团结/奉献/求实/创新

Bland thrombus as an independent risk factor for survival implications in renal cell carcinoma with venous tumor thrombus

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OBJECTIVE

• To characterize the presence of bland (nontumor) thrombus in renal cell carcinoma with venous tumor thrombus and assess the impact of this finding on cancer-specific survival.

METHODS

• The clinical data of 153 cases of renal tumors with renal vein or IVC tumor thrombus from February 2015 to January 2017 were retrospectively analyzed. Finally, 123 cases with follow-up were included in the study. In 123 patients, 21 cases(17.1%) had bland (nontumor) thrombus, and 102 cases(82.9%) without presence of bland thrombus.

RESULTS

• These patients with bland thrombus were more likely to have longer operative time (416.76±103.61 min vs. 314.86±123.00 min, P=0.001), more surgical bleeding volume (2738.10±2238.41 ml vs. 1090.98±1395.21 ml, P=0.004), more surgical blood transfusion volume (1933.33±2036.99 ml vs. 624.51±926.87 ml, P=0.009), more plasma transfusion volume (619.05±831.64 ml vs. 171.57±390.07 ml, P=0.025), longer maximum width of tumor thrombus (32.29±7.01 cm vs. 20.28±8.94 cm, P <0.001), longer width of tumor thrombus at the entrance of the renal vein (26.99±4.47 ml vs. 17.86±6.74 ml, P <0.001), a higher percentage of open operative approach (81% vs. 47.1%, P <0.001), a higher percentage of IVC resection (42.9% vs. 9.8%, P=0.001), and a higher percentage of postoperative complications (57.1% vs. 27.5%, P=0.011) than patients without bland thrombus present.

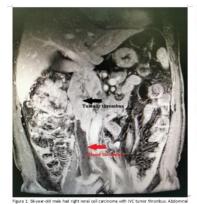
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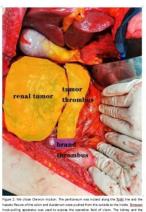


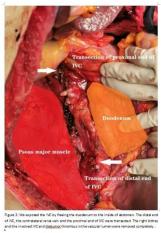
• Analysis of cancer-specific survival (CSS) showed only distant metastasis(P=0.004, HR=3.356), sarcomatoid differentiation(P<0.001, HR=6.875), pathology type clear cell carcinoma (P=0.015, HR=3.171), alkaline phosphatase (P=0.029, HR=2.543) and presence of bland (nontumor) thrombus (P=0.007, HR=3.323) were independent predictors of prognosis. The estimated average CSS of Group A(No Bland Thrombus Present) was 31.7 ± 1.9 months, and average CSS of Group B(Bland Thrombus Present) was 18.8 ± 1.8 months. There was significant difference of CSS between the two groups(P=0.041).

CONCLUSION

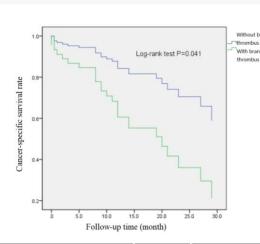
• Presence of bland thrombus is associated with adverse survival outcomes in patients treated surgically for renal cell carcinoma with venous tumor thrombus. The implications of these findings on underlying tumor biology and the modifiability of this prognosticator warrant additional study.











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the lumen fred arroyd. The range of IVC involvement was about 11.6 cm. Filling