







What's new in the 2021 report?

Respondent demographics, including gender, age and Aboriginal and Torres Strait Islander status, have been included for each schedule point.

What's planned for 2022?

Implementation of a new, more robust, vaccine safety survey to capture richer data from participants.

Copyright

© 2022 Commonwealth of Australia as represented by the Department of Health and Aged Care.

This work is copyright. You may copy, print, download, display and reproduce the whole or part of this work in unaltered form for your own personal use or, if you are part of an organisation, for internal use within your organisation, but only if you or your organisation:

- a. do not use the copy or reproduction for any commercial purpose;
 and
- b. retain this copyright notice and all disclaimer notices as part of that copy or reproduction.

Apart from rights as permitted by the Copyright Act 1968 (Cwlth) or allowed by this copyright notice, all other rights are reserved, including (but not limited to) all commercial rights.

Requests and inquiries concerning reproduction and other rights to use are to be sent to the Communication Branch, Department of Health and Aged Care, GPO Box 9848, Canberra ACT 2601, or via e-mail to copyright@health.gov.au.

Overview

In Australia, vaccines against serious diseases are provided under the National Immunisation Program. Children receive these vaccines at key ages (called schedule points): 2, 4, 6, 12 and 18 months, and 4 years.

The National Immunisation Program also provides vaccines to adolescents, pregnant people, older people and other groups at risk of serious diseases.

The AusVaxSafety system actively monitors vaccine safety throughout Australia. Participating clinics send SMS messages to people receiving vaccines (or their parents and carers) to ask if they had any reactions after receiving a vaccine. These reactions are called adverse events.

Independent experts keep track of the responses to make sure that any safety issues are detected and investigated quickly.

The AusVaxSafety network is growing every year. In 2021, more than 340 immunisation clinics participated in the AusVaxSafety system.

Between January and December 2021, more than 540,000 SMS messages were sent, and more than 395,000 responses were received.

The overwhelming majority of adverse events after vaccination are mild and go away within a few days. No safety issues were identified for any vaccines monitored under AusVaxSafety.

The results confirm that vaccines in the National Immunisation Program are very safe.

What is AusVaxSafety?

AusVaxSafety is a national system for monitoring vaccine safety in Australia. The system is led by the **National Centre for Immunisation Research and Surveillance.** It is funded by the Australian Government Department of Health and Aged Care.

The AusVaxSafety system involves a range of collaborators around Australia.

Who does AusVaxSafety report to?

AusVaxSafety sends regular reports on vaccine safety to:

- the Australian Government Department of Health and Aged Care
- the Therapeutic Goods Administration (TGA)
- other key stakeholders, such as state and territory health departments.

AusVaxSafety also publishes vaccine safety information on its website: www.ausvaxsafety.org.au

How AusVaxSafety works

A few days after a person receives a vaccine at a participating immunisation clinic, the clinic sends an SMS message to that person, or to their parent or carer. The SMS asks whether the person had any reactions in the days after vaccination. They can respond 'Yes', 'No', or 'Stop' to opt out.

People who respond 'Yes' receive a short survey asking them to describe the adverse event.

AusVaxSafety monitors the responses closely. This means that any potential problems with vaccines can be detected and acted on early.

The responses are 'de-identified' to protect privacy. Any information that could identify the person sending the response or their child is removed.

In 2021, 341 immunisation provider sites participated in the AusVaxSafety system (Figure 1). The sites included general practices, hospitals, schools, community clinics and Aboriginal Medical Services.

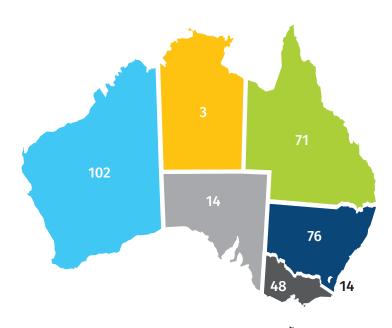
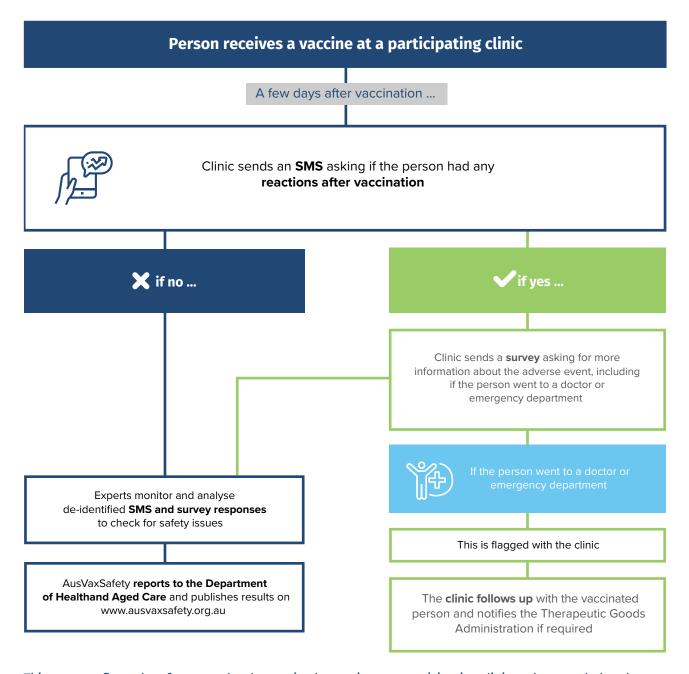


