

# Australian Health Performance Framework: PI 2.2.1— Adverse events treated in hospitals, 2019

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# Australian Health Performance Framework: PI 2.2.1– Adverse events treated in hospitals, 2019

## Identifying and definitional attributes

<b>Metadata item type:</b>	Indicator
<b>Indicator type:</b>	Indicator
<b>Short name:</b>	AHPF PI 2.2.1–Adverse events treated in hospitals, 2019
<b>METEOR identifier:</b>	716174
<b>Registration status:</b>	<a href="#">Health</a> , Superseded 13/10/2021
<b>Description:</b>	The number of hospitalisations involving an adverse event. Presented as a number per 100 hospitalisations.
<b>Indicator set:</b>	<a href="#">Australian Health Performance Framework, 2019</a> <a href="#">Health</a> , Superseded 13/10/2021 <a href="#">Australian Health Performance Framework, 2019</a> <a href="#">Health</a> , Superseded 13/10/2021

## Collection and usage attributes

<b>Computation description:</b>	<p>Adverse events are defined as incidents in which harm resulted to a person receiving health care. They include infections, falls resulting in injuries, and problems with medication and medical devices. Some adverse events may be preventable.</p> <p>The current measure for this indicator can be interpreted as representing selected adverse events in health care that have resulted in, or have affected, hospital admissions, rather than all adverse events that occurred in hospitals.</p> <p>A hospital separation may be recorded against more than one adverse event category as some adverse events are reported as diagnoses and others as external causes or places of occurrence (of the injury or poisoning). Some of the adverse events may represent events that occurred before admission.</p> <p>Analysis by state and territory is based on location of the service.</p> <p>Presented as a number per 100 separations.</p>
<b>Computation:</b>	$100 \times (\text{Numerator} \div \text{Denominator})$

**Numerator:**

Number of hospital separations with an adverse event, where an adverse event is defined as follows (using ICD-10-AM 10th edition):

<b>External cause of injury and poisoning</b>	
Adverse effects of drugs, medicaments and biological substances	Y40.~ – Y59.~
Misadventures to patients during surgical and medical care	Y60.~ – Y82.~
Procedures causing abnormal reactions / complications	Y83.~ – Y84.~
Other external causes of adverse events	Y88.~ – Y95.~
<b>Place of occurrence of injury and poisoning</b>	
Place of occurrence: Health service area	Y92.23, Y92.24 (a separation with both codes counts as two separations with adverse events)
<b>Diagnoses</b>	
Selected post-procedural disorders	E89.~, G97.~, H59.~, H95.~, I97.~, J95.~, K91.~, M96.~, N99.~
Haemorrhage and haematoma complicating a procedure	T81.0
Infection following a procedure	T81.4
Complications of internal prosthetic devices	T82.~ – T85.~
Other diagnoses of complications of medical and surgical care	T80.~ – T81.~ (excluding T81.0, T81.4), T86.~, T87.~, T88.~, T98.3

**Numerator data elements:****Data Element / Data Set**

[Person—person identifier, XXXXXX\[X\(14\)\]](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

**NMDS / DSS**

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Episode of care—principal diagnosis, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

**NMDS / DSS**

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Episode of care—additional diagnosis, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Injury event—external cause, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Injury event—place of occurrence, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Episode of admitted patient care—condition onset flag, code N](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Denominator:**

**Denominator data  
elements:**

Total number of hospital separations

**Data Element / Data Set**

**Data Element**

Total number of hospital separations

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Disaggregation:**

2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, 2013–14, 2014–15, 2015–16, 2016–17, 2017–18—National.

Nationally, by (all not reported):

- adverse event category
- Indigenous status
- remoteness (Australian Statistical Geography Standard (ASGS) Remoteness Structure)
- Socio-Economic Indexes for Areas (SEIFA) Index of Relative Socio-Economic Disadvantage (IRSD) deciles.

State and territory (not reported).

State and territory, by (all not reported):

- adverse event category
- Indigenous status
- remoteness (ASGS Remoteness Structure)
- SEIFA IRSD quintiles.

Some disaggregations may result in numbers too small for publication.

**Disaggregation data elements:****Data Element / Data Set**

[Establishment—Australian state/territory identifier, code N](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

**NMDS / DSS**

[Admitted patient care NMDS 2017-18](#)

**Guide for use**

Used for disaggregation by state/territory (public and private hospitals)

**Data Element / Data Set**

[Person—Indigenous status, code N](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

**NMDS / DSS**

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Episode of care—principal diagnosis, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

**NMDS / DSS**

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Episode of care—additional diagnosis, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Injury event—external cause, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Injury event—place of occurrence, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Data Element / Data Set**

[Person—area of usual residence, statistical area level 2 \(SA2\) code \(ASGS 2016\) N\(9\)](#)

**Data Source**

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

**Guide for use**

Used for disaggregation by remoteness area and SEIFA IRSD

**Comments:**

Most recent data available for Australian Health Performance Framework: 2017–18.

Data for 2007–08 to 2016–17 were obtained from Admitted patient care NMDSs for those years. Similar data elements were used to those listed above for the 2017–18 Admitted patient care NMDS.

From 2017–18 the specificity of *Place of occurrence: Health service area* has improved in that adverse events in the current or another health service area are now separately identifiable. Separations with an adverse event in both the current and another health service area are now counted as two separations with adverse events, and consequently the number and rates of separations with *Place of occurrence: Health service area* may have increased for 2017–18 compared with previous years.

The scope of the National Hospital Morbidity Database (NHMD) is episodes of care for admitted patients in essentially all hospitals in Australia, including public and private acute and psychiatric hospitals, free-standing day hospital facilities, alcohol and drug treatment hospitals and dental hospitals.

## Representational attributes

**Representation class:** Rate

**Data type:** Real  
**Unit of measure:** Episode  
**Format:** N[NN].N

## Indicator conceptual framework

**Framework and dimensions:** [2. Safety](#)

## Data source attributes

**Data sources:**

### Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

### Frequency

Annual

### Data custodian

Australian Institute of Health and Welfare

## Accountability attributes

**Reporting requirements:** Australian Health Performance Framework

**Organisation responsible for providing data:** Australian Institute of Health and Welfare

**Accountability:** Australian Institute of Health and Welfare

## Source and reference attributes

**Submitting organisation:** Australian Institute of Health and Welfare

## Relational attributes

**Related metadata references:** Has been superseded by [Australian Health Performance Framework: PI 2.2.1–Adverse events treated in hospitals, 2020](#)  
[Health](#), Standard 13/10/2021

See also [Australian Health Performance Framework: PI 2.2.2–Healthcare-associated Staphylococcus aureus bloodstream infections, 2019](#)  
[Health](#), Superseded 13/10/2021

See also [National Healthcare Agreement: PI 22–Healthcare associated infections: Staphylococcus aureus bacteraemia, 2020](#)  
[Health](#), Standard 13/03/2020

See also [National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2020](#)  
[Health](#), Standard 13/03/2020

See also [National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2021](#)  
[Health](#), Standard 19/11/2020