

therapy for superficial bladder cancer, except for the length of exposure. This study measures the toxicity of short GLA pulses on a cultured bladder cancer cell line and the tolerance of rat bladders to intravesical dosage.

Methods: a) The MGHU-1 anchorage dependent bladder cancer cell line was pulsed with meglumine-GLA (MeGLA) between 2 & 1000 µg/ml for up to 2 hours in 96-well plates. The MTT biomass assay was used to assess cytotoxicity 5 days later. b) Bladder histology was performed on rats given 0.3 ml, 2.5 mg/ml MeGLA intravesically. The drug was retained for 1&2 hours.

Results: Maximum cell kill was seen at drug exposures of 1 hour or more and over 125 mg/ml. Intravesical exposure to >10× this concentration of drug caused minimal histological damage, which resolved within two weeks.

Conclusion: GLA is toxic to bladder cancer cells given short exposures. It is well tolerated in an *in vivo* model. A clinical application is feasible.

1139

PUBLICATION

Vinorelbine/gemcitabine in advanced non-small-cell lung cancer (NSCLC): A phase I trial

R. Pirker, G. Krajnik, A. Mohn-Staudner, F. Marhold, R. Malayeri, S. Zöchbauer, F. Kummer, R. Greil, H. Huber. *Austrian Association for the Study of Lung Cancer. Dpt. of Oncology, AKH, 1090 Vienna, Austria*

Purpose: We performed a phase I dose-escalation trial of intravenous vinorelbine/gemcitabine in patients (pts) with advanced NSCLC.

Patients: Previously untreated pts (N = 33) were treated on days 1, 8 and 15. This cycle was repeated on day 29 (= day 1 of next cycle). Dose-limiting toxicity (DLT) was defined as severe myelotoxicity and/or any WHO Grade 3/4 non-hematologic toxicity.

Results: Toxicity for evaluable (2 cycles except in the case of DLT) pts and responses (CR+PR) for all entered pts are summarized below.

VIN mg/m ²	GEM mg/m ²	Eval.(all) pts	WBC WHO 3/4	DLT	CR+PR
10	600	3 (4)	0/0	0/3	0/4
15	800	3 (5)	0/0	0/3	0/5
20	800	3 (4)	0/0	0/3	0/4
20	1000	3 (3)	0/0	0/3	2/3
25	1000	6 (8)	4/0	1 cardiac/6	3/8
25	1200	3 (6)	2/0	1 pulmonary/3	1/6

Conclusion: The maximum tolerated dose has not been reached up to 25 mg/m² vinorelbine plus 1000 mg/m² gemcitabine.

1140

PUBLICATION

Phase III study of taxol/ifosfamide/cisplatin (TIP) combination chemotherapy (CMT) in advanced solid tumors (ST)

C. Kosmas, N. Tsavaris, A. Polyzos. *Department of Medicine-Oncology Unit, Laikon General Hospital, Athens University, Athens, Greece*

In the present study, we evaluated the TIP combination in the outpatient setting in pts with a variety of advanced ST. Pts were entered into the following dose levels (DL): DL-I: T = 135 mg/m² day (d) 1-(1 hr), I = 2.25 g/m²/d d1-2 (total = 4.5), P = 40 mg/m²/d d1-2 (total = 80), DL-II: T = 175 d1, I = 2.25 d1-2, P = 40 d1-2, DL-III: T = 175 d1, I = 2.25 d1-2, P = 50 d1-2 (total = 100), DL-IV: T = 215 d1, I = 2.25 d1-2, P = 50 d1-2 and DL-V: T = 215 d1, I = 3.0 d1-2 (total = 6.0), P = 50 d1-2. G- or GM-CSF was given d5-14. 23 pts have entered: 5 at DL-I, 8 at DL-II, and 9 at DL-III. 1 pt with relapsed germ-cell tumor entered directly at DL-V to receive intensive P and I-based CMT. Histologies: 13 non-small cell lung (NSCLC), 6 ovarian (OC), 2 cervical Ca, 1 GCT, and 1 nasopharyngeal Ca. All but 5 had 2-8 cycles of prior CMT (no taxanes or I; P allowed) and progressed 6 wks after last CMT cycle. Characteristics: 13 males/10 females, age 25-67 yrs (median = 55), PS 0-2. The regimen was tolerated with outpatient administration in 15/23 pts. 21 pts are evaluable for toxicity. 1 pt died from PD prior to cycle 2. Toxicities: Gr 4 neutropenia for ≤5 days: 9 pts; 2 episodes of febrile neutropenia at DL-III and DL-V. Gr3/4 thrombocytopenia was seen in 8/2 pts. The MTD has not yet been reached. Pts are currently accrued at DL-IV and V. 9/21 PRs were seen (42%).

