

794

POSTER

Weekly paclitaxel (W-PAC) as second-line therapy in cisplatin pretreated patients with advanced non-small cell lung cancer (NSCLC)

G.L. Ceresoli¹, V. Gregorc¹, S. Cordio², K. Bencardino¹, A. Spreafico¹, C. Cozzarini¹, R. Bordonaro², E. Villa¹. ¹ Division of Oncology, San Raffaele Scientific Institute, Milan, Italy; ² Division of Oncology, San Luigi Hospital, Catania, Italy

Background: A growing number of patients, mainly cisplatin (C)-pretreated, require second-line therapy for NSCLC but the optimal treatment and appropriate criteria for pts selection are not yet defined. A second-line phase II study was conducted in C-pretreated pts with advanced NSCLC to evaluate the activity and toxicity of w-PAC.

Patients and methods: Fifty-three consecutive pts progressing after one front line C-based chemotherapy were enrolled. All pts had measurable lesions and ECOG PS 0-2. W-PAC was administered as 1-hour infusion at a dose of 80 mg/m² for three weeks with one week off. Pts characteristics were: M/F 46/7; median age 62 yrs (30-75); stage IIIA-B/IV 8/44, local relapse 1; squamous/non-squamous histology 16/37; ECOG PS 0/1/2 22/25/6; weight loss Y/N 14/39. Pts with stage III and local relapse were also pretreated with thoracic radiotherapy. At least 48 pts were needed to test P0 =15% vs P1=30% response/disease stabilization rate (alfa 0.05, power 0.80).

Results: All pts were assessable for response, toxicity and survival. A complete response was observed in 1 pt, partial response in 7, for an overall response rate (RR) of 15%, (95% CI 5-25%). A stable disease (SD) was registered in 11 pts, for an overall clinical benefit (CB=RR+SD) of 36% (95% CI 23-49%). Toxicity was mild, with G3-4 neutropenia and thrombocytopenia in 6% and 2% of pts respectively. Non hematological toxicity was negligible. No patient- or treatment-related variable was significantly related to RR in multivariate analysis, with histology only approaching statistical significance (p=0.06) in favor of non-squamous tumors. CB was significantly higher in pts with non-squamous histology (p=0.02) and C-based therapy (p=0.01) responders. A favorable trend for CB was observed in pts with PS 0-1 (p=0.06). Median progression-free survival (PFS) was 7 months in responders and 4 months in pts with SD. PFS was significantly related with good PS (p=0.001), non-squamous histology (p=0.01), C-sensitivity (p=0.02) and absence of brain metastases (p=0.04) in the Cox model. Median overall survival was 8 months.

Conclusions: w-PAC has acceptable palliative activity and excellent tolerance in C-pretreated pts. Clinical benefit seems to be higher in pts with PS 0-1, non-squamous histology and first line C-based chemotherapy responders.

795

POSTER

Vinorelbine (VNB) and gemcitabine (gem) in unfit or elderly patients (pts) affected by advanced non small cell lung cancer (NSCLC): may sequential administration improve results ?

P. Amadio, D. Priolo, G. Antonelli, S. Cali, P. Colina, M. Mattina, F. Vitale, F. Ferrau. Div. of Medical Oncology, S. Vincenzo Hospital, Taormina, Italy

VNB and GEM are the reference drugs in elderly or unfit NSCLC pts and may have a better toxicity profile with a sequential schedule: preclinical data (Brooks, AACR 2001) showed better citotoxic effects with VNB (24 hours)- GEM sequence, rather than opposite one or same-day infusion. The pharmacologically-oriented combination of these different molecules might exert better results than empirical association. Based upon this premise, we enrolled in a phase II study, from 11/2001 to 07/2002, 27 pts affected by untreated NSCLC with locally advanced (5 pts stage IIIA, 8 stage IIIB) or metastatic (14 pts) stage, aged >70 years (21pts) or unsuitable to platinum treatment (6 pts). Mean age 72 years (62-80), M/F 26/1, ECOG PS 0-1-2 = 3-20-4, 12 adenoca., 9 squamous, 6 other, were main characteristics. Sequential administration consisted in VNB 25 mg/mq on days 1 and 8 as a 5-10 minutes bolus, followed by GEM 1000 mg/mq on days 2 and 9 as a 30-min. infusion, q.21 days. One hundred twelve cycles (cy) were administered, mean 4/pt; all pts are evaluable for toxicity and response, after a minimum of 3 cys. Toxicity issues were meaningfully mild (% of cy): WHO G IV neutropenia occurred in 4.5%; GIII neutropenia in 3%; GII anemia in 1% and GI thrombocytopenia in 10%. Non haematological toxicities were: no G III-IV, G II asthenia 1%, G I renal 2%, G I stomatitis 1%, G I emesis 3%. Myelosuppression was the most common cause of delays, but dose reductions and delays were uncommon: median duration of cy was 24 days and pts achieved 93% of planned dose intensity. Ten pts obtained a partial response (RR:37%) as follows: 2 pts stage IIIA, 6 stage IIIB, 2 stage IV; 12

pts had stable disease (44%), with symptoms improvement (fever, cough, shortness of breath) in most; 5 had progression. In our experience, the sequential drug administration maintained the activity of the combination, while markedly ameliorated the toxicity profile.

