



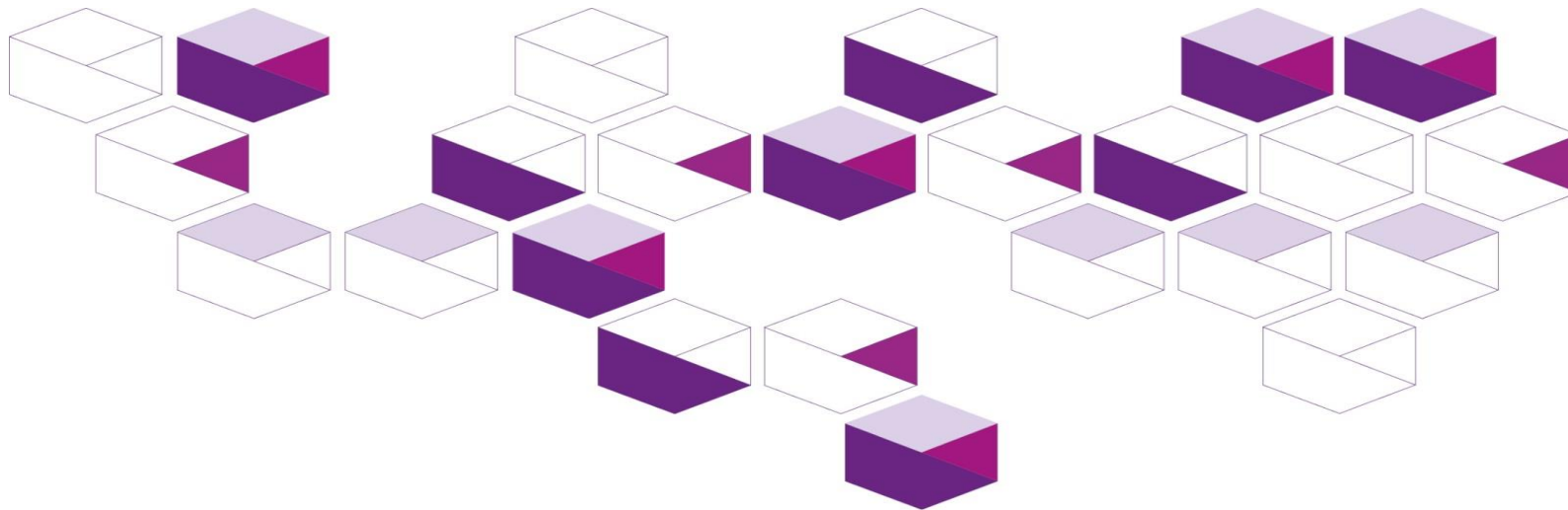
Government of **Western Australia**  
**South Metropolitan Health Service**

# Town of East Fremantle Injury and poisoning data

## May 2020

South Metropolitan Health Service

Health Promotion



# Acknowledgement

The South Metropolitan Health Service respectfully acknowledges the Aboriginal Noongar people, both past and present, the traditional owners of the land on which we work.

## Notes

### In this report:

The terms 'Town of East Fremantle and 'East Fremantle LGA' are used interchangeably.

Within Western Australia, the term Aboriginal is used in preference to Aboriginal and Torres Strait Islander, in recognition that Aboriginal people are the original inhabitants of Western Australia. No disrespect is intended to our Torres Strait Islander colleagues and community.

## Important disclaimer

All information and content in this material is provided in good faith by the WA Department of Health, and is based on sources believed to be reliable and accurate at the time of development. The State of Western Australia, the WA Department of Health and their respective officers, employees and agents, do not accept legal liability or responsibility for the material, or any consequences arising from its use.

## Abbreviations

ASR	Age-standardised rate
CI	Confidence interval
DoH	Department of Health, Western Australia
LGA	Local Government Area
WA	Western Australia
ICD 10	International Classification of Diseases, 10 <sup>th</sup> Revision
ED	Emergency Department

# Contents

<b>Acknowledgement</b>	<b>2</b>
<b>Notes</b>	<b>2</b>
Important disclaimer	2
<b>Abbreviations</b>	<b>2</b>
<b>Contents</b>	<b>3</b>
<b>Purpose</b>	<b>4</b>
<b>Health Datasets</b>	<b>4</b>
Data sources and data period	4
Inclusion criteria	4
Methods and definitions	5
Limitations of the data	5
Notes	5
<b>Hospitalisations</b>	<b>6</b>
<b>Costs</b>	<b>7</b>
<b>Emergency Department presentations</b>	<b>9</b>

# Purpose

The health-specific data contained in this document is provided by South Metropolitan Health Service (SMHS), Health Promotion to the Town of East Fremantle to support local government public health planning

## Health datasets

All data provided is sourced from within the Epidemiology Branch, Public Health Division, Department of Health, Western Australia.

