Supplement G

Recommendation 7: In symptomatic individuals suspected of having COVID-19, does the use of rapid vs. standard lab-based nucleic acid amplification testing (NAAT) affect diagnostic accuracy of the test?

Figure s7a. Test accuracy studies evaluating rapid RT-PCR test vs. single standard non-rapid lab-based NAAT or composite reference standard when available

Study	Index	Index Sample	Reference	Ref Sample	TP	FN			5	Sensitivity	95%-CI
Hogan	Accula	NPS-VTM	LDT	NPS-VTM	34	16 —				0.68	[0.53; 0.80]
Smith	BioFire	NPS-VTM	Aptima/BioFire/HPF	NPS-VTM	74	1			-	0.99	[0.93; 1.00]
Liotti	BioFire	NS/OPS-NR	Quanty	NS/OPS-NR	114	6			-	0.95	[0.89; 0.98]
Loeffelholz MJ	CXX	NPS/NPS&OPS/OPS/LRS-VTM	Abbott RT	NPS/NPS&OPS/OPS/LRS-VTM	8	0	77		-	1.00	[0.63; 1.00]
Loeffelholz MJ	CXX	NPS/NPS&OPS/OPS/LRS-VTM	Allplex/GF RealAmp	NPS/NPS&OPS/OPS/LRS-VTM	35	0				1.00	[0.90; 1.00]
Moran	CXX	NPS-VTM	Cobas	NPS-VTM	42	0				1.00	[0.92; 1.00]
Smithgall	CXX	NPS-VTM	Cobas/CXX/ID Now	NPS-VTM	87	0				1.00	[0.96; 1.00]
Lieberman	CXX	NPS-VTM	Cobas/CXX/UW-LDT	NPS-VTM	11	0	_		-	1.00	[0.72; 1.00]
Zhen	CXX	NPS-VTM; MTS/NS-Dry	CXX/ePlex/HPF/ID Now	NPS-VTM; MTS/NS-Dry	57	0				1.00	[0.94; 1.00]
Loeffelholz MJ	CXX	NPS/NPS&OPS/OPS/LRS-VTM	CXX/LDT-CDC/Quest	NPS/NPS&OPS/OPS/LRS-VTM	12	0			-	1.00	[0.74; 1.00]
Loeffelholz MJ	CXX	NPS/NPS&OPS/OPS/LRS-VTM	CXX/LDT/Roche E gene	NPS/NPS&OPS/OPS/LRS-VTM	38	0			-	1.00	[0.91; 1.00]
Stevens	CXX	NPS-VTM	HPF	NPS-VTM	53	0				1.00	[0.93; 1.00]
Wolters	CXX	NPS/MTS/OPS-VTM	LDT-CDC	NPS/MTS/OPS-VTM	58	0				1.00	[0.94; 1.00]
Hou	CXX	OPS-NR	NMPA	OPS-NR	147	6			-		[0.92; 0.99]
Loeffelholz MJ	CXX	NPS/NPS&OPS/OPS/LRS-VTM	NY-LDT/HPF/CXX	NPS/NPS&OPS/OPS/LRS-VTM	74	0				1.00	[0.95; 1.00]
Loeffelholz MJ	CXX	NPS/NPS&OPS/OPS/LRS-VTM	Realstar	NPS/NPS&OPS/OPS/LRS-VTM	60	0				1.00	[0.94; 1.00]
Visseaux	QIAstat	NPS-Dry	Cobas/LDT-WHO/QIAstat	NPS-Dry	24	0				1.00	[0.86; 1.00]
Visseaux	QIAstat	NPS/LRS-VTM	LDT-WHO ± Cobas	NPS/LRS-VTM	17	0		_	-	1.00	[0.80; 1.00]
Random effects mod Heterogeneity: $I^2 = 91\%$		3, <i>p</i> < 0.01								1.00	[0.97; 1.00]
				40 -1-11 07		t' t	0.6 0.7	8.0	0.9 1	//	2.04.0.00\

12 studies, 974 patients; sensitivity based on bivariate model: 0.97 (0.94-0.99)