796

POSTER

Bronchoscopic radioisotope injection for sentinel lymph-node mapping in potentially resectable non-small-cell lung cancer

D. Lardinois¹, T. Brack², A. Gaspert³, T. Spahr⁴, D. Schneider¹, H.C. Steinert¹, W. Weder¹. ¹ Div. of Thoracic Surgery, ² Div. of Pneumology, ³ Dept. of Pathology, ⁴ Dept. of Anaesthesiology, University Hospital Zurich, Zurich, Switzerland

Background: Prospective study to evaluate the feasibility of a preoperative bronchoscopic radioisotope application, followed by conventional sentinel lymph-node (SLN) identification, and to investigate the occurrence and distribution of micrometastases in relation to SLN activity.

Material and methods: 20 patients with a mean age of 63 years and proven clinical stage T1-3 N0-1 NSCLC were included. A dosage of 80 MBq radiolabeled technetium-99m nanocolloid was endoscopically administered on intubated patients in the operation theatre. At thoracotomy, scintigraphic readings of both the primary tumor and hilar and mediastinal lymph-node stations were obtained with a hand-held gamma counter. Patients underwent lung resection and mediastinal lymphadenectomy. Radiolabeled nodes were also examined separately on back-table. SLNs were defined as the hottest nodes or nodes with at least one tenth of the radioactivity of the hottest nodes. SLNs pathologic assessment included standard examination using hematoxylin and eosin staining on step sections and immunohistochemistry (ICH) for cytokeratins.

Results: Identification of SLNs was possible in 19/20 (95%) patients after bronchoscopic radioisotope application. In 7/19 (37%) patients, a unique SLN was identified, whereas in 12/19 (63%) patients, nodes from 2 different stations could be classified as SLNs. Metastatic nodal disease was found in 9/19 (47%) patients. ICH revealed micrometastases in 2/12 (17%) patients initially classified nodal negative. Pathologic negative SLNs were a predictor for absence of metastatic nodal disease after mediastinal lymphadenectomy. No complication related to the procedure was observed.

Conclusions: Our preliminary results suggest that preoperative bronchoscopic radioisotope injection for sentinel lymph-node identification is a safe and simple method, improving accuracy of sentinel lymph-node detection in comparison to intraoperative technique. The absence of metastases in the SLNs seems to predict a negative nodal status accurately.

797

POSTER

Effects of concomitant cisplatin and normofractionated radiotherapy on inoperable non-small-cell lung cancer.

O. Pradier, K. Lederer, H. Schmidberger, E. Weiss, C.F. Hess. University of Goettingen, Department of Radiotherapy, Goettingen, Germany

Purpose: To evaluate normofractionated radiotherapy (RT) with combined chemotherapy in patients with inoperable non-small cell lung carcinoma (NSCLC).

Methods and Materials: From April 1995 through March 2002, 56 patients ineligible for available combined modality protocols in our institution were enrolled and treated with radiotherapy consisting of 60 Gy (50 Gy + 10 Gy Boost) given in 30 fractions of 2 Gy daily, 5 days a week, over a time of 6 weeks, and concurrent low-dose daily chemotherapy (CHT) consisting of 6 mg/m² of cisplatin given Mondays to Fridays during weeks 1-2 and 5-6. All patients had stage III disease. Age ranged from 39 to 81 years (median 63.9 years).

Results: The 2- and 3-year survival rates were 36% and 20%, respectively, with a median survival of 10.2 months. Patients with a pretreatment haemoglobin level superior or equal to 11.6 g/dl had a 2-year survival of 52% as compared to 15.5% for patients with a pretreatment haemoglobin level inferior to 11.6 g/dl (p = 0.0075). Patients with higher KI (>70%) did better than those with lower KI. Surprisingly, patients in stage IIIA did not significantly better than those in stage IIIB.

Haematological toxicity (grade (≥2)) prevailed (25%), followed by oesophageal (5.4%) and bronchopulmonary (2%) toxicity. Only three patients experienced acute Grade 3 haematological toxicity. Because of acute toxic effects, irradiation was interrupted in 8 (14.3%) patients for 713 days (median 7.5 days). Dose modifications were not made. Late high-grade (≥3) toxicity was not found. No Grade 4 toxicities or treatment-related deaths were observed during this study.