### Data sources and data period

- WA Hospital Morbidity Data System (1998-2018)
- WA Health Emergency Department Data Collection (2004-2018)
- Death Registrations, Registry of Births, Deaths and Marriages; Cause of Death, Australian Bureau of Statistics (1983-2016)

### Inclusion criteria

- WA residents only.
- Hospitalisations due to injury and poisoning are identified by principal diagnosis codes (ICD-10-AM) ranging from S00 to T98 inclusive.
- Emergency department presentations due to injury and poisoning are identified by the following major diagnostic blocks (ICD-10-AM): (1) Poisoning, (1C) Drug reaction, (2A) Injury, multiple sites, (2B) Injury, single site, major, and (2BA) = Injury, single site, minor.
- Fatalities due to injury and poisoning are identified by cause of death codes (ICD-10) ranging from U50-U73 and V00-V98 inclusive. These codes indicate death by external causes.

## Methods and definitions

ASR	Age-standardised rate per 100,000 persons per year, standardised using indirect method against the 2001 Australian population. ASRs are only provided where case counts > 20, as otherwise they are unreliable.
ASR LCI and ASR UCI	Lower and upper limits of 95 per cent confidence intervals for ASR. Statistically we are 95 per cent confident that the true rate (ASR) falls between the lower and upper confidence interval values. Two rates are considered significantly different (at the 0.05 level) if their confidence intervals do not overlap. Otherwise, if their confidence intervals overlap, the two rates are not significantly different.

## Limitations of the data

It is important to be cautious when comparing the data in this document to that of previous data and not to overstate any perceived differences between results. Changes could be due to a change in the demographic mix of the population, particularly as there have been some minor revisions to LGA boundaries over time.

Results are also not comparable between LGAs because for each LGA the minimum number of years necessary to make up a sufficient sample has been used. This means that the time period for other LGAs may differ.

## Notes

- All rates are per 100,000 persons per year.
- ASR = Age-standardised rate ; ASR LCI=95 per cent lower confidence limit for ASR; ASR UCI=95 per cent upper confidence limit for ASR
- Counts less than 5 have been suppressed in this report to protect privacy and data confidentiality.
- Age standardised rates are not provided when the total event numbers for the population being studied are less than 20 due to unreliable rates that are derived.
- Standardised rate ratios are not provided when the total event numbers for the population being studied are less than 5 due to unreliable rate ratios that are derived.

# Hospitalisations

Table 1: Number and rates of hospitalisations due to injury and poisoning by injury category and age groups, East Fremantle LGA, WA, 2014 - 2018 (combined).

Injury category	Numbers by age group					Total	Age group specific rates					ASR	ASR LCI	ASR UCI
	0-14	15-24	25-44	45-64	65+		0-14	15-24	25-44	45-64	65+			
Transport accidents	7	8	18	40	24	97	99.2	174.4	200.6	315.6	388.9	22.8	176.5	269.1
Accidental falls	45	16	16	59	269	405	637.7	348.8	178.3	465.5	4359	849.8	764.2	935.3
Exposure to mechanical forces	23	22	38	25	15	123	325.9	479.5	423.4	197.2	243.1	334.9	274	395.9
Accidental drowning, submersion, threats to breathing	N/A	N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exposure to Smoke, fire, flames, hot substances	N/A	0	N/A	N/A	0	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exposure to venomous plants, animals, forces of nature	N/A	0	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Accidental poisoning	N/A	N/A	N/A	N/A	N/A	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other external causes of accidental injury	12	25	37	63	26	163	170	544.9	412.3	497	421.3	404.4	339.5	469.3
Intentional self-harm	N/A	10	12	11	8	42	14.2	218	133.7	86.8	129.6	113.3	77.7	148.8
Assault & other injury caused by other person(s)	0	N/A	11	8	0	23	0	87.2	122.6	63.1	0	61.9	35.9	87.9
Event of undetermined intent	N/A	N/A	5	N/A	0	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Adverse effects due to drugs & other substances	N/A	N/A	N/A	6	N/A	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Abnormal reaction following procedure	7	9	34	63	81	194	99.2	196.2	378.8	497	1312	443.1	378.1	508.2
<b>TOTAL</b>	<b>94</b>	<b>90</b>	<b>171</b>	<b>275</b>	<b>423</b>	<b>1096</b>	<b>1346</b>	<b>2049</b>	<b>1850</b>	<b>2122</b>	<b>6854</b>	<b>2430</b>	<b>2046</b>	<b>2814</b>

\* All rates are per 100,000 population

ASR = Age-standardised rate ; ASR LCI=95 per cent lower confidence limit for ASR; ASR UCI=95 per cent upper confidence limit for ASR

Note 1: Counts less than 5 have been suppressed in this report to protect privacy and data confidentiality.

