

## SUMMARY

Renal Cell Carcinomas (RCCs) are the most commonly seen renal tumors in adults. Although pathological stage and nuclear degree of the tumors are considered the most important prognostic factors, due to the heterogeneity seen in RCCs, there might be seen different survival rates among the patients who have the same stage. For this reason, we need to find out new prognostic factors in RCCs. In our research, we've searched different prognostic factors such as proliferation, apoptosis and angiogenesis and their interactions with each other.

Altogether 40 RCC specimens have been worked in paraffin embedded tissues. The information of patients such as age, sex, histological types, Fuhrman's grade, TNM stage have been recorded. p53, Ki-67, CD34, bcl-2, EGFR, VEGF, and NF- $\kappa$ B stains have been performed immunohistochemically. Known prognostic factors, survivals and their interactions of all immunohistochemical indicators have been evaluated statistically.

According to our findings ; In 40 specimens, 32 clear cell, 6 papillary cell and 2 Chromophobic cell RCC. Mean survival rate of the patients was 12,5 months. NF- $\kappa$ B (r:0,448, p=0,004 ) with p53 (r: 0,410, p=0,009) bcl-2 ( r:0,509,p=0,001), VEGF ( r:0,516, p=0,001), EGFR ( r:0,410, p=0,009 ) significant relationship has been determined. None of the immunohistochemical indicators has been found to be effective to show survival rates. Among the parameters worked on, only the size of the tumor has been shown to be an independent prognostic factor.

The results of this study, we have not been able to find out a new prognostic factor to show survival rates in RCCs which'd been know with a high vascularization and chemotheraphic resistance. However, our results for NF- $\kappa$ B which has been searched heavily recently has given some new findings in terms of its function in RCCs. To find the role of unknown molecules such as NF- $\kappa$ B and relationship with various factors will create new openings in the treatment of RCC.

**Key Words :** Renal Cell Carcinoma, Prognosis, NF-KappaB