678 POSTER

Taxol[™] (Paclitaxel), Epirubicin and Cyclophosphamide (TEC) in the treatment of metastatic breast cancer (MBC): Results of a phase I study

J.-M. Nabholtz, K. Khoo, J.R. Mackey, M. Smylie, T Al-Tweigeri, D. Dudgeon, O. Keller, O. Foerster, C. Olweny, T. Shore, E. Sansregret, E. Stiles, H. Dulude, G. Gallant, B Brown. Cross Cancer Institute, Edmonton, Alberta; Manitoba Cancer Foundation; Bristol-Myers Squibb, Montreal, Canada

This phase 1 study evaluated the feasibility and toxicity of chemotherapy combining Paclitaxel (T) (1-hr. infusion), Epirubicin (E) and Cyclophosphamide (C) in patients (pts) with MBC. Pts were treated in cohorts of 6 with dose escalation of T as follows: DL1: 135 mg/m2; DL2: 175 mg/m2; DL3: 200 mg/m², DL4. 225 mg² and DL5: 250 mg/m² with E 50 mg/m² and C 500 mg/m² q.3 weeks maximum 10 courses). Toxicity is graded according to WHO criteria. Thirty-three pts without previous anthracycline, median age 48 years (30-71) were enrolled (173 courses), 6 pts at DL1 and DL2 and 7 pts DL3, DL4 and DL5. Dose-limiting toxicity has been reached at DL5 (2 pts, grade 3 neuropathy). Median neutrophil nadir for DL1 through DL5 respectively was 0.6, 0.55, 0.9, 0.8, and 0.22 \times 109 with 2 cases of febrile neutropenia. Five pts experienced decrease of left ventricular ejection fraction (MUGA scan). One pt had grade 4 vomiting, and 9 pts other grade 3 toxicities. Responses (28 pts) were as follows. 1 CR (4%), 16 PR (57%), 8 SD (29%), and 3 PD (11%). The maximal tolerated dose of T d2 (1-hr infusion) is 225 mg/m, when given with E 50 mg/m² and C 500 mg/m². This regimen has significant activity in pts with MBC.

679 POSTER

Phase I dose finding study of high dose vinorelbine (VNR), mitoxantrone (MTX) and cyclophosphamide (C) with bone marrow support in metastatic breast cancer (MBC)

J.-M. Nabholtz, D. Stewart, T. Al-Tweigeri, J.-P. Moquin, J.R. Machey, M. Smylie, O. Keller, E. Sansregret, D. Au, S. Follett. Cross Cancer Institute, Edmonton, Alberta, Canada

We studied the toxicity of high dose (HD) VNR (96-hour infusion), MTX and C after response to induction chemotherapy (ICT) as first line therapy of MBC. Thirty-one patients (Pts) were treated with one course of HD VNR and fixed doses of MTX (64 mg/m2) and C (6 gm/m2) followed by autologous peripheral stem cell transplantation (APSCT) and G-CSF. Dose levels (DL) of VNR were increased as shown: DL1: 45 mg/m² (3 Pts); DL2: 55 mg/m² (3 Pts); DL3. 65 mg/m² (3 Pts); DL4: 75 mg/m² (3 Pts); DL5: 85 mg/m (11 Pts) and DL6: 95 mg/m2 (8 Pts). Toxicity was graded (GR) according to WHO criteria. Pt population was as follows: mean age: 44 years (30-64); previous CT: 16 Pts (52%), 6 Pts with adriamycin (A) (20%); ICT: taxane-based CT (18 Pts), either Taxolere-A-C (TAC: 11 Pts) or Taxol-epiA-C (TEC: 7 Pts), FAC or FEC (13 Pts). Haematologic toxicity post-HDCT consisted of GR 4 neutropenia and thrombocytopenia (median duration: 11.5 and 10 days). Infections were documented in 38% of cases. Dose limiting toxicity was reached at DL6 (95 mg/m²) with 3 reversible acute psychotic episodes (GR4) while using narcotics because of increased mucositis (GR 4:3 cases). As well, 4 Pts had GR, 3-4 fatigue. No peripheral neuropathy was seen except 1 GR 3 at DL6 (3%). Reversible decrease of left ventricular ejection fraction (LVEF) (MUGA scan) was seen in 6 Pts (26%) from DL1 to 5 and in 7 of 6 Pts at DL6 (CHF: 1 pt, 3%). There was no toxic death. The maximal tolerated dose of VNR by 96-hour infusion is 85 mg/m2, when given in combination with MTX 64 mg/m² and C 6 gm/m² with APBSCT in MBC.

680 POSTER

Phase II study of taxotere monotherapy in previously treated patients (pts) with advanced breast cancer (ABC)

C.G. Alexopoulos¹, G. Rigatos², A. Efremidou², A. Papacharalambous¹, A. Alexopoulos², M. Vasilomanolakis², E. Patila¹. ¹ Evangelismos Hospital; ²St Savas Cancer Inst; For the Hellenic Cooperative Interhospital Group in Oncology (H-CIGO), Athens, Greece

Alm: In this phase II study we assessed the activity of Taxotere (TxT) monotherapy in ABC pts previously exposed to chemotherapy (CT).

