

**Supplemental File C – Unadjusted and adjusted odds ratios for factors associated with death in hospital**

**Table A. Multivariable logistic regression (unadjusted and adjusted) examining factors associated with death in hospital among children (29 days – 19 years) (n=5250)**

<b>Characteristic</b>	<b>Unadjusted Odds Ratio (95% CI)</b>	<b>Adjusted Odds Ratio (95%CI)</b>
<b>Age</b>		
15 - 19 years	1.0	1.0
10 - 14 years	0.97 (0.77 - 1.16)	0.95 (0.77 - 1.17)
5 - 9 years	0.63 (0.52 - 0.78)	0.66 (0.54 - 0.82)
1 - 4 years	0.99 (0.82 - 1.20)	0.88 (0.72 - 1.07)
29 - 364 days	2.44 (2.02 - 2.94)	1.73 (1.40 - 2.15)
<b>Sex</b>		
Male	1.0	1.0
Female	1.09 (0.96 - 1.24)	1.06 (0.93 - 1.21)
<b>Cause of Death</b>		
Oncology	*	1.0
Congenital	*	1.74 (1.43 - 2.11)
Neurology	*	1.07 (0.90 - 1.28)
Metabolic	*	1.12 (0.86 - 1.46)
Circulatory	*	2.73 (1.96 - 3.79)
Perinatal	*	2.78 (1.84 - 4.21)
Respiratory	*	3.37 (2.15 - 5.31)
Haematology	*	2.52 (1.49 - 4.26)
Gastrointestinal	*	5.36 (2.54 - 11.30)
Genitourinary	*	3.44 (1.43 - 8.26)
Other	*	3.34 (1.15 - 9.68)
<b>Region of Residence</b>		
Ontario	*	1.0
Quebec	*	1.38 (1.14 - 1.67)
Alberta	*	1.03 (0.83 - 1.27)
Prairies	*	1.27 (0.98 - 1.63)
British Columbia	*	0.43 (0.34 - 0.53)
Atlantic	*	1.02 (0.76 - 1.37)
North	*	0.49 (0.23 - 1.05)
<b>Income Quintile</b>		
5 (highest)	*	1.0
4	*	1.08 (0.88 - 1.33)
3	*	1.07(0.87 - 1.32)
2	*	1.23 (0.99 - 1.52)
1 (lowest)	*	1.59 (1.28 - 1.97)
<b>Rurality</b>		
Urban	1.0	1.0

Rural	1.01 (0.87 - 1.18)	0.98 (0.81 - 1.18)
<b>Distance from Pediatric Hospital</b>		
< 50 km	1.0	1.0
50 - 199 km	0.72 (0.63 - 0.83)	0.73 (0.62 - 0.86)
200 - 399 km	0.86 (0.70 - 1.06)	0.87 (0.68 - 1.11)
> 400 km	0.85 (0.65 - 1.11)	0.73 (0.65 - 0.86)

\*Values suppressed due to small cell sizes and small residual differences from previous analyses

**Table B. Multivariable logistic regression (unadjusted and adjusted) examining factors associated with death in hospital among neonates (<29days) (n=7865)**

<b>Characteristic</b>	<b>Unadjusted Odds Ratio (95% CI)</b>	<b>Adjusted Odds Ratio (95%CI)</b>
<b>Age</b>		
<24 hours	14.03 (8.64 - 22.79)	13.01 (7.94 - 21.32)
24 hours - 28 days	1.0	1.0
<b>Sex</b>		
Male	1.0	1.0
Female	0.75 (0.54 - 1.04)	0.75 (0.53 - 1.05)
<b>Cause of Death</b>		
Perinatal	1.0	1.0
Congenital	0.21 (0.11 - 0.40)	0.25 (0.17 - 0.36)
All other causes	0.24 (0.17 - 0.35)	0.47 (0.24 - 0.92)
<b>Region of Residence</b>		
Ontario	*	1.0
Quebec	*	1.36 (0.79 - 2.34)
Alberta	*	0.53 (0.31 - 0.88)
Prairies	*	0.97 (0.49 - 1.92)
British Columbia	*	0.30 (0.19 - 0.49)
Atlantic	*	1.54 (0.53 - 4.45)
North	*	0.27 (0.05 - 1.42)
<b>Income Quintile</b>		
5 (highest)	1.0	1.0
4	1.32 (0.77- 2.28)	1.24 (0.70 - 2.18)
3	1.35 (0.78 - 2.34)	1.33 (0.75 -2.35)
2	1.57 (0.89 - 2.77)	1.57 (0.88 - 2.83)
1 (lowest)	1.14 (0.70 - 1.89)	1.16 (0.69 - 1.94)
<b>Rurality</b>		
Urban	1.0	1.0
Rural	0.66 (0.45 - 0.96)	0.73 (0.45 - 1.19)
<b>Distance from Pediatric Hospital</b>		
< 50 km	1.0	1.0
50 - 199 km	0.56 (0.39 - 0.81)	0.66 (0.43 - 1.01)
200 - 399 km	0.73 (0.40 - 1.33)	1.08 (0.56 - 2.12)
> 400 km	0.64 (0.33 - 1.21)	0.89 (0.41 - 1.94)

\*Values suppressed due to small cell sizes and small residual differences from previous analyses