



## REPORT

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**Patient:** -----  
**Date of Birth:** 12/03/1984  
**Patient ID:** xxxxxx  
**Referring Practitioner:** ----

**Scan Date:** 9/30/2016  
**Report Ref:** xxxxxx  
**Report Type:** Breast  
**Thermographer:** -----

**Reported By:** ----

### **All normal protocols were observed**

#### HISTORY AND SUBJECTIVE COMPLAINTS:

Breast Implants March 2015.  
Breast seem to be tender occasionally. (Possible from the breast implants) There is one spot on the right breast that stays tender. Pointer is focused on the tender spot in the pictures.

#### THERMOGRAPHIC INTERPRETATION:

Some asymmetry is seen in the breasts. The right breast is noted to be warmer when compared to the left. Distinct markings are situated at the upper inner and upper outer (pointer position) aspects on the right. These findings do not appear suspicious but should be monitored for any future change.  
The left breast is notable for increase at the upper inner aspect adjacent to the upper sternum. This should likewise be followed.  
The overall breast contours are consistent with the history of breast augmentation surgery and there is no indication as to a loss of implant integrity.  
This study is suitable to be archived and compared with a repeat study in three months to establish a baseline, prior to annual testing.

#### DISCUSSION:

The thermal findings in both breasts should be considered low risk for significant developing pathology pending the establishment of a stable baseline.

Fibrocystic changes are often associated with localized tenderness, which may be consistent with the reported symptoms. Post surgical change may be contributory as well.

#### FOLLOW-UP:

Suggest standard follow-up breast imaging in three months before continuing with annual comparative studies.

### **Clinical Impression with Thermography Breast Imaging-Reporting and Data System (T BI-RADS)**

**Left Breast: At Low Risk**

**Right Breast: At Low Risk**

#### **BREAST T BI-RADS CLASSIFICATION KEY:**

Within normal Limits (Normal)  
This indicates a normal thermal profile with no thermal findings consistent with risk for disease or other developing pathology. Normal thermal contours, statistical analysis and differentials are recorded. Annual comparative follow-up is

recommended after a stable baseline has been established.

#### At Low Risk (Non Suspicious)

This indicates low grade thermal activity which is not suspicious for serious pathology. Thermal findings may be associated with benign changes such as glandular hyperplasia, fibrocystic tissue and the development of cysts and fibroadenomas. Annual comparative follow-up is recommended after a stable baseline has been established but more frequent follow-up may be clinically indicated. This does not rule out existing non-active or encapsulated tumors.

#### At Some risk (Equivocal)

These findings indicate thermal activity likely to represent benign changes such as inflammation, acute cysts or fibroadenoma, infection, or even normal personal variant. Clinical correlation is indicated with any associated history or symptoms. Other objective means of evaluating the breasts may be justified.

#### At Increased Risk (Abnormal)

This represents a significant risk for existing or developing malignant breast disease. Benign pathology or personal variant cannot be ruled out but is less likely. Clinical correlation is justified and objective evaluation and additional testing is indicated. A follow-up thermal study in 3 months should be part of a comprehensive testing panel.

#### At high Risk (Suspicious)

This represents a high risk of confirming malignant breast disease. Benign processes or personal variant are very unlikely. Urgent clinical correlation is indicated with a comprehensive panel of testing and evaluation with all possible alacrity. A follow-up thermal study in 3 months should be a part of this evaluation.

#### Previously Confirmed Malignancy

This represents a current diagnosis of malignant pathology in the patients history. Thermography will not show any cancers from a structural or pathological perspective. It will show positive physiological findings in 83% of malignancy (specificity), leaving 17% of cancers that present as thermographically silent due to the type of pathology, long term cancer which the body has accommodated or encapsulation and age of patient. The utility for including thermography as an adjunctive screening test in previously confirmed malignancy is for the establishment of a baseline and detection of any physiological change over time, correlation with other tests and the monitoring of response to treatment. Breast thermography screening is an adjunctive test to mammography, ultrasound and MRI and is a specialized physiological test designed to detect angiogenesis, hyperthermia from nitric oxide, estrogen dominance, lymph abnormality and inflammatory processes including inflammatory breast disease, all of which cannot be detected with structural tests. Follow-up and interval screening of less than 12 months should be determined by patients healthcare professional as considered appropriate.

#### **PROCEDURE:**

This patient was examined with digital infrared thermal imaging to identify thermal findings which may suggest abnormal physiology.

Thermography is a physiologic test, which demonstrates thermal patterns in skin temperature that may be normal or which may indicate disease or other abnormality. If abnormal heat patterns are identified relating to a specific region of interest or function, clinical correlation and further investigation may be necessary to assist your health care provider in diagnosis and treatment.

Thermal imaging is an adjunctive test, which contributes to the process of differential diagnosis, and is not independently diagnostic of pathology.

Breast thermography is a way of monitoring breast health over time. Every woman has a unique thermal pattern that should not change over time, like a fingerprint. The purpose of the two initial breast studies (usually obtained three months apart) is to establish the baseline pattern for each patient to which all future thermograms are compared to monitor stability. With continued breast health, the thermograms remain identical to the initial study. Changes may be identified on follow up studies that could represent physiological differences within the breast that warrant further investigation.

The ability to interpret the first breast study is limited since there are no previous images for comparison.

This exam is an adjunctive diagnostic procedure and all interpretive findings must be clinically correlated. DITI is not a substitute for mammography.

**PROTOCOLS:**

The thermographer certifies that this exam was conducted under standard and clinically acceptable protocols.

**PATIENT HISTORY:**

The interpretation represents objective descriptions of thermal patterns. Clinical significance of such patterns is interpreted in relation to and limited by the patient data and history provided.

**REPORTING:**

Results are reported by certified thermologists. Results are determined by studying the varying patterns and temperature differentials as recorded in the thermal images.

**NORMAL FINDINGS:**

Normal findings are diffuse thermal patterns with good symmetry between similar regions on both sides of the body. Comparative imaging may identify specific asymmetries that have remained stable and unchanged over time and therefore regarded as normal.

**ABNORMAL FINDINGS:**

Abnormal findings may be localized areas of hyperthermia or hypothermia, or thermal asymmetry between similar regions on both sides of the body with temperature differentials of more than 1° C. There may be vascular patterns that suggest pathology. Comparative imaging may identify specific changes or new asymmetries that warrant further investigation.

**COLD STRESS:**

Routine breast thermography monitoring for changes over time precludes the necessity for cold stressing under these protocols. A cold stress test can be conducted when appropriate or when ordered by a referring physician.

**The referring health care provider should contact the EMI administrator with any questions relating to this interpretive report.**

This Report is intended for use by trained health providers to assist in evaluation, diagnosis, and treatment. It is not intended for use by individuals for self-evaluation or self-diagnosis. This Report does not provide a diagnosis of illness, disease or other condition. Clinical Thermology is a screening procedure subject to both false negative and false positive results. It is most reliable

when a stable baseline is obtained followed by regular repetitive screening for changes. Results must be interpreted in the context of historic and current clinical information.

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