

Breast Cancer Screening Camp
for Female Employees of Tribhuvandas Foundation using *iBreast* Device
on
November, 7th 2019, “National Cancer Awareness Day”

India shoulders one of the largest burdens of breast cancer in the world. In 2018, the country reported 1,62,468 new cases of breast cancer and 87,090 deaths due to the same among women. The disease is the most common type of cancer among Indian women and, together with cervical cancer, oral cancer, lung cancer, and colorectal cancer, accounts for 47.2 percent of the overall cancer burden in the country. For every 2 women newly diagnosed with breast cancer, one woman dies of it in India.



iBreast is a US FDA cleared, first of its kind device that enables health workers to identify non palpable breast lumps in just a few minutes, without pain or radiation. *iBreast* has sensors that accurately assess & identify tissue elasticity differences between hard & stiff breast tumors versus normal breast tissue. This patented tactile sensor technology using Piezoelectric Sensor Array was invented by the scientists and doctors at Drexel University. It is a novel, quantitative and low-cost elastic modulus (E) sensor that can measure tissue compression and stiffness by

top down touching of the skin surface. Its ability to apply a gentle force and measure the subtle displacements electrically, all within the sensor, makes for an ideal ‘electronic palpation’ sensor for in-vivo breast imaging.

With a view to help the women employee in early detection of breast cancer, Tribhuvandas Foundation (TF) arranged a screening camp for early detection of breast cancer for its women employees with the *ibreast* device in association with Health & Care Foundation, Ahmedabad on 7Th November 2019 coinciding with the National Cancer Awareness day in India. TF had, before this, during the month of October 2019 (Breast Cancer Awareness Month) had organized awareness activities spreading messages to combat preventable cancers among women.

This screening camp was sponsored by Smt Sumiben Vinubhai Patel, a donor from Karamsad, who donated funds to meet with the total cost of the camp. The organization is thankful for her kind support.

In all, 35 female employees of the organization were screened for breast lump. The device proved to be very handy & painless apart from being non-radiating. It could be easily used by the trained health workers.

One out of 35 women, who were screened, was found to have lump in her left breast. She was referred to appropriate hospital for further investigation/s & treatment.

The feedback from employees who had undergone screening was very positive regarding the utility of this device. They found it to be a very convenient tool for the initial screening of breast cancer.