

## **Supplement 1: Comparison of results by Aboriginal identification method**

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### Research Questions (RQ):

- 1) Are the demographic risk factors for poisoning (sex, socioeconomic status and geographic remoteness) similar for both Aboriginal and non-Aboriginal children?
- 2) Which agents most frequently result in poisoning hospitalisation and are they different for Aboriginal and non-Aboriginal children?
- 3) Are the clinical outcomes from hospitalised poisoning similar for Aboriginal and non-Aboriginal children?

**Supplementary Table 1: Number of Aboriginal children, by identification method**

Identification method	Number of Aboriginal children identified	
	Cohort	Poisoned (% total cohort)
Ever identified <sup>a</sup>	28,528	382 (1.34)
Most recent <sup>b</sup>	25,891	319 (1.23)
Birth record <sup>c</sup>	21,576	246 (1.14)

<sup>a</sup> Child identified as Aboriginal in any APDC record between their birth and fifth birthday

<sup>b</sup> Child identified as Aboriginal in the most recent APDC record between their birth and fifth birthday

<sup>c</sup> Child identified as Aboriginal in their APDC birth record

**Supplementary Table 2: Adjusted odds ratio of poisoning admission by demographic characteristics, Aboriginal and non-Aboriginal children, by identification method**

Variables	Non-Aboriginal children (n=738,591)	Aboriginal children		
		Ever-identified <sup>c</sup> (n=28,528)	Most recent <sup>d</sup> (n=25,891)	Birth record <sup>e</sup> (n=21,576)
Logistic regression <sup>a</sup>	aOR <sup>b</sup> (95% CI)	aOR (95% CI)	aOR (95% CI)	aOR (95% CI)
Sex				
Female	1	1	1	1
Male	1.17 (1.09-1.26)	1.27 (1.03-1.56)	1.34 (1.07-1.67)	1.44 (1.12-1.87)
Area-level disadvantage				
1 (Least disadvantaged)	1	1	1	1
2	1.34 (1.21-1.48)	1.84 (1.07-3.15)	1.95 (1.00-3.82)	1.90 (0.89-4.05)
3 (Most disadvantaged)	1.64 (1.48-1.81)	1.57 (0.92-2.69)	1.71 (0.88-3.34)	2.02 (0.96-4.27)
Remoteness				
Major cities	1	1	1	1
Inner regional	1.33 (1.22-1.44)	1.06 (0.82-1.39)	1.32 (0.97-1.79)	1.01 (0.72-1.41)
Outer regional	1.66 (1.47-1.87)	1.39 (1.02-1.88)	1.65 (1.17-2.34)	1.10 (0.75-1.62)
Remote/Very remote	1.97 (1.46-2.66)	1.18 (0.78-1.79)	1.38 (0.87-2.17)	1.10 (0.68-1.77)

<sup>a</sup> Full model included all demographic variables (sex, disadvantage, remoteness)

<sup>b</sup> aOR: adjusted odds ratio

<sup>c</sup> Child identified as Aboriginal in any APDC record between their birth and fifth birthday

<sup>d</sup> Child identified as Aboriginal in the most recent APDC record between their birth and fifth birthday

<sup>e</sup> Child identified as Aboriginal in their APDC birth record

**Supplementary Table 3: Age at admission, Aboriginal children, by identification method**

Age (years)	Total <i>N</i> (column %)	Aboriginal children		
		Ever-identified <sup>a</sup> <i>N</i> (column %)	Most recent <sup>b</sup> <i>N</i> (column %)	Birth record <sup>c</sup> <i>N</i> (column %)
<1	241 (7)	21 (6)	18 (6)	13 (5)
1-2	1048 (31)	96 (25)	80 (25)	62 (25)
2-3	1363 (40)	152 (40)	127 (40)	95 (39)
3-4	519 (15)	73 (19)	59 (19)	46 (19)
4-5	214 (6)	40 (10)	35 (11)	30 (12)
Total number of children poisoned	3385 (100)	382 (100)	319 (100)	246 (100)

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<sup>c</sup>Child identified as Aboriginal in their APDC birth record

