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Asynchronous Bilateral Testicular Tumour without Previous Carcinoma in situ

W. Hoeltl, Ch. Gabriel and M. Marberger

CARCINOMA in situ of the testicle is considered to be the standard precursor of clinically manifest tumours [1]. We report a case of testicular tumour in which this "rule" did not apply. Skakkebaek [2] showed that routine biopsy of the contralateral testis at the time of orchidectomy reliably detects carcinoma in situ on that side, since carcinoma in situ is distributed diffusely within the entire testicular parenchyma. Since 1988, at our department, such biopsy has routinely been done at the time of removal of the tumour-bearing testis. The method [3] is a standard 3-4 mm biopsy at the opposite side of the rete testis. Specimens are fixed in Carnoy's solution because formaldehyde is unsuitable for establishing the presence or absence of carcinoma in situ.

A 23-year-old male had a marker-negative pure seminoma pT3 No Mo without carcinoma in situ around the tumour removed. Biopsy of the contralateral testicle at the time of surgery showed normal testicular morphology without evidence of carcinoma in situ (Fig. 1). Palpation and ultrasonography of the testis were normal. After adjuvant irradiation of the retroperitoneum, serum levels of beta human chorionic gonadotropin had increased (92 IU/ml) at first follow-up 3 months later. Re-evaluation of the chest and retroperitoneum by axial computerised tomography did not show metastases. On palpation the contralateral testicle again appeared to be normal, but scrotal ultrasonography under identical conditions showed a hypoechogenic lesion 6 mm in diameter in the centre of the testis. Surgery confirmed a tumour and 2 other small tumour foci were found. Histology identified the lesions as pure multifocal seminoma pT2 with carcinoma in situ in the immediately surrounding tissue. There was no carcinoma in situ at the site of the former biopsy within a margin of more than 15 mm, and placental alkaline phosphatase immunohistochemistry of this area was also negative.

Biopsy of the contralateral testicle negative for carcinoma in situ has so far been considered sufficient for excluding the development of an asynchronous contralateral tumour [4]. Nistal et al. [5] detected carcinoma in situ in only 5 of 722 patients who underwent testicular biopsy because of infertility. 2 patients without carcinoma in situ subsequently developed seminoma despite a negative biopsy result. Giwercman et al. reported a case similar to ours in a large series of 1500 testicular biopsies [6]. Their data and our case suggest that a contralateral testicular

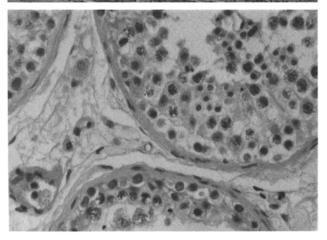


Fig. 1. Contralateral biopsy without evidence of carcinoma in situ (haematoxylin/eosin stain). Upper $= \times 55$ (with tubular damage and fibrosis); lower $= \times 220$.

biopsy negative for carcinoma in situ does not necessarily exclude the potential development of an asynchronous bilateral tumour of the testis.

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Correction

CSF drug levels for children with acute lymphoblastic leukemia treatd by 5 g/m² methotrexate. — In this article by Dr G. Milano et al. (Vol. 26, pp. 492–495), the last author should have been D. Plantaz and not D. Frappaz.

Correspondence to W. Hoeltl.

W. Hoeltl and M. Marberger are at the Department of Urology, and Ch. Gabriel is at the Department of Pathology, Rudolfstiftung Vienna, Juchgasse 25, A-1030 Vienna, Austria.

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