



Australian Government

Department of Health

Therapeutic Goods Administration

Medicines and vaccines post-market vigilance

Statistics for 2015

Version 1.0, November 2016

TGA Health Safety
Regulation

About the Therapeutic Goods Administration (TGA)

- The Therapeutic Goods Administration (TGA) is part of the Australian Government Department of Health, and is responsible for regulating medicines and medical devices.
- The TGA administers the [Therapeutic Goods Act 1989](#) (the Act), applying a risk management approach designed to ensure therapeutic goods supplied in Australia meet acceptable standards of quality, safety and efficacy (performance), when necessary.
- The work of the TGA is based on applying scientific and clinical expertise to decision-making, to ensure that the benefits to consumers outweigh any risks associated with the use of medicines and medical devices.
- The TGA relies on the public, health professionals and industry to report problems with medicines or medical devices. TGA investigates reports received by it to determine any necessary regulatory action.
- To report a problem with a medicine or medical device, please see the information on the TGA website <<http://www.tga.gov.au>>.

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Foreword

The Therapeutic Goods Administration (TGA) is responsible for regulating medicines, vaccines and biologicals, including monitoring the ongoing safety, quality and efficacy of these products once they have been included on the [Australian Register of Therapeutic Goods \(ARTG\)](#) through product vigilance activities.

On an annual basis, the TGA's Pharmacovigilance and Special Access Branch (PSAB) prepares a report for incorporation into the Department of Health publication [Australian Statistics on Medicines](#).

[Australian Statistics on Medicines](#) is produced by the Drug Utilisation Sub-Committee of the Pharmaceutical Benefits Advisory Committee and is aimed at providing comprehensive and valid statistics on the Australian use of medicines and vaccines in the public domain to allow access by all interested parties.

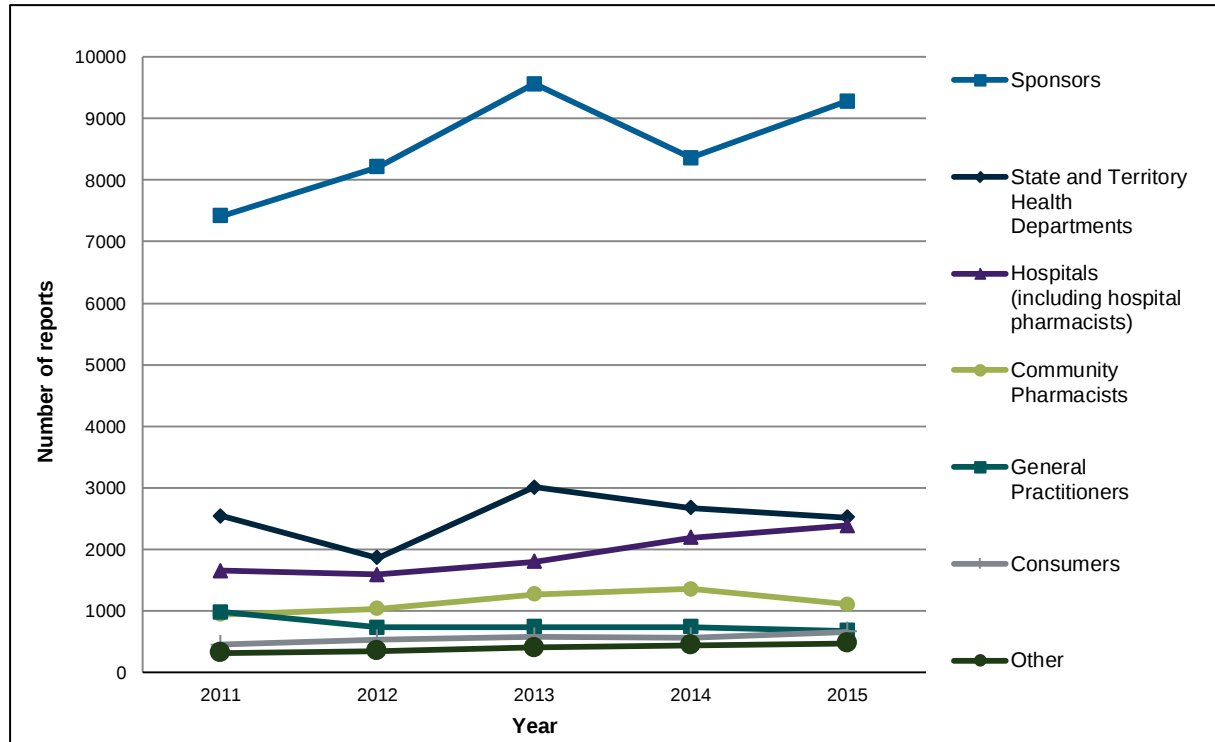
This report from the PSAB includes a brief overview on the following aspects of post-market monitoring of medicines and vaccines in Australia:

- Adverse event reporting statistics for 2015
- Processing and use of adverse event reports
- Database of Adverse Event Notifications
- Reporting adverse events
- Expert advisory committees
- *Medicines Safety Update*
- Product vigilance

Adverse event reporting statistics for 2015

The TGA's reporting system for adverse events began in the late 1960s with the computerised database dating back to the early 1970s. By the end of 2015 there were approximately 312,000 reports of suspected adverse events in the database.

