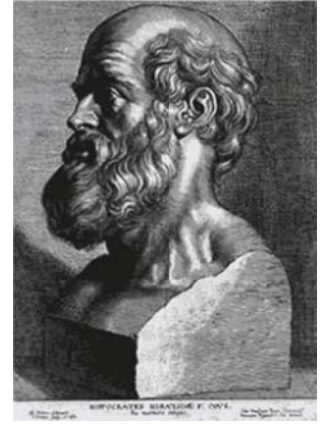


Thermology

THERMOLOGY: A DEFINITION

Thermology is the medical science that derives diagnostic indications from highly detailed and sensitive infrared images of the human body by applying a quantitative and objective analytic system. Thermology is sometimes referred to as digital infrared imaging, diagnostic infrared imaging, infrared mammography or tele-thermology and involves the use of highly resolute and sensitive infrared (thermographic) cameras. Thermology is a patho-physiologic imaging discipline, completely non-contact and involves no form of energy imparted onto or into the body. Thermology has established applications in breast oncology, vascular medicine, chiropractic, dentistry, neurology, occupational medicine, orthopedics, pain management and veterinary medicine.



THERMOLOGY: THE HISTORY

The aura of modern thermology's cutting-edge technology obscures its venerated origins as one of Hippocrates' cardinal signs of pathology: **Calor** (heat). 400 BCE in *The Book of Prognostics*, Hippocrates of Cos wrote; **"In whatever part of the body excess of heat or cold is felt, the disease is there to be discovered"** (1). The ancient Greek physicians of the Golden Age were known to employ a primitive form of thermal imaging as they would apply thin mud slurry onto areas of their patient's bodies to observe the patterns and rates of drying. Modern thermology has been refined into a proper, albeit young science with a vast and rich history. The first electronic infrared sensors were developed in the 1950's for military intelligence and then were provided for medicine (2). The early thermologists of the modern era were accomplished and comprehensive experts in their respective fields of breast oncology, vascular medicine or neurology. These pioneering thermologists worked in specialty centers with a multi-modality approach to diagnostic medicine. They discovered that the thermograms of women with breast cancer characteristically presented aberrant high-energy blood vessels overlying the tumor (3). However, it was not until more recent times that it was established **the hot patterns of breast cancer were the result of dis-regulated hyperemia of core body-temperature blood flowing to a relatively superficial area in the female breast**

<https://www.thermascan.com/professionals.html>

ThermaScan Reference Laboratory, Inc

Therma-Scan is the world's premier source for the analysis and reporting of medical thermology and provides a regional diagnostic clinical imaging recently relocated to Arizona.. We are **the** experts in [medical thermology](https://www.thermascan.com/documents/sample-study.pdf). <https://www.thermascan.com/documents/sample-study.pdf>

Therma-Scan was founded in 1972 with unrelenting commitment to innovation, integrity and the highest ethical, technical and professional standards in the practice of diagnostic infrared imaging, Therma-Scan is the most experienced and accomplished provider of **medical thermology** in the world. We are proficient and certified by the **American Board of Thermology** in oncology, neuroscience and vascular thermology. We have combined our abilities in each of these sub-specialties to develop a **functional challenge (the Cold Stress)** as a powerful component of our **quantitative analytic system for the earliest indication of breast cancer**. In a practical sense, Therma-Scan invented **medical thermology**.

In an absolute sense, Therma-Scan invented the reference laboratory for **medical thermology** in 1975. We have analyzed and reported more than one million patient studies for more than forty network partners worldwide, all using **medical-grade digital infrared cameras** and imaging technique according to our rigorous standards.

Therma-Scan is medical grade. All stages of data transmission and storage are compliant with **HIPAA** regulations. Our methodology has five distinct steps of quality control in analyzing each patient's study. Our analytic technique is derived from the **Marseille System** to encompass all four diagnostic elements; pattern recognition, thermal energy differential, response to a standardized **functional challenge (the Cold Stress)** and time-based evolution. The **Marseille System** provides results of breast thermology on the standardized 'TH' scale. Medical practitioners appreciate the practical clinical concordance of the 'TH' scale with X-ray mammography's **BI-RADS®**.

