

#### STRATIFYING SIZE WITHIN RENAL CELL CARCINOMA STAGING GROUPS DOES NOT CORRELATE TO OUTCOMES; A SINGLE INSTITUTION EXPERIENCE WITH 870 PATIENTS OVER 15 YEARS Aleem Khan, Bashir Al Hussein Al Awamlh, Lina Posada Calderon, Jonathan Fainberg, Mark Alshak, Rahmi Elahjji, Jonathan Shoag, Douglas Scherr Weill Cornell Medicine, Department of Urology, New York, NY MP82-11

### Introduction

- Tumor size is a well-established prognostic biomarker in patients with renal cell carcinoma (RCC).
- While compelling evidence has previously shown the prognostic relevance of dividing T2 tumors into T2a (>7cm and <10cm) and T2b (>10cm), there is a paucity of evidence to support the subcategorization of tumors into T1a and T1b.
- This study is aimed to determine the prognostic relevance of subcategorization within T1 disease, as well as the prognostic significance of tumor dimension below 7cm.

## Methods

- Retrospective study of 870 patients who underwent surgical management of renal tumors between 2000 and 2015
- On final pathology 615 patients had pT1 disease, of which:
- pT1a: 459 patients had T1a on final pathology
- pT1b: 161 patients had T1b on final pathology
- Outcomes analyzed included Overall Survival (OS), cancer-specific survival (CSS), and recurrence-free survival (RFS)
- Multivariate Cox regression analysis was used to assess the association between T1 subcategory and cancer-specific survival adjusting for age, gender, ASA class, tumor grade, and histologic subtype

## Results

# cohorts.

**Baseline Ch** Age, I Fema Rena Diabet Нуре ASA Oncologic

- **Histolog**
- Clea
- Papi Chror
- Onco
- Nodal St
- N0/N
- N1-N3
- Positive
- Lympho
- Recurre

The median follow-up for both patient groups was 6 years (IQR 2.8-10.5), and median age at presentation was 62 and 65 years for T1a and T1b, respectively.

There was no statistically significant difference in survival outcomes between T1a and T1b disease with respect to OS (Figure 1), CSS (Figure 2), or RFS (Figure 3).

Additionally, there was no significant association with maximum tumor dimension in OS (p=0.79), CSS (p=0.39), and RFS (p=0.23) across all T1 disease.

On multivariate Cox regression, T1b was not associated with worse RFS compared to T1a after adjusting for histologic subtype (HR 1.28, 95% CI 0.513-3.163).

	T1a patients (n=456)	T1b patients (n=159)	p-valu
haracteristics			
nedian (IQR)	62 (53-70)	65 (53-72)	0.24
e, n (%)	151 (33)	50 (31)	0.67
Insufficiency, n (%)	52 (11)	19 (12)	0.83
es, n (%)	52 (11)	26 (16)	0.10
ension, n (%)	252 (55)	92 (58)	0.55
core ≥ 3, n (%)	152(33)	60 (39)	0.76
Outcomes			
ic Subtype , n (%):			
Cell	225 (50)	103 (65)	
ary	108 (24)	17 (11)	<0.01
nophobe	49 (11)	20 (13)	
cytoma	48 (11)	16 (10)	
tage, n (%):			
	4 (80)	4 (80)	0.30
	1 (20)	1 (20)	
Surgical Margin, n (%)	2 (3)	5 (6)	0.58
vascular invasion, n (%)	4 (1)	6 (4)	0.01
nce, n (%)	24 (5)	19 (11)	<0.01

#### Table 1. Demographics and Baseline characteristics of T1a and T1b





