157 O

A NEW APPROACH TO REFRACTORY CARCINOMA OF THE PROSTATE: MICROTUBULAR: INHIBITION WITH FSTRAMUSTINE AND VINORELBIN. Giuseppe Morgia, Francesco Ferraù, Alberto Saita and Mario Motta-Urology University - Catania (Italy).

This study has evaluated the efficacy and tolerance to administration of EMP associated with VNB in the treatment of hormone refractory prostate cancer. Treated with a schedule as follows: oral PAP (400 mg/trice daily); i.v. VNB (20mg/m²/weekly); complete restaging at 8 weeks. Patients who completed at least one cycle and were revaluated were considered eva luable. Patients' mean age was 69 years, PS was in 8/18 and 2 in 6/18; bone metastase were present in all and extraossecus in 3. Mean basal PSA value was 112 ng/1 (19-980). Mean duration of follow-up was 8 months (5-16). Sides effects were nausea (83%) and breast tension (72%). The anemia observed in 60% of pts had been present before treatment in most cases. Leucopenia was in 55.5%: (39%) achieved PR (6 after the first treatment, 1 after the third. Progression with the first cycle occured in 4 (22%). 7 pts (39%) achieved SD, and quality of life improved in 78%.

159 P

INDUCTION OF LNC₂P TUMOR GROWTH IN VIVO BY HUMAN PROSTATE FIBROBLASTS FROM DIFFERENT ZONAL ORIGIN.

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Stromal-epithelial interaction plays an important role in regulating tumor growth, progression, and metastasis. We have previously demonstrated organ-specificity in the induction of human prostate cancer growth in vivo. In the present study, we investigated whether fibroblasts derived from different zones of the human prostate can differentially induce the growth and formation of recombinant chimeric prostate tissue. Therefore, we first established human prostate fibroblast cell lines from histologically normal areas of the peripheral zone (PZ), the transition zone (TZ), and the central zone (CZ) of radical prostatectomy specimens.

All of the fibroblasts derived from the prostate specimens, when injected alone in intact male athymic nude mice failed to form tumors. When coinoculated with nontumorigenic LNCaP human prostate cancer cells, fibroblasts derived from the TZ, PZ, and CZ induced tumors in 91% (10/11), 89% (8/9), and 50% (1/2) of the hosts, respectively. One hundred percent of TZ, 85% of PZ, and 100% of CZ fibroblast-induced tumors expressed elevated levels of prostate-specific antigen (PSA). Tumors differed in histomorphologic analysis. Prostate fibroblasts differed in dihydrotestosterone growth stimulation, induction of anchorage-independent growth, and doubling time.

In summary, fibroblasts derived from the peripheral, transition, and central zones of the human prostate induced human nontumorigenic LNCaP cells to form PSA-expressing tumors. These results illustrate the importance of stromal-epithelial interactions affecting growth and morphology in prostate cancer development.

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PSA DOUBLING TIME AFTER BRACHYTHERAPY WITH I-125 FOR PROSTATIC CARCINOMA CATEGORY T1c-3G1-3N0M0

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Patients with locally confined prostate cancer (T1c-3G1-3N0M0) are treated with either radical prostatectomy or I-125 implantation, according to the wishes of the patient. The results and prognostic value of PSA doubling time (DT) after interstitial radiotherapy are examined.

From June 1985 to Dec. 1993, 78 patients were treated for T1-3G1-3N0M0 prostatic carcinoma with 1-125 implantation. PSA measurements, radiological evaluation and prostatic biopsies were done at regular intervals. The follow-up period ranges from 6 - 120 months (mean 53.9 months). Progression was defined 1) as occurrence of metastases, seen during radiological evaluation or 2) a > 25% increase in the volume of the primary.

Progression was observed in 9 patients (11%), 7/9 pts died. Overall 27 pts died (35.1%) 22 not related to prostate cancer. Mean time to progression was 27.7 months. Neither staging, nor grading correlated with risk for progression or survival. PSA serial measurements could be evaluated in 54 patients. The PSA-DT was < 12 months in 15 patients. (28%), 8/15 showed progression (53%). Of the 39 patients with a PSA-DT > 12 months, no patient showed progression.

We conclude that, in the present study PSA-DT was the most powerful predictor of progression. The likelihood of either local progression or distant failure is small in pts. with PSA-DT > 12 months compared to PSA-DT < 12 months.

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QUALITY OF LIFE ASSESSMENT IN PATIENTS WITH PROSTATIC CARCINOMA CATEGORY T1-3 M1-3 M0, RECEIVING OR NOT RECEIVING HORMONAL TREATMENT.

THEATMENT: KH Kurth², H de Haes².

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Clinical evaluation in oncology has typically focussed on outcome indicators, while relatively little systematic attention has been paid to how treatment affects quality of life of the patient. Purpose of the present study was to examine the impact of immediate or delayed treatment in patients with prostatic carcinoma (T1-3 N1-3 M0) on quality of life parameters. To this study as a constructed, containing sitems, consisting of the EDRTC Core Quality of Life Questionnaire and the prostation of the CORTC Core Quality of Life (Sebigunisca State of Sta