

# Exploring burn injuries that occur during school holidays in Australian and New Zealand school-aged children



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## PROJECT BACKGROUND

At the 2019 Annual Scientific Meeting for the Australian & New Zealand Burn Association (ANZBA) in Hobart, Tran & Bertinetti gave a presentation that focused on the on “Burnanza” burn injuries that occurred in school holidays<sup>1</sup>. Their study was designed to test the anecdotal evidence that paediatric burns, specifically in school-aged children, were more common during school holiday periods compared to during the school term. The study involved approximately 3,000 paediatric admissions who were referred to The Children’s Hospital at Westmead (CHW), Sydney between 2005 and 2019. The key findings of this presentation were:

- i. The CHW received a greater number of referrals during school holiday periods compared to the school term;
- ii. There were differences in the injury event between burns occurring in the school holidays and the school term (i.e., differences in where and how burn injuries were occurring); and
- iii. That burn prevention strategies should target school holiday periods.

While the Tran & Bertinetti study is interesting and a good first step in raising awareness of the issue, there is great potential to expand upon this initial work and spread the message to the general public of Australia and New Zealand. Interrogating the data from the bi-national burn database, the Burn Registry of Australia & New Zealand (BRANZ), can provide a broader perspective on this matter.

## AIMS

The aims of this report were to:

- i. Utilise data from the BRANZ to review the frequency of burn injuries in school-aged children between January 2010 and December 2018.
- ii. Provide the Australian and New Zealand Burns Association (ANZBA) Prevention Committee with up to date information on the number of burns in school-aged children that occur during school holidays.
- iii. Examine how often gold standard first aid is applied to school-aged children with burns during school holiday periods.

## METHODS

### Identification of cases

Patients were eligible for inclusion in this study if they were registered by the BRANZ with a date of injury between January 1 2010 and December 31 2018 and were between the ages of four and 18 years old. The BRANZ inclusion and exclusion criteria are listed in Appendix A. Patients with an unknown date of injury were excluded from analysis. Patients whose residential postcode was overseas or unknown were excluded from analysis, as were patients with no fixed abode. Patients of indeterminate or unknown gender were also excluded from analysis.

### Data management and analysis

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<sup>1</sup> Tran S & Bertinetti M. School holiday “Burnanza”. Poster presented at the 43<sup>rd</sup> Annual Scientific Meeting of the Australian and New Zealand Burns Association, Hobart, Tasmania. October 2019. Accessible via [http://www.anzbaasm.com/wp-content/uploads/2019/10/Sonia-Tran-ANZBA2019\\_Trان\\_Sonia.pdf](http://www.anzbaasm.com/wp-content/uploads/2019/10/Sonia-Tran-ANZBA2019_Trان_Sonia.pdf)

Demographic, injury event, first aid, surgical intervention, and in-hospital outcome data were extracted from the BRANZ for eligible patients. Patients' residential postcodes were used to identify if the date of their burn injury fell during a relevant school holiday period at the state level (Appendix B).

The number of burn injuries per week for the period of January 1 2010 and December 31 2018 were calculated using hospital admissions data stratified by state and the relevant school holiday periods. Summary statistics were used to describe the patient population and outcomes; frequencies and percentages for categorical variables, mean and standard deviation (SD) for normally distributed continuous variables, and median and interquartile range (IQR) for continuous variables not following a normal distribution. Values less than five were suppressed. Chi-square tests, Mann-Whitney *U* tests, and Kruskal Wallis tests were used to compare groups, as appropriate. These tests were used to compare the profile of patients across the following groups:

- i. Patients with a date of injury during a school holiday period between July 2009 and June 2019 (Appendix B); and
- ii. Patients with a date of injury during the school term (i.e., outside of a school holiday period).

In July 2016, the BRANZ updated how the registry collected data on the type and amount of first aid provided to patients. This update simplified the data collection and entry processes, making the gathered data was more consistent, reliable, and applicable in a clinical setting. Therefore, patients were grouped into two phases of first aid data collection for the purposes of this report:

- i. Pre-QI change—patients with a date of admission from July 2009 to June 2016; and
- ii. Post-QI change—patients with a date of admission from July 2016 to June 2019.

First aid data is now collected through two questions that reflect the current (ANZBA) best practice guidelines<sup>2</sup>:

- i. Was any first aid applied to the burn wound?; and
- ii. If yes, was the first aid 20 minutes of cool running water within three hours of injury?

Using these two questions, the level of first aid applied to the post-QI change patients were compared across the following three groups:

- i. No first aid—no first aid was applied to the patient;
- ii. Non-gold standard first aid—patient received some, but ultimately inadequate, first aid; and
- iii. Gold standard first aid—patient was treated with 20 minutes of cool running water within three hours of injury.

