Chemo-thermotherapy with loco-regional perfusion in the treatment of the tumors of the liver and of the lung

We have treated 10 liver tumors that were considered inoperable because of local extension with infiltration of regional limphonodes and caval or portal vein. Histologically they were 5 primitive hepato carcinoma and 5 metastatic digestive tumors (colorectal neoplasms). We have associated locoregional chemotherapy with transfemoral puncture and intra-arterial pharmacological administration by chronoinfusor for 5 days during a week. The traditional use of 5-FU was combined with hyperthermic treatment at 13,56 MHz utilizing Leveen's unit and obtaining a deep obtimizing heading. The patients underwent to thermotherapy for three times a week (90 minutes every treatment) for 2 months. All the patients were followed for a period of 18 months and were controlled every 60 days by radiological and ultrasound measurements.

The results showed a real stabilization or a complete remission (1 case) with a mean survival about 11 months. Our experience about the management of lung tumors with radiofrequency hyperthermia combined with intraregional chemotherapy is based on the treatment of 10 lung tumors, 5 adenocarcinomas and 5 squamous cells carcinomas; all the tumors were considered in advanced and inoperable stage because of local extension with a remarkable infiltration of mediastinal limphonodes (stage III b). No one metastatic lesion was observed by radiological and ultrasound dates.

The hyperthermic and chemotherapic management followed the same modalities before described. The antiblastic perfusion was given through the bronchial artery. The results after a follow up of 15 months showed an interesting increase of mean survival (more than 10 mounths) with a radiological stabilization of the tumoral mass, decrease of pain and cough and a good manteinance of general conditions.

Report in vivo experii use of microwave esol

The esophagus microwave applic esophagus of rabbit and to heat parthe result is as follows.

1. 20 rabbits were used to heat the e in a special box and its mouth applicator was inserted 15 cm. into incisor. First the normal temperat measured by the temperature sense on. When the temperature of the temperature was maintained autor were tested once every other day for within 24 hours after they had rece gus which had been heated and its lungs were taken out for patho vacuolar degeneration of squamoi epithelial cell in some rabbits. The and had infiltration of lymphocyte rabbits were found edematous in t infammatory cells. Liver heart and 2. 20 patients who were proved to esophagus by radiography and esc by surgical operation, but were tre hermia. The applicator was put on the temperature was kept at 44°C patients received radiotherapy at the times a week. At the end of the c received a total for 4000 rads. Th effects are remarkable. Of the 20 completely with normal esophagus tely with slightly narrowed esoph: half the lenth of the diseased par significant improvement after the will be shown in video tape. A disc thermotherapy combined with rad

Venditti D., Fiorito R., Cervelli V., Vittorini V., Caldarelli G., Iorio B., Pigliucci G.M., Casciani C.U. Clinica Chirurgica Generale e Terapia Chirurgica II Università di Roma

Liu Ling-yi Department of Oncology - Tianjin 2n Tianjin, The People's Republic of Ch