

From: [Mark Lock](#)
To: [State Development, Natural Resources and Agricultural Industry Development Committee](#)
Subject: RE: Question on Notice - Medicines and Poisons Bill 2019
Date: Wednesday, 26 June 2019 5:13:05 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image007.jpg](#)
[image001.jpg](#)
[SSB31590_meds_24Jun19_TOP_20.xlsx](#)
[20190626_Pharmaceutical Society request medication related presentations and admissions.pdf](#)

Hi Ciara,

Further to that email, I have been able to obtain further Queensland-specific data.

Please see attached advice in relation to ED presentations and hospital admissions in Qld.

The ED presentation data in the word document is not exactly what was being asked for, because the EDs presentation data does not routinely or reliably drill down to the type of medication that has caused the person to present. The priority of the ED to stabilise the patient/respond to their immediate symptoms. There are limitations to accurately recording the medication involved in the ED presentation, such as, further treatment/testing (not in ED) may be required to ascertain the exact cause of the issue.

Please note these are counts of ICD codes, not actual episodes of care, so if one episode had several drug codes recorded, they are all counted individually. For example, if someone had attempted suicide using a mixture of prescription drugs that episode of care will appear more than once in the data provided.

Medication Services Queensland have confirmed that there are no surprises in the data.

I do realise that is response is after the due date, but I am sure the Committee would be interested in the data.

Let me know if you have any questions.

Cheers,
Mark

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From: [Mark Lock](#)
To: [Ciara Furlong](#)
Cc: [State Development, Natural Resources and Agricultural Industry Development Committee](#)
Subject: RE: Question on Notice - Medicines and Poisons Bill 2019
Date: Tuesday, 25 June 2019 5:43:31 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image001.jpg](#)
[image770a8.JPG](#)

Hi Ciara,

I haven't been able to get detailed data related to specific medicines causing the hospital admissions. The information that I do have is as follows:

- For those admitted to hospital due to adverse drug reactions:
 - 50% had a single adverse reaction
 - 32.5% had 2 adverse reactions
 - 15% had 3 or more adverse reactions
 - 70% of cases the adverse reactions were due to multiple medication use
 - 87% of cases were considered preventable
- 13% of were readmitted with a hospital admission due to an adverse reactions within 12 months following their first admission due to an adverse reaction
- People aged over 65 with medical and surgical admissions – 55% were on potentially inappropriate medications
- People with poor renal function at the time of admission:
 - 16% were on a contraindicated medicine
 - 21% were on an inappropriate dose of medicine

I am liaising with Queensland Health to see if we can get some further data on this that I can forward through. I hope the Committee will find the above information useful in the absence of more detailed information.

Kind regards,
Mark

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Count of diagnosis codes⁽¹⁾ (top 20) for episodes of admitted patient care with principal or other diagnosis of 'Poisoning by drugs, medicaments and biological substances', Queensland Hospitals, 2017/2018 and 2018/2019 (July to December)⁽⁴⁾

Notes:

1. Includes number of diagnosis codes recorded within the specified range and with condition onset flag of 'Condition present on admission'
2. 'Poisoning by drugs, medicaments and biological substances' defined by ICD-10-AM 10th Edition principal diagnosis of T36 - T509
3. Excludes episodes of care for newborns without qualified days, posthumous organ procurement and boarders.
4. Data from July 2018 are preliminary and subject to change.
5. An episode of care for an admitted patient may be a total hospital stay or a portion of a stay that begins or ends in a change of care type.
6. An episode of care may include more than 1 diagnosis code within the specified range.