Patients-Methodology: TxT 100 mg/m2, IVI/1 hr, q.3 wk, with corticosteroids premedication, was administered to 49 pts, median age 60 and PS > 60. Six pts (12%) had received only adjuvant CT before TxT (1st line) while 43 (88%) had received therapeutic CT (2nd line), including an anthracycline in 41 pts (84%). 31 pts (63%) had skeletal metastases, 24 (49%)

lung and/or pleural, 28 (57%) soft tissue, and 15 (31%) liver metastases. Unless an early progression was observed, response was evaluated after 3 and 6 courses. Pts still in PR after the 6th course, received 9 courses in total. All pts followed for at least 4 wks after the 1st course, are considered evaluable.

Results: 48 of 49 pts (98%) were evaluable. 38 (79%) completed 3, 31 (64%) 6 and 20 (42%) 9 courses. 2nd line TxT: after 3 courses, 27 pts (64%) had a PR After 6 courses, 25 pts (52%) were in PR and 1 (2%) in CR. 1st line TxT: 3 pts (50%) demonstrated a PR after 3 and 6 courses. Median response duration was >8 months and median survival >10 months. Toxicity was assessed in a total of 295 cycles and it was found manageable with only 1 toxic death.

Conclusion: TxT is a very active drug in previously treated ABC and surely deserves upfront movement as first line polychemotherapy.

681 POSTER

Conventional-dosage of Adriamycin and Paclitaxel vs. high-dose-chemotherapy with Cyclophosphamide, Mitoxantrone and VP-16 in the treatment of metastatic breast cancer – A randomized study

G. Dingeldein, B. Flath, O. Sezer, D. Lüftner, H.-G. Mergenthaler, K. Possinger. Humboldt-University-Hospital Charité, Berlin

In metastatic breast cancer there is controversy concerning the use of high-dose-chemotherapy (HD-CTX) vs. conventional chemotherapy. The data seems to favor HD-CTX with respect to remission rate, disease-freeinterval and overall survival. Until very recently no randomized study was performed and Bezwoda et al. have been the very first to show in a randomized manner a clear benefit of their HD-CTX-arm when compared to conventional doses with Cyclophosphamide, Mitoxantrone and Vincristine. However this study has been criticized because of its low remission rate, short follow up-time as well as the mismatched use of tamoxifen. We, therefore, conducted a randomized study to analyze the benefits of the high-dose regimen as published by Bezwoda et al. vs. today's most effective polychemotherapy-regimen as published by Gianni et al., i.e., 200 mg/m2 Paclitaxel and 60 mg/m2 Adriamycin. Both regimen can be conducted in an out-patient-setting and PBSCT were mobilized by stimulation with G-CSF for 5 day. Remission rates as well as both cardiac and pulmonary toxicities and quality of life aspects will be discussed. Furthermore pharmacokinetic data of Mitoxantrone and Cyclophosphamide as evaluated in the HD-CTX-arm, will be presented.

682 POSTER

Phase I/II study of alternating docetaxel and mitoxantrone with G-CSF support in advanced breast cancer (ABC)

C. Kourousis, N. Androulakis, S. Kakolyris, P. Heras, N. Vardakis, A. Kotsakis, C. Kalbakis, N. Meramveliotakis, D. Hatzidaki, G. Samonis, V. Georgoulias. School of Medicine, University General Hospital of Heraklion, Crete, Greece

Purpose: To investigate the alternative administration of Docetaxel (D) and Mitoxantrone (M) in the treatment of ABC.

Methods: Forty chemotherapy-naive patients with histologically confirmed (ABC) were enrolled in the study. The median age was 60 years, the median PS (WHO) was 0 and all patients had measurable disease, intrapatient dose-escalation was permitted. The dose escalation levels and grade 4 toxicity are presented in the Table.

Results: A total of 137 cycles were administered. The main toxicity was myelosuppression. Granulccytopenia grade 3 and 4 occurred in 15 (11%) and 33 (24%) cycles, respectively; 4 out of 18 (22%) patients with grade 4 neutropenia developed neutropenic fever. There was no treatment-related death. The MTD has not yet been reached. There were

D mg/m ² (d1)	M (mg/m²) (d8)	mG-CSF (5 μg/Kg)	No. of patients	No. of patients with hematologic toxicity	No. of patients with non- hematologic toxicity
75	8	-	6	4	1
75	8	+	7	2	_
75	10	+	11	2	_
100	10	+	13	2	-
100	12	+	14		-
100	14	+	11	1	1
100	16	+	11	1	_
100	18	+	7		_
100	20	+	7	1	_
100	25	+	7	ongoing	