

4007

POSTER

Advanced age, vulnerability/frailty and presence of comorbidities are associated with a delayed diagnosis made more by self examination than screening mammography in older breast cancer women: results of a prospective observational trial in 5 Italian centers

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Background: Analyses carried out by the Surveillance Epidemiology and End Results program (SEER) indicate that the rate of death from breast cancer (BC) in elderly women correlates with the stage of disease at first diagnosis and with the number of coexisting diseases at this time. In older women barriers to regular screening through screening mammography may originate from the patient herself, from the primary care physician or from the organisation of the health system.

Patients and Methods: A prospective observational study involving 5 Italian centers evaluated the determinants of the choice for adjuvant treatment in women aged ≥ 70 years with BC. In this setting we also made an analysis on the impact of age and frailty/vulnerability at Multidimensional Geriatric Assessment (MGA) on modality of initial diagnosis and the T stage.

Results: 301 women had complete data to be considered eligible for this analysis. Sixty-five percent of T1 tumours were recorded in patients younger than 80 years compared to 34.4% in older patients ($p < 0.005$). The initial diagnosis was made in 128 cases (43%) with screening mammography, in 145 (48%) by self examination of the breast, while in 28 cases (9%) was an incidental finding during clinical examination for other problems. Increasing age correlated with reduction of diagnoses made with the screening mammography compared to self examination, while the percentage of the incidental diagnoses remained low (table). With regard to MGE, diagnosis with screening mammography was more frequent in fit patients (58.6%) compared to vulnerable/frail patients (40.9%, $p < 0.0001$), while the presence of relevant comorbidities had weak association with diagnosis by self examination ($p = 0.045$).

Conclusion: In our series of elderly women increasing age correlated with larger diameter of breast cancer and reduced access to screening mammography. Vulnerability/frailty and presence of comorbidities were associated with delayed diagnosis, made more frequently by self examination, compared to early diagnosis by mammography. No age alone but a full MGA should guide in the decision of proposing screening mammography to elderly women.

Age Groups	Screening mammogram		Self examination		Incidental diagnosis		Total	
	pts	%	pts	%	pts	%	pts	%
70-75	80	56.3	55	38.7	7	4.9	142	100
76-80	37	42.0	40	45.5	11	12.5	88	100
81-85	9	16.4	37	67.3	9	16.4	55	100
>85	2	12.5	13	81.3	1	6.3	16	100
Total	128		145		28		301	

4008

POSTER

Risk factors for breast cancer in elderly women – retrospective analysis of 206 patients

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Background: Breast cancer (BC) is the most frequent cancer in women, and its incidence varies widely by geographic region. Several risk factors (RF) have been reported, including personal, familial and reproductive history, and hormonal and medical factors, but their weight is different according to age. The aim of the study was to evaluate retrospectively the importance of RF for BC in elderly women, all residing in the Northeast of Italy.

Patients and Methods: The study population included 102 elderly (>65 years) women (median age 72 years, range 65-87) with confirmed primary BC (cases), and 104 population-based age-matched patients

(controls), who underwent physical breast examination and routine mammography. Patients with previous malignancies were excluded. The following parameters were considered: age, family history of BC, menstrual and reproductive data (age at menarche, menstrual pattern, number of births and abortions, age at first birth, lactation), use of oral contraceptives and hormonal replacement therapy, body mass index (BMI).

Results: In the univariate analysis we found significant ($p < 0.01$) differences between cases and controls with regard to: (1) age at menarche (12.3 ± 1.6 vs. 13.1 ± 1.6 years) and menopause (49.1 ± 4.6 vs. 48.3 ± 3.6 years), (2) years between menarche and menopause (13.0 ± 4.7 vs. 11.2 ± 4.1 years), (3) number of births (1.4 ± 1.2 vs. 1.8 ± 1.3), (4) estrogen replacement therapy (ERT) (39.6 ± 29.2 vs. 33.7 ± 28.0 months). Multivariate analysis using a logistic regression model showed that only three independent parameters correlated with BC: age at menarche, number of births, and months of ERT. The Odds ratio (OR) for BC calculated from the observed vs. predicted values obtained using the logistic regression function was 5.05 (95% CI 3.6-7.1), while the OR of single variables was < 2.5 (95% CI 1.51-3.32).

Conclusions: There was a significant relationship between prolonged (>3 years) use of ERT and risk of having BC in elderly women. However, the direct role of estrogens in BC is still unclear. On the other hand, most of the classic RF (i.e. lactation, oral contraceptive use, family history of BC, BMI > 24) were not associated with BC, suggesting that in the selection of a high-risk population in each geographic area other parameters should be considered.

4009

POSTER

Aspects of age and gender in geriatric assessment in elderly cancer patients

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Background: Geriatric assessment (GA) must be integrated into treatment concepts and decision algorithms in elderly cancer patients. Aim of this study was to investigate the impact of age and gender in geriatric assessment (GA) in tumor patients.

Material and Methods: GA was applied in 78 tumor patients 60+, treated at the ward of the Department of Internal Medicine V (Hematology and Oncology), Medical University, Innsbruck, Austria, to assess the domains functional capacities, comorbidities, quality of life, cognition and social support.

Results: In this cohort women were older (median 75 yrs) than men (72 yrs) ($p < 0.03$). A trend towards a gender effect was observed in iADL (Instrumental activities of daily living) as women displayed better functional activities than men: iADL (median 8 vs 6) $p = 0.063$; this effect even increased in age adjusted analysis ($p = 0.05$). In contrast the Timed up and go test was performed faster by men (14.22 seconds) than by women (10.35 seconds) ($p = 0.048$); however, this difference was less pronounced in age adjusted models ($p = 0.0889$). Interestingly social support was somewhat lower in women and was not age-dependent (F-Sozu 4.23 vs 4.53, $p = 0.094$). In WHO-Scale, Karnofsky Index (KI), Activities of Daily Living (ADL), Mini Mental State Examination (MMSE), Geriatric Depression Scale (GDS-30), Cumulative illness rating scale for geriatricians (CIRS-G), Charlson Comorbidity Index, VES-13, PPT, FACT-G no gender effects were observed.

Conclusions: These results emphasize the fact, that gender differences should be considered and recognized in the comprehensive evaluation of elderly tumor patients.

4010

POSTER

Role of adjuvant chemotherapy in elderly (≥ 70 years) women with high-risk early breast cancer

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Background: Women older than 70 years have been underrepresented in breast cancer adjuvant chemotherapy (ADJCT) trials due to concerns about toxicity, safety and benefits of chemotherapy. Scarce data exist on the effectiveness of ADJCT in these patients (pts).

Methods: Charts of all consecutive elderly pts aged 70 years or more with early breast cancer (T1-4; N1-2; M0) referred to our Institution between 1999 and 2004 were reviewed for tumour stage and treatment. High risk patients were identified if any of these factors were present: T > 2 cm, Grade 3, N positive and Estrogen receptor (ER) negative status, c-erb-B2 +++. Primary end point was the evaluation of the role of ADJCT in elderly pts with high risk early breast cancer, with regard to overall survival