440

Introduction: The cancer of the mammary gland in men is a relatively rare disease in. Its rate is smaller by a factor of 100 compared to the rate among women, and it constitutes only 0.5% of all types of cancers among men in the country. As a result, not only the population at large, but the physicians as well are poorly informed about this disease.

Materials and Methods: Data to be presented in the study relies on observation of 88 men, who have undergone surgeries in the National Oncological Center of the Republic of Armenia in the period between 1985 and 2001. The average age of the subjects was 61.3.

Results and Discussion: The data demonstrate that the survival rate over 5 years is lower among patients with regional lymph node metastases (27.7% and 65.9% respectively, P < 0.002). This information allows us to identify the damage of regional lymph nodes as an extremely important prognostic indicator of the progression of the disease. The 5-year survival rate is also strongly correlated with the size of the tumor. Tumors smaller than 1 cm were correlated with higher survival rates than tumors that ranges between 1 and 3 cm (80%, 57.1%, and 33.3% respectively, P < 0.05). The study also focused on the grade of histological malignance for the prognosis of the disease. Its increase significantly shortened the 5-year survival rate of the patients (88.2%, 59.1%, 24.5% respectively, P < 0.05).

Conclusion: To summarize, metastatic damage of the regional lymph nodes, the size of the tumor exceeding 1 cm, and the high grade of histological malignance are very important prognostic indicator of the 5-year survival rate for men with cancer of the mammary gland. More than half of the patients in the study had metastatic damage of the regional lymph nodes, 54.4% of the men began the course of treatment with tumors larger than 3 cm. These numbers indicate also the low probability that patients will seek medical attention at the early stages of the disease, which is something characteristic of Armenia.

439 Poster

Distant metastasis after radical treatment of breast cancer: risk factors and their prognostic relevance in 378 consecutive nations.

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Background: The aim of present study was to evaluate the prognostic significance of 16 clinical, pathomorphological and immunohistochemical features for predicting distant metastasis (DM) in breast cancer (BC) nationts

Material and Methods: A retrospective study of 378 patients with invasive BC (T1–3N0–3M0), who were operated between 2000 and 2003 in our institution, was made. Out of them almost 80% underwent modified radical mastectomy (MRM). Tumor size (T), axillary lymph nodes (N status), age, menstrual status, histological type, grade, LVI, in situ component, ER, PR, HER-2, Ki-67, p53, bcl-2, cathepsin D and E-cadherin were evaluated. Mean time for follow-up was 56 (1–88) months. Survival curves were estimated by Kaplan–Meier methods and compared with the Log-rank test. Multivariate analysis of clinical variables by Cox regression analysis also was performed.

Results: During the follow-up period 66 (17.4%) patients developed DM and 76 (20.1%) patients died. Univariate analysis of data showed that T (p=0.0001), N status (p=0.0001), presence of comedo type in situ component (p=0.0001), LVI (p=0.16), Ki-67(+) (p=0.007) and Cathepsin D(+) (p=0.013) are independent prognostic indicators for elevated risk for DM. After multivariate analysis only number of involved lymph nodes (OR 8.8; 95% CI 3.5–21.77; p=0.0001) and presence of comedo type in situ component (OR 2.4; 1.19–4.74; p=0.015) retain their significant association with DM development.

T (p=0.001), N status (p=0.0001), ER (p=0.031), LVI (p=0.012) and comedo type in situ component (p=0.0001) are factors associated with 5-year overall survival by univariate analysis. After multivariate analysis again N status (OR 3.8; 95% CI 1.36–10.56; p=0.011) and in situ component of comedo type (OR 3.3; 1.61–6.56; p=0.001) were the only factors that retain their relevance with disease survival.

Conclusion: The study found that N status and presence of comedo type in situ component are the most reliable predictors of unfavorable events in BC patients. Relation between presence of in situ component and risk for LR after breast-conserving surgery is well established, but our result is one of the first in the literature who found such relation with the risk for DM in patients after MRM. Histological type of in situ component is more important than its extention, i.e no matter now extensive is comedo type intraductal component, it is always associated with risk for DM. The evaluation optimal number of risk markers is substantial for making an individualized decision regarding adjuvant therapy and follow-up, especially in N0 group.

Poster

181

Clinical and biological breast cancer feature according to age in a single institution

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Background: Breast cancer in older women is generally considered a less aggressive disease. The objective of this study was to determine the differences in presentation and treatment of older women (>60) with breast cancer.

Material and Methods: Data of 1045 patients were collected from breast cancer registers from Clinic for Oncology Nis between 1998–2002. We analyzed differences in presentation and care in women <60 and women >60 years of age. Variables analyzed included mode of presentation, stage at diagnosis (tumour size and nodal status), ER/PR status, initial surgery, and chemotherapy. Data relative to recurrence was also analyzed.

Results: Four hundred twenty-three women were ≤60 and 622 were >60 years of age. Younger women were significantly with a palpable mass (70% vs. 42%, p < 0.0001), and with advanced stage (p < 0.0001). Positive ER/PR tumours had 43% younger vs. 66% older patients. Younger women were significantly with a radical surgical procedure and were 2.6 times more likely to have reconstruction after mastectomy than older women. Younger women were more likely to receive chemotherapy (78.2% vs. 55.3%, p < 0.0001). In women with T1 tumours, 25% of the old women received chemotherapy vs. 40% of younger women (p = 0.01). There was no difference in the duration of chemotherapy between age groups, although duration of chemotherapy increased with increasing stage. More women >60 were treated with hormonal therapy (p = 0.0002). The overall recurrence rate in younger women was statistically higher than in older women (p = 0.0005).

Conclusions: Older women are more likely to present with non-palpable masses and have lower stage disease at presentation and less likely to have ER/PR negative tumours. Younger women choosing mastectomy and more likely have reconstruction. Younger women being more likely to be treated with chemotherapy, but older women were more treated with hormonal therapy.

441 Poster
Breast cancer specific survival by node status and lymphovascular

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Background: Lymph node status is single most important and reliable predictive factor for patients with invasive breast cancer. The utility of lymphovascular invasion (LVI) as an additional useful prognostic indicator has been heretofore ill defined.

Material and Methods: Data of 995 patients were collected from breast cancer registers from Clinic for Oncology Nis between 1996–2001. Age at diagnosis, tumour size, tumour palpability, estrogen receptor (ER) and progesterone receptor (PR) hormonal receptor status, nuclear grade, lymph node status, and presence or absence of LVI were analyzed.

Results: LVI was present in 357 (35.88%) patients. Lymph node positive

Results: LVI was present in 357 (35.88%) patients. Lymph node positive tumours had 501 (50.35%) patients. These patients were then divided for further analysis into four subsets based on nodal status and presence or absence of LVI.

LVI	Nodes (-)	Nodes (+)
present	103	254
absent	391	247

Multivariate analysis revealed that both lymph node status and the presence or absence of LVI were highly significant independent predictors of outcome. Kaplan–Meier survival curves showed that LVI was associated with a significant fall in survival at 5 years despite absence of nodal metastases (84% versus 78%, P < 0.0001), and LVI portended an even worse outcome in patients with nodal disease (67% versus 49%, P < 0.001).

Conclusions: Lymph node status and the presence or absence of LVI can be used to predict which subset of patients will have better prognosis (node negative + LVI absent) or bad prognosis (node positive + LVI present).