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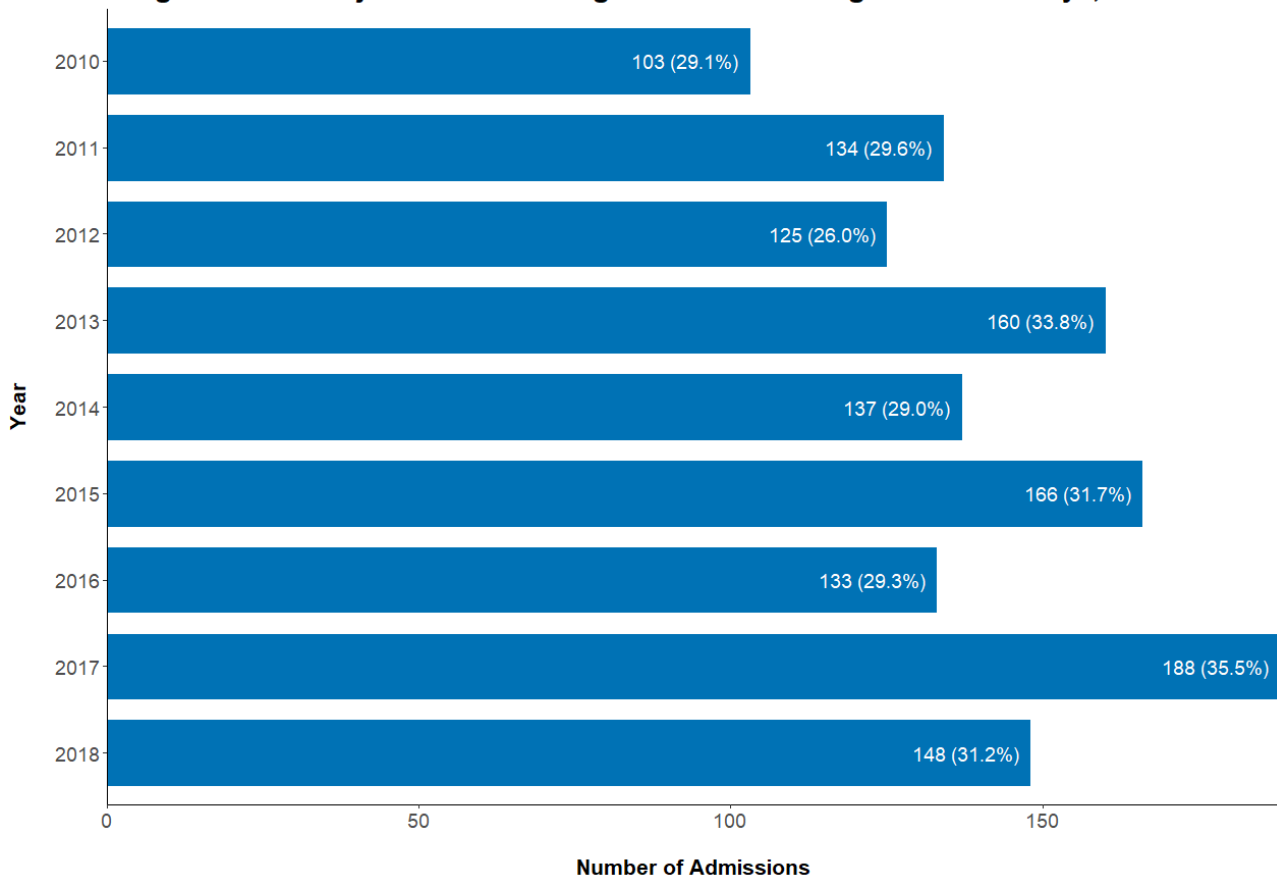
<sup>2</sup> Cuttle L & Kimble RM. First aid treatment of burn injuries. *Wound Practice and Research*. 2010; 18:4-13