Source: Queensland Hospital Admitted Patient Data Collection, Statistical Services Branch, Department of Health, Queensland

Prepared by: Statistical Reporting & Coordination Unit, Statistical Services Branch, Department of Health

Date: 24 June 2019

DBNo: 31590

Table 1: Top 20 ICD-10-AM 10th Edition diagnosis codes by number of recorded codes, for 'Poisoning by drugs, medicaments and biological substances', Queensland hospitals, 2017/2018

ICD-10-AM 10th Edition code	Description	2017/2018
T424	Benzodiazepines	2,901
T391	4-Aminophenol derivatives	2,803
T432	Other and unspecified antidepressants	1,895
T402	Other opioids	1,803
T435	Other and unspecified antipsychotics and neuroleptics	1,446
T393	Other nonsteroidal anti-inflammatory drugs [NSAID]	916
T427	Antiepileptic and sedative-hypnotic drugs, unspecified	533
T383	Insulin and oral hypoglycaemic [antidiabetic] drugs	475
T426	Other antiepileptic and sedative-hypnotic drugs	468
T433	Phenothiazine antipsychotics and neuroleptics	463
T450	Antiallergic and antiemetic drugs	418
T430	Tricyclic and tetracyclic antidepressants	392
T404	Other synthetic narcotics	382
T509	Other and unspecified drugs, medicaments and biological substances	318
T4369	Other psychostimulants with potential for use disorder	276
T447	Beta-adrenoreceptor antagonists, not elsewhere classified	275
T407	Cannabis (derivatives)	249
T4361	Psychostimulants with potential for use disorder, methylamphetamine	236
T465	Other antihypertensive drugs, not elsewhere classified	232
T406	Other and unspecified narcotics	183
Top 20 total		16,664
Other codes (n=103)		3,040
Total		19,704

Table 2: Top 20 ICD-10-AM 10th Edition diagnosis codes by number of recorded codes, for 'Poisoning by drugs, medicaments and biological substances', Queensland hospitals, July - December 2018⁽⁴⁾

ICD-10-AM 10th Edition code	Description	July - December 2018 ⁽⁴⁾
T391	4-Aminophenol derivatives	1,417
T424	Benzodiazepines	1,391
T432	Other and unspecified antidepressants	979
T435	Other and unspecified antipsychotics and neuroleptics	808
T402	Other opioids	715
T393	Other nonsteroidal anti-inflammatory drugs [NSAID]	496
T427	Antiepileptic and sedative-hypnotic drugs, unspecified	315
T430	Tricyclic and tetracyclic antidepressants	242
T383	Insulin and oral hypoglycaemic [antidiabetic] drugs	237
T433	Phenothiazine antipsychotics and neuroleptics	227
T450	Antiallergic and antiemetic drugs	222
T426	Other antiepileptic and sedative-hypnotic drugs	204
T404	Other synthetic narcotics	199
T4369	Other psychostimulants with potential for use disorder	173
T447	Beta-adrenoreceptor antagonists, not elsewhere classified	170
T4361	Psychostimulants with potential for use disorder, methylamphetamine	146
T509	Other and unspecified drugs, medicaments and biological substances	143
T465	Other antihypertensive drugs, not elsewhere classified	141
T407	Cannabis (derivatives)	139
T390	Salicylates	107
Top 20 total		8,471
Other codes (n=99)		1,775
Total		10,246

Emergency Department presentations:

The AIHW *Emergency department care 2017–18: Australian hospital statistics (an annual report)* report over 400,000 ED presentations in Queensland under the classification of ‘injury, poisoning and other consequences of external causes’ for Queensland in the 2017-2018 year. While medicines-related presentations may be included in this classification, it is not possible to determine the specific proportion.

Note also, this is presentation data, not number of people/patients

Table 4.5: Emergency department presentations^(a) by principal diagnosis in ICD-10-AM^(b) chapters, states and territories, 2017–18

