

**Appendix 8 (as supplied by the authors): Adjusted odds ratios, sensitivity, specificity and area under the curve (AUC) measures for adverse neonatal and obstetric outcomes among 328 387 singleton live births to immigrant women according to the method used to classify infants as small for gestational age (SGA) (< 10th percentile) or large for gestational age (LGA) ( $\geq$  90th percentile) on a birth-weight curve for newborns of women from their respective world region of origin versus on a birth-weight curve for newborns of Canadian-born women**

Outcome	Adjusted odds ratio (95% CI)*		Sensitivity, %		Specificity, %		AUC, % (95% CI)			
	For world region-specific curve	For Canadian curve	For world region-specific curve	For Canadian curve	For world region-specific curve	For Canadian curve	For world region-specific curve	For Canadian curve	Adjusted difference (95% CI) in AUC of world region-specific curve minus Canadian curve*	p value
<b>Related to SGA</b>										
Neonatal death < 28 days										
All infants	14.28 (12.02 to 16.98)	9.63 (8.07 to 11.49)	61.6	65.7	89.8	83.6	75.7 (73.7 to 77.7)	74.6 (72.7 to 76.6)	1.0 (0.0 to 1.9)	0.014
Preterm infants born at 23–36 weeks	16.09 (12.50 to 20.73)	12.93 (10.02 to 16.69)	77.7	79.9	82.4	77.7	80.0 (78.9 to 82.2)	78.8 (76.7 to 80.9)	1.3 (0.5 to 2.0)	0.002
Term infants born at 37–41 weeks	4.41 (3.26 to 5.95)	3.40 (2.54 to 4.54)	32.7	40.2	90.3	83.9	61.5 (58.2 to 64.7)	62.1 (58.7 to 65.5)	-0.6 (-2.5 to 1.2)	0.50
Newborn hospital length of stay $\geq$ 7 days	3.88 (3.72, 4.06)	2.82 (2.71 to 2.94)	29.8	36.0	90.4	84.2	60.1 (59.6 to 60.5)	60.1 (59.7 to 60.6)	-0.0 (-0.3 to 0.3)	0.84
NICU admission	2.30 (2.23, 2.36)	1.72 (1.68 to 1.77)	19.0	25.4	91.2	84.8	55.0 (54.8 to 55.2)	55.1 (54.9 to 55.4)	-0.1 (-0.3 to 0.0)	0.033
Mechanical ventilation	3.53 (3.34, 3.72)	2.46 (2.33 to 2.59)	28.1	32.3	90.1	83.9	59.1 (58.6 to 59.6)	58.1 (57.6 to 58.6)	1.0 (0.8 to 1.3)	< 0.001
Intrauterine hypoxia or birth asphyxia	1.62 (1.43, 1.84)	1.37 (1.22 to 1.53)	16.9	22.8	89.8	83.5	53.3 (52.5 to 54.2)	53.1 (52.2 to 54.1)	0.3 (-0.3 to 0.8)	0.43

*continued*

# Appendix 8 (continued)

Outcome	Adjusted odds ratio (95% CI)*		Sensitivity (%)		Specificity (%)		AUC (% , 95% CI)			
	For World region specific curve	For Canadian-born curve	For World region specific curve	For Canadian-born curve	For World region specific curve	For Canadian-born curve	For World region specific curve	For Canadian-born curve	Adjusted difference (95% CI) in AUC of World region specific curve minus Canadian-born curve*	P-value
<b>Related to LGA</b>										
<b>Neonatal</b>										
Neonatal death < 28 days**	0.88 (0.60 to 1.30)	0.66 (0.47 to 0.92)	6.5	4.7	90.3	94.6	51.6 (50.6 to 52.7)	50.4 (49.5 to 51.2)	1.3 (0.7 to 1.8)	< 0.001
Newborn hospital length of stay ≥ 7 days	1.13 (1.04 to 1.22)	0.84 (0.78 to 0.90)	8.2	5.8	90.2	94.6	50.8 (50.5 to 51.1)	50.2 (50.0 to 50.4)	0.6 (0.1 to 1.1)	0.014
NICU admission	1.77 (1.70 to 1.84)	1.42 (1.38 to 1.47)	12.3	7.9	90.7	95.0	51.5 (51.3 to 51.7)	51.4 (51.3 to 51.6)	0.1 (-0.1 to 0.2)	0.21
Mechanical ventilation	1.41 (1.29 to 1.54)	1.18 (1.09 to 1.27)	10.9	7.3	90.3	94.7	50.6 (50.2 to 51.0)	51.0 (50.7 to 51.3)	-0.4 (-0.6 to -0.2)	0.001
Birth trauma	2.53 (2.29 to 2.79)	2.10 (1.94 to 2.29)	17.0	11.2	90.4	94.7	53.7 (53.1 to 54.3)	52.9 (52.5 to 53.4)	0.8 (0.4 to 1.1)	< 0.001
<b>Obstetric</b>										
Third- or fourth-degree perineal laceration	1.88 (1.74 to 2.03)	1.79 (1.68 to 1.89)	13.7	7.5	90.4	94.7	52.1 (51.7 to 52.4)	51.1 (50.8 to 51.4)	1.0 (0.7 to 1.2)	< 0.001
Obstructed labour due to shoulder dystocia	7.24 (6.81 to 7.69)	6.77 (6.40 to 7.15)	41.0	28.4	90.8	95.0	65.9 (65.3 to 66.6)	61.7 (61.1 to 62.3)	4.2 (3.8 to 4.6)	< 0.001
Postpartum hemorrhage	1.80 (1.68 to 1.94)	1.70 (1.61 to 1.81)	14.9	8.9	90.4	94.7	52.6 (52.3 to 53.0)	51.8 (51.5 to 52.1)	0.8 (0.6 to 1.1)	< 0.001

Note: CI = confidence interval, NICU = neonatal intensive care unit.

\*Adjusted for maternal age, parity and year of delivery, maternal education, marital status, refugee status, knowledge of Canadian languages, duration of residence in Canada, World region of origin and neighborhood income quintiles.

\*\*Neonatal deaths were not separated for preterm and term infants due very low event rates and counts fewer than five.