## RESULTS

### Overview of all burns in school-aged children

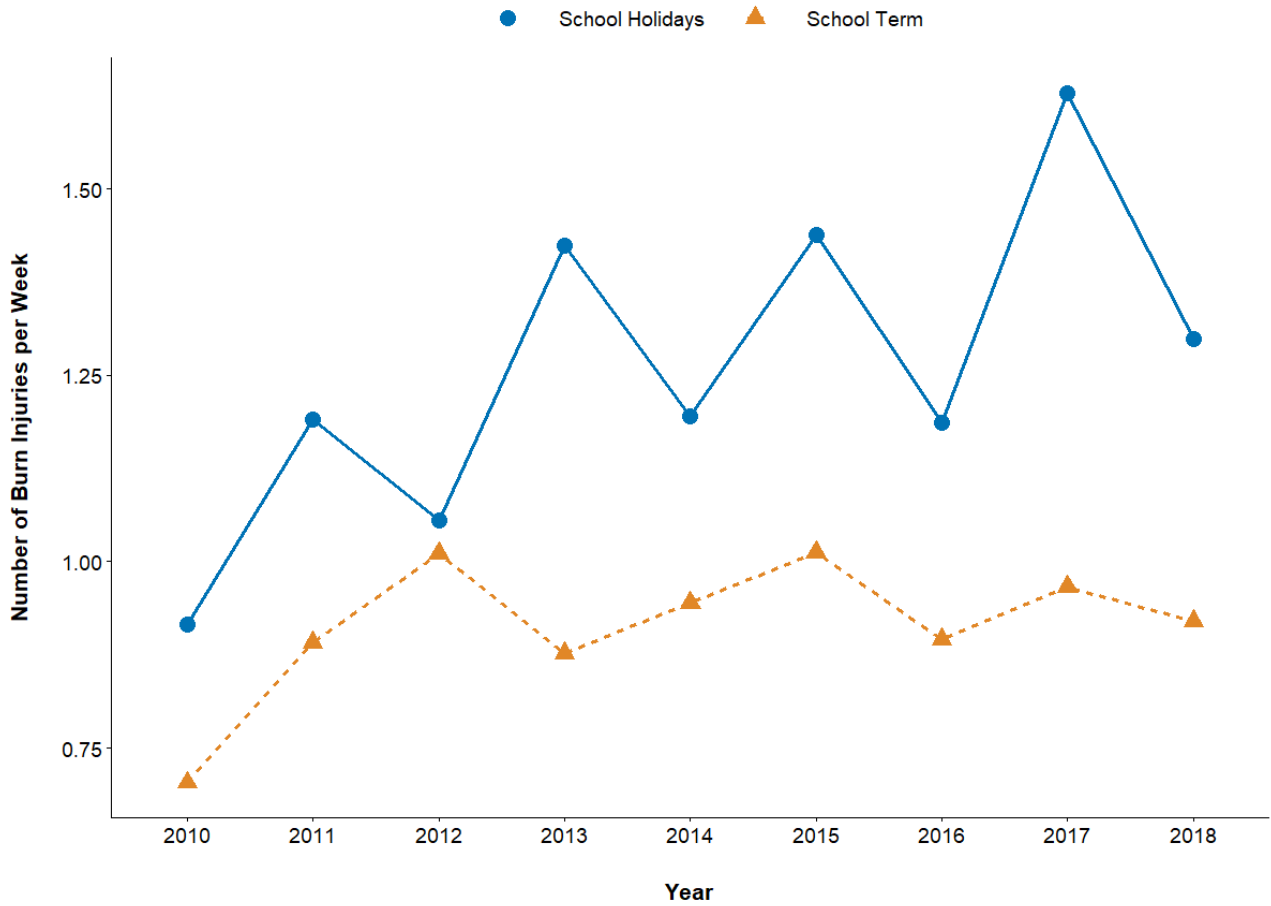
There were 25,871 patients recorded by the BRANZ who were injured between January 1 2010 and December 31 2018; 5,056 (19.5%) were between the ages of 0 and 3 years (i.e., younger than school age), 4,215 (16.3%) of were between the ages of 4 and 18 years old (i.e., school aged), and 16,600 (64.2%) were over the age of 18. Within the cohort of school-aged children, 1,294 patients (30.7%) were injured during school holidays and 2,921 (69.3%) were injured outside of school holiday periods. The proportion of burn injuries in school-aged children occurring in school holiday periods increased from 29.1% in 2010 to 31.2% in 2018 (Figure 1).

**Figure 1: Burn Injuries in School-aged Children During School Holidays, 2010 - 2018**



The number of burn injuries per week during school holidays (1.26) was greater than the number of burn injuries per week during the school term (0.91; Figure 2).

**Figure 2: Number of Burn Injuries per Week, 2010 - 2018**



A greater proportion of patients injured during school holidays were younger (Table 1).

**Table 1: Demographic characteristics by injury period**

<b>Population Descriptor</b>	<b>School Holidays (n = 1,294)</b>	<b>School Term (n = 2,921)</b>	<b>p-value</b>
Gender			0.31
Male	852 (65.8%)	1,875 (64.2%)	
Female	442 (34.2%)	1,046 (35.8%)	
Age, median (IQR) years	10.5 (6.0, 15.0)	11.0 (7.0, 16.0)	0.001
Age Group			0.010
4-6 years	341 (26.4%)	664 (22.7%)	
7-10 years	306 (23.6%)	655 (22.4%)	
11-15 years	364 (28.1%)	849 (29.1%)	
16-18 years	283 (21.9%)	753 (25.8%)	

Data presented as frequency (percentage) unless otherwise specified.

IQR = interquartile range.

A greater proportion of patients injured during school holidays sustained contact burns, had injuries that were obtained through unintentional circumstances, and were injured at places for recreation while playing or engaging in sports and leisure activities (Table 2).

**Table 2: Injury event and injury characteristics by injury period**

<b>Population Descriptor</b>	<b>School Holidays (n = 1,294)</b>	<b>School Term (n = 2,921)</b>	<b>p-value</b>
Cause of Injury <sup>a</sup>			<0.001
Flame	374 (28.9%)	915 (31.4%)	
Scald	387 (30.0%)	999 (34.3%)	
Contact	341 (26.4%)	570 (19.6%)	
Friction	132 (10.2%)	251 (8.6%)	
Other cause	58 (4.5%)	177 (6.1%)	
%TBSA, median (IQR) <sup>b</sup>	2.5 (1.0, 5.5)	3.0 (1.0, 6.0)	0.26
%TBSA Group <sup>b</sup>			0.097
0-4.9%	864 (69.6%)	1,873 (66.8%)	
5-9.9%	218 (17.6%)	556 (19.8%)	
10-19.9%	111 (8.9%)	232 (8.3%)	
20+%	49 (3.9%)	144 (5.1%)	
Intent of Injury <sup>c</sup>			<0.001
Unintentional	1246 (96.8%)	2,724 (93.9%)	
Other intent	41 (3.2%)	178 (6.1%)	
Place of Injury <sup>d</sup>			<0.001
Home	646 (57.8%)	1,740 (66.4%)	
Place for recreation	203 (18.2%)	251 (9.6%)	
Other residence	121 (10.8%)	233 (8.9%)	
Farm	49 (4.4%)	99 (3.8%)	
Other place	98 (8.8%)	296 (11.3%)	
Activity when Injury Occurred <sup>e</sup>			<0.001
Playing	308 (24.8%)	605 (21.5%)	
Sports and leisure activity	328 (26.5%)	608 (21.6%)	
Food-related activity	302 (24.4%)	718 (25.5%)	
Vehicle-related activity	116 (9.4%)	191 (6.8%)	
Household duties	25 (2.0%)	85 (3.0%)	
Other activity	161 (13.0%)	606 (21.5%)	

Data presented as frequency (percentage) unless otherwise specified.