Principal diagnosis	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
A00–B99 Certain infectious and parasitic diseases	143,311	86,432	81,560	48,393	23,130	7,137	9,163	8,204	407,330
C00–D48 Neoplasms	11,202	5,510	6,308	2,565	1,542	744	385	287	28,543
D50–D89 Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	13,536	11,945	6,939	3,917	2,768	759	605	362	40,831
E00–E90 Endocrine, nutritional and metabolic diseases	25,488	15,341	13,667	6,836	5,192	1,653	1,349	3,288	72,814
F00–F99 Mental and behavioural disorders	95,090	57,527	57,022	35,634	24,350	5,817	4,626	6,919	286,985
G00–G99 Diseases of the nervous system	29,749	32,133	23,943	12,783	8,545	3,635	2,494	2,064	115,346
H00–H59 Diseases of the eye and adnexa	48,882	32,820	14,790	9,943	4,922	1,384	1,905	2,270	116,916
H60–H95 Diseases of the ear and mastoid process	34,710	24,189	18,329	10,184	4,899	1,565	1,773	2,596	98,245
I00–I99 Diseases of the circulatory system	103,134	79,989	91,247	33,046	18,836	7,620	5,038	4,380	343,290
J00–J99 Diseases of the respiratory system	235,020	131,827	119,194	65,410	39,574	13,004	11,317	14,101	629,447
K00–K93 Diseases of the digestive system	146,704	95,366	81,994	51,168	27,450	9,737	8,136	7,586	428,141
L00–L99 Diseases of the skin and subcutaneous tissue	97,612	53,912	51,694	31,946	14,550	5,064	4,214	9,371	268,363
M00–M99 Diseases of the musculoskeletal system and connective tissue	165,201	80,747	47,465	32,652	22,292	8,164	6,195	10,334	373,050
N00–N99 Diseases of the genitourinary system	108,522	73,860	65,917	35,083	17,288	6,419	6,130	6,550	319,769
O00–O99 Pregnancy, childbirth and the puerperium	29,575	38,540	14,776	10,957	5,730	1,347	1,808	999	103,732
P00–P96 Certain conditions originating in the perinatal period	1,556	4,492	3,222	1,281	625	146	131	117	11,570
Q00–Q99 Congenital malformations, deformations and chromosomal abnormalities	661	335	593	202	298	10	29	22	2,150
R00–R99 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	668,690	381,764	260,290	144,376	117,437	30,440	30,776	25,218	1,658,991
S00–T98 Injury, poisoning and certain other consequences of external causes	679,280	423,427	414,583	233,975	111,991	44,022	39,981	31,112	1,978,371
U50–Y98 External causes of morbidity and mortality	16,239	187	15,069	1,707	3,611	42	465	1,129	38,449
Z00–Z99 Factors influencing health status and contact with health services	158,699	69,502	44,036	59,028	37,323	13,717	11,258	9,683	403,246
Not reported ^(c)	67,426	93,061	79,480	25,621	14,141	15	0	12,169	291,913
Total	2,880,287	1,792,906	1,512,118	856,707	506,494	162,441	147,778	158,761	8,017,492

(a) Presentations include all types of visit.

(b) Principal diagnoses were reported using various ICD-10-AM editions, ICD-9-CM, and SNOMED CT-AU, and were mapped to ICD-10-AM 3-character diagnosis codes.

(c) Includes about 8,000 records for which the provided ICD-9-CM or SNOMED CT-AU code could not be mapped to an ICD-10-AM diagnosis code.

Note: See appendixes A and B for more information on terminology, data limitations, and methods.

Reference: *Australian Institute of Health and Welfare 2018. Emergency department care 2017–18: Australian hospital statistics. Health services series no. 89. Cat. no. HSE 216. Canberra: AIHW.*
See: <https://www1.racgp.org.au/newsgp/professional/new-studies-examine-australian-ed-presentations>

Hospitals – Admitted Patient Care:

The **attached** file includes the number of diagnosis codes recorded for episodes of admitted patient care, 2017/2018 and July to December 2018 (preliminary), for a select range of ICD-10-AM 10th Edition codes that have been coded as being ‘present on admission to hospital’. Codes have been selected within range T36 – T509 ‘Poisoning by drugs, medicaments and biological substances’, for all Queensland public and private hospitals.

Data are shown on two worksheets including:

- the number of times each code within the range has been recorded; and
- the top 20 codes recorded for each year

Please note that there are limitations to this data as they are a count of the diagnosis codes based on clinical coding rules. They do not show the number of episodes of admitted patient care or the number of patients with these codes and may not be equivalent to the way the medication-related admissions in the various studies cited in the PSA report were defined.