Supplementary Materials

Figure s9b. Direct comparative test accuracy studies evaluating rapid RT-PCR test and standard non-rapid laboratory-based NAAT vs. composite reference standard

Study	Index	Index Sample	Reference	Ref Sample	TN	FP	Spec	cificity 95%-CI
Test: Non-Rapid PCR Lieberman Smith Smithgall Zhen Random effects model Heterogeneity: $I^2 = 0\%$, τ^2		NPS-VTM NPS-VTM NPS-VTM NPS-VTM; MTS/NS-Dry	Cobas/CXX/DS/HPF/LDT Aptima/BioFire/HPF Cobas/CXX/ID Now CXX/ePlex/HPF/ID Now	NPS-VTM NPS-VTM NPS-VTM NPS-VTM; MTS/NS-Dry	13 74 25 50	0 — 0 1 1	——————————————————————————————————————	1.00 [0.75; 1.00] 1.00 [0.95; 1.00] 0.96 [0.80; 1.00] 0.98 [0.90; 1.00] 0.99 [0.95; 1.00]
Test: Rapid PCR Lieberman Smith Smithgall Zhen Random effects model Heterogeneity: $I^2 = 76\%$, τ Heterogeneity: $I^2 = 42\%$, τ	$a^2 = 4.653$ $a^2 = 0.985$	NPS-VTM NPS-VTM; MTS/NS-Dry 9, p = 0.97 3, p = 0.99	Cobas/CXX/UW-LDT Aptima/BioFire/HPF Cobas/CXX/ID Now CXX/ePlex/HPF/ID Now	NPS-VTM NPS-VTM NPS-VTM NPS-VTM; MTS/NS-Dry	13 75 24 51	0 — 0 2 — 0		1.00 [0.75; 1.00] 1.00 [0.95; 1.00] 0.92 [0.75; 0.99] 1.00 [0.93; 1.00] 1.00 [0.68; 1.00]
Test for subgroup differences: $\chi_1^2 = 0.24$, df = 1 ($p = 0.62$) 0.75 0.8 0.85 0.9 0.95 1								

4 studies, 329 patients; specificity based on bivariate model: non-rapid 0.97 (0.92-0.99) vs. rapid 0.97 (0.89-0.99)