Conclusion: TIP combination appears to be feasible in the outpatient setting; phase II studies are planned in NSCLC, OC, etc, after the MTD is defined.

1141

PUBLICATION

Phase I dose finding study of irinotecan (CPT-11) over a short i.v. infusion combined with a fixed dose of 5-fluorouracil (5-FU) protracted continuous i.v. infusion in patients with advanced solid tumours

J. Sastre¹, L. Paz-Ares², E. Díaz-Rubio¹, H. Cortés-Funes², A. Carcas³, G. Gruia⁴, P. Herait⁴, C. Fdz-Chacón⁵, C. Martín⁵, I. Farr⁵. ¹Servicio Oncología, H. Clínica; ²Servicio Oncología H. 12 Octubre; ³Farmacología H. La Paz, RPR; ⁴Servicio Oncología, H. Clínico, France; ⁵Servicio Oncología, H. Clínico, Spain

Purpose: This ongoing Phase I study is designed to define an effective combination schedule of CPT-11 with 5-FU in patients with advanced adult solid tumours.

Methods: CPT11 is administered over a 90 min iv infusion on day 1 with a dose escalation schedule of 150, 175, 200, 250, 300 and 350 mg/m² q3w. 5-FU, in a fixed dose of 250 mg/m²/d, is administered as a protracted continuous iv infusion over 14 days, q3w. Pharmacokinetic (PK) parameters are also evaluated.

Results: Since June 1996, 16 patients were treated of whom 14 are evaluable for toxicity. Patients characteristics: median age 53 years (38-65); median PS 1 (0-2); sex: M/F 15/1; primary site: colorectal 5, oesophagus 2, head & neck 3, kidney 1, prostate 1, unknown primary 1, pancreas 1, small bowel 1, stomach 1. One partial response and various stabilisations were observed.

Dose (CPT11/5-FU)	N Patients.	N Cycles	Toxicity
Level 1: 150/250	3	10	No DLT
Level 2: 175/250	4	14	No DLT
Level 3: 200/250	3	7	No DLT
Level 4: 250/250	3	7	No DLT
Level 5: 300/250*	3(* 2 pts. too early)	3	Grade 4 Neutropoenia

Conclusion: Preliminary analysis shows this combination to be well tolerated. Study is ongoing, as maximum tolerated dose has not yet been reached at level 4.

1142

PUBLICATION

Abdominal and pelvic stop-flow (hypoxic, chemotherapeutic loco-regional treatment): Preliminary report of a phase I study

R.V. Iaffaioli, B. Massidda, G. Facchini, A. Tortoriello, M. Santangelo, F. Crovella, I. Carbone, A. Renda, G. Romano, C. Dodaro, E. Di Salvo, B. Memoli, V. Iaccarino, G. Mallanni, A. Bianchi, M. Ghiani, C.M. Camaggi, E. Strocchi, M.T. Ionta, S. Guadagni, G. Mantovani. *Hypoxic Chemotherapy Locoregional Study Group (HCLSG); Clinica Medica II, Oncologia Medica, 80131 Napoli, Italy*

Purpose: To establish the MTD, DLT and a safe dose for phase II study in stop-flow, a new loco-regional treatment with percutaneous double-balloon catheters, stop of blood flow and administration of high dose of Mitomycin-C (MMC) and Adriamycin (ADM), we started a phase I study.

Methods: From November 1995 to January 1997, were treated 23 patients, 8 pelvic and 15 abdominal, M/F 16/7, with histologically confirmed diagnosis of advanced neoplasms, unresectable or pretreated with standard chemotherapy. Dose escalation was: I° level MMC 15 mg/m² and ADM 75 mg/m²; II° level MMC 20 mg/m² and ADM 90 mg/m²; III° level Mit-C 25 mg/m² and ADM 120 mg/m².

Results: MTD and DLT were found both at III° level. Myelotoxicity grade IV was observed at III° level. Gastrointestinal toxicity grade III was reported at III° level. One patient had a reversible deep vein thrombosis, another patient had acute tubular necrosis reversed after 20 days. One case of paraparesis reversed after 4 days, was registered. No death related to procedure was reported. 5RP were observed in 10 pts evaluable. Accrualment is ongoing to establish the safe dose for phase II study.

Conclusions: Stop-Flow seems to be a new feasible and safe loco-regional treatment and the complete resolution of symptoms as pain encourages to continue this study and to promote a phase II study.