Figure 1: Origin of medicine and vaccine adverse events received by the TGA (2011-15)



In 2015 the TGA received approximately 17,000 reports of adverse events. As shown in Figure 1, the majority of reports made in 2015 were by sponsors. The number of reports made by sponsors steadily increased from 2011 (7414) to 2013 (9563), before it decreased in 2014 (8359) and rose again in 2015 (9286).

Of the 17,000 total adverse event reports received by the TGA in 2015, approximately 54% (9286) were from sponsors; 15% (2516) from State and Territory Health Departments (reports of adverse events following immunisation); 14% (2381) from hospitals and hospital pharmacists; 6% (1105) from community pharmacists; 4% (675) from general practitioners (GPs); 4% (654) from consumers; and 3% (470) from other sources.

Other than the aforementioned increase in reports from sponsors, the numbers of reports made by each of the sources during 2015 were similar to those made the previous year.

While health professionals are encouraged to report suspected adverse events directly to the TGA, they can also report to the sponsor or manufacturer.

Processing and use of adverse event reports

The PSAB assessed adverse event reports submitted to the TGA by checking for the presence of 'minimum' details, including an individual patient, an adverse event, at least one (suspected) medicine or vaccine, and an identifiable reporter. The specific adverse event terms are identified along with the suspected, interacting or 'other' therapeutic products and these are entered into the database.

The PSAB assesses causality of adverse event(s) and in some cases requests further clinical or laboratory information from the reporter. Medical officers review serious reports and branch staff regularly analyse reporting data to identify potential safety signals.

Reports are forwarded to the Uppsala Monitoring Centre in Sweden, which administers the World Health Organization Collaborating Centre for International Drug Monitoring. This global database began in 1968 as a pilot program involving 10 nations, including Australia, and now receives reports from more than 80 nations.

Database of Adverse Event Notifications

Information in the publicly searchable [Database of Adverse Event Notifications](#) (DAEN) comes from reports made to the TGA by a wide range of sources, including members of the public, general practitioners, nurses, other health professionals and the therapeutic goods industry. Reports in this database start from 1 January 1971 up to three months prior to the date of access. The TGA uses this three-month period to investigate each adverse event report.

The DAEN, which was launched in 2012, was created to support better health outcomes by providing access to the information that the TGA gathers while monitoring medicine and vaccine safety in Australia.

Reporting adverse events

The TGA encourages the reporting of all suspected adverse events to medicines and vaccines available in Australia, including prescription medicines, over the counter and complementary medicines. The reporting of seemingly insignificant or common adverse events can contribute to the TGA's investigation of a potential safety signal.

The TGA particularly encourages reporting of:

- suspected adverse events involving new medicines and vaccines
- suspected medicine and vaccine interactions
- unexplained adverse events (adverse events that are not described in the Product Information)
- serious adverse events, such as those suspected of causing:
 - inability to work
 - admission to hospital
 - prolongation of hospitalisation
 - increased investigation or treatment costs
 - danger to life
 - birth defects
 - death.

For further information about reporting suspected adverse events, visit the [TGA website](#) (click on '[Report a Problem](#)').

Sponsors of all medicines and vaccines on the ARTG have [mandatory reporting requirements](#) regarding adverse events.

Expert advisory committees

Advisory Committee on the Safety of Medicines

The [Advisory Committee on the Safety of Medicines](#) (ACSOM) was established in January 2010 to provide expert advice to the TGA about safety issues under investigation and the appropriateness of [Risk Management Plans](#) (RMPs). RMPs outline sponsors' plans to monitor and communicate risks, and are evaluated as part of the registration process for new medicines. RMPs accompany applications for registration of high risk medicines, such as new chemical entities. RMPs characterise and pro-actively manage risks relating to a medicine over its entire life cycle. ACSOM also provides advice to the TGA on other matters related to pharmacovigilance, including the detection, assessment, understanding and prevention of adverse events. ACSOM meeting statements are [published on the TGA website](#).

Advisory Committee on the Safety of Vaccines

Following a recommendation from the government's [Review of the management of adverse events associated with Panvax and Fluvax](#) in 2012 'to consider the current governance arrangements for monitoring and responding to vaccine safety issues in Australia and make recommendations for an improved system of governance for vaccine safety monitoring', the Advisory Committee on the Safety of Vaccines (ACSOV) was established in the Therapeutic Goods Regulations. The functions of ACSOV are to provide advice and make recommendations to the Minister for Health, the TGA and the Office of Health Protection on the safety, risk assessment and risk management of vaccines. [ACSOV meeting statements are published on the TGA website](#).

