

Materials and Method: A total of 42 lesions were treated on 5 patients of who had biopsy proven chest wall recurrence despite mastectomy, chemotherapy and radiation. Each patient underwent a single photodynamic therapy session in which the drug SnET2 (1.5 mg/kg) was injected followed 24 hrs later by laser by laser light treatment at 665 nm (@ 150 m W/sq.cm. for a total light dose of 200 J/sq.cm).

Results: Objective response rates post PDT were CR 92% PR 8% NR 0%. Morbidity was minimal with no systematic toxicity. One patient developed a wound infection that responded to oral antibiotics. No photosensitivity reactions were reported in this set of patients. Post treatment pain was reported in patients, which could be treated with medication and application of cod compresses.

Conclusions: PDT offers an excellent local control rate of chest wall recurrence following multimodality treatment failure with minimal morbidity. The treatment is given in a single session and on an outpatient bases. In patients who may register a PR or have recurrence or the incidence of further chest wall nodules post PDT, the treatment is repeatable. No resistance or enhanced morbidity is demonstrated to a second or third course of PDT.

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POSTER*

Response to primary chemotherapy of breast cancer

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The aim of this study was to evaluate mammography, ultrasound and dynamic MRI for response monitoring in primary chemotherapy of breast cancer.

Patients and Methods: 200 women with breast cancer have been treated by primary chemotherapy after core biopsy. Response was monitored before each chemotherapy cycle and before operation by mammography and ultrasound. 25 women have been monitored using a specially designed dynamic TurboFLASH MRI-technique with a high temporal resolution.

Results: Following chemotherapy the correlation of imaging with histopathological size was reduced. In diffusely spreading tumors histopathological tumor size was usually larger than estimated. Unchanged microcalcifications of the ductal type still reflected the extension of the tumor. Altered tissue distribution of gadolinium in dynamic MRI after 2 cycles of chemotherapy correlated with histopathological tumor regression. By WHO criteria 10% of T₂₋₃ tumors showed complete regression on imaging, 55% showed partial remission, 32% showed no change, 3% progressed. Pathohistologically 6% showed no invasive tumor, 18% showed invasive tumor below 5 mm, a further 27% showed clear signs of regression.

Conclusion: Mammography, ultrasound and MR can be used to monitor the response of breast carcinomas under primary chemotherapy. Dynamic MR shows promise for early prediction of tumor response. All three methods have limitations in the determination of preoperative extension of residual tumor.

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POSTER*

Response to chemotherapy is the first prognostic factor in metastatic breast cancer

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Purpose: In a retrospective analysis of a large series of patients (pts) with metastatic breast cancer treated by chemotherapy (CT), prognostic factors for survival were evaluated.

Methods: 1430 pts included from 1977 to 1992 in eight consecutive randomized trials of anthracycline-based first line CT in metastatic breast cancer, were analyzed. Response to CT was assessed after 4 and 8 months of treatment.

Results: Objective response rate was 60%, 228 (16%) pts achieved complete responses (CR). Median overall survival (OS) was 24 months. At multivariate analysis for prolonged survival, response to CT was the first prognostic factor followed by normal LDH level, absence of previous adjuvant chemotherapy, 2 or less metastatic sites, longer disease-free interval from initial diagnosis, high Karnofsky index and absence of hepatic metastasis. For pts with CR, partial response, stable disease and progressive disease, median OS and probability of survival at 5 and 10 years were respectively: 45 mths, 34%, 12%; 31 mths, 21%, 7%; 23 mths, 12%, 3%;

9 mths, 3%, 0%. Date of the first observation of CR, at 4 or 8 mths of CT, was not a predictive factor of duration of OS.

Conclusion: Response to an anthracycline-based chemotherapy is the first prognostic factor in metastatic breast cancer and is independent of the other disease characteristics. Prolonged survival can be achieved in pts with CR justifying research for remission consolidation strategies.

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POSTER*

Dose finding study of high-dose epirubicin (E) and docetaxel (T) as first line chemotherapy in advanced breast cancer (ABC)

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Purpose: Primary objective of the present study is to determine the maximum-tolerated doses (MTDs) of E and T, given q 3 weeks, in pts with ABC without a prior chemotherapy (C) for metastatic disease and no anthracycline-containing adjuvant C. MTDs with G-CSF support were then to be defined.

Methods: E (15 min inf.) followed after 1 h by T (1 h inf.) were given for a maximum of 4 cycles (cy) to prevent cumulative cardiotoxicity; T alone was continued for a maximum of 4 cy in responders. Steroids were given before and after T for a total of 3 days. CBC was performed twice a week, LVEF and tumour response were assessed every 2 cy.

Results: From 7/96 to 2/97, 19 pts received 57 cy of the combination at three dose levels. Starting doses were 75 mg/m² of E and 75 mg/m² of T. E doses were increased to 90 mg/m² and 120 mg/m², while the T dose was kept at 75 mg/m². Haematological toxicity (HT) is evaluable in 15 pts. grade 4 neutropenia was universal, lasting a median of 4 days. Median neutrophil nadir was $0.23 \times 10^9/l$, significant thrombocytopenia or anemia were absent. At E 90 mg/m² and T 75 mg/m² 3/6 pts required G-CSF support (neutropenic fever: 2 pts, grade 4 neutropenia of >7 days: 1 pt). G-CSF was routinely given at the dose level of E 120 mg/m² and T 75 mg/m². Non HT was mild; neither moderate to severe mucositis nor cardiotoxicity were observed. Partial responses were achieved in 11/13 pts.

Conclusions: The next dose level will be E 120 mg/m² and T 85 mg/m² with G-CSF support.

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POSTER*

Toxicity and effect of single agent vinorelbine (V) in anthracycline-resistant metastatic breast cancer (ARMBC). Preliminary results of a phase I-II study by the danish breast cancer cooperative group (DBCG)

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ARMBC is a disease entity with a dismal prognosis. Recently, a number of drugs have demonstrated activity of which V is of particular interest because of its relatively low toxicity. The aims of the present study were to define the maximum tolerated dose (MTD) of V when administered on days 1 and 8 q 3 w and assess associated toxicities. From 11/95 to 10/96 54 patients with measurable or evaluable ARMBC and PS ≤ 2 entered the phase I part of the study. Dose of V was escalated from 25 mg/m² by 5 mg in cohorts of 8 patients until grade IV haematological or grade III non haematological toxicity (WHO) was recorded pre-cycle 2 in $\geq 50\%$ of the patients. If additional patients were registered for treatment at a given dose level before toxicity pre-cycle 2 could be evaluated the patient was allocated to treatment at the lower dose level. The MTD has been reached at 40 mg/m². Median WBC nadir $1.0 (0.7-6.7) \times 10^9/l$. Dose limiting toxicities included grade III constipation and oral stomatitis in 5/8 evaluable patients. Other common toxicities have been nausea, vomiting, diarrhoea, infection, fever, local phlebitis, none of which have been dose limiting. At the first evaluation (pre-cycle 4) complete and partial responses have been recorded as follows: 25 mg 2/7, 30 mg 4/13, 35 mg 2/7. The phase II part of the study is ongoing at 35 mg/m².