

Results: The median number of cycles given was 3 to 4.

In both the day 1 & day 2 cisplatin studies, there was a high rate of omission (34% and 52%) of infusions of gemcitabine on day 15 because of thrombocytopenia. This was less than 20% in the day 15 cisplatin studies.

Conclusion: No conclusion can be made on relative survival and response rates as this depends on patient selection. The day 15 regimens are associated with the best tolerability.

Drug exposure duration is important to the activity of phase specific agents (eg gemcitabine).

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PUBLICATION

Conservative endobronchial treatment of non-small cell lung cancer

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Objectives were: to evaluate intratumoural injected bleomycin (BL) action during radiotherapy with dynamic fractions (RDF), second, to underline the effectiveness of photodynamic therapy (PDT) using hematoporphyrin and metal vapour laser combining with conventional external beam radiation in patients (pts) with central type locally advanced NSCLC.

Methods: From 1989–1994 48 pts with NSCLC underwent intratumoural BL injections and RDF. The day we injected BL we use 4 Gy of RDF. Summary dosage of BL was 250.0–300.0 and 65 Gy of RDF. These pts were randomised with 46 pts of control group – only conventional RT.

From 1992–1995 16 pts with NSCLC underwent PDT with hematoporphyrin and metal vapour laser. 4 pts underwent this treatment with local recurrences after surgery. 8 pts with partial tumour response receive additionally – 40 Gy of conventional RT and were randomised with 12 pts control group – only RT.

Results: First group of pts: 1. Partial tumour response we achieved in 31 pts (64.5%) with T2N2M0 and 12 pts (25%) with T3N2M0, no response in 5 pts (10.4%) with T3N3M0. 2. Endobronchial BL injections causes coagulative tumour necrosis. Second group of pts: 1. Full tumour response we achieved in 8 pts (50%), no response – in 4 pts (25%) with recurrences and 4 pts (12.5%) with T3N2M0. 2. Combining PDT and RT improves rapidly pts PS and prolongs tumour relapse free period.

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PUBLICATION

Oral etoposide in patients with small cell lung cancer

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Purpose: To investigate the efficacy, tolerability, and survival of oral Etoposide (E) usage and prognostic factors influencing survival in small cell lung cancer (SCLC).

Methods: Between January 1993 to December 1996, histologically newly diagnosed and previously untreated 49 patients (pts) (45 men, 4 women) were included. Pts were with age ≥ 70 (23 pts) and pts who were unsuitable candidates for standard intravenous (IV) chemotherapy (CT) with age < 70 (26 pts). Median age was 70 (43–81) and all pts had ECOG PS ≤ 3 . Thirty pts (61%) had limited disease, while 19 pts (39%) had extended disease. It was given E capsules orally 50 mg bid for 10 days every 21 days as outpatiently. After 3 courses, responses were evaluated radiologically. In responded pts therapy continued until either progression or unacceptable toxicity occurred. Response and toxicity were evaluated according to WHO criteria.

Results: Eleven (%22) pts had partial responses, 17 (%35) pts had stable disease, and 21 (%43) pts progressed. No complete response was seen. In responded pts, response durations were between 17–154 weeks (median 36 wks). After observation of mean 23 wks (range 1–164 wks) only 4 pts (%8) are still alive. Mean survival was 23 ± 1.4 wks (%95 CI 20.3–25.8) and were between 1–164 wks. One-year survival was %17 (SE:5). Totally, 207 courses (median 4, range 1–13) were given. Tolerance to oral E therapy was very good. No grade III/IV toxicity was seen. In univariate analyses by log rank test, ECOG PS (0–1 vs 2–3), weight loss ($< vs \geq 5\%$), stage (limited vs extended), erythrocyte sedimentation rate (ESR) ($< vs \geq 30$ mm/h), serum albumin level ($< vs \geq 3.5$ gr/dl), addition of radiotherapy (RT) (–/+) and response to CT (–/+) were statistically significant ($p < 0.05$) as prognostic factors effective over survival. On the other hand, age ($< vs \geq 70$), body mass index (BMI) (weak vs normal), hemoglobin ($< vs \geq 12$ g/dl), LDH ($\leq 470 vs > 470$ IU/L), delay in CT ($\leq vs > 2$ wks) were not statistically significant. In multivariate analysis, ECOG PS ($p = 0.0014$), ESR ($p = 0.0068$), RT (+) ($p = 0.0012$) and response to CT ($p = 0.0009$) were still statistically significant.