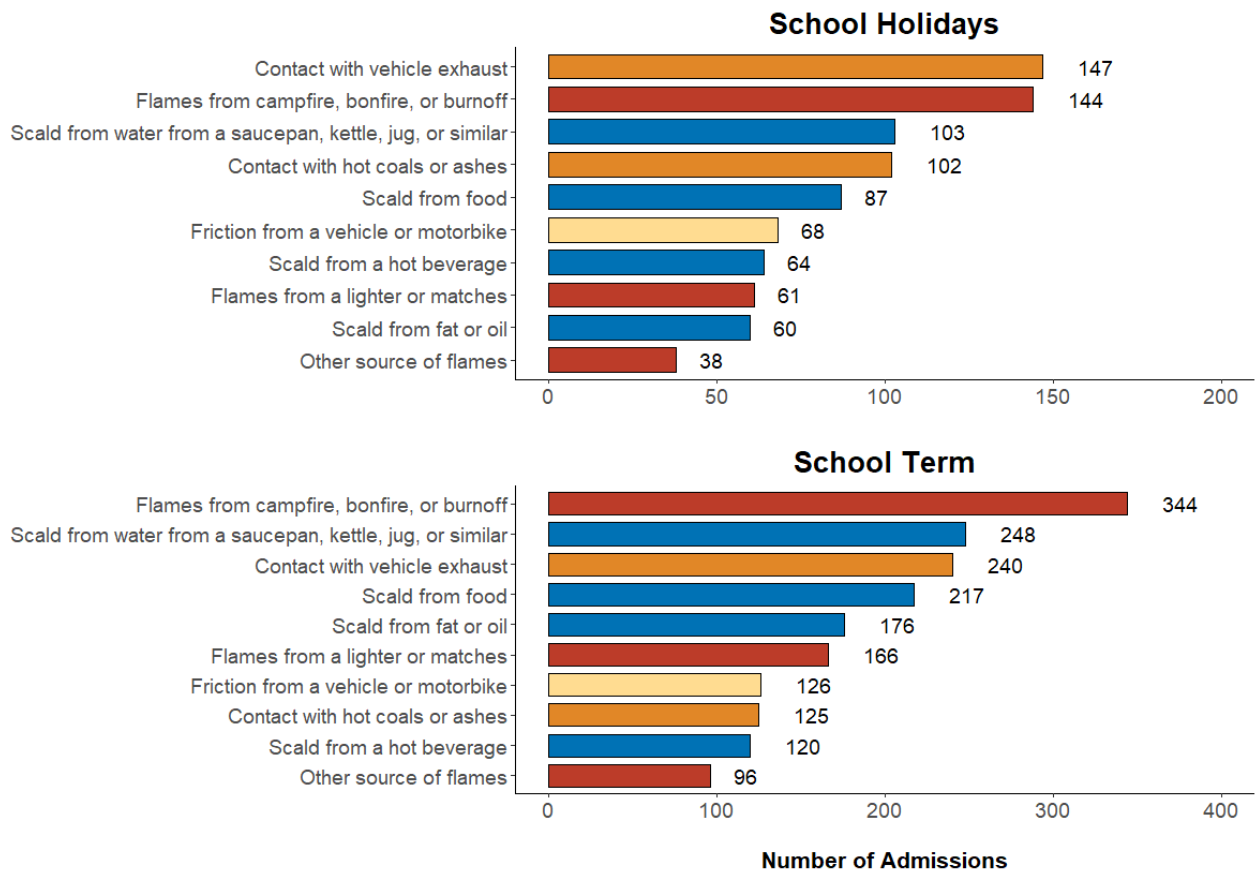
Data missing for <sup>a</sup>11 cases, <sup>b</sup>168 cases, <sup>c</sup>26 cases, <sup>d</sup>479 cases, and <sup>e</sup>162 cases.

IQR = interquartile range, TBSA = total body surface area.



Further investigation into the specific cause of the burn injury revealed that the increased proportion of contact burns during school holiday periods were due to school-aged children coming into physical contact with vehicle exhausts, coals, and ashes (Figure 3). Typical examples of these injuries would be children falling off a motorcycle and having their leg caught under the hot exhaust pipe, or children walking over the remains of a campfire that had not been properly extinguished and marked.

**Figure 3: Top Ten Causes of Burn Injury in School-Aged Children**



## First aid data

Across all school-aged children, 65.5% of patients received twenty minutes of cool running water within three hours of injury as their first aid. However, 16.5% of patients did not receive any first aid following burn injury. There were no differences in the standard of first aid applied to burn injured patients over the two periods (Table 3).

**Table 3: First aid data by injury period, July 2016 – February 2019**

<b>Population Descriptor</b>	<b>School Holidays (n = 373)</b>	<b>School Term (n = 784)</b>	<b>p-value</b>
<b>First Aid Standard</b>			0.11
Gold standard first aid	231 (63.6%)	505 (66.4%)	
Non-gold standard first aid	63 (17.3%)	140 (18.4%)	
No first aid	69 (19.1%)	116 (15.2%)	

Data presented as frequency (percentage) unless otherwise specified.

