



Melbourne
VACCINE
EDUCATION
Centre



Zostavax update

Georgie Lewis & Adele Harris

SAEFVIC

Clinical Vaccinology Update

Monday 7th December 2020

COPY



Overview

- Disease and epidemiology
- Zostavax vaccine
- AEFI reporting (Power BI)
 - Error/Administration in immunocompromising condition
- Case studies
- Alerts
- What are we doing
 - Education
 - Melbourne Vaccine Education Centre (MVEC)
- Take home message

SAEFVIC

Surveillance of Adverse Events Following Vaccination in the Community

- Specialist service established in 2007
 - Monitoring of adverse events (passive surveillance) in adults and children
 - Individualised clinical assistance for patients and families affected by an AEFI
 - Paediatric & Adult Clinics
 - Referral to specialist allergy clinics as required
 - Supervised admissions
 - Telehealth
 - Maintaining the confidence of general public and immunisation providers in the national immunisation program.
 - Reports sent to ADRS who advise TGA
 - Any trends are notified and investigated quickly, with close liaison with Victorian and National Health Authorities
-

Herpes Zoster - Disease and epidemiology

- Herpes zoster (Shingles), is a reactivation of the varicella-zoster virus (VZV) in a person who has previously had varicella (chickenpox).
- The virus remains latent in the dorsal root ganglia and typically presents as a unilateral, painful self-limiting vesicular rash with a distinctive dermatomal distribution.
- Postherpetic neuralgia (PHN), a chronic neuropathic pain syndrome is the most common complication of herpes zoster. PHN can last for weeks or months, and occasionally, for years.
- The lifetime risk of reactivation of VZV is about 50% and this risk increases with age. Older people, particularly those aged over 70 years are also more likely to have shingles complicated by PHN.

Zostavax - vaccine

- A live attenuated vaccine against herpes zoster (Zostavax[®]) was licensed in Australia in 2006.
- The vaccine contains live attenuated varicella-zoster virus. The amount of virus in the zoster vaccine is approximately 14 times greater than in varicella (chickenpox) vaccines.
- The dose of Zostavax is 0.65 mL given by subcutaneous injection.
- Mild injection site reactions such as pain, redness and swelling are likely to occur in approximately 50% of vaccine recipients
- Protection from vaccination tends to decline over time and with older age at vaccination. A booster dose is not currently recommended.
- Shingles cases should still be considered for treatment with antiviral therapy and analgesia, regardless of the patient's immunisation status.

Zoster - Vaccination

Who should be vaccinated

- Zostavax[®] (shingles vaccine) is registered for use in people aged 50 years and over as a single dose. Unless otherwise contraindicated, The Australian Immunisation Handbook recommends a zoster vaccine for all adults 60 years and older who have not previously received a dose.
- Since November 2016, Zostavax[®] has been funded under the National Immunisation Program for persons aged 70 years, with catch-up for those aged 71–79 years also funded until October 2021.
- Vaccination of people aged 70–79 years is estimated to prevent about 41% of the cases of shingles and two-thirds of post-herpetic neuralgia cases in that population. In vaccinated people in whom an episode of shingles occurs, the pain, severity and duration is reduced by 50%.

Who should *not* be vaccinated

- People who are immunocompromised, pregnant women, and those who have previously had anaphylaxis to any VZV-containing vaccine or its components should *not* receive the zoster vaccine.

Zoster

Latest Data Extract

11/29/2020 5:06:31 PM

272

Count of EventId

VaccineName, EventId

▼ ■ Zostavax

NOTES:

