



Sentinel BreastScan
Digital Infrared Imaging System

[REDACTED] N.D.
 [REDACTED]
 [REDACTED]

REPORT DATE: 7/18/2007

Patient Name: [REDACTED] **Procedure Date:** 7/18/2007 9:15:30 AM
Date of Birth: [REDACTED] **Patient ID:** [REDACTED]
Physician: [REDACTED] **Cooling Factor:** 3.21

BACKGROUND INFORMATION: Sentinel BreastScan is a screening modality that uses digital infrared imaging (DII) to identify physiological signs often associated with a developing or existing breast abnormality. These signs appear in areas of high metabolic activity, excess blood perfusion and/or angiogenesis. This test is FDA approved as an adjunctive screening tool that can aid in the early detection of breast cancer. Sentinel is not a diagnostic test. Only a biopsy can definitively diagnose breast cancer. Oral and written consent were obtained from the patient prior to this procedure.

PROCEDURE: Sentinel BreastScan makes seven temperature parameter measurements before, during, and after a cool challenge (cool air is comfortably blown over the patient's breasts for approximately 5 minutes). The outcome of these temperature parameter measurements are indicated in the "RESULTS" section of this report and in a separate Graphical Threshold Result. Both reports are automatically produced by Sentinel BreastScan immediately after the completion of the test.

RESULTS: Sentinel BreastScan automatically analyzes seven temperature parameters (tests) measured during the exam. "Out of Range" findings on one or more tests place the patient in risk categories of increasing levels. Zero "Out of Range" findings indicate that the patient is displaying thermal features that are considered normal. Automated analysis of the patient's infrared data shows the patient has displayed an "Out of Range" finding on 0 (zero) test(s).

Values (degrees C)			RESULTS
In Range	Out of Range	Ref Range	Parameter
1		< 1.3	Threshold: Measurement of how reluctant areas of the breast are to reduce in temperature in response to the cool challenge, and may be an indication of high metabolic activity, excess blood perfusion and/or angiogenesis. This parameter value is shown in the boxes to the left, and the associated location(s) is shown on the graphical report by use of color coded site markers (refer to left hand image). The three levels of reluctance are displayed in this image as follows, with the larger diameter circle(s) indicating the most reluctant site for this patient: High - Pink (Out of Range) Medium - Yellow Low - Green
0.4		< 1.3	Nipple: Comparison of left and right nipple temperatures.
0.9		< 1.4	Areola: Comparison of left and right areola temperatures.
0.8		< 1.0	Global: Comparison of left and right global temperatures.
0.9		< 1.5	Asymmetry: Compares right and left contra lateral portions of the breast for temperature and vascular symmetry, by quadrant (when available), or by entire breast when quadrants are not available: Upper Inner (UI), Upper Outer (UO), Lower Inner (LI) and Lower Outer (LO) portions of the left and right breast.
2.1		< 5.0	Focal Hot Spot (Right Breast): Calculated value related to localized hot spots within the right breast.
2.1		< 5.0	Focal Hot Spot (Left Breast): Calculated value related to localized hot spots within the left breast.

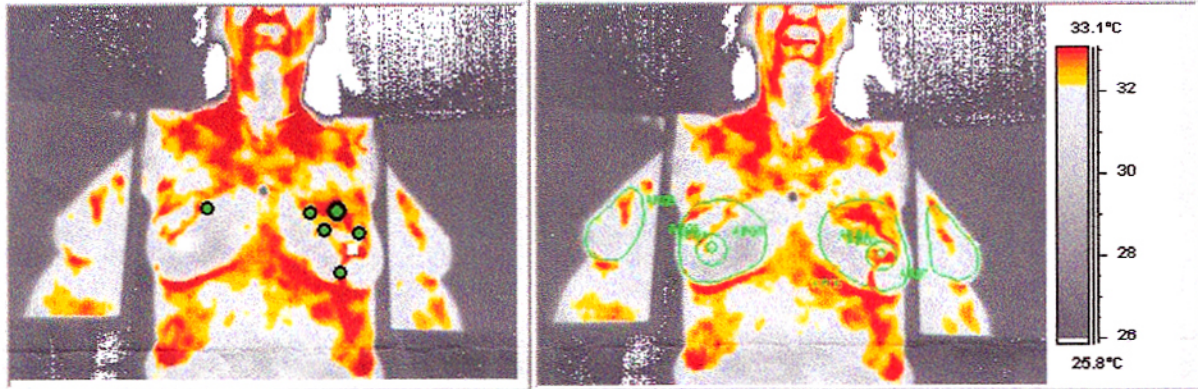
NEURAL NETWORK ANALYSIS: The Sentinel BreastScan analyzes patient data in two independent ways. First, it measures temperature variations within and between the patient's breasts (as described in the "RESULTS" section above). Then, it performs a separate pattern recognition analysis (known as the Neural Network Analysis) in which all patient data is compared to similar data from known abnormal patients and known normal patients. The Neural Network output is either positive or negative. A negative indicates a significant correlation with known normal patients. A positive score indicates a significant correlation with known abnormal patients. **This patient's Neural Network Analysis score is evaluated NEGATIVE.**

Sentinel BreastScan Patient Analysis Report

Patient Name:
Patient ID:

DOB: 3/29/1952
IR Date: 7/18/2007 9:15:30 AM

Differential Level Indications: ● High ● Med ● Low



Parameter	Value	Temperature Differential Range	Evaluation	Comments
Threshold	1	0.0 — 1.0 — 1.21.3 — 2.6	Low	
Nipple	0.4	0.0 — 0.4 — 0.8 — 1.3 — 2.6	Low	
Arcola	0.9	0.0 — 0.6 — 0.9 — 1.4 — 2.8	Medium	Left Breast
Global	0.8	0.0 — 0.5 — 0.8 — 1.0 — 2.0	Medium	Left Breast
Asymmetry	0.9	0.0 — 0.9 — 1.0 — 1.5 — 3.0	Low	
Focal Hot Spot Left	2.1	0.0 — 2.1 — 2.8 — 5.0 — 10.0	Low	
Focal Hot Spot Right	2.1	0.0 — 2.1 — 2.8 — 5.0 — 10.0	Low	
Neural Network Results	0.25	0.0 — 0.3 — 0.4 — 0.6 — 1.0	Negative	
Patient Overall Score	0	0.0 — 0.0 — 1.0 — 2.0 — 3.0 — 4.0 — 5.0	Low	CF = 3.21

Sentinel BreastScan is FDA Approved