



Standard Treatment Workflow (STW) for

BREAST CANCER

ICD-10-C 50

SYMPTOMS

- A. Asymmetry of breast or nipple areola or axilla
- B. **B**reast lump, bulge, blood vessels prominent
- C. **C**olour change of skin or nipple areola
- D. **D**eformed breast / nipple areola (nipple retraction), dimpling of skin, Discharge from nipple, **D**irect spread-skin (satellite nodule, ulcer, skin oedema), chest wall Distant spread - headache, jaundice, dyspnoea, bone

pains, ascites







Evaluation and management by multidisciplinary team (MDT) of oncology experts

SIGNS

A Breast changes

- · Asymmetry in shape/size of breast or nipple areola complex
- · Breast lump
- Nipple retraction/ulcer
- · Change in skin puckering, dimpling, thickening, ulcer, redness, edema & satellite nodules
- · Fixity to underlying muscles or chest wall

B Lymph node

- · lymph node(s) in axilla or supra-clavicular fossa
- C Systemic changes
- · Enlarged liver, ascites, bony tenderness, dyspnoea, pleural effusion

WORK UP OF A PATIENT WITH SUSPECTED BREAST CANCER- TRIPLE ASSESSMENT

CLINICAL BREAST EXAMINATION

IMAGING

- · Bilateral mammogram: for women >30 years
- · Ultrasound: breast and axilla
- · MRI breast in selected cases STAGING- TI, T2 No N1 Upto Stage 2A no metastatic work up Stage 2B upwards
- · Chest radiograph
- · Ultrasound whole abdomen
- · Bone scan
- · CECT chest and abdomen
- PET-CT (optional)

PATHOLOGY

- · Core needle biopsy (preferred) for type, grade, ER, PR, HER2/neu, Ki-67
- FISH test if HER-2/neu on IHC-2+/ equivocal

DO NOT

- · Ignore any lump or changes in breast & nipple areola complex
- Perform excision biopsy for diagnosis
- Perform FNAC or core needle biopsy before imaging.

MULTIDISCIPLINARY CARE

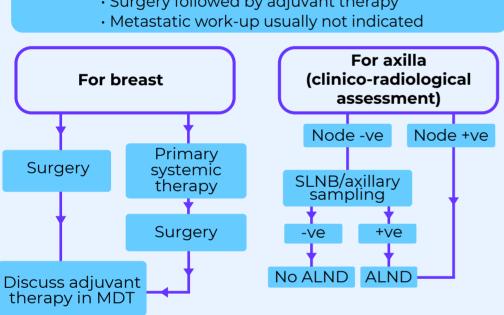
MANAGEMENT OF BREAST CANCER

Triple assessment (CBE, USG breast and axilla, mammography and core biopsy

EARLY BREAST CANCER

T1, T2, N0, N1, M0

· Surgery followed by adjuvant therapy



ADJUVANT THERAPY (AT)

Chemotherapy

· Consider for all patients with pT > 1 cm or node positive disease based on ER/PR/HER2/Ki-67

Radiotherapy

- After breast conservation surgery
- · After mastectomy with node-positive disease or pathological T3/T4

Targeted therapy

- · All HER-2/neu positive (3+) or FISH HER-2 amplified patients should receive trastuzumab for 12 months
- · Shorter schedules: 9 weeks to 6 months acceptable in some patients

Hormone therapy

- All ER and /or PR positive cases
- · For premenopausal women tamoxifen and for post menopausal women tamoxifen or aromatase inhibitors are appropriate
- · Minimum for 5 years, if high risk of recurrence like node positive, consider for up to 10 years
- · If AT is used zolendronic acid or other bisphosphonates can be added

ADVANCED BREAST CANCER

T3, T4, any N Any T, N2, N3

Metastatic work up: Chest X-ray, ultrasound abdomen, bone scan

CECT thorax abdomen, bone scan OR PET-CECT whole body

No metastasis

Locally Advanced Breast Cancer Intent of treatment:

curative

Neoadjuvant systemic therapy

Discuss extent of surgery MRM or Breast conservation surgery

Adjuvant systemic treatment therapy +RT surgery

OR

Metastatic Breast Cancer

Yes metastasis

Intent of treatment: palliative care

Consider hormone therapy chemotherapy targeted therapy as clinically indicated

Treatment of metastatic breast cancer

Chemotherapy

 Consider - Anthracyclines taxanes, platinum, capecitabine, cyclophosphamide,

methotrexate, etc.

· Sequential single agents preferred over combinations when possible

Hormonal therapy

- · Consider tamoxifen, aromatase inhibitors, fulvestrant, megesterol acetate, CDK 4/6 inhibitors, everolimus
- · Ovarian suppression indicated in premenopausal MBC patients, which can be surgical (bilateral oophorectomy) or radiotherapeutic (ovarian radiation) or medical (GnRH analogues)

HER2 targeted therapy

· Consider - trastuzumab, lapatinib, pertuzumab, add trastuzumab-emtansine

Bone targeted therapy

· All patients with bone metastases should receive a bone modifying agent (e.g zoledronic acid) 4-12 weekly

Role of surgery

- · It is indicated only for palliation of local tumour symptoms bleeding, fungation, etc
- · Insert intercostal drainage tube for malignant pleural effusion and chemical pleurodesis with talcum powder or bleomycin Role of radiotherapy

- · Most effective method for pain relief in bone metastasis
- · Is routinely used for brain metastasis: Hemostatic RT used for bleeding ulcer Pain control and palliative care

ABBREVIATIONS

ALND: Axillary lymph node dissection HER2: Human epidermal growth factor receptor 2 **CECT:** Contrast-enhanced computed tomography **ER/PR:** Estrogen receptor/Progesterone receptor

Department of Health Research, Ministry of Health & Family Welfare, Government of India.

FISH: Fluorescence in situ hybridization

IHC: Immunohistochemistry **MBC:** Metastatic breast cancer **PET-CT:** Positron emission tomographycomputed tomography scan **RT:** Radiotherapy

SLNB: Sentinel lymph node biopsy

◆ ENHANCE AWARENESS AND EARLY DETECTION OF BREAST CANCER BY SCREENING AS PER NATIONAL PROGRAMME

This STW has been prepared by national experts of India with feasibility considerations for various levels of healthcare system in the country. These broad guidelines are advisory, and are based on expert opinions and available scientific evidence. There may be variations in the management of an individual patient based on his/her specific condition, as decided by the treating physician. There will be no indemnity for direct or indirect consequences. Kindly visit the website of DHR for more information: (stw.icmr.org.in) for more information.