

Table S5. Diagnostic test accuracy of the action line for adverse neonatal outcomes

Country (Year) reference	Action line status	Adverse Neonatal Outcome		Percentage of action line crossing	Prevalence of adverse neonatal outcome	Sensitivity (95% CI)	Specificity (95% CI)	Positive likelihood ratio (95% CI)	Negative likelihood ratio (95% CI)	Diagnostic Odds Ratio (95% CI)	J statistic (95% CI)
		Present	Absent								
Apgar Score at 1 min <7											
Indonesia, Malaysia and Thailand (1994) ^{WHO} [Apgar Score at 1 min <8]	Crossed	98	423	8.1%	6.0%	25.5%	93.0%	3.65	0.80	4.56	18.5%
	Not crossed*	286	5635			(21.4-30.1)	(92.4-93.6)	(3.0-4.4)	(0.8-0.9)	(3.6-5.9)	(14.1-22.9)
Mali (2009) ^{Diarra**}	Crossed	62	10	4.7%	9.6%	42.5%	99.3%	58.43	0.58	100.82	41.7%
	Not crossed	84	1366			(34.7-50.6)	(98.7-99.6)	(30.6-111.5)	(0.5-0.7)	(49.9-203.7)	(33.7-49.8)
Apgar Score at 5min <7											
Ecuador (2008) ^{López}	Crossed	0	64	12.8%	0.0%	NA	NA	NA	NA	NA	NA
	Not crossed	0	436								
Brazil (2009) ^{Rocha}	Crossed	0	21	9.0%	1.3%	0.0%	90.9%	NA	1.10	NA	-9.1%
	Not crossed	3	209			(0-56.2)	(86.5-94.0)		(1.1-1.2)		(-12.9-(-5.4))
India (2016) ^{Rani}	Crossed	0	32	16.0%	2.0%	0.0%	83.7%	NA	1.20	NA	-16.3%
	Not crossed	4	164			(0-49.0)	(77.9-88.2)		(1.2-1.3)		(-21.5-(-11.2))
Nigeria and Uganda (2018) ^{Souza}	Crossed	51	1217	14.9%	2.8%	21.7%	85.3%	1.47	0.92	1.60	7.0%
	Not crossed	184	7037			(16.9-27.4)	(84.5-86.0)	(1.2-1.9)	(0.9-0.98)	(1.17-2.20)	(1.6-12.3)
Neonatal resuscitation****											
Senegal (1992) ^{Dujardin} [Neonatal resuscitation at birth]	Crossed	4	19	2.4%	5.4%	7.7%	97.9%	3.68	0.94	3.90	5.6%
	Not crossed	48	890			(3.0-18.2)	(96.898.7)	(1.3-10.4)	(0.87-1.02)	(1.3-11.9)	(-1.7-12.9)
Brazil (2009) ^{Rocha} [Neonatal resuscitation]	Crossed	0	21	9.0%	2.6%	0.0%	90.7%	NA	1.10	NA	-9.3%
	Not crossed	6	206			(0-39.0)	(86.3-93.9)		(1.06-1.15)		(-13.0-(-5.5))
Nigeria and Uganda (2018) ^{Souza} [Neonatal resuscitation during hospital stay]	Crossed	14	1254	14.9%	0.7%	22.2%	85.1%	1.49	0.91	1.63	7.3%
	Not crossed	49	7172			(13.7-33.9)	(84.3-85.9)	(0.9-2.4)	(0.8-1.0)	(0.9-3.0)	(-3.0-17.6)
Birth asphyxia											
Nigeria (2008) ^{Orji}	Crossed	13	89	22.0%	10.2%	27.7%	78.6%	1.29	0.92	1.40	6.3%
	Not crossed	34	327			(16.9-41.8)	(74.4-82.3)	(0.79-2.13)	(0.77-1.11)	(0.71-2.8)	(-7.1-19.6)
India (2016) ^{Shah}	Crossed	1	8	3.5%	5.0%	7.7%	96.7%	2.37	0.95	2.48	4.4%
	Not crossed	12	238			(13.7-33.3)	(93.7-98.3)	(0.3-17.5)	(0.8-1.1)	(0.3-21.5)	(-10.2-19.1)
India (2016) ^{Rani}	Crossed	0	32	13.1%	3.7%	0.0%	86.4%	NA	1.16	NA	-13.6%
	Not crossed	9	203			(0-29.9)	(81.4-90.2)		(1.1-1.2)		(-18.0-(-9.2))

NA: not applicable; * Stillbirths and unknown outcomes excluded from the denominator as follows: Dujardin 1992: outcome unknown for 33 neonates and 28 stillbirths excluded; WHO 1994: 3 stillbirths; **According to data published in full thesis at: <http://www.keneva.net/fmpos/theses/2007/med/pdf/07M235.pdf> and confirmed by the authors; ****Resuscitation definitions vary between studies and results were not pooled.

VanBogaert: Resuscitation determined by an Apgar score at 1 min of less than 7; Rocha: artificial ventilation, heart massage, drug use, timing not specified