

Supplementally Tables

Supplementally Table 1 : Success rate, sensitivity and specificity through subgroups

Subgroup	Number of assessments	Success rate			Sensitivity			Specificity		
		With cCTG	Without cCTG	p value	With cCTG	Without cCTG	p value	With cCTG	Without cCTG	p value
Total	8 219	61.4% [60.1%. 62.7%]	54.0% [52.0%. 55.9%]	< 0.01	61.7% [59.8%. 63.5%]	49.3% [46.5%. 52.0%]	< 0.01	61.2% [59.4%. 63.0%]	58.7% [56.0%. 61.4%]	0.14
Profession										
Midwives	2493	61.7% [59.3%. 64.0%]	54.7% [51.2%. 58.2%]	< 0.01	62.5% [59.1%. 65.7%]	50.9% [45.9%. 55.9%]	0.01	60.9% [57.5%. 64.2%]	58.5% [53.6%. 63.4%]	0.46
Obstetrician-Gynecologists	2611	60.5% [58.2%. 62.8%]	54.6% [51.1%. 58.0%]	< 0.01	60.3% [57.0%. 63.5%]	48.5% [43.6%. 53.3%]	< 0.01	60.7% [57.4%. 64.0%]	60.7% [55.9%. 65.4%]	1
Residents	3115	62.0% [59.9%. 64.1%]	52.8% [49.7%. 55.9%]	< 0.01	62.2% [59.2%. 65.2%]	48.6% [44.2%. 53.1%]	< 0.01	61.8% [58.8%. 64.7%]	57.2% [52.7%. 61.6%]	0.09
Country										
France	4420	62.2% [60.4%. 63.9%]	54.8% [52.2%. 57.4%]	< 0.01	60.2% [57.6%. 62.7%]	47.2% [43.5%. 50.8%]	< 0.01	64.1% [61.6%. 66.5%]	62.8% [59.1%. 66.4%]	0.61
United Kingdom	1290	61.9% [58.6%. 65.2%]	52.3% [47.4%. 57.2%]	< 0.01	66.8% [62.2%. 71.2%]	53.7% [46.6%. 60.7%]	< 0.01	57.1% [52.3%. 61.8%]	50.9% [44.0%. 57.9%]	0.16

Vietnam	1777	59.6% [56.8%. 62.4%]	51.6% [47.4%. 55.7%]	< 0.01	60.8% [56.7%. 64.7%]	51.7% [45.8%. 57.7%]	0.01	58.4% [54.4%. 62.4%]	51.4% [45.5%. 57.3%]	0.06
Other Europe*	384	61.0% [54.8%. 67.0%]	58.4% [49.2%. 67.1%]	0.71	64.2% [55.4%. 72.3%]	47.4% [34.0%. 61.0%]	0.04	57.6% [48.4%. 66.4%]	67.6% [55.2%. 78.5%]	0.22
Other Asia**	142	59.8% [49.3%. 69.6%]	55.6% [40.0%. 70.4%]	0.77	60.0% [45.2%. 73.6%]	40.9% [20.7%. 63.6%]	0.21	59.6% [44.3%. 73.6%]	69.6% [47.1%. 86.8%]	0.58
Other Africa***	148	65.0% [54.8%. 74.3%]	60.4% [45.3%. 74.2%]	0.72	71.2% [56.9%. 82.9%]	60.9% [38.5%. 80.3%]	0.54	58.3% [43.2%. 72.4%]	60.0% [38.7%. 78.9%]	1
Other America** **	58	48.7% [32.4%. 65.2%]	52.6% [28.9%. 75.6%]	1	50.0% [28.2%. 71.8%]	42.9% [9.9%. 81.6%]	< 0.01	47.1% [23.0%. 72.2%]	58.3% [27.7%. 84.8%]	0.82
Years of experience										
Less than 5 years	5615	61.5% [59.9%. 63.0%]	53.7% [51.4%. 56.1%]	< 0.01	61.8% [59.5%. 64.0%]	49.5% [46.2%. 52.8%]	< 0.01	61.2% [59.0%. 63.4%]	58.0% [54.7%. 61.3%]	0.13
More than 5 years	2604	61.3% [59.0%. 63.6%]	54.4% [51.0%. 57.8%]	0.01	61.4% [58.1%. 64.7%]	48.7% [43.8%. 53.6%]	< 0.01	61.1% [57.9%. 64.4%]	60.2% [55.3%. 64.9%]	0.79
Place of practice										
Academic hospital	6600	61.5% [60.0%. 62.9%]	53.8% [51.7%. 56.0%]	< 0.01	61.5% [59.4%. 63.5%]	48.9% [45.8%. 51.9%]	< 0.01	61.5% [59.4%. 63.5%]	58.7% [55.7%. 61.7%]	0.13

Non-academic hospital	1619	61.2% [58.2%. 64.1%]	54.5% [50.1%. 58.8%]	0.01	62.5% [58.2%. 66.6%]	50.7% [44.6%. 56.8%]	< 0.01	60.0% [55.9%. 64.1%]	58.7% [52.3%. 64.9%]	0.78
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cCTG computerized cardiotocography,

* Albania, Belgium, Netherlands, Finland, Germany, Ireland, Italy, Lithuania, Spain, Switzerland, Sweden,

** Cambodia, Lebanon,

***Algeria, Gabon, Morocco, Tunisia,

**** Brazil, Canada, Mexico

Supplementally Table 2: Proportion of agreement and reliability per profession with and without computerized cardiotocography