Data missing for 107 cases.

## Surgical intervention and in-hospital outcome data

Approximately three quarters of school-aged patients were taken to theatre for a surgical procedure, and of these, 61% of patients required a skin graft (Table 4). The rate of in-hospital mortality was low with less than one percent of cases dying, and more than 90% of admissions were discharged to their home or usual place of residence (Table 4). There were no differences between school-aged children burned during school holidays or the school term with respect to the surgical intervention and in-hospital outcome data.

**Table 4: Surgical intervention and in-hospital outcome data by time period**

<b>Population Descriptor</b>	<b>School Holidays (n = 1,294)</b>	<b>School Term (n = 2,921)</b>	<b>p-value</b>
<b>Theatre Admission<sup>a</sup></b>			0.56
Yes	949 (74.0%)	2,172 (74.9%)	
No	333 (26.0%)	729 (25.1%)	
<b>Skin Grafting<sup>b*</sup></b>			0.14
Yes	571 (60.7%)	1,369 (63.5%)	
No	369 (39.3%)	786 (36.5%)	
<b>ICU Admission<sup>c</sup></b>			0.34
No	1,211 (94.1%)	2,723 (93.3%)	
Yes	76 (5.9%)	195 (6.7%)	
<b>Mechanical Ventilation<sup>d**</sup></b>			0.60
Yes	58 (76.3%)	153 (79.3%)	
No	18 (23.7%)	40 (20.7%)	
<b>ICU LOS, median (IQR) days<sup>**</sup></b>	3.0 (1.2-8.2)	2.8 (1.2-10.8)	0.86
<b>Hospital LOS, median (IQR) days<sup>e</sup></b>	2.6 (1.0-6.9)	2.8 (1.0-7.5)	0.22
<b>In-hospital Mortality</b>			0.96
No	1,291 (99.8%)	2,914 (99.8%)	
Yes	< 5 (< 1%)	7 (0.2%)	
<b>Discharge Location<sup>f***</sup></b>			0.79
Home or usual residence	1,211 (94.0%)	2,728 (93.9%)	
Other hospital	57 (4.4%)	121 (4.2%)	
Other location	21 (1.6%)	55 (1.9%)	

Data presented as frequency (percentage) unless otherwise specified.

\* For patients taken to theatre for a surgical procedure.

\*\* For patients admitted to the ICU.

\*\*\* For patients surviving to discharge.

ICU = intensive care unit, IQR = interquartile range, LOS = length of stay.

Data missing for <sup>a</sup>32 cases, <sup>b</sup>26 cases, <sup>c</sup>10 cases, <sup>d</sup>two cases, <sup>e</sup>six cases, and <sup>f</sup>12 cases.

## DISCUSSION

### Key findings

- Approximately one third of burn injuries in patients between the ages of four and 18 years occurred during school holiday periods. A greater number of burn injuries occurred during the school holidays than the school term (as measured by the number of burns per week). These numbers have increased since the establishment of the registry in 2009. A larger number of hospitals contributing data to the registry over the study period may explain these increases.
- The profile of school-aged children admitted to a specialist burn unit during the school holidays differed slightly compared to the school-aged children admitted during the school term. Patients admitted during the school holidays were younger, had a higher prevalence of contact burns, had a higher prevalence of unintentional injuries, and included a higher proportion of people who were burned in places for recreation while playing or engaging in sports and leisure activities.
- Just under two thirds of patients received twenty minutes of cool running water within three hours of injury as first aid for their burn injury; the current gold standard first aid practice for burns. However, one in six school-aged children did not receive any first aid following their injury. There was no difference in the standard of first aid applied to school-aged children between those injured during school holidays and the school term.
- Patients admitted during the school term did not differ with respect to surgical management or in-hospital outcomes compared to patients admitted during the school holidays.
- Like other developed countries, in-hospital mortality following burn injury in school-aged children was low. Encouragingly, more than 90% of patients were discharged to their home or usual place of residence.

### Study limitations

The strengths of this evaluation were the relatively large number of records over a 10-year period, and the collection of data across 17 specialist burn units from two countries. Nevertheless, there were limitations. Despite the relatively large number of cases collected, the registry only collects data on patients who present to one of the 17 specialist burn units across Australia and New Zealand. Patients with burn injuries who do not present to hospital, or who are managed locally by their general practitioner or hospital are not captured. This is an important limitation, as the registry does not therefore cover the entire population of burn injuries across these countries. This means that the true number of school holiday burns may be greater than the findings of this report. Furthermore, the registry does not record whether or not paediatric patients are currently attending school. Patient age has been used as a proxy measure. Finally, the school holiday dates utilised for this report were based on those for government (i.e., public) schools. Non-government and private schools may differ slightly with respect to their school holiday periods. The results of this report need to be considered in light of these limitations.

## CONCLUSION

The findings of this report suggest that school-aged children who sustain burn injuries during school holiday periods are younger, have a greater proportion of burns from vehicle exhausts, hot coals, and ashes, have a greater proportion of injuries from recreational or leisure activities, and have similar in-hospital outcomes when compared to children who sustain injuries during the school term. There was no difference between the two

cohorts with respect to gender distribution, the application of gold standard first aid, or the required surgical interventions.