Figure 1 - Number of immunisation provider sites participating in AusVaxSafety, 2021.

How AusVaxSafety works



This report reflects data from people who received a vaccine at a participating clinic and responded to the SMS. It does not include data from every person who received a vaccine.

AusVaxSafety monitors adverse events that occur within 3 to 7 days after vaccination. The TGA also monitors adverse events that are reported in other ways. This means the TGA can detect safety issues that are reported outside the 3–7-day window, including rare adverse events.

Since the first AusVaxSafety report in 2016-17 ...

The number of participating sites has remained high across Australia, ensuring a high number of participants for surveillance.



The response rate to SMSs has remained high, so we can be confident that any safety issues would be identified.





More than 90% of respondents report **no adverse events**



Most adverse events after vaccination are **mild** and go away within a few days



The types and frequency of adverse events have remained as expected from clinical trials



No safety issues have been detected for any vaccines monitored under AusVaxSafety, which confirms that the vaccines used in the National Immunisation Program are very safe

Data on this page show the responses of individuals who received a vaccine on the 2 month schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

13,249



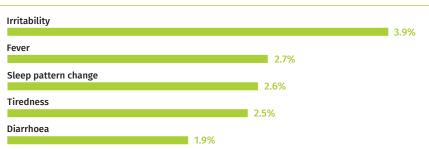
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 2 months in 2021

	Protects against
Infanrix hexa Diphtheria, tetanus, whooping cough, hepatitis B, <i>Haemophilus influenzae</i> type b, polio	
Rotarix	Rotavirus
Prevenar 13	Pneumococcal disease

Respondent demographics







Data on this page show the responses of individuals who received a vaccine on the 4 month schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

12,713



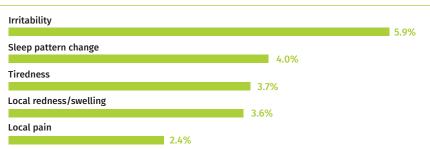
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 4 months in 2021

	Protects against
Infanrix hexa Diphtheria, tetanus, whooping cough, hepatitis B, <i>Haemophilus influenzae</i> type b, polio	
Rotarix	Rotavirus
Prevenar 13	Pneumococcal disease

Respondent demographics







Data on this page show the responses of individuals who received a vaccine on the 6 month schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

12,730



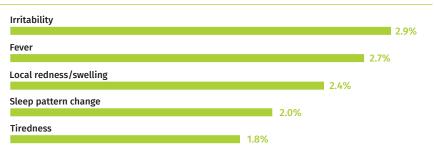
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 6 months in 2021

Protects against Infanrix hexa Diphtheria, tetanus, whooping cough, hepatitis B, Haemophilus influenzae type b, polio

Respondent demographics







Data on this page show the responses of individuals who received a vaccine on the 12 month schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

11,360



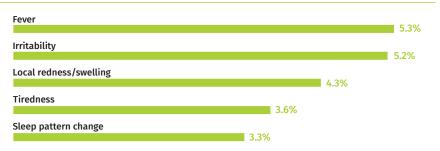
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 12 months in 2021

	Protects against
M-M-R II or Priorix	Measles, mumps, rubella
Nimenrix	Meningococcal disease (types A, C, W and Y)
Prevenar 13	Pneumococcal disease

Respondent demographics









Data on this page show the responses of individuals who received a vaccine on the 18 month schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

11,521



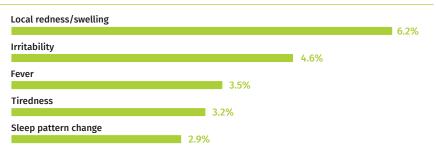
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 18 months in 2021

	Protects against
Priorix-tetra or ProQuad	Measles, mumps, rubella, chickenpox
Infanrix or Tripacel	Diphtheria, tetanus, whooping cough
Act-HIB	Haemophilus influenzae type b

Respondent demographics







Data on this page show the responses of individuals who received a vaccine on the 4 year schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

