

Prognostic Effect of Preoperative Apolipoprotein B Level in Surgical Patients with Renal Clear Cell Carcinoma

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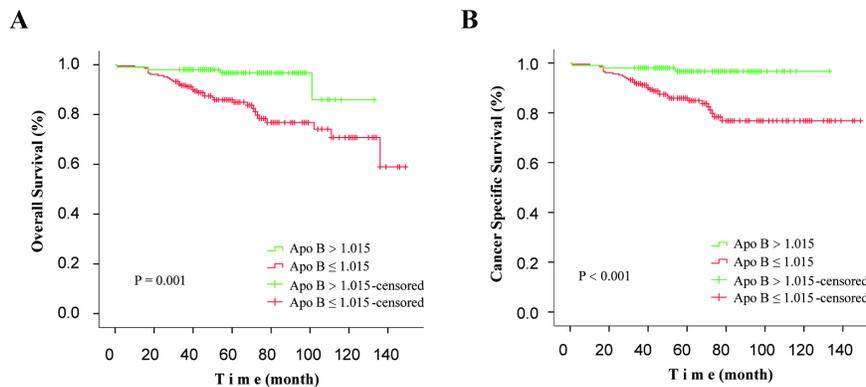
May 5, 2020

Abstract

Background: To assess the prognostic value of preoperative apolipoprotein B level in surgical patients with renal clear cell carcinoma (ccRCC). **Materials and Methods:** The study included 307 ccRCC patients receiving radical or partial nephrectomy between 2003 and 2012 in our center. The correlations among the preoperative ApoB, clinico-pathological parameters, and overall survival (OS) were evaluated. **Results:** A total of 193 men (62.9 %) and 114 women (37.1 %) with ccRCC underwent radical or partial nephrectomy were enrolled in the present study. The OS at five years after operation was 90.6 % for all patients, 87.4 % for the lower ApoB group, and 97.0 % for the higher ApoB group. The CSS at 5 years after surgery was 90.2 % for all patients, 86.7 % for the lower ApoB group, and 97.0 % for the higher ApoB group. A higher ApoB level was related to a better OS and CSS in ccRCC patients ($P = 0.001$ and $P < 0.001$, respectively). In multivariate analysis, age >60 ($P=0.008$ and $P=0.023$), lower Apo B level ($P= 0.019$ and $P= 0.018$), were independent prognostic factors for OS and CSS, respectively. **Conclusions:** In the Apo apolipoprotein family, the preoperative ApoB level has an important clinical significance for predicting the prognosis survival rate of the ccRCC patients.

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