Conclusion: Due to its easy application, good tolerability and efficacy, oral E can be preferred in SCLC pts, especially to whom standard IV CT could not be given because of several causes.

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PUBLICATION

Symptom control and clinical benefit in advanced non-small cell lung cancer: Early report of a randomized study of gemcitabine monotherapy versus cisplatin-vindesine

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Chemotherapy in advanced NSCLC results in a small survival benefit. More important is its role in symptom control and quality-of-life improvement. In phase II trials, single agent gemcitabine (GEM) showed to be active in NSCLC, with a clinical benefit or symptomatic response rate (RR) higher than the objective RR.

We initiated a prospective randomized trial to compare the objective RR and clinical benefit of cisplatin-vindesine chemotherapy (PV) versus GEM monotherapy. Clinical benefit is scored by a patient visual analogue symptoms score, the evolution of the Karnofsky performance status (PS) and weight.

At the time of writing, 46 patients were randomized. Seventeen evaluable treatments were panel reviewed. For PV, we found 1 partial response (PR), 5 stable disease (SD) and 2 progressive disease (PD). For GEM this was 1 PR, 3 SD and 5 PD. Toxicity was analyzed in 53 cycles. The number of cycles with WHO grade III/IV toxicity in the PV arm was leukopenia 5, granulopenia 4, vomiting 2 and hair loss 3. For GEM, this was leukopenia 1 and diarrhoea 1 cycle. Clinical benefit was present in 2 PV patients (1 with objective PR, 1 with SD) and 3 GEM patients (1 with objective PR, 2 with SD).

Patients without objective response can nonetheless have clinical benefit from their chemotherapy. It is too early to draw further conclusions, but a trend towards lower objective RR and milder toxicity in the GEM arm is suggested. Updated results on a larger number of patients will be reported.

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PUBLICATION

Radiation related toxicity in patients with limited stage small cell lung cancer (SCLC) receiving irradiation on primary tumor site after intensive chemotherapy

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Purpose: In our past study 222 pts with limited SCLC received chest irradiation after standard chemotherapy. Acute radiation toxicity was 37.8%, pulmonary toxicity 80% and pulmonary fibrosis 83% at X-ray. In this study we evaluated the radiation related toxicity after intensive chemotherapy.

Methods: Fifty-three pts received local regional irradiation with doses 40–50 Gy after 2–3 courses of intensive chemotherapy with haematological support (ABMT – 14 pts, GM-CSF – 25 pts, polidan – 14 pts).

Results: Acute radiation related mucosal toxicity (oesophagitis, laryngopharyngitis) was seen in 59% of pts and pulmonary toxicity in 85% of cases at the period of time up to 3 months. The delayed local pulmonary fibrosis in the irradiation site was seen at X-ray in 85% of pts, whereas only 8% of them had clinical symptoms.

Conclusion: Pulmonary fibrosis did not worsened quality of life of pts with SCLC which was influenced mainly by the presence of residual tumor or local recurrence after CR and also by the presence of distant mts and is the same as in pts with standard chemotherapy. In pts with intensive chemotherapy was more acute radiation toxicity (59% vs 37.8%).

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PUBLICATION

Pair: Palliative accelerated irradiation regimen for non-small-cell lung cancer: Final results of the pilot study

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Purpose: In order to avoid overtreatment for patients with advanced non-small cell lung cancer (NSCLC) we have developed a palliative accelerated irradiation regimen (PAIR). Before the onset of a randomized trial in February 1994, we performed a one year pilot study testing the feasibility