

# Breast Surgery

## Introduction

In our division, operable breast cancer patients receive multi-disciplinary treatment with the aim of achieving a cure. Breast surgery, chemo-hormonal therapy, and radiation therapy are performed depending to the clinicopathological characteristics of each case. Sentinel node biopsy (SNB) is performed in clinically node-negative early breast cancer patients. Primary chemo-hormonal therapy is recommended for breast cancer patients with positive nodes or a tumor diameter of 3 cm or more. Breast or chest wall irradiation is applied to postoperative patients who have a high risk of loco-regional recurrence. About 2800 primary breast cancer patients have been managed since the opening of our hospital in July 1992.

## Clinical Activities

Two hundred and sixty-three cases of breast cancer and other breast neoplasms were operated on in 2006. Of the 253 cases of primary breast cancer, 76 (30%) underwent primary chemotherapy. Ultimately, modified radical mastectomy was performed in 37 cases, partial mastectomy with axillary lymph node dissection (ALND) in 76 cases, simple or partial mastectomy with SNB alone in 135 cases, and excisional biopsy or other procedures in 5 cases (Table 1). Breast-conserving surgery was performed in 211 cases (83%) and axilla-conserving surgery in 140 (55%).

Adjuvant chemo-hormonal and radiation therapies have been improving the relapse-free survival and overall survival rates of high-risk breast cancer patients. Adjuvant poly-chemotherapy including anthracycline and/or taxan is given to node-negative high-risk, or node-positive breast cancer

patients. Adjuvant hormonal therapy such as tamoxifen, LHRH analogue and aromatase inhibitor is effective for hormone receptor-positive breast cancer patients. Ten-year recurrence-free and overall survival rates are summarized in Table 2.

Table 1 Number of cases of operable breast cancer in 2006

Operation	No. of cases (%)
Modified radical mastectomy	37 (15)
PM + ALND	76 (30)
SM + SNB	4 (2)
PM + SNB	131 (51)
Other	5 (2)

ALND, axillary lymph node dissection; PM, partial mastectomy; SNB, sentinel node biopsy; SM, simple mastectomy.

Table 2 Recurrence-free survival rate (RS) and overall survival rate (OS) at 10 years of patients treated between 1992 and 2000 (Kaplan-Meier curve)

Stage	No. of cases	RS	OS
0	41	92%	100%
IA to C	268	91%	93%
IIA to B	717	73%	81%
IIIA to C	121	47%	49%
IV	19	—	24%

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