

Onco News

Published by: Somex Research and Health Pvt. Ltd.

(A Clinical Research and Academic Organisation) www.somexresearch.com

From the Desk of Editor

Dear readers!

Breast cancer is the most common female cancer worldwide representing nearly a quarter (25%) of all cancers with an estimated 1.67 million new cancer cases . There is a significant increase in the incidence and cancer-associated morbidity and mortality in Indian subcontinent as described in global and Indian studies. Earlier cervical cancer was most common cancer in Indian woman but now the incidence of breast cancer has surpassed



cervical cancer and is leading cause of cancer death. Sadly maximum patients in India presents in stage III or IV, leading to dismal outlook. Lot of advances have happened in management of metastatic breast cancer (MBC). We can expect survival of three years or so in most of these patients.

With regards Dr. Naresh Somani M.D., D.M.

Metastatic Breast Cancer (MBC)

MBC (also called stage IV) is breast cancer that has spread to another part of the body, most commonly the liver, brain, bones, or lungs. Cancer cells can break away from the original tumor in the breast and travel to other parts of the body through the bloodstream or the lymphatic system, which is a large network of nodes and vessels that works to remove bacteria, viruses, and cellular waste products.

Breast cancer can come back in another part of the body months or years after the original diagnosis and treatment. Nearly 30% of women diagnosed with early-stage breast cancer will develop metastatic disease. Some patients have MBC when they are first diagnosed with breast cancer (called "de novo metastatic"). This means that the cancer in the breast wasn't detected before it spread to another part of the body. A metastatic tumor in a different part of the body is made up of cells from the breast cancer. So if breast cancer spreads to the bone, the metastatic tumor in the bone is made up of breast cancer cells, not bone cells. Many people continue to live long, productive lives with breast cancer in this stage. There are a wide variety of treatment options for MBC, and new medicines are being tested every day.

MBC Symptoms and Diagnosis

The symptoms of MBC can vary greatly depending on the location of the cancer.

MBC Treatment and Planning

The main goals of MBC treatment are the following:

- Longest survival possible with the disease
- Fewest possible side effects from the cancer and its treatment
- Best and longest quality of life possible

There is no cure for metastatic cancer, but a good quality of life is possible for months or even years.

Treatment options for MBC vary based on:

- Site of Metastasis
- The presence and level of hormone receptors and/or HER2 in the tumor.
- Gene mutations in the tumor
- Specific symptoms
- Previous cancer treatments
- Patients overall healh

Chemotherapy

Chemotherapy is used in the treatment of MBC to damage or destroy the cancer cells as much as possible. Agents like Capecitabine, Carboplatin, Cisplatin, Cyclophosphamide, Docetaxel, Doxorubicin, Pegylated liposomal doxorubicin, Epirubicin, Eribulin, Fluorouracil, Gemcitabine as single agent or in combination chemotherapy is used for this purpose.

Radiation Therapy

Radiation therapy is the use of high-energy x-rays or other particles to kill cancer cells. Radiation therapy may be used to shrink or slow tumor growth. It can also treat symptoms from the cancer, such as pain.

Hormonal Therapy

Hormonal therapy, also called endocrine therapy, is an effective treatment for many tumors that test positive for either ER or PR.

Hormone receptor-positive tumors may use hormones to fuel their growth. The goal of this type of therapy is to lower the levels of estrogen and progesterone in the body or to block these hormones from getting to cancer cells. Options for hormonal therapy include:

- Tamoxifen: Tamoxifen is a drug that blocks estrogen from binding to breast cancer cells. It is a pill taken daily by mouth. Common side effects of tamoxifen include hot flashes as well as vaginal discharge or bleeding.
- Aromatase Inhibitors: Aromatase inhibitors (Anastrazole; Letrozole or Exemustine) decrease the amount of estrogen made by tissues other than the ovaries in women who have gone through menopause by blocking the aromatase enzyme. This enzyme changes hormones called androgens into estrogen when the ovaries have stopped making estrogen after menopause.
- Ovarian suppression: This is the use of drugs or surgery to stop the ovaries from producing estrogen. It may be used in combination with tamoxifen or an aromatase inhibitor. Drugs called gonadotropin or luteinizing releasing hormone (GnRH or LHRH) analogs can stop the ovaries from making estrogen,

MBC Symptoms and Diagnosis

The symptoms of MBC can vary greatly depending on the location of the cancer. analogs can stop the ovaries from making estrogen, causing temporary menopause. Surgery permanently stops estrogen production. Ovarian suppression is commonly used to treat hormone receptor-positive metastatic breast cancer in pre menopausal women, as complete estrogen suppression may be helpful against the cancer.

• Fulvestrant: Fulvestrant is a selective estrogen receptor downregulatr. It binds to the estrogen

- receptors, blocking the ability of estrogen to attach to these receptors. Unlike other oral hormonal therapies, fulvestrant is given monthly by an injection into a muscle.
- Combination hormonal therapy: Newer agents like CDK4/6 inhibitors have improved results greatly of single agents like letrozole or fulvistrant.

