# Chairman's Message



Cancer care of the highest standard continues to be the focus of Hemalata Hospitals and Research Centre. We have successfully completed treating 1000 patients with our precise Linear Accelerator. We have been able to treat these patients in Bhubaneswar who would have otherwise traveled thousands of miles to get access to this treatment. The team of dedicated experts in our Radiotherapy Department deserves a special pat on their back for achieving this success.

Hemalata Hospital is continuously striving to increase the quality of cancer care by organizine CMEs and Cancer Detection Canns. We are committed to make Orissa cancer free.

Dr A.K.Rath Chairman and Managing Director Issue II, July 2009





Cancer Detection Camp held at Balasore



CME at MCL, Talcher



Cancer Detection Camp held at Rayagada

**HEMALATA HOSPITALS & RESEARCH CENTRE** 

Multi Specialty Hospital For Cancer & Neurosciences

### **Breast Conservation Surgery for Breast Cancer**

In the Indian scenario the news of cancer and that to mastectomy for cancer of the breast is a difficult treatment to accept forcing a woman to hide her disease until it has reached advanced stage. Now its time to inform and educate our Indian women that breast can be conserved even in cancer and a normal life can be led

Surgical management of breast cancer has changed significantly in recent years. The preferred method of treatment for most women with early breast cancer is conservation surgical therapy which includes a wide excision of the breast lump with or without plastic reconstruction and axillary dissection which has to be followed by radiotherapy to the remaining breast and chemotherapy and hormone therapy when indicated. Public education and screening programs have contributed to the early detection of small tumors in a greater percentage of women. Studies have shown that women diagnosed at early stages of invasive breast cancer have similar outcomes when they are treated by lumpectomy and radiation therapy or modified radical mastectomy (1,2,3). This technique allows women with different forms of breast cancer to conserve their breasts. But this can only be offered in earlier stages of the disease. Early detection is possible only when women understand the significance of breast self examination and clinical breast examination and the importance of coming to the doctor early, taking the complete treatment and coming for regular follow up.



Screening and Diagnosis Breast self examination and yearly clinical examination of all women above 35 can detect almost all breast cancers.(4) The investigation for a breast mass begins with assessment of risk based on family history, personal history of breast problems and physical examination. Significant signs of cancer include an irregular hard mass, bloody nipple discharge, lymph node involvement and skin changes. If none of these signs are present and the mass is asymptomatic, mammography (ultrasound for women 30 years of age or less) and needle biopsy should be performed (4)

### Breast Conservation Surgery (BCS)

Conservation breast surgery is possible in early breast cancers (Stage I and Stage II ) that are small not involving the skin or muscle, if lymph nodes are involved, they are not fixed to each other or to underlying structures. Some tumors which are locally advanced can be down staged by giving neo -adjuvant chemotherapy followed by a breast conservation surgery. Modified radical mastectomy continues to be appropriate for some patients, but breast conservation therapy is now regarded as the optimal treatment for most. Six prospective randomized trials have shown no difference in survival when mastectomy is compared with conservation surgery plus radiation therapy for Stage I and Stage II breast cancer.

Survival Rates of Conservation Surgery Plus Radiation Therapy Compared with Mastectomy Alone

TABLE 1 Count servine (19) Trial Endpoint(yrs) CS Phone (P value) Man Cancer Institute Trial in = 701) 18 65 65 (NS) Institut Gustave-Roussy (n = 179) 15 73 65 (.19) NSASP 8-06 (n = 1,843) 12 63 59 (.12) National Cancer Institute in = 237) 10 77 75 (.89) EORTC (n = 903) 8 54 61 NS

Danish Breast Cancer Group (n = 905) 6 79 82 NS CS - conservation surgery, RM - radical mastectomy

#### Choosing the right patient

Choosing the right treatment for the right patient is very important. A complete history and physical examination has to be taken to determine which surgery is best for each individual patient. A family history of breast cancer is not a contraindication to breast conservation surgery. Age alone should not be a determining factor in selecting surgical strategy, however elderly women may have co-morbid conditions that need to be considered. A woman who might refuse a re-excision or a mastectomy if margins come positive or has difficulty complying with six weeks of radiation treatments may be a better candidate for mastectomy.

The patient's wishes should always be considered when deciding treatment. For most patients, mastectomy will not influence the likelihood of survival but may have impact on the quality of life. Women whose breasts are preserved have fewer episodes of depression, arxiety, and insomnia A recent study of patients with early-stage breast cancer found women who undergo breast conservation therapy have improved body image, higher satisfaction with treatment and no more fear of recurrence compared with women treated with mastectomy

## Contraindications of Conservation Surgery

1) Multiple primary tumors located in different quadrants of the breast or associated diffuse micro-calcifications in the mammography which appear malignant,

2) A woman with history of previous irradiation is also not a candidate. Breast irradiation should not be given during pregnancy but it may be possible to perform breast conservation surgery in the third trimester and administer irradiation after delivery

#### RELATIVE

For a radiation encologist a history of collagen vascular disease is a relative contraindication because the poor vasculature in the skin leads to unacceptable cosmetic results.

 Tumor size is not an absolute contraindication, but the presence of a large tumor in a small breast treated with adequate margins might result in an unwanted cosmetic appearance.

