Supplemental Figure 2. Pooled sensitivity (A) and specificity (B) of percutaneous transthoracic needle biopsy in 2-by-2 (excluding biopsy cases of insufficient specimen from analysis) and 3-by-2 tables (deciding biopsy cases of insufficient specimen as diagnostic failure)

(A) Pooled sensitivity

	2X2 Table		3X2 Table	
Garcia, 1994 Lovertt, 1988 Taft, 1980 Kim, 2011 Nasiell, 1967 Cattelani, 1997 Pilotti, 1982 Johnson, 1983 Arslan, 2002 Veale, 1988 Saha, 2009 Calhoun, 1986 Kurban, 2008 Hur, 2010 Santambrogio, 1997 Zakowski, 1992 Pak, 1981 Gangopadhyay, 2011 Zhuang, 2013 Swischuk, 1998 Nahman, 1985 Savage, 2004 Vijitsanguan, 2012	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0.84 & [0.74, 0.92]\\ 0.90 & [0.82, 0.96]\\ 0.83 & [0.73, 0.90]\\ 0.88 & [0.80, 0.94]\\ 0.72 & [0.62, 0.81]\\ 0.87 & [0.76, 0.96]\\ 0.92 & [0.86, 0.97]\\ 0.92 & [0.86, 0.97]\\ 0.92 & [0.86, 0.97]\\ 0.92 & [0.86, 0.97]\\ 0.92 & [0.86, 0.97]\\ 0.92 & [0.86, 0.97]\\ 0.93 & [0.94]\\ 0.88 & [0.84, 0.92]\\ 0.87 & [0.79, 0.94]\\ 0.95 & [0.87, 0.99]\\ 0.87 & [0.79, 0.94]\\ 0.88 & [0.81, 0.94]\\ 0.88 & [0.81, 0.94]\\ 0.88 & [0.81, 0.94]\\ 0.88 & [0.90, 1.00]\\ 1.098 & [0.94, 1.00]\\ 0.98 & [0.94, 1.00]\\ 0.98 & [0.97, 0.99]\\ 0.95 & [0.87, 0.99]\\ 0.95 & [0.97, 0.99]\\ 0.98 & [0.97, 0.99]\\ 0.98 & [0.97, 0.99]\\ 0.98 & [0.97, 0.99]\\ 0.98 & [0.97, 0.99]\\ 0.95 & [0.87, 0.90]\\ 0.95 & [0.87, 0.90]\\ 0.95 & [0.87, 0.90]\\ 0.95 & $
FNA	(I ² = 83.9 %)	🔶 0.96 [0.94, 0.98]	$(\mathbf{I}^2 = 86.5\%)$ \blacklozenge 0.	.91 [0.88, 0.94]
Balslov, 1988 McEvoy, 1983 Sangha, 2016 Braak, 2012 Fontaine-Delaruelle, 2015 Yamagami, 2003 Heyer, 2008 Quint, 2006 Min, 2009 Satoh, 2005 Klein, 1996 Choi, 2013 Inoue, 2012 Harrison, 1984 Wang, 2014 Billich, 2008 Lee, 2014 Billich, 2008 Lee, 2014 Busso, 2015 Charig, 2000 Hirose, 2000	161 / 162 61 / 61 167 / 181 64 / 64 776 / 807 777 / 81 109 / 109 157 / 162 143 / 145 33 / 34 77 / 77 148 / 159 50 / 59 63 / 64 250 / 260 99 / 99 736 / 753 70 / 74 497 / 511 150 / 161 25 / 26	→ 0.99 [0.97, 1.00] → 1.00 [0.97, 1.00] → 1.00 [0.97, 1.00] → 0.92 [0.88, 0.96] → 1.00 [0.97, 1.00] → 1.00 [0.97, 1.00] → 0.96 [0.95, 0.97] → 0.96 [0.95, 0.97] → 0.97 [0.94, 0.99] → 0.97 [0.94, 0.99] → 0.97 [0.94, 0.99] → 0.97 [0.94, 0.99] → 0.97 [0.94, 0.99] → 0.97 [0.94, 0.99] → 0.97 [0.94, 0.99] → 0.97 [0.98, 1.00] → 0.98 [0.97, 0.93] → 0.98 [0.93, 0.98] → 0.98 [0.97, 0.99] → 0.98 [0.97, 0.99] → 0.95 [0.88, 0.99] → 0.95 [0.88, 0.99] → 0.97 [0.96, 0.99] → 0.97 [0.96, 0.99] <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>0.78 [0.72, 0.84] 0.90 [0.81, 0.96] 0.83 [0.78, 0.88] 0.91 [0.84, 0.97] 0.89 [0.87, 0.91] 0.89 [0.87, 0.91] 0.93 [0.88, 0.96] 0.92 [0.80, 0.95] 0.93 [0.88, 0.96] 0.95 [0.89, 0.99] 0.90 [0.85, 0.94] 0.95 [0.89, 0.99] 0.96 [0.94, 1.00] 0.96 [0.94, 0.97] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.94 [0.94, 1.00] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.94 [0.94, 1.00] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.94 [0.94, 1.00] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.97 [0.95, 0.98] 0.93 [0.88, 0.96] 0.94 [0.94, 0.00] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.97 [0.95, 0.98] 0.93 [0.88, 0.96] 0.94 [0.94, 0.00] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.97 [0.95, 0.98] 0.97 [0.95, 0.98] 0.93 [0.88, 0.96] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.94 [0.94, 0.97] 0.94 [0.94, 0.97] 0.95 [0.98, 0.98] 0.97 [0.95, 0</td></t<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.78 [0.72, 0.84] 0.90 [0.81, 0.96] 0.83 [0.78, 0.88] 0.91 [0.84, 0.97] 0.89 [0.87, 0.91] 0.89 [0.87, 0.91] 0.93 [0.88, 0.96] 0.92 [0.80, 0.95] 0.93 [0.88, 0.96] 0.95 [0.89, 0.99] 0.90 [0.85, 0.94] 0.95 [0.89, 0.99] 0.96 [0.94, 1.00] 0.96 [0.94, 0.97] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.94 [0.94, 1.00] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.94 [0.94, 1.00] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.93 [0.88, 0.96] 0.94 [0.94, 1.00] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.97 [0.95, 0.98] 0.93 [0.88, 0.96] 0.94 [0.94, 0.00] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.97 [0.95, 0.98] 0.93 [0.88, 0.96] 0.94 [0.94, 0.00] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.97 [0.95, 0.98] 0.97 [0.95, 0.98] 0.93 [0.88, 0.96] 0.94 [0.94, 0.97] 0.93 [0.88, 0.96] 0.94 [0.94, 0.97] 0.94 [0.94, 0.97] 0.95 [0.98, 0.98] 0.97 [0.95, 0
Core	(Ĩ = 71.6 %)	0.97 [0.96, 0.98]	$(I = 83.0\%) \qquad • 0.$.92 [0.89, 0.94]
Overall	(I ² = 79.6 %)	♦ 0.97 [0.96, 0.98]	$(\mathbf{I}^2 = 84.8\%) \qquad \blacklozenge \qquad 0.$.91 [0.90, 0.93]
	0.7 0.8 0.9 1		0.7 0.8 0.9 1	

(B) Pooled specificity

