Dave Dhara

MORPHOLOGICAL CHARACTERISTICS OF THE PERITUMORAL ZONE OF CLEAR CELL RENAL CARCINO Tutor MD, PhD Dniitriev (i M., assist Dolbyk- Vorobey Y. G.

Department of Paihological Anatomy Belarusian State Medical University, Minsk

Objective. Clear cell renal carcinoma (CCRC) is the most common form of malignant kidngy cancer of aggressive nature. CCRC takes about 2% occurrence among all other malignancies and about 65-70% of all renal cell carcinomas. Invasive tuinor growth largely depends on the state of the peritumoral zone. The study on peritumoral foci is limited but there are certain points that is Significant for the prédiction of grades because usually, in the nearby parenchyma rather than distant parenchyma shows many histological changes.

Aim: To assess morphological changes in the perilumofôl ZOfle and compare them witö distant kidney tissue in patients with CCRC.

Materials and method. Twenty four CCRC cases were taken under considération who has gone through the surgical process of tumour removing, admntÎ\$tered by the department of Pathological Anatomy. Histoiogical samples stained by hernatoxylin & eosin were retrospectively analyzed. We have studied suth parameters as tumor capsule thickness, percentage of byalinosis of arteries, hyalinosis of glornenili, inflammatory reactions, intersùtial fibtosis and foci of tyroidization in the peritumoral and distant zone of kidney tissue. The cases were categorised on the basis of age, gender, the degree of turner differentiation and T-value according to the TNM classification. To describe the peritumoral changes in percent, we used non parametric stahstics.

Results and discussion. The liequency of occurrence of CCRCs is higher in mates

(ri=17/70.8%) compared lo females (n=7/29.2%) (ivt:F=2.5:1). The age of the patient ranged from 40 to 81 years. The mean age of the cohort was 59.7+8.36 yens. With respect to T-value in TNM staging T3 and T3a were predoniinate (n=21/87.5%), in 3 (I 1.1%) patients T was estimated as T2. According to grading system, G2 was revealed in 12 (50.0%) cases, G3 — in 7 (29.2%), G4 - in 4 (16.7%). Necrosis was obsein'ed in the tumor tissue of 9 (37.5%) cases. The percentage of sclerosed glomeruli, as well as the percentage of vessels with sclerosis and wall hyalinosis, was higher in the perituinoral zone than m distant parts of the kidney tissue. In the peritumoral zone, lymphoid infiltration of the interstitium was more ptonounced. PQtitumOFdl dBd distant zones did not differ in the presence of hemorihages and thyroifi foci (p>0.05).

Conclusions. The assessment of peritumoral zone changes in CCRC bas an important prognosôc value aS it helps to determine the rate of tumour growth and rate of metastasis.