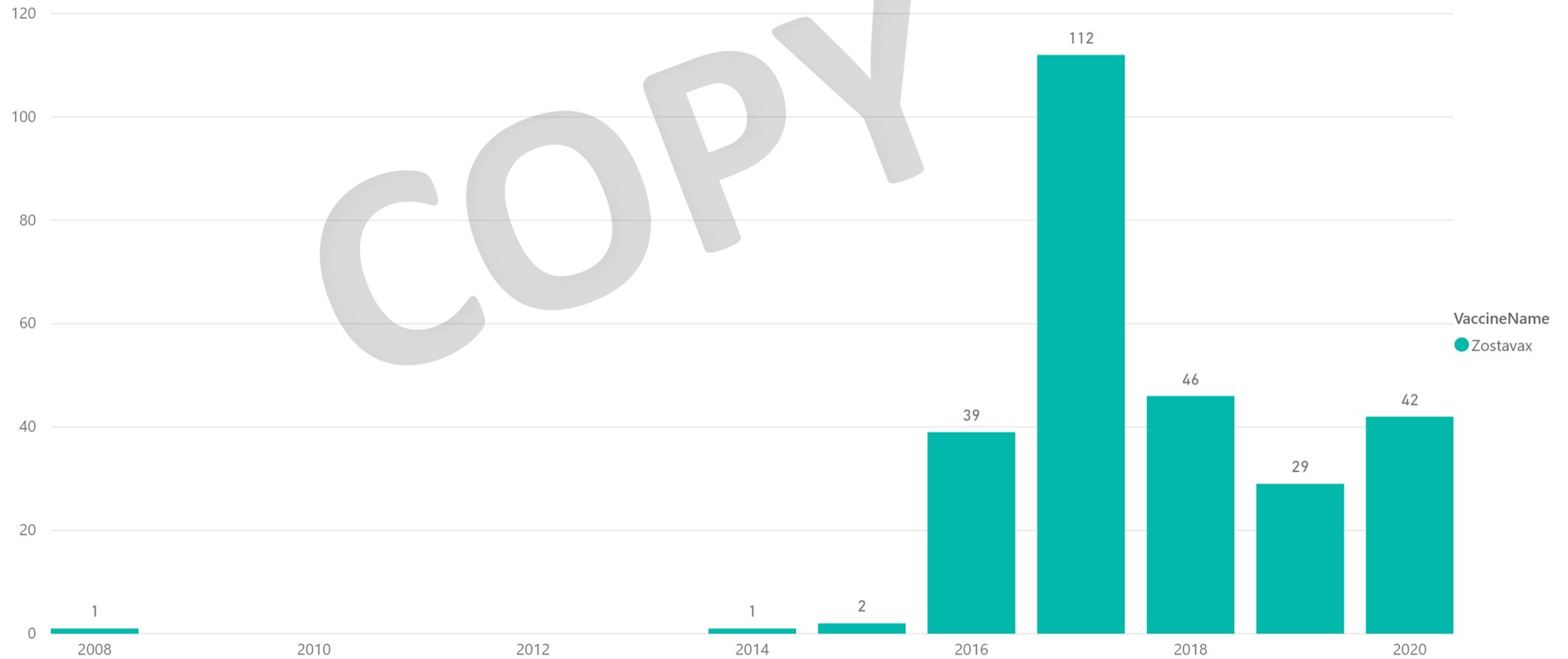
Zoster vaccine administered to older persons for prevention of shingles

Commenced XXXX

Restricted to Victoria

Zoster

Persons reporting an AEFI with Influenza vaccine, 2020 ytd



Year, Quarter,...

- Select all
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- Qtr 1
- Qtr 2
- Qtr 3
- Qtr 4

Zoster

ReportedDate

2/9/2007

11/27/2020



Year	Count of EventId
	1
2007	544
2008	842
2009	1127
2010	1056
2011	1104
2012	902
2013	1182
2014	1320
2015	1377
2016	1434
2017	1808
2018	1732
2019	1962
2020	1845
Total	18236

VaccineGroup	Count of EventId
Cholera	3
DTP	8866
Flu	3201
HepA	179
HepB	4026
Hib	4893
HPV	1909
immunoglobulin	80
JE	3
Meningococcal	2030
MMR	4108
NO VACCINE	210
Other	359
Panvax	359
Pneumococcal	4729
Polio	6539
Rotavirus	3236
TB	254
Typhoid	134
Unknown	6
Varicella	1809
Yellow Fever	25
Zoster	272
Total	18236

Zostavax

Year	Quarter	Count of EventId
2008	Qtr 2	1
2014	Qtr 3	1
2015	Qtr 4	2
2016	Qtr 2	1
2016	Qtr 3	1
2016	Qtr 4	37
2017	Qtr 1	51
2017	Qtr 2	28
2017	Qtr 3	24
2017	Qtr 4	9
2018	Qtr 1	9
2018	Qtr 2	14
2018	Qtr 3	13
2018	Qtr 4	10
2019	Qtr 1	8
2019	Qtr 2	12
2019	Qtr 3	4
2019	Qtr 4	5
2020	Qtr 1	8
2020	Qtr 2	13
2020	Qtr 3	14
2020	Qtr 4	7
Total		272

DoseNumber	Count of EventId
1	202
2	69
99	2
Total	273

BatchNumber	Count of EventId
-	76
10171	1
256092C1A	1
5018176	1
5034167	1
AO18176	1
H043345	1
M006056	2
M029109	5
m038137	1
M038139	6
M039225	12
M039226	6
M042524	1
M042527	4
M042528	3
M04258	1
M042707	1
M043345	5
M043345 04/18	1
M043350	2
M045442	1
M046454	9
m046454 (After 4 days)	1
M046455	5
MO29109	1
MO39225	1
MO45442	1
N001389	1
N001402	9
Total	273