Targeted Therapy

Targeted therapies target specific characteristics of cancer cells, such as a protein that allows the cancer cells to grow in a rapid or abnormal way. Targeted cancer therapies are treatments that target specific characteristics of cancer cells, such as a protein that allows the cancer cells to grow in a rapid or abnormal way. Targeted therapies are generally less likely than chemotherapy to harm normal, healthy cells. Some targeted therapies are antibodies that work like the antibodies made naturally by our immune systems. These types of targeted therapies are sometimes called immune targeted therapies.

Targeted therapy for metastatic HER2-positive breast cancer

HER2-targeted therapies can be used to treat HER2-positive metastatic breast cancer. Some of these drugs may be used together with chemotherapy. In general, for a person with HER2-positive metastatic breast cancer, there is almost always a HER2-targeted therapy being used along with another systemic therapy.

- Trastuzumab: For MBC, trastuzumab can be given in combination with different types of chemotherapy or with hormonal therapy. Trastuzumab can be given as a weekly infusion, or once every 3 weeks. Patients receiving trastuzumab have a small (2% to 5%) risk of heart problems and should have monitoring with an echocardiogram periodically.
- Pertuzumab: Research shows that adding pertuzumab to trastuzumab and chemotherapy as part of first-line therapy for HER2-positive metastatic breast cancer lengthens lives with few additional side effects. Based on this data, the combination of trastuzumab, pertuzumab, and chemotherapy has become a standard of care for the first-line treatment of untreated metastatic HER2-positive breast cancer.
- Ado-trastuzumab emtansine or T-DM1: This
 is have previously received trastuzumab and
 chemotherapy with either paclitaxel or
 docetaxel.

T-DM1 is a combination of trastuzumab linked to very small amount of a strong chemotherapy.



More life to every moment!

BRAND NAME: AbNib

GENERIC NAME: Lapatinib Tablets IP 250 mg

WARNING: HEPATOTOXICITY

He patotoxicity has been observed in clinical trials and post marketing experience. The hepatotoxicity may be severe and deaths have been reported. Causality of the deaths is uncertain.

Abbreviated Prescribing Information COMPOSITION:

Each Film-Coated Tablet Contains:

Lapatinib Ditosylate IP	
Equivalent to Lapatinib	250mg
Excipients	q.s.
Colours: Red oxide of Iron & Yellow oxide of Iron.	



INDICATION In combination with especiables it is indicated in patients with absence or metastatic breast cancer whose tumour overexpress HER2 and who have received prior therapy including trasturanuals. In combination with hormone receptor positive metastatic breast cancer whose tumours overexpress HER2/not (Erbb2) overexpressing tumours are defined by PIR2+. or INIC Vest high gen amplification or poss amplification or poss amplification or possible of the presentation of possible of the presentation of the presentation of the administration of anti-cancer medicinal products. HER2 (her) (Erbb2) overexpressing tumours are defined possible of the presentation of the administration of anti-cancer medicinal products. HER2 (her) (Erbb2) overexpressing tumours are defined possible of the presentation of the administration of anti-cancer medicinal products. HER2 (her) (Erbb2) overexpressing tumours are defined possible of the presentation of the combination possible of the presentation of the prese



This allows the drug to deliver chemotherapy into the cancer cell while lessening the chemotherapy received by healthy cells. T-DM1 is given by every 3 weeks.

Lapatinib: Women with HER2-positive metastatic breast cancer may benefit from lapatinib when other medications are no longer effective at controlling the cancer's growth. The combination of lapatinib and the chemotherapy capecitabine is approved to treat metastatic HER2-positive breast cancer when a patient has already received chemotherapy and trastuzumab. The combination of lapatinib and 2positive and ER-positive cancer. Lapatinib is also used in combination with trastuzumab for patients whose cancer is growing while receiving trastuzumab. Lapatinib may be able to enter into the brain, and could be an option for HER2-positive breast cancer that has spread to the brain.

Onco Facts

Updates in Chronic Lymphocytic Leukemia-

- Ibrutinib/Rituximab Improves OS, PFS Versus FCR for Untreated CLL
 - The combination of ibrutinib and rituximab significantly improved overall survival and progression-free survival compared with standard fludarabine, cyclophosphamide, and rituximab for younger patients with chronic lymphocytic leukemia.
- Venetoclax/Rituximab Combo Achieves Durable, High MRD-Negative Status in CLL

The combination of venetoclax and rituximab for relapsed/refractory chronic lymphocytic leukemia produced high rates of undetectable minimal residual disease, which was associated with prolonged progression-free survival.

Upcoming Activities of SoMex

- 1. SoMex will organize "3rd Neuro Critical Care Update 2019" at the Pink City Jaipur on 29th & 30th June 2019 (Organizing Secretary Dr. Sunit Shah).
- SoMex will organize "3rd Precision Oncology and Annual International Breast Cancer 2. conference 2019" at the Pink City Jaipur from 11-13 October, 2019 (Organizing Secretary Dr. Sandeep Jasuja).

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Dr. Naresh Somani M.D., D.M, Editor, Newsletter

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Printed and Published by:

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