## APPENDIX A – BRANZ INCLUSION AND EXCLUSION CRITERIA

All first admissions to Australian and New Zealand burns units where a burn injury is the principal reason for admission are included in the BRANZ. Only first admissions within 28 days of the burn injury occurring are included, with the exception of transfers from another hospital – all transfers are included regardless of the time elapsed since injury. The patient may be admitted under the burns unit, or admitted under another unit and is consulted on by the burns unit.

There are additional conditions associated with inclusion in the BRANZ:

- Admission exceeds 24 hours in length; or
- Admission does not exceed 24 hours in length but the patient has a burn management procedure in theatre; or
- Admission does not exceed 24 hours in length but the patient dies.

All readmissions to the burn unit within 28 days from the date of discharge of the first admission are recorded by the BRANZ.

Medical causes of skin loss such as Steven Johnson Syndrome and toxic epidermal necrolysis syndrome (TENS) are excluded from the BRANZ.

## APPENDIX B – AUSTRALIAN AND NEW ZEALAND SCHOOL HOLIDAY DATES, 2009 – 2019

	Term 1	Term 2	Term 3	Term 4
<b>Australian Capital Territory</b>	13 April 2019 – 28 April 2019	6 July 2019 – 21 July 2019	28 September 2019 – 13 October 2019	20 December 2019 – 2 February 2020
	14 April 2018 – 29 April 2018	7 July 2018 – 22 July 2018	29 September 2018 – 14 October 2018	22 December 2018 – 3 February 2019
	8 April 2017 – 25 April 2017	1 July 2017 – 16 July 2017	23 September 2017 – 8 October 2017	16 December 2017 – 4 February 2018
	9 April 2016 – 25 April 2016	2 July 2016 – 17 July 2016	24 September 2016 – 9 October 2016	17 December 2016 – 29 January 2017
	11 April 2015 – 26 April 2015	4 July 2015 – 19 July 2015	26 September 2015 – 11 October 2015	19 December 2015 – 1 February 2016
	12 April 2014 – 27 April 2014	5 July 2014 – 20 July 2014	27 September 2014 – 12 October 2014	18 December 2014 – 29 January 2015
	13 April 2013 – 28 April 2013	6 July 2013 – 21 July 2013	28 September 2013 – 13 October 2013	21 December 2013 – 30 January 2014
	14 April 2012 – 29 April 2012	7 July 2012 – 22 July 2012	29 September 2012 – 14 October 2012	22 December 2012 – 31 January 2013
	19 April 2011 – 1 May 2011	9 July 2011 – 24 July 2011	1 October 2011 – 16 October 2011	22 December 2011 – 2 February 2012
8 April 2010 – 26 April 2010	3 July 2010 – 18 July 2010	25 September 2010 – 10 October 2010	18 December 2010 – 3 February 2011	
8 April 2009 – 27 April 2009	2 July 2009 – 19 July 2009	29 September 2009 – 11 October 2009	19 December 2009 – 27 January 2010	
<b>New South Wales</b>	13 April 2019 – 28 April 2019	6 July 2019 – 21 July 2019	28 September 2019 – 13 October 2019	21 December 2019 – 2 February 2020
	14 April 2018 – 30 April 2018	7 July 2018 – 23 July 2018	29 September 2018 – 14 October 2018	20 December 2018 – 29 January 2019
	8 April 2017 – 23 April 2017	1 July 2017 – 16 July 2017	23 September 2017 – 8 October 2017	20 December 2017 – 29 January 2018
	9 April 2016 – 25 April 2016	2 July 2016 – 17 July 2016	24 September 2016 – 9 October 2016	21 December 2016 – 26 January 2017
	3 April 2015 – 20 April 2015	27 June 2015 – 12 July 2015	19 September 2015 – 4 October 2015	17 December 2015 – 28 January 2016
	12 April 2014 – 27 April 2014	28 June 2014 – 13 July 2014	20 September 2014 – 5 October 2014	20 December 2014 – 26 January 2015
	13 April 2013 – 28 April 2013	29 June 2013 – 14 July 2013	21 September 2013 – 7 October 2013	21 December 2013 – 27 January 2014
	6 April 2012 – 22 April 2012	29 June 2012 – 15 July 2012	22 September 2012 – 7 October 2012	22 December 2012 – 28 January 2013
	9 April 2011 – 26 April 2011	2 July 2011 – 17 July 2011	24 September 2011 – 9 October 2011	21 December 2011 – 26 January 2012
2 April 2010 – 18 April 2010	3 July 2010 – 18 July 2010	25 September 2010 – 10 October 2010	18 December 2010 – 27 January 2011	
8 April 2009 – 27 April 2009	9 July 2009 – 27 July 2009	3 October 2009 – 18 October 2009	19 December 2009 – 26 January 2010	
<b>South Australia</b>	13 April 2019 – 28 April 2019	6 July 2019 – 21 July 2019	28 September 2019 – 13 October 2019	14 December 2019 – 27 January 2020
	14 April 2018 – 29 April 2018	7 July 2018 – 22 July 2018	29 September 2018 – 14 October 2018	15 December 2018 – 28 January 2019
	14 April 2017 – 30 April 2017	8 July 2017 – 23 July 2017	30 September 2017 – 15 October 2017	16 December 2017 – 28 January 2018
	16 April 2016 – 1 May 2016	9 July 2016 – 24 July 2016	1 October 2016 – 16 October 2016	17 December 2016 – 29 January 2017