#### **Surgical Techniques**

Wide excision of the tumor with minimum, from of healthy margin all award the humor manifely go to and memory the poctoral facial below and adjacent to the tumor is essential to prevent margin positivity and recommence. This may be achieved with a suidable hocinical analysism good commens and relativistic pile secure in the relations field avoiding incolors namer to the stream. The surgical bed may be manifed with relative to the relation monologist to identify the morbed during relations planning. The relation is closed without plany to collaborate time, and the relativistic and called in the consequence of a design of the dark of the relation not called the time of the plant of the planning. The relation is closed without planty to collaborate time.





Photograph and mammography of our patient with upper inner quadrant tumor right breast



Same patient after Breast conservation surgery

The authory dissection is performed with a transverse incition in the lower border of the autilia exceloral setterior, to be center border of the personnel in the control of the control of the performance of the control of the performance of the control of the control of the performance of the control of

## Complications of Surgical Treatment

Most common complications of breast conservation surgery are seromas, bleeding and infection. Seromas (accumulations of clear serous fluid) can develop and are usually treated with percutaneous needle aspiration. Major complications after axillary dissection are rare and include lymphedema of the arm and nerve damage.

# Chemotherapy

Chemotherapy has to be given in majority of the patients taking in to consideration age, size, grade of the tumor, lymph node status and receptor status of the tumor. Anthracycline based chemotherapy (Adriamycin) is the standard of care ,but addition of Taxot with Anthracycline or single agent Taxot is more effective in high risk patient. (like vouncer are, node positive status and neasitive receptor status.

#### Radiotherapy

Radiotherapy begins two to four weeks after completion of chemotherapy. The dose of radiation delivered to the entire breast is between 45 and 50 Gy. A booster dose of 15 Gy is delivered to the tumor site. Treatment is given for five days per week for a period of six weeks excluding Saturday and Sunday.

Randomized controlled trials have compared breast conservation surgery alone with surgery plus radiation therapy. These trials have shown a higher recurrence rate in women who did not receive radiation. A standard breast conservation therapy should therefore include radiation therapy.

### Hormone therapy

Pts having Estrogen receptor and Progesterone receptor positive status or either of them positive get survival advantage on taking hormone therapy like Tamoxifen in pre and post menopausal lady or aromatage inhibitors like letrozole and anastrozole etc in post menopausal lady.

Those who are having HER2 neu receptor positive, they respond to trastuzumab (Herceptin), a monoclonal antibody against HER2 neu receptor and have some survival advantage.

## Follow-Up

Clinical history, physical examination, and breast imaging are the most effective means of followen, Physical examination should be performed every three to six months for the first three years following surgery, and every six months for next broy ourse. After the years, annual physical examination provides adequate follow—p. Patients at exceptionally high risk of recurrence or development of a second primary tumor should be webthed more closely(ii).

### References :-

- Fisher B, Redmond C, Poisson R, Margolese R, Wolmark N, Wilckerham L, et al. Eight-year results of a randomized clinical trial companing total mastectomy and lumpectomy with or without irradiation in the treatment of breast cancer. N Engl J Med 1989;320:922-8.
- Veronesi U, Luini A, Del Vecchio M, Greco M, Galimberti V, Merson M, et al. Radiotherapy after breast-preserving surgery in women with localized cancer of the breast. N Engl J Med 1993;328:1587-91.
- 30 Arriagada R, Le MG, Rochard F, Confesso G. Conservative treatment versus mastectomy in early breast cancer: patterns of failure with 15 years of follow-up data. Institut Gustave-Roussy Breast Cancer Group. J Clin Oncol 1996:141558-64.
- (Apantaku LM. Breast cancer diagnosis and screening. Am Fam Physician 2000;82:596-602.)
- Winchester DP, Cox JD. Standards for diagnosis and management of invasive breast carcinoma. CA Cancer J Clin 1998;48:83-107.
- (Am Fam Physician 2002;66:2271-8,2281. Copyright© 2002 American Academy of Family Physicians.)

# HEMALATA HOSPITAL OBSERVES WORLD NO TOBACCO DAY ON 31st MAY 2009









Hemalata Hospitals and Research Centre, Bhubaneswar in association with IMA Bhubaneswar branch observed World No Tobacco Day on 31 May 2009. On this occasion eminent pelidemiologist and anti tobacco activist Dr. Prakash C Gupta, Director, Healis-Sekhsaria Institute for Public Health, Mumbai delivered a Lecture on TOBACCO, 6 HEALTH. Office bearers and members of IMA Bhubaneswar Branch participated.

#### DISEASES CAUSED BY SMOKING

CANCES

CHE STATE

CHE MAN DESCRIPTION

CHE MAN DES

About half of the male and one third of the female accordance patients in Eastern India antifer from Oral Leastern India antifer from Oral Leastern India antifer from Crail Control C

As per the initiatives of World Health Organisation (WHO), every year 31 May is observed as WORLD NO TOBACCO DAY. It has been three years in a row Hemalata Hospital has been observing this day. This year we conducted a free Oral Health Checkup and free Cancer Detection Camp on 30 and 37 May 2009.

SOURCE: WHO REPORT ON THE GLOBAL TOBACCO EPIDEMIC, 200

