

Experiment & Patient Summary

Your Patient IDs: _____ and _____

Enzyme-Linked Immunosorbant Assay (ELISA) to Detect Cancer Biomarker CA 27.29	Polymerase Chain Reaction (PCR) to Detect <i>HER2</i> Gene Amplification
<p><u>Purpose:</u> CA 27.29 is elevated when a cancer has spread or <i>metastasized</i> to a different part of the body.</p> <p><u>Normal:</u> < 40 Units (U) / milliliter (ml)</p> <p><u>Result for Your Patients:</u></p>	<p><u>Purpose:</u> When the <i>HER2</i> gene duplicates, more HER2 protein is made, driving cancer development.</p> <p><u>Normal:</u> 1 copy of the gene (1000 bp)</p> <p><u>Result for Your Patients:</u></p>
BLAST to detect <i>BRCA1</i> Mutations	Cell Staining to Detect Expression of the Estrogen Receptor (ER)
<p><u>Purpose:</u> 5% of breast cancers are caused by mutations in <i>BRCA1</i> or <i>BRCA2</i> genes. This means that the patient and his/her family should be screened more often for cancer.</p> <p><u>Normal:</u> The patient's <i>BRCA1</i> gene contains no cancer-causing mutations (i.e., matches the <i>BRCA1</i> reference sequence 100%).</p> <p><u>Result for Your Patients:</u></p>	<p><u>Purpose:</u> Estrogen is a hormone that drives cell division. High-level expression of estrogen receptors expressed on the surface of breast cancer cells can drive the development of cancer.</p> <p><u>Normal:</u> Low-level expression of estrogen receptors on the surface of breast cancer cells.</p> <p><u>Result for Your Patients:</u></p>

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All Patient Data

Patient ID	CA 27.29	<i>BRCA1</i>	<i>HER2</i>	ER-positive
A-1				
A-2				
B-1				
B-2				
C-1				
C-2				
D-1				
D-2				
E-1				
E-2				
F-1				
F-2				
G-1				
G-2				
H-1				
H-2				
I-1				
I-2				
J-1				
J-2				
K-1				
K-2				
L-1				
L-2				