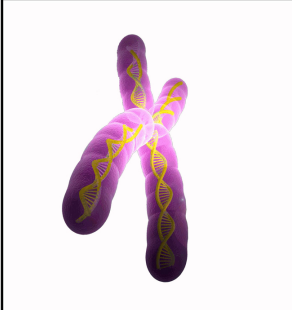
Patient Information: **SSN:** XXX-XX-5555 **DOB:** 1/1/1993 (Age: 22)

DOE, JANE
90 TRENTON ROAD
DAYTON, NJ 08690

Home: (142) 141-4113 **Patient ID:** 4444444

Ordering Physician/Lab: **NPI:** 2121212121

JOHN DOE MD
JOHN DOE, MD
202 ANY STREET
DAYTON, NJ 08810

Results Faxed To:
JANE DOE HOSPITAL

Tel: 555-555-5551
Fax: 555-555-5555

BRCAcare™ BRCA1 and BRCA2 Analysis Results, COMPREHENSIVE

Interpretation Summary:

POSITIVE FOR A PATHOGENIC MUTATION

Test Performed	Reference Sequence	Common Name	cDNA Change	Amino Acid Change	Exon	References	Interpretation
BRCA1 Sequencing						-	NO ANOMALIES DETECTED
BRCA1 Deletion / Duplication Analysis						-	NO ANOMALIES DETECTED
BRCA2 Sequencing	NC_000013.10	Y3308X	c.9924C>G	p.Tyr3308Ter	27	-	PATHOGENIC
BRCA2 Deletion / Duplication Analysis						-	NO ANOMALIES DETECTED

Comprehensive Interpretation:

Test Interpretation:

Sequencing of the coding regions and splice junction sites of the BRCA2 gene was done and was POSITIVE for the Y3308X change in the BRCA2 gene. This change has been associated with the Hereditary Breast Ovarian Cancer Syndrome (HBOC) and is considered to be PATHOGENIC. This change was identified by NGS and classified based on MDL BRCA variant classification system. This change has and others have been associated with 60-80% risks for the HBOC cancers.

In addition to the gene sequencing assay, a multiplex ligation-dependent probe amplification (MLPA) analysis which detects deletions and/or duplications involving one or more exon, including those that affect the entire BRCA1 and BRCA2 gene, was completed. No deletions or duplications were detected.

The classification and interpretation of all genetic variants identified as a result of this genetic testing is based on the current scientific information available. As new scientific information becomes available, in some circumstances, the classification and interpretation of the genetic variants may change.

Genetic counseling is advised to learn the full meaning of the test results and to discuss risks to other family members. Relatives should consider genetic counseling and testing. All test results should be interpreted by physician or genetic counselor in the context of the personal/family cancer history, and clinical and laboratory data.

View: M

Mail:	Yes	USPS
	All	Yes

Fax:	Yes	*Manual*
	All	No

Medical Director, Jing Jing Yang, M.D.

MDL#: 4328684
3/3/2015
BR **Final**