## AWARENESS CAN REDUCE RISKS

**Breast cancer is the malignant** tumour that starts in the cells of the breast. It occurs both in men and women

**In 2018, 1,62,468 new** cases and 87,090 deaths were reported in India

**For every 2 women** newly diagnosed in the country, one dies from it

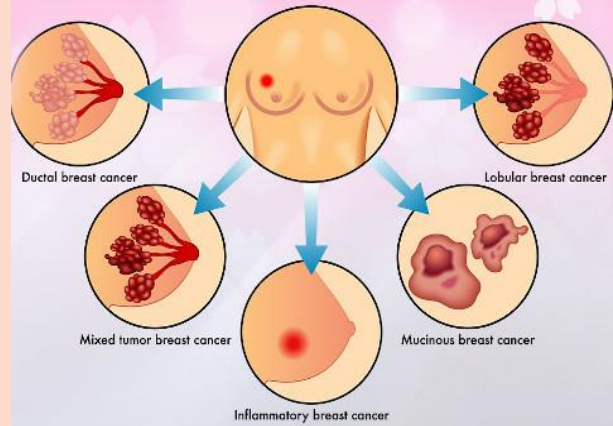**Breast cancer survival rates** vary greatly worldwide, ranging from 80% or over in North America, Sweden and Japan, to around 60% in middle-income countries and below 40% in low-income countries (Coleman et al, 2008)

**The low survival rates in** less developed countries can be explained mainly by the lack of early detection programmes as well as lack of adequate diagnosis and treatment facilities.

Source: World Health Organisation and Indian Council of Medical Research

## Types of Breast Cancer



Ductal breast cancer — Lobular breast cancer — Mixed tumor breast cancer — Mucinous breast cancer — Inflammatory breast cancer
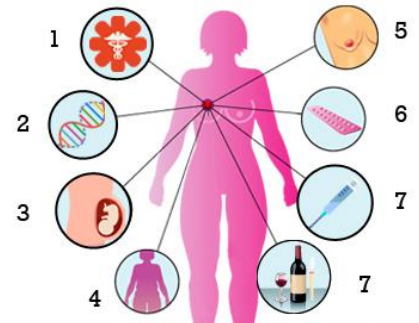
## WAYS TO REDUCE YOUR BREAST CANCER RISK

- Do not smoke
- Control your weight
- Limit or avoid alcohol
- Breast feed
- Be physically active
- Avoid exposure to radiations

World Health Organization

#Cancer



CHEST WALL — LOBULES — LOBE — DUCTS — NIPPLE — RIBS — MUSCLE — FATTY TISSUE
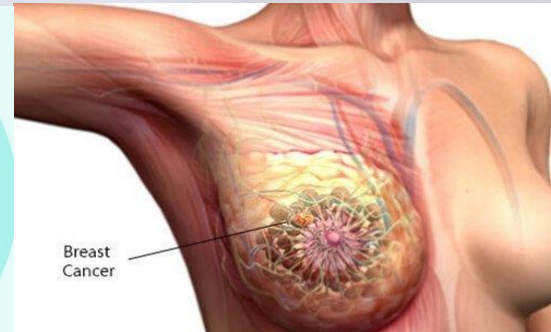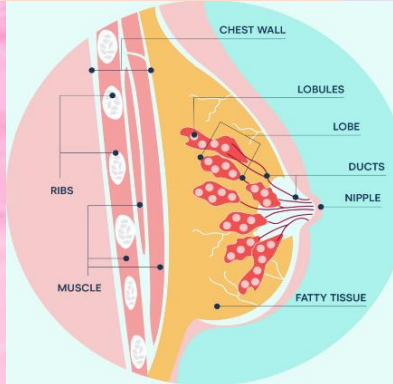


Breast Cancer

## Causes and Risk Factors of Breast Cancer



1- Family history
2- Gene mutation
3- Late childbearing
4- Early Menstruation & Late Menopause/ Obesity
5- Increased breast density
6- Prolonged use of oral contraceptives
7- Hormone replacement therapy after menopause
8- Alcohol intake/ tobacco