Medicines Safety Update

The [Medicines Safety Update](#) was published six times during 2015. It was published on the TGA website. *Medicines Safety Update* replaced the *Australian Adverse Drug Reactions Bulletin* in 2010.

The following [articles were published in Medicines Safety Update during 2015](#):

- Combined oral contraceptives and hormone replacement therapy - inflammatory bowel disease
- Metoclopramide and neurological adverse events
- Publication changes for *Medicines Safety Update*
- 2015 seasonal influenza vaccines
- Agomelatine (Valdoxan) – monitoring of liver function
- Non-steroidal anti-inflammatory drugs and diclofenac reviews
- Methotrexate and hepatitis B reactivation
- Ivabradine and cardiovascular events in patients with angina
- Ethinylestradiol/etonogestrel vaginal ring and thromboembolic risk
- Risperidone and risk of cerebrovascular adverse events
- Infliximab and non-melanoma skin cancers
- Tramadol oral drops
- Ustekinumab
- Sodium glucose co-transporter 2 inhibitors and diabetic ketoacidosis
- Registering to report adverse events online
- TGA investigates proton pump inhibitors and increased cardiovascular risk
- Potential interaction – allopurinol and 6-mercaptopurine/azathioprine
- Intrauterine contraceptive devices and uterine perforation
- Peginterferon alfa-2a and facial palsy.

Product vigilance

The TGA applies a risk management approach to ensure therapeutic goods supplied in Australia meet acceptable standards of quality, safety and efficacy. Once a therapeutic product is approved, the TGA continues to monitor the product in the market through therapeutic product vigilance activities.

The aim of therapeutic product vigilance is to continually monitor and evaluate the safety and efficacy (performance) profile of therapeutic goods and to manage any risks associated with individual products over their life cycle. The TGA's therapeutic product vigilance framework is available on the TGA website at [Therapeutic product vigilance](#).

The maintenance and improvement of health and safety is a shared responsibility. In addition to government and industry, health professionals, consumers and their respective associations play an important role in reporting safety related issues.

Sponsors have the primary responsibility for the safety of any therapeutic products they import into, supply in or export from Australia. Sponsors must comply with legislative requirements for therapeutic product vigilance under the *Therapeutic Goods Act 1989* (the Act) and there are applicable offences and penalties under the Act for not complying. The legislative requirements for therapeutic product vigilance vary depending on the type of therapeutic good.

The TGA maintains up-to-date safety information on therapeutic products that is communicated through a variety of means to consumers and health professionals. The TGA is committed to advancing public health through market authorisation of beneficial, innovative therapeutic goods and by providing timely, evidence-based and authoritative information to allow consumers and health professionals to make informed decisions.

The TGA defines therapeutic product vigilance tools as tools designed to facilitate the collection and evaluation of information pertaining to the benefits and risks associated with the use of therapeutic products. The main product vigilance tools used by the PSAB are adverse event reports, RMPs and Periodic Safety Update Reports (PSURs).

Adverse event reports are reports of any unwanted and sometimes harmful occurrences from using medicines, vaccines or medical devices (collectively known as therapeutic goods). Importantly, adverse events related to the use of a therapeutic good are not always caused by the therapeutic good itself.

RMPs provide a summary of the known important safety information about the therapeutic product, plans to identify and characterise known or potential safety concerns and plans to minimise any identified or potential safety risk. A full outline of the scope of RMPs is above (see 'Expert advisory committee'). PSURs give an annual overview of the safety of the product, including adverse events, a summary of its registration status world-wide, actions taken for safety reasons, the world-wide usage of the product and an analysis of safety requirements. Sponsors must submit PSURs to the TGA for at least three years after registration of a product.

An important aspect of product vigilance is ensuring there are mechanisms to communicate safety information to both consumers and health professionals. To achieve this, the TGA publishes [Australian Public Assessment Reports](#) (AusPARs) about recently registered prescription medicines and vaccines on the TGA website. AusPARs outline the findings of the TGA's evaluation of a product including important effectiveness and safety information.

Each adverse event report the TGA receives is entered into a database, which is continually analysed by TGA staff to identify potential emerging problems for detailed investigation.

If the TGA identifies a safety concern relating to a medicine or vaccine, we can take regulatory action. This can include:

- informing health professionals and consumers via [safety alerts](#), Early Warning System [monitoring communications](#) and [Medicines Safety Update](#), which provide information and recommendations about therapeutic goods
- updating the Product Information, Consumer Medicine Information and/or product labelling with new adverse effects, precautions or warnings
- requiring post-marketing studies
- imposing limits on their use
- investigating manufacturing sites
- [recalling products from the market](#)
- [suspending](#) or [cancelling](#) products.

When a product is cancelled, details are published on the TGA website.

Version history

Version	Description of change	Author	Effective date
V1.0	Original publication	Pharmacovigilance and Special Access Branch	02/11/2016

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R16/541287