

Supplementary Table 6. Calculated performance characteristics from each individual study based on patients with available surgical pathology

Author, year	Biopsy n	Surgery n (%)	Non-diagnostic biopsy		Benign biopsy		Malignant biopsy		Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)
			Surgery n	Malignant n (%)	True Negative	False Negative	True Positive	False Positive				
Campbell, 1997 ¹²	25	25(100)	9	9(100)	0	6	10	0	62.5	NA	100	0.0
Chyhrail, 2010 ¹³	25	21(84)	1	1(100)	5	1	14	0	93.3	100	100	83.3
Halverson, 2013 ¹⁴	151	151(100)	NR	NR	4	3	130	0	97.7	100	100	57.1
Harisinghani, 2003 ¹⁵	28	16(57)	0	NR	1	0	16	0	100	100	100	100
Leveridge, 2011 ¹⁶	345	74(21)	6	5(83)	NR	NR	NR	NR	NA	NA	NA	NA
Londono, 2013 ¹⁷	132	63(48)	2	2(100)	2	13	46	0	78.0	100	100	13.3
Menogue, 2012 ¹⁸	250	129(52)	9	8(89)	6	0	114	0	100	100	100	100
Millet, 2012 ^{19*}	187	61(33)	NR	NR	NR	NR	61	0	NA	NA	100	NA
Neuzillet, 2003 ²⁰	88	62(70)	5	5(100)	1	0	56	0	100	100	100	100
Park, 2013 ²¹	59	13(22)	2	2(100)	0	0	11	0	100	NA	100	NA
Prince, 2015 ²⁰	565	NR	NR	NR	NR	NR	NR	NR	NA	NA	NA	NA
Reichelt, 2007 ²⁶	30	22(73)	4	4(100)	4	0	14	0	100	100	100	100
Richard, 2015 ⁹	529	171(32)	4	4(100)	3	0	163	1	100	75.0	99.4	100
Salem, 2012 ²²	145	93(64)	6	6(100)	0	0	87	0	100	NA	100	NA
Schmidbauer, 2008 ²⁹	78	78(100)	2	2(100)	13	3	60	0	95.2	100	100	81.3
Shannon, 2008 ^{23**}	224	118(53)	15	12(80)	7	0	96	0	100	100	100	100
Sofikerim, 2009 ²⁴	42	42(100)	3	3(100)	3	3	32	1	91.4	75.0	97.0	50.0
Vasudevan, 2006 ^{25**}	92	48(52)	9	8(89)	3	0	36	0	100	100	100	100
Volpe, 2008 ²⁶	100	23(23)	3	1(33)	0	0	20	0	100	NA	100	NA
Wang, 2009 ²⁷	110	36(33)	2	2(100)	1	0	33	0	100	100	100	100
Summary	Biopsy n	Surgery n (%)	Sensitivity (%)		95% CI*	Specificity (%)		95% CI	PPV* (%)	95% CI	NPV* (%)	95% CI
Diagnostic Biopsies Only	2640**	1246(47)	96.9		95.8-98.0	96.2		90.7-100	99.8	99.5-100	63.3	52.4-74.2
Core Biopsy Subset	2615**	1221(47)	97.5		96.5-98.5	96.2		90.7-100	99.8	99.5-100	68.5	57.6-79.4

n= sample size; NR=Not Reported; NA=Not Applicable; NPV=negative predictive value; PPV=positive predictive value; 95% CI = 95% Confidence Interval

*42 (22.5%) biopsies were benign or non-diagnostic but the proportion of each is not reported.

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