**T1** 2 cm or less
**T2** 2–5 cm
**T3** 5 cm or more
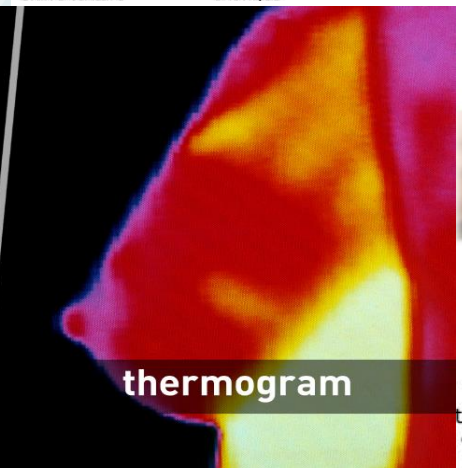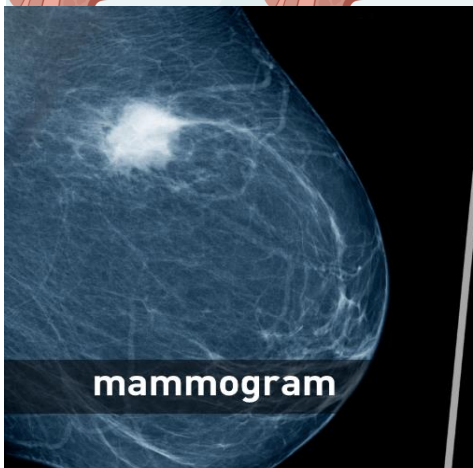**T4** Tumor of any size growing into the chest wall

### Tumor Size



## Signs of Breast Cancer



Lumps — Nipple discharge — Dimpling — Breast or nipple pain — Nipple retraction or inversion — Redness — Changes to the skin's texture — Lymph node changes — Swelling
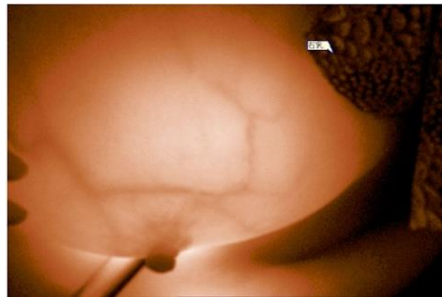


mammogram

thermogram

Breast self-exam: Manual inspection (reclining)

With fingertips close together, gently probe each breast in one of these three patterns

## Revolutionizing Breast Cancer Detection by a Disruptive Technique

# Breast Cancer Diagnostic Device

## Model *iL 8C*

**Normal Breast**
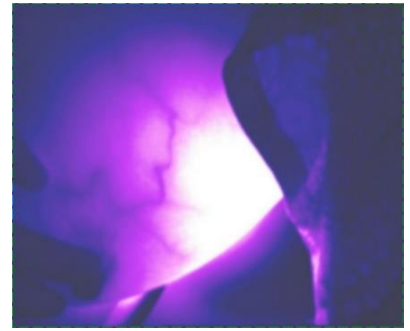
**Normal Breast with clear Blood Vessels**

**Newest Generation Diagnostic Device**

**Breast Galactocele**

**Breast Hyperplasia**

**Mastitis**

**A Safe Alternate to Mammography    A FDA Approved Concept**

## TECHNICAL SPECIFICATIONS :

1. Gray Scale : 256 8Bit A / D
2. Video Signal Output : Amplitude 1Vp-p, impedance of 75Ω
3. Analog Signal Input : Standard television signal 1Vp-p input, 525 lines/field or 625 lines/field
4. Display Color : 8 dynamic pseudo color
5. Camera Illumination : 0.1Lux Minimum
6. Camera Resolution : ≥500TVL
7. Display : 19 inch LCD

## Winning Advantages :

- **Infrared Image Managing System**, max. 24 sets of encoding forge color and dynamic filtering function.
- **Detects small number of Cancer Cells as they are highly metabolic**.
- **Excellent Tool for early Breast Cancer Detection.**
- **Economical. Analytical Software based. Harmless. No Radiation. 99% Accurate.**
- **Image Managing Functions** : Dynamic Video, Image Capture, Image Freeze, Dispose and Save.
- Dynamic Video and Cine Replay, Real Time Dynamic Video, capture the pictures Under REC or Replay.
- Dynamic encoding forge color, add forge color in full screen or in special area.
- Professional Case **History Managing System,** Patients Information can be Inputted, Checked, Stated, Transferred or Back up fast.
- Measure the perimeter and area of the focus automatically, character signs.
- Images can be saved to JPEG or BMP file format, DI COM format.
- Multi working interface of software can be selected, or be edited freely.
- Multi Reports formats can be selected, or be edited freely.
- User can amend the patients information freely. **Patients Data can be stored**.
- High Resolution and Low Intensity Infrared Digital CCD pickup Camera (Sony 1/3 CCD), **Image is clear**.
- Professional Infrared Lamp with Probe Mode, Intelligent zing adjustment and **Auto Protection**.
- Enabled **Video Editing Feature**. Any **Normal Colour Printer**. **Normal A4 size white Paper**.

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