	11 April 2015 – 26 April 2015	4 July 2015 – 19 July 2015	26 September 2015 – 11 October 2015	12 December 2015 – 31 January 2016
	12 April 2014 – 27 April 2014	5 July 2014 – 20 July 2014	27 September 2014 – 12 October 2014	13 December 2014 – 26 January 2015
	13 April 2013 – 28 April 2013	6 July 2013 – 21 July 2013	28 September 2013 – 13 October 2013	14 December 2013 – 27 January 2014
	6 April 2012 – 22 April 2012	30 June 2012 – 15 July 2012	22 September 2012 – 7 October 2012	15 December 2012 – 28 January 2013
	16 April 2011 – 1 May 2011	9 July 2011 – 24 July 2011	1 October 2011 – 16 October 2011	17 December 2011 – 29 January 2012
	2 April 2010 – 11 April 2010	26 June 2010 – 11 July 2010	18 September 2010 – 3 October 2010	11 December 2010 – 30 January 2011
	8 April 2009 – 26 April 2009	2 July 2009 – 19 July 2009	26 September 2009 – 11 October 2009	12 December 2009 – 26 January 2010
	6 April 2019 – 22 April 2019	29 June 2019 – 14 July 2019	21 September 2019 – 7 October 2019	14 December 2019 – 23 January 2020
	30 March 2018 – 15 April 2018	30 June 2018 – 15 July 2018	22 September 2018 – 15 July 2018	15 December 2018 – 28 January 2019
	1 April 2017 – 17 April 2017	24 June 2017 – 9 July 2017	16 September 2017 – 2 October 2017	9 December 2017 – 21 January 2018
	25 March 2016 – 10 April 2016	25 June 2016 – 10 July 2016	17 September 2016 – 3 October 2016	10 December 2016 – 22 January 2017
	3 April 2015 – 19 April 2015	27 June 2015 – 12 July 2015	19 September 2015 – 5 October 2015	12 December 2015 – 24 January 2016
<b>Queensland</b>	5 April 2014 – 21 April 2014	28 June 2014 – 13 July 2014	20 September 2014 – 7 October 2014	13 December 2014 – 26 January 2015
	28 March 2013 – 7 April 2013	22 June 2013 – 7 July 2013	21 September 2013 – 6 October 2013	14 December 2013 – 26 January 2014
	31 March 2012 – 9 April 2012	23 June 2012 – 8 July 2012	22 September 2012 – 7 October 2012	15 December 2012 – 28 January 2013
	16 April 2011 – 24 April 2011	25 June 2011 – 10 July 2011	17 September 2011 – 2 October 2011	10 December 2011 – 22 January 2012
	2 April 2010 – 11 April 2010	26 June 2010 – 11 July 2010	18 September 2010 – 3 October 2010	11 December 2010 – 23 January 2011
	2 April 2009 – 19 April 2009	27 June 2009 – 12 July 2009	19 September 2009 – 4 October 2009	12 December 2009 – 26 January 2010
	13 April 2019 – 22 April 2019	29 June 2019 – 22 July 2019	28 September 2019 – 13 October 2019	14 December 2019 – 24 January 2020
	14 April 2018 – 22 April 2018	30 June 2018 – 23 July 2018	29 September 2018 – 14 October 2018	14 December 2018 – 29 January 2019
	8 April 2017 – 17 April 2017	24 June 2017 – 24 July 2017	30 September 2017 – 8 October 2017	15 December 2017 – 28 January 2018
	2 April 2016 – 10 April 2016	25 June 2016 – 25 July 2016	1 October 2016 – 9 October 2016	16 December 2016 – 29 January 2017
	3 April 2015 – 12 April 2015	21 June 2015 – 19 July 2015	27 September 2015 – 4 October 2015	12 December 2015 – 20 January 2016
<b>Northern Territory</b>	5 April 2014 – 13 April 2014	21 June 2014 – 20 July 2014	27 September 2014 – 5 October 2014	12 December 2014 – 23 January 2015
	6 April 2013 – 14 April 2013	22 June 2013 – 21 July 2013	28 September 2013 – 6 October 2013	13 December 2013 – 27 January 2014
	6 April 2012 – 15 April 2012	23 June 2012 – 23 July 2012	29 September 2012 – 7 October 2012	14 December 2012 – 28 January 2013
	2 April 2011 – 10 April 2011	25 June 2011 – 24 July 2011	1 October 2011 – 9 October 2011	17 December 2011 – 30 January 2012
	2 April 2010 – 11 April 2010	19 June 2010 – 19 July 2010	25 September 2010 – 3 October 2010	11 December 2010 – 24 January 2011
	2 April 2009 – 13 April 2009	20 June 2009 – 19 July 2009	26 September 2009 – 4 October 2009	12 December 2009 – 24 January 2010



