

Supplementary Table 2. Characteristics of tumors in the studies evaluating percutaneous renal mass sampling

Author, year	n*	T1, n (%)	T1a, n (%)	T1-2, n (%)	Tumor Size (cm)	Tumor location-Right, n (%)
Campbell, 1997 ¹²	25	25 (100)	NR	NR	Mean: 3.0 Median: 2.7 Range: 1.2-5.0 SD: 1.1	NR
Chyhrat, 2010 ¹³	25	NR	25(100)	NR	Mean: 2.5 Range: 1.5-4.0 SD: 1.03	NR
Halverson, 2013 ^{14***}	151	NR	151(100)	NR	Mean: 2.8* Range: 1.0-4.0 SD: 0.8	NR
Harisinghani, 2003 ¹⁵	28	NR	NR	28(100)	NR	NR
Leveridge, 2011 ¹⁶	314	NR	314(100)	NR	Median: 2.5 Range: 0.6-4.0	NR
Londono, 2013 ¹⁷	126	NR	NR	126(100)	Mean: 5.5 SD: 3.7	NR
Menogue, 2012 ¹⁸	250	NR	250(100)	NR	Median: 2.5 Range: 0.9-4.0	NR
Millet, 2012 ¹⁹	187	NR	187(100)	NR	Median: 3 Range: 0.9-4.0	NR
Neuzillet, 2003 ²⁰	88	NR	88(100)	NR	Median: 2.8 Range: 0.2-4.0	40(46)
Park, 2013 ²¹	59	NR	59(100)	NR	Mean: 2.3 Range: 1.1-3.9	NR
Prince, 2015 ^{20a***}	565	NR	413(73)	152(27)	Mean: 2.9, 2.2	NR
Reichelt, 2007 ²⁵	30	30	NR	NR	Mean: 2.9 SD: 1.1	NR
Richard, 2015 ⁵	529	NR	529(100)	NR	Mean: 2.5	289(55)
Salem, 2012 ²²	145	NR	145(100)	NR	Mean: 2.4 SD: 1.1	77(53)
Schmidbauer, 2008 ²³	78	NR	44(56)	34(44)	Mean: 4.0 Median: 3.9 Range: 0.8-9.0 SD: 1.8	39(50)
Shannon, 2008 ^{23a****}	222	222(100)	NR	NR	Median: 2.9 Range: 1.0-4.9	NR
Sofikerim, 2009 ²⁴	42	NR	NR	42 100	Mean: 6.4 Range: 2.5-14.0	21(50)
Vasudevan, 2006 ^{25****}	92	92(100)	NR	NR	NR	NR
Volpe, 2008 ²⁶	100	NR	100(100)	NR	Median: 2.4 Range: 0.8-4.0	47(47)
Wang, 2009 ²⁷	110	NR	110(100)	NR	Mean: 2.7 Range: 0.5-4.0 SD: 0.9	50(46)
Summary**	3074	277 (9)	2415 (79)	382 (12)	Mean: 2.3-6.4 Median: 2.2-3.9 Range: 0.5-14.0	563(52)

n= sample size; SD= Standard Deviation; NR=Not Reported

*^{16, 21, 23, 26, 27} include a few patients with multiple tumors biopsied.

**Tumor size only reported for patients with malignant results on biopsy (N=133).

***Tumor size given for diagnostic and nondiagnostic groups separately as listed in table, respectively

****Summarized for unique patients; Shannon 2008 is an update of Vasudevan 2006.