12,973



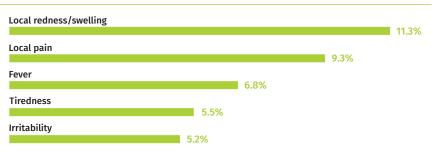
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 4 years in 2021

vacenies given at 1 years in 2021		
	Protects against	
Infanrix IPV or Quadracel	Diphtheria, tetanus, whooping cough, polio	

Respondent demographics







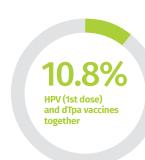
Data on this page show the responses of individuals who received a vaccine on the 12-13 years schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

17,678
HPV (1st dose)
and dTpa vaccines
together

12,165HPV vaccine (2nd dose) alone





Medical attendance



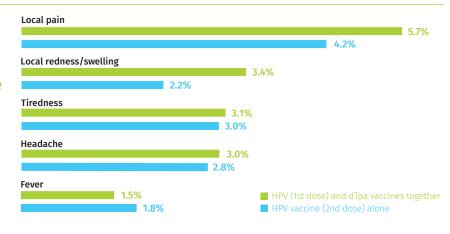


Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived.

As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 12-13 years in 2021

	Protects against
Gardasil 9	HPV (human papillomavirus)
Boostrix	Diphtheria, tetanus, whooping cough (dTpa)

Respondent demographics





3.0% identified as Aboriginal or Torres Strait Islander



Data on this page show the responses of individuals who received a vaccine on the 14-16 years schedule point and whose parent or carer completed an AusVaxSafety survey on their child's behalf sent in the days following vaccination.

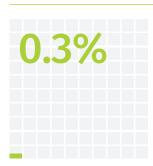
Safety surveys completed

Reported at least one adverse event

17,192



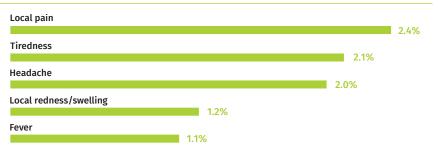
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given at 14-16 years in 2021

vaccines given at 11 10 years in 2021	
	Protects against
Nimenrix	Meningococcal disease (types A, C, W and Y)

Respondent demographics







Data on this page show the responses of pregnant individuals who received a vaccine on the pregnant people schedule point and completed an AusVaxSafety survey sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

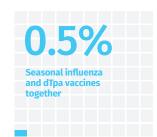
and dTpa vaccines





Medical attendance

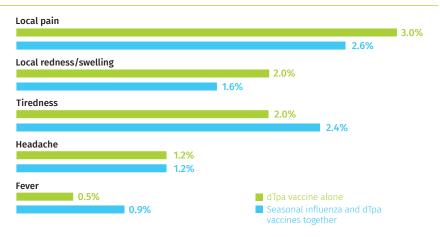




Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given to pregnant people in 2021

	Protects against
Afluria Quad, Fluarix Tetra, FluQuadri or Vaxigrip Tetra	Influenza
Adacel or Boostrix	Diphtheria, tetanus, whooping cough (dTpa)

Respondent demographics





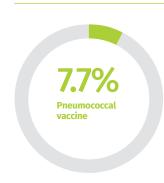
Data on this page show the responses of individuals who received a vaccine on the older adult schedule point and completed an AusVaxSafety survey sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event









Medical attendance

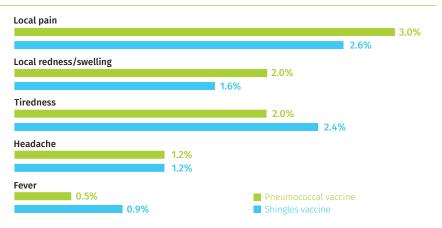




Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Vaccines given to older adults in 2021

	Protects against
Prevenar 13	Pneumococcal disease
Zostavax	Shingles

Respondent demographics







Data on this page show the responses of individuals (or their parent/carer) who received a seasonal influenza vaccine and completed an AusVaxSafety survey sent in the days following vaccination.

Safety surveys completed

Reported at least one adverse event

231,668



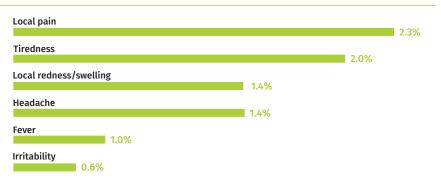
Medical attendance



Those who presented to GPs and emergency departments had similar adverse events to those who did not. AusVaxSafety does not specifically ask participants the reason why they accessed medical care in the days following vaccination. Therefore medical attendance reported may or may not be related to any adverse events reported.

Commonly reported adverse event

These symptoms are known to occur after vaccination. They are generally mild and short-lived. As with any adverse event reports, not all symptoms reported may be caused by the vaccine; they may be coincidental and due to other causes.



Influenza vaccines given in 2021

	Protects against
Afluria Quad, Fluad Quad, Fluarix Tetra, FluQuadri, Influvac Tetra, Vaxigrip Tetra	Influenza

Respondent demographics