<b>Western Australia</b>	13 April 2019 – 28 April 2019	6 July 2019 – 21 July 2019	28 September 2019 – 13 October 2019	20 December 2019 - 2 February 2020
	14 April 2018 – 29 April 2018	30 June 2018 – 15 July 2018	22 September 2018 – 7 October 2018	14 December 2018 – 3 February 2019
	8 April 2017 – 23 April 2017	1 July 2017 – 16 July 2017	23 September 2017 – 8 October 2017	15 December 2017 – 30 January 2018
	9 April 2016 – 25 April 2016	2 July 2016 – 17 July 2016	24 September 2016 – 9 October 2016	16 December 2016 – 31 January 2017
	3 April 2015 – 19 April 2015	4 July 2015 – 19 July 2015	26 September 2015 – 11 October 2015	18 December 2015 – 26 January 2016
	12 April 2014 – 27 April 2014	5 July 2014 – 20 July 2014	27 September 2014 – 12 October 2014	18 December 2014 – 2 February 2015
	20 April 2013 – 5 May 2013	6 July 2013 – 21 July 2013	28 September 2013 – 13 October 2013	21 December 2013 – 2 February 2014
	6 April 2012 – 25 April 2012	7 July 2012 – 23 July 2012	22 September 2012 – 7 October 2012	15 December 2012 – 3 February 2013
	22 April 2011 – 8 May 2011	9 July 2011 – 24 July 2011	1 October 2011 – 16 October 2011	16 December 2011 – 31 January 2012
	2 April 2010 – 18 April 2010	3 July 2010 – 18 July 2010	25 September 2010 – 10 October 2010	17 December 2010 – 1 February 2011
2 April 2009 – 19 April 2009	27 June 2009 – 12 July 2009	19 September 2009 – 4 October 2009	19 December 2009 – 31 January 2010	
<b>Victoria</b>	6 April 2019 – 22 April 2019	29 June 2019 – 14 July 2019	21 September 2019 – 7 October 2019	21 December 2019 - 27 January 2020
	30 March 2018 – 15 April 2018	30 June 2018 – 15 July 2018	22 September 2018 – 7 October 2018	22 December 2018 – 28 January 2019
	1 April 2017 – 17 April 2017	1 July 2017 – 16 July 2017	23 September 2017 – 8 October 2017	23 December 2017 – 28 January 2018
	25 March 2016 – 10 April 2016	25 June 2016 – 10 July 2016	17 September 2016 – 2 October 2016	21 December 2016 – 30 January 2017
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	9 April 2011 – 24 April 2011	2 July 2011 – 17 July 2011	24 September 2011 – 9 October 2011	23 December 2011 – 31 January 2012
	27 March 2010 – 11 April 2010	26 June 2010 – 11 July 2010	18 September 2010 – 3 October 2010	18 December 2010 – 31 January 2011
2 April 2009 – 19 April 2009	27 June 2009 – 12 July 2009	19 September 2009 – 4 October 2009	19 December 2009 – 31 January 2010	
<b>Tasmania*</b>	13 April 2019 – 28 April 2019	6 July 2019 – 21 July 2019	28 September 2019 – 13 October 2019	20 December 2019 - 2 February 2020
	14 April 2018 – 29 April 2018	7 July 2018 – 22 July 2018	29 September 2018 – 14 October 2018	21 December 2018 – 3 February 2019
	14 April 2017 – 30 April 2018	8 July 2017 – 23 July 2017	30 September 2017 – 15 October 2017	22 December 2017 – 6 February 2018
	9 April 2016 – 25 April 2016	2 July 2016 – 17 July 2016	24 September 2016 – 9 October 2016	22 December 2016 – 7 February 2017
	3 April 2015 – 19 April 2015	4 July 2015 – 20 July 2015	26 September 2015 – 11 October 2015	18 December 2015 – 2 February 2016
	18 April 2014 – 5 May 2014	5 July 2014 – 20 July 2014	27 September 2014 – 12 October 2014	20 December 2014 – 4 February 2015
	20 April 2013 – 5 May 2013	6 July 2013 – 21 July 2013	28 September 2013 – 13 October 2013	21 December 2013 – 5 February 2014
		2 June 2012 – 17 June 2012	8 September 2012 – 13 October 2012	20 December 2012 – 3 February 2013

	4 June 2011 – 19 June 2011	3 September 2011 – 18 September 2011	21 December 2011 – 13 February 2012
	29 May 2010 – 14 June 2010	4 September 2010 – 19 September 2010	17 December 2010 – 14 February 2011
	18 April 2009 – 14 June 2009	5 September 2009 – 20 September 2009	18 December 2009 – 8 February 2010
	13 April 2019 – 28 April 2019	6 July 2019 – 21 July 2019	20 December 2019 – 27 January 2020
	12 April 2018 – 29 April 2018	7 July 2018 – 22 July 2018	19 December 2018 – 27 January 2019
	14 April 2017 – 30 April 2017	6 July 2017 – 23 July 2017	15 December 2017 – 28 January 2018
	16 April 2016 – 1 May 2016	9 July 2016 – 24 July 2016	16 December 2016 – 29 January 2017
	3 April 2015 – 19 April 2015	4 July 2015 – 19 July 2015	19 December 2015 – 31 January 2016
<b>New Zealand</b>	18 April 2014 – 4 May 2014	5 July 2014 – 20 July 2014	20 December 2014 – 25 January 2015
	20 April 2013 – 5 May 2013	13 July 2013 – 28 July 2013	21 December 2013 – 26 January 2014
	6 April 2012 – 22 April 2012	30 June 2012 – 15 July 2012	21 December 2012 – 27 January 2013
	16 April 2011 – 1 May 2011	16 July 2011 – 31 July 2011	21 December 2011 – 29 January 2012
	2 April 2010 – 18 April 2010	2 July 2010 – 18 July 2010	21 December 2010 – 30 January 2011
	8 April 2009 – 26 April 2009	2 July 2009 – 19 July 2019	19 December 2009 – 1 February 2010

\* Tasmania had a three-term system until 2013.

## Further information

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