A/ Proportion of agreement

	Intern/Resident	Midwife	Obstetrician-Gynecologist
Intern/Resident		0.83 [0.69, 0.97]	0.81 [0.67, 0.95]
Midwife	0.87 [0.73, 1.01]		0.82 [0.68, 0.96]
Obstetrician-Gynecologist	0.92 [0.78, 1.06]	0.93 [0.79, 1.07]	
Proportion of agreement with cCTG			
Proportion of agreement without cCTG			

B/ Reliability

	Intern/Resident	Midwife	Obstetrician-Gynecologist
Intern/Resident		0.65 [0.52, 0.78]	0.65 [0.52, 0.78]
Midwife	0.74 [0.6, 0.87]		0.63 [0.5, 0.76]
Obstetrician-Gynecologist	0.84 [0.7, 0.98]	0.86 [0.72, 1.0]	
Cohen's Kappa with cCTG			
Cohen's Kappa without cCTG			

Supplementally Table 3: Agreement and reliability per country

A/ Proportion of agreement

	France	United Kingdom	Vietnam	Other Europe*	Other Asia**	Other Africa***	Other America****
France		0.76 [0.62, 0.89]	0.68 [0.55, 0.81]	0.75 [0.59, 0.92]	0.79 [0.57, 1.01]	0.79 [0.58, 1.01]	0.73 [0.39, 1.08]
United Kingdom	0.89 [0.75, 1.03]		0.59 [0.46, 0.71]	0.62 [0.47, 0.78]	0.57 [0.36, 0.77]	0.67 [0.46, 0.88]	0.53 [0.22, 0.85]
Vietnam	0.83 [0.69, 0.97]	0.80 [0.66, 0.94]		0.68 [0.52, 0.84]	0.79 [0.57, 1.01]	0.79 [0.58, 1.01]	0.53 [0.22, 0.85]
Other Europe*	0.86 [0.71, 1.0]	0.84 [0.7, 0.99]	0.77 [0.62, 0.91]		0.78 [0.52, 1.04]	0.70 [0.45, 0.96]	0.54 [0.2, 0.88]
Other Asia**	0.71 [0.56, 0.87]	0.64 [0.49, 0.8]	0.74 [0.58, 0.9]	0.63 [0.47, 0.79]		0.72 [0.41, 1.04]	0.44 [0.06, 0.83]
Other Africa***	0.84 [0.68, 1.0]	0.74 [0.58, 0.9]	0.75 [0.6, 0.91]	0.81 [0.64, 0.97]	0.66 [0.48, 0.84]		0.62 [0.17, 1.08]
Other America****	0.67 [0.38, 0.95]	0.71 [0.42, 1.0]	0.57 [0.3, 0.84]	0.67 [0.38, 0.95]	0.65 [0.33, 0.96]	0.57 [0.3, 0.84]	

Proportion of agreement with cCTG
 Proportion of agreement without cCTG

B/Reliability

	France	United Kingdom	Vietnam	Other Europe*	Other Asia**	Other Africa***	Other America****
France		0.52 [0.39, 0.64]	0.34 [0.24, 0.45]	0.48 [0.34, 0.62]	0.53 [0.33, 0.73]	0.58 [0.38, 0.78]	0.40 [0.11, 0.69]
United Kingdom	0.78[0.64, 0.91]		0.17 [0.09, 0.25]	0.26 [0.14, 0.37]	0.14 [0.02, 0.26]	0.34 [0.18, 0.51]	na
Vietnam	0.66[0.53, 0.79]	0.60[0.47, 0.73]		0.34 [0.21, 0.46]	0.53 [0.33, 0.73]	0.57 [0.37, 0.77]	-0.11[-0.11, -0.11]
Other Europe*	0.71[0.57, 0.85]	0.69[0.55, 0.83]	0.54[0.41, 0.67]		0.54 [0.31, 0.78]	0.33 [0.13, 0.53]	-0.26[-0.26, -0.26]
Other Asia**	0.43[0.29, 0.56]	0.29[0.17, 0.4]	0.49[0.34, 0.63]	0.26[0.15, 0.38]		0.40 [0.14, 0.66]	-0.15[-0.15, -0.15]
Other Africa***	0.67[0.52, 0.83]	0.48[0.34, 0.62]	0.50[0.36, 0.64]	0.61[0.46, 0.77]	0.32[0.18, 0.46]		0.25 [-0.07, 0.57]
Other America****	0.33[0.11, 0.56]	0.43[0.18, 0.68]	0.15[-0.01, 0.31]	0.33[0.1, 0.55]	0.29[0.05, 0.53]	0.15[-0.01, 0.31]	

Cohen's Kappa with cCTG
 Cohen's Kappa without cCTG

* Albania, Belgium, Finland, Germany, Ireland, Italy, Lithuania, Spain, Sweden,

** Cambodia, Lebanon,

***Algeria, Gabon, Morocco

**** Brazil, Canada, Mexico, Guadeloupe

Supplementally Table 4: Agreement and reliability per years of experience

A/ Proportion of agreement

	More than 8 years	3- 7 years	Less than 2 years
More than 8 years		0.82 [0.63, 1,0]	0.72 [0.53, 0.91]
3- 7 years	0.90 [0.7, 1,0]		0.84 [0.65, 1]
Less than 2 years	0.89 [0.7, 1,0]	0.91 [0.71, 1]	

Proportion of agreement with cCTG
Proportion of agreement without cCTG

B/ Reliability

	More than 8 years	3- 7 years	Less than 2 years
More than 8 years		0.62 [0.44, 0.8]	0.43 [0.27, 0.59]
3- 7 years	0.8 [0.61, 0.99]		0.66 [0.48, 0.84]
Less than 2 years	0.78 [0.59, 0.97]	0.82 [0.63, 1]	

Cohen's Kappa with cCTG

Cohen's Kappa without cCTG