S198 Tuesday 23 October 2001 Poster Sessions

Conclusions: The combination of CPT-11 with gemoitabine is an active and well tolerated regimen in the treatment of metastatic breast cancer patients pretreated with taxanes and anthracyclines.

723 POSTER

'Faslodex' (ICI 182,780) 250 mg shows consistent pharmacokinetic profile when given as either a one x 5-ml intra-muscular (i.m) injection or two x 2.5-ml injections in postmenopausal (PM) women with advanced breast cancer (ABC)

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Faslodex (ICI 182,780)(FAS), is a novel estrogen receptor downregulator that has no estrogen agonist activity. FAS is administered as 250 mg i.m injection once monthly. In the North American based FAS trials, differences in clinical practice preferences led to FAS 250 mg being given as 2 x 2.5 ml injections as opposed to 1 x 5 ml dose in Europe/Rest of World based trials. Given the differences in dose administration within the FAS breast cancer trial programme, it was therefore considered important to compare the PK of FAS when given as either 1 x 5 ml dose or 2 x 2.5 ml dose.

Here we report the PK findings of an open, randomized multicentre, parallel-group trial in PM women with ABC. Patients (n=38) were randomly assigned to either a single dose of FAS, as 1 x 5-ml injection (n = 20) or 2 x 2.5-ml injections (n = 18). Blood samples for PK analysis were taken at various time points up to 28 days after treatment. Tolerability assessments were also made. PK parameters included AUC0-28days, C28 days, Cmax and tmax. Safety follow-up continued until 8 weeks after the injection was given.

The geometric mean AUC0-28days blood levels were 106.8 ng.day.ml and 105.5 ng.day.ml for 1 x 5 ml and 2 x 2.5 ml respectively. The ratio of the geometric means of 1.01 (95% Cl 0.68*1.51) showed there was no significant difference in AUC between the two dose regimens (p=0.94). The geometric means of C28 days, and Cmax and the median of tmax were similar in both treatment groups. Both treatment regimens were well tolerated, with there being no major differences in adverse events. The data from this study were in line with AUC0-28 days data from an earlier study involving postmenopausal women with primary breast cancer, where based on 22 women receiving FAS 250 mg (1 x 5 ml), the geometric mean AUC0-28 day was 116.5 ng.day.ml.

In conclusion, there was no significant difference in PK and adverse events between 1 x 5-ml injection and 2 x 2.5-ml injections of FAS. Based on these PK findings, the dosing regimen employed with FAS in the clinical setting would not be expected to impact on the clinical outcome indicating that the 250 mg dose of FAS may be administered as either 1 x 5-ml injection or 2 x 2.5-ml injections. Additionally the single-dose PK findings in two trials using FAS 250 mg (1 x 5 ml) demonstrate the consistency of FAS PK between trials.

724 POSTER

Cardiac safety of herceptin(R) in combination with epirubicin plus cyclophosphamide: interim results of a phase il study in patients with metastatic breast cancer

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The monoclonal antibody Herceptin" (H) is indicated for treatment of HER2-positive metastatic breast cancer (MBC), as monotherapy or in combination with Taxol. Previous trials have shown that the concomitant use of an anthracycline (A)-containing regimen (doxorubicin (D)) plus cyclophosphamide (C)) together with H is associated with an increased risk of cardiotoxicity as compared to DC alone. Epirubicin (E) is considered to have less cardiotoxic potential than D. This phase II study was designed to compare the incidence of cardiotoxic events in patients treated with EC plus H, versus patients treated with EC alone. Dose-limiting cardiotoxicity was defined as (a) a decrease of left ventricular ejection fraction (LVEF) of more than 10% points from the screening value and below 50%, or (b) acute coronary syndrome including MI, cardiopulmonary resuscitation, congestive heart failure or severe rhythm disturbances. Patients with HER2-positive disease would all receive EC+H. A control arm of HER2-negative patients would receive EC alone. The dose of E for the first 25 HER2-positive patients was 60mg/m2. Providing dose-limiting cardiotoxicity was not encountered,

after completing 6 cycles of ECH, the dose of E would be escalated to 90mg/m2 for a second cohort. Subsequently, the number of patients in both active and control arms would increase to 100. All patients would have prospective cardiac monitoring using echocardiography and results would be reviewed by an independent cardiac review board.

Here we report the results of cardiac assessments in the first cohort of HER2-positive patients treated with 60 mg/m2 E, dose of C plus H (2mg/kg/week maintenance). Data are available for 25 patients. Baseline values for LVEF were in the range 57 to 82%. Four patients discontinued before reaching the sixth cycle of ECH for non-cardiac reasons. Five patients experienced non-serious cardiac disorders which did not coincide with changes in LVEF. An asymptomatic decrease of LVEF of more than 5% points was observed in 12 patients and 5 patients had an increase of more than 10% points, and for 5 patients the decrease was transient. No dose-limiting cardiotoxic event was observed and LVEF values did not fall below 50% in any patient. Therefore, the Steering Committee has recommended dose escalation to 90mg/m2 E.

Radiotherapy and radiobiology

725 POSTER

Activity-Based Costing In radiotherapy: the costs of activities

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Purpose: to analyse the costs of the different activities within the Leuven radiotherapy process.

Materials and methods: an Activity-Based Costing model was developed for the calculation of radiotherapy costs in the Leuven radiotherapy department. Resource costs (wage, equipment, space, material and overhead costs) were collected for the year 1999, as well as data on that year's productivity. The resource costs were allocated to the final radiotherapy products based on the activity consumption necessary to produce the products. The activities of the radiotherapy department were defined as 30 treatment related activities and as care related and non-care related support activities, For this overview the treatment related activities were aggregated into 11 major activities and 4 activity groups (administration, treatment preparation and delivery and quality control).

Results: In 1999 the global resource costs of treatment related activities of the Leuven radiotherapy department amounted to 3.253.986 Euro. Wage, equipment, space, material and overhead costs accounted for respectively 45%, 25%, 23%, 4% and 3% of these global costs. The costs incurred by the different activity groups were 210 240 Euro, 1 008 625 Euro, 1 751 580 Euro and 283 540 Euro for administration, treatment preparation, treatment delivery and quality control respectively. Within treatment preparation simulation and planning roughly consumed the same amount of resource costs; i.e. 364 560 Euro and 324 760 Euro.

Conclusion: Wage and equipment consume a large proportion of the treatment related radiotherapy costs. Activities within the radiotherapy process that intensively employ staff and equipment are therefore most expensive, as has been shown in our data where radiotherapy delivery, simulation and planning turn out to be the three biggest resource consumers in radiotherapy. Treatment delivery is by nature a repetitive process, which explains that its costs by far outweigh the costs of other activities, even of the very complex ones, provided they only occur once or twice within the radiotherapy process.

726 POSTER

Radiotherapy compared to extracorporeal shockwave therapy for supraspinatus tendinitis - randomised prospective single-blind trial with two-sample parallel group design

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Aim: In the case of supraspinatus tendinitis conservative therapy delivering either antiinflammatoric drugs or low-dose irradiation is the treatment of