90

AFFINITY OF ANTIOESTROGENS AND (ANTI)-PROGES-TINS FOR THE ANTIOESTROGEN BINDING SITE (AEBS)

M.A. Blankenstein, C. Vis van Heemst, G.M. Elsendoorn and J.H.H. Thijssen.

Dept. of Endocrinology, Academic Hospital, P.O. Box 85500, 3508 GA Utrecht, The Netherlands. Most breast tumours contain an antioestrogen binding site (AEBS). Its biological function is presently unknown, but it is conceivable that AEBS play a role in the development of resistance to antioestrogen. In view of the development of new anticestrogens and of reports on membrane bound progestin binding proteins, we compared the affinity of antioestrogens and (anti)progestins for rat liver AEBS. A 12,000*g supernatant was incubated with 8 nM of [3H]tamoxifen (Tam) and increasing concentrations of competitors. The relative binding affinities were: Tam (ICI): 100; 4-hydroxy-Tam (ICI): 24; N-desmethyl-Tam (ICI): 9; Nafoxidine (Upjohn): 202; Clomiphene: 222; Toremifene (Farmos): 48; 4-hydroxy-toremifene (Farmos): 27; N-desmethyltoremifene (Farmos): 9.1. The steroidal antioestrogen ICI 164,384, the antioestrogen Zindoxifene, its deacetylated metabolite D-15414 and the new antioestrogen D-18954 (all Asta) had a RBA below 0.05%. Progesterone, Org-2058 and 19-nor-21-fluoro-derivatives, antiprogestins Org 31376 and Org 31710 (all Organon), cholesterol and its 7-keto-, 7-beta-hydroxy-, and 3,7,12-alpha-trihydroxyderivatives also did not compete. It is concluded that the phenylalkylaminoethoxy side chain of tamoxifen and related compounds is important for the recogni92

NON METASTATIC BREAST CANCER First line treatment with tamoxifen L. Mauriac, S. Dezou and M. Durand Fondation Bergonié, Dpt. of Medicine Bordeaux, FRANCE

Locally advanced breast cancer are usually treated with chemotherapy, because prognosis is overweighted by future wide-spread metastasis. For elderly women, the best treatment is often antiestrogens. They are prescribed either continuously for patients with poor general conditions (group A) or primarily before locoregional treatment by surgery and/or radiotherapy; this treatment is either performed after secondary recurrence despite hormonal treatment (group B) or after maximal efficacy of hormonal treatment (group C).

One hundred women (median age 72,6 years) with non metastatic breast carcinoma are retrospectively studied. Sixty-nine objective responses have been got with first line tamoxifen (30 mg/d) (10 complete responses); only 3 patients progressed and the others were stabilized. Objective responses occure after median follow-up of 5 months. Actuarial adjusted survival curves are identical for group A (palliative hormonal treatment) and group C (locoregional treatment after response to hormonal treatment) but are better than group B (locoregional treatment after secondary failure of hormonal treatment) (p=0,01 and p=0,0003 respectively log rank test).

This retrospective analysis allows to realize a randomized trial comparing hormonal treatment to hormono-chemotherapy for menopausal patients with operable breast cancer bigger than 4 cms, before adjusted locoregional treatment.

91

tion by the AEBS.

BNDOMETRIAL SIDE EFFECTS WITH TAMOXIFEN FOR BREAST CANCER

G. Le Bousdec, J. Dauplat, H Curé, J.L. Achard and V. Feillel Centre Jean Pertin, Place Henri Dunant, B.P. 392, 63011 Clermont-Errand Cedex. France

Tamoxifen is the most widely used non-steroidal anti-cestrogen for adjuvant treatment of post-memopausal breast cancer. This agent is well tolerated and effective according to recurrence-free survival and overall survival data including recent meta-analyses. Today, long term thesepeutic trials are performed with administration of this drug for 5 years, or more or even indefinitely. Mechanisms of action and phar raced gay are i mor might by understood. The antagonistic cestrogenic property (via competitive inhibition of cetrogen receptor) is associated with a partial agonistic cestrogenic effect and depends on the target tissue involved. Vaginal bleeding is not an uncommon symptom observed in women so treated. We have investigated abnormal uterine bleeding occurred among 26 patients receiving tamoxifen for breast carcinoma. The histopathological finding, obtained by dil atation and curettage or hystereotomy, are the following:

- -endometrial polyps and/or hyperplasic mucosa: 18 cases
- endometrial adenocarcinoma: 3 cases
- atrophic mucosa : 5 cases

This report highlights the potential cestrogen-like behaviour and carcinogetic risk towards endometrium with prolonged anticustrogetic administration. Metrorrhagia was explained by adverse stimulatory effect in 80 % of cases (21/26). In the litterature, the increased incidence of endometrial cancer could be related to the posology and duration of tamoxifen exposure.

Sonographic and hysteroscopic examinations are recommended with the aim of carefully following up the uterine corpus as long as polonged tamoxifen treatment is given.

93

TAMOXIFENE (TAM) AND PRIMARY BREAST CANCER IN OLD WOMEN G.Mustacchi; M.Mensutti; S.Milani; A.Pluchinotta, A.Farris, A.Scanni, L.Maiorino, A.Sentoro, A.Traina, G.Schieppati, A.Malloci, A.Zadro, G.D'Aiuto, V.Parisi, I.Capasso, E.Villa, V.Fosser, P.Garattini, F.Schittulli, P.Gambrosier, E.De Fabiani, C.Caciotto, M.Lombardi and other trialist of Cooperative group G.R.E.T.A.

*Centro Oncologico, Via Pietà 19, 34100 Trieste - Italy Between April 1987 and December 1989, 311 women over the age of 70, with operable breast cancer (b.c.), were randomized to Surgery + Tam (20 mg/d for 5 yrs) or Tam (160 mg d 1, followed 20 mg/d till progression). The median f.up was 13 mos, the mean age of pts was 76 yrs. The two groups were well balanced for tumor size, concomitant diseases and performance status. In the Tam group 27 pts (18.1 %) developed local progression, with 5 cases followed by distant metastases (M1). The overall incidence of M1 was 10 (6.7 %). Nine pts (6 %) died: two for intercurrent diseases (i.d.) free of M1, two for i.d. with M1, five for b.c.. In the Surgery group 13 pts (10.1 %) developed M1. Four pts (3.1 %) died, of whom two for b.c..

In pts over 70 yrs, with primary breast cancer, Tam alone appears to be able to provide local and systemic control of the disease in 80 % of cases. In case of local progression, IInd line Surgery or Radiotherapy may control the disease in further 14 % of cases. If further f.up will confirm these data, Tam could be an interesting first line therapy in such patients.