Note 2: Age standardised rates are not provided when the total event numbers for the population being studied are less than 20 due to unreliable rates that are derived.

**Table 2: Length of stay of hospitalisation (number of days) due to injury and poisoning by injury category, gender, age group and Aboriginal status, East Fremantle, LGA, 2018.**

Injury category	Gender		Age group					Aboriginal status		Total
	Male	Female	0-14 years	15-24 years	25-44 years	45-64 years	65+ years	Non-Aboriginal	Aboriginal	
Transport accidents	27	77	<5	<5	<5	10	90	103	<5	<b>104</b>
Accidental falls	196	308	9	5	<5	21	466	503	<5	<b>504</b>
Exposure to mechanical forces	20	20	5	<5	13	13	6	37	<5	<b>40</b>
Exposure to smoke, fire, flames, hot substances	<5	<5	<5	0	<5	<5	0	5	0	<b>5</b>
Accidental poisoning	0	10	0	0	<5	0	9	10	0	<b>10</b>
Other external causes of accidental injury	25	50	<5	9	8	23	32	74	<5	<b>75</b>
Intentional self-harm	<5	85	<5	82	0	<5	<5	86	0	<b>86</b>
Assault & other injury caused by other person(s)	<5	<5	0	<5	<5	<5	0	<5	<5	<b>N/A</b>
Event of undetermined intent	0	<5	0	0	0	<5	0	<5	<5	<b>N/A</b>
Adverse effects due to drugs & other substances	<5	<5	0	<5	<5	<5	<5	5	0	<b>5</b>
Abnormal reaction following procedure	82	103	<5	<5	7	19	155	185	0	<b>185</b>
<b>Total</b>	<b>361</b>	<b>659</b>	<b>21</b>	<b>104</b>	<b>40</b>	<b>93</b>	<b>762</b>	<b>1013</b>	<b>7</b>	<b>1020</b>

\* All rates are per 100,000 population

ASR = Age-standardised rate; ASR LCI=95 per cent lower confidence limit for ASR; ASR UCI=95 per cent upper confidence limit for ASR

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Note 2: Age standardised rates are not provided when the total event numbers for the population being studied are less than 20 due to unreliable rates that are derived.

# Costs

**Table 3: Cost of hospitalisation (\$) due to injury and poisoning by injury category, East Fremantle, LGA, WA, 2018.**

Injury category	Total Cost
Transport accidents	\$223,217.00
Accidental falls	\$710,695.95
Exposure to mechanical forces	\$104,070.64
Accidental drowning, submersion, threats to breathing	-
Exposure to electricity, radiation, extreme temperature/pressure	-
Exposure to smoke, fire, flames, hot substances	\$33,101.92
Exposure to venomous plants, animals, forces of nature	-
Accidental poisoning	\$16,692.94
Other external causes of accidental injury	\$246,304.27
Intentional self-harm	\$87,251.81
Assault & other injury caused by other person(s)	\$12,620.80
Event of undetermined intent	\$1,929.56
Adverse effects due to drugs & other substances	\$12,814.31
Medical misadventure	-
Abnormal reaction following procedure	\$374,092.12
<b>Total</b>	<b>\$1,822,791.32</b>



# Emergency Department presentations

Table 4: Number and rates of ED presentations due to injury and poisoning by age groups, East Fremantle LGA, WA, 2014 - 2018 (combined).

Numbers by age group					Total	Age group specific rates					ASR	ASR LCI	ASR UCI
0-14	15-24	25-44	45-64	65+		0-14	15-24	25-44	45-64	65+			
793	362	586	471	355	<b>2567</b>	11237	7891	6529	3716	5752	6967	6690	7245

\* All rates are per 100,000 population

ASR = Age-standardised rate ; ASR LCI=95 per cent lower confidence limit for ASR; ASR UCI=95 per cent upper confidence limit for ASR

Note 1: Counts less than 5 have been suppressed in this report to protect privacy and data confidentiality.

Note 2: Age standardised rates are not provided when the total event numbers for the population being studied are less than 20 due to unreliable rates that are derived.



*This document can be made available in alternative formats on request.*

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