**Supplementary Table 4: Poisoning agents, Aboriginal children, by identification method**

ICD-10 Diagnosis Code	Aboriginal children N (%)			
	Total N (%)	Ever-identified <sup>a</sup>	Most recent <sup>b</sup>	Birth record <sup>c</sup>
T36-65: All poisoning admissions	3,436 (100)	391 (11)	327 (10)	251 (7)
T36-50: Pharmaceutical <sup>d</sup>	2,859 (83)	318 (81)	261 (80)	207 (82)
T51-65: Non-pharmaceutical <sup>d</sup>	588 (17)	76 (19)	69 (21)	46 (18)
<i>Pharmaceutical Agents</i>				
T36-37: Antibiotics, anti-infectives, anti-parasitics <sup>e</sup>	47 (1)	7 (2)	4 (1)	6 (2)
T38: Hormones and synthetic substitutes	141 (4)	22 (6)	18 (6)	14 (7)
<b>T38.3: Insulin and oral hypoglycemic drugs</b>	<b>96 (3)</b>	<b>17 (4)</b>	<b>15 (5)</b>	<b>11 (4)</b>
T39: Nonopioid analgesics, antipyretics and antirheumatics	493 (14)	31 (8)	23 (7)	18 (7)
<b>T39.1: 4-aminophenol derivatives</b>	<b>374 (11)</b>	<b>24 (6)</b>	<b>19 (6)</b>	<b>16 (6)</b>
T40 Narcotics and hallucinogens	178 (5)	25 (6)	20 (6)	19 (8)
T41: Poisoning by anaesthetics and therapeutic gases	14 (0)	0 (0)	0 (0)	0 (0)
T42: Antiepileptic, sedative-hypnotic and antiparkinsonism	492 (14)	66 (17)	57 (17)	46 (18)
<b>T42.4: Benzodiazepines</b>	<b>370 (11)</b>	<b>55 (14)</b>	<b>48 (15)</b>	<b>38 (15)</b>
T43: Psychotropic drugs, not elsewhere classified	394 (11)	55 (14)	47 (14)	36 (14)
<b>T43.2: Other and unspecified antidepressants</b>	<b>149 (4)</b>	<b>15 (4)</b>	<b>11 (3)</b>	<b>9 (4)</b>
T44: Autonomic nervous system drugs	251 (7)	19 (5)	12 (4)	12 (5)
<b>T44.3: Other parasympatholytics and spasmolytics, not elsewhere classified</b>	<b>93 (3)</b>	<b>7 (2)</b>	<b>5 (2)</b>	<b>5 (2)</b>
<b>T44.7: Beta adrenoreceptor antagonists, not elsewhere classified</b>	<b>105 (3)</b>	<b>7 (2)</b>	<b>3 (1)</b>	<b>4 (2)</b>
T45: Systemic and haematological agents	286 (8)	23 (6)	14 (4)	12 (5)
<b>T45.0: Antiallergic and antiemetic drugs</b>	<b>150 (4)</b>	<b>14 (4)</b>	<b>10 (3)</b>	<b>8 (3)</b>
<b>T45.4: Iron and its compounds</b>	<b>83 (2)</b>	<b>r</b>	<b>r</b>	<b>r</b>
T46: Cardiovascular system drugs	382 (11)	56 (14)	52 (16)	34 (14)
<b>T46.5: Other antihypertensives, not elsewhere classified</b>	<b>211 (6)</b>	<b>38 (10)</b>	<b>35 (11)</b>	<b>21 (8)</b>
T47: Gastrointestinal system drugs	80 (2)	8 (2)	6 (2)	6 (2)
T48: Smooth and skeletal muscle and respiratory system agents	98 (3)	6 (2)	4 (1)	5 (2)
T49: Topical agents and ophthalmological, otorhinolaryngological and dental drugs	143 (4)	12 (3)	9 (3)	8 (3)
T50: Diuretics and other and unspecified drugs, medicaments and biological substances	207 (6)	22 (6)	17 (5)	15 (6)
<b>T50.9: Other and unspecified drugs, medicaments and biologicals</b>	<b>94 (3)</b>	<b>10 (3)</b>	<b>10 (3)</b>	<b>5 (2)</b>

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<i>Non-pharmaceutical agents</i>				
T51: Toxic effect of alcohol	35 (1)	5 (1)	4 (1)	2 (1)
T52: Toxic effect of organic solvents	185 (5)	22 (6)	19 (6)	14 (6)
T53: Toxic effect of halogen derivatives of aliphatic and aromatic hydrocarbons	10 (0)	0 (0)	0 (0)	0 (0)
T54-55: Toxic effect of corrosive substances, soaps and detergents <sup>e</sup>	132 (4)	17 (4)	15 (5)	9 (4)
T57: Toxic effect of other inorganic substances	0 (0)	0 (0)	0 (0)	0 (0)
T60: Toxic effect of pesticides	106 (3)	12 (3)	12 (4)	5 (2)
T65: Toxic effect of other and unspecified substances	124 (4)	21 (5)	20 (6)	16 (6)

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<sup>b</sup> Child identified as Aboriginal in the most recent APDC record between their birth and fifth birthday

<sup>c</sup> Child identified as Aboriginal in their APDC birth record

<sup>d</sup> May exceed total number of poisoning admissions due to multiple agents per admission

<sup>e</sup> Categories combined due to small cell numbers

<sup>f</sup> Suppressed due to small cell numbers

**Supplementary Table 5: Clinical outcomes, Aboriginal children, by identification method**

Clinical outcomes	Total N (%)	Aboriginal children N (%)		
		Ever-identified <sup>a</sup>	Most recent <sup>b</sup>	Birth record <sup>c</sup>
Total number of poisoning admissions	3,436 (100)	391 (100)	327 (100)	251 (100)
Repeat admissions	51 (1)	9 (2)	8 (2)	5 (2)
Length of stay (days)				
<1	1,210 (35)	125 (32)	102 (31)	75 (30)
1	1,932 (56)	225 (58)	193 (59)	150 (60)
2	183 (5)	25 (6)	19 (6)	17 (7)
3+	111 (3)	16 (4)	13 (4)	9 (4)
Total number of procedures	374 (11)	39 (10)	33 (10)	26 (10)
Allied health interventions	260 (8)	27 (7)	24 (7)	20 (8)
Airway and ventilation	37 (1)	5 (1)	3 (1)	3 (1)
Other (including diagnostics and pharmacotherapy) <sup>d</sup>	77 (2)	7 (2)	6 (2)	3 (1)

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<sup>b</sup> Child identified as Aboriginal in the most recent APDC record between their birth and fifth birthday

<sup>c</sup> Child identified as Aboriginal in their APDC birth record

<sup>d</sup> Combined due to small cell numbers