Zoster

Report date:

1/1/2007

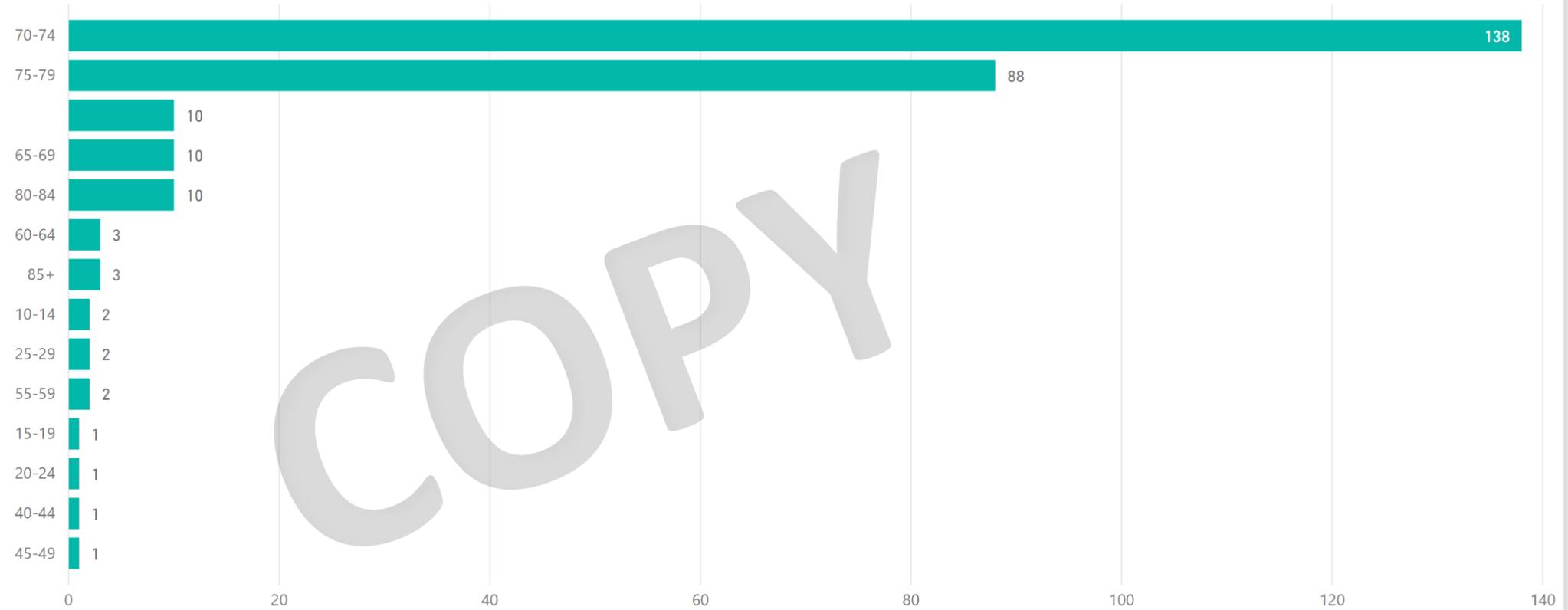
2/1/2021



AgeGroup

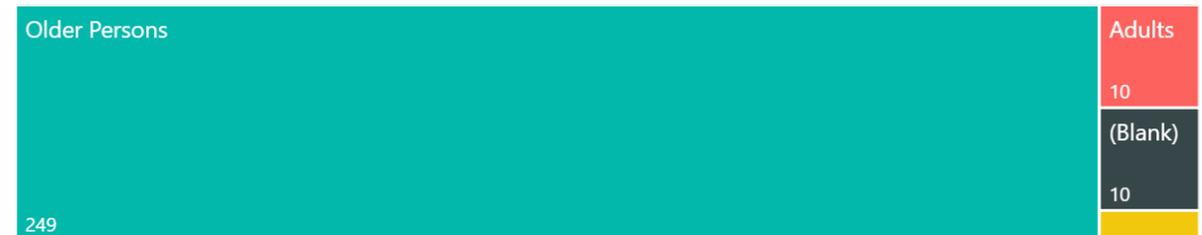
- Select all
-
- 10-14
- 15-19
- 20-24
- 25-29
- 40-44
- 45-49
- 55-59
- 60-64
- 65-69
- 70-74
- 75-79
- 80-84
- 85+

Count of EventId by AgeGroup



AgeStage	2008	2014	2015	2016	2017	2018	2019	2020	Total
			2	1	4	3			10
School-Aged					3				3
Adults	1	1		2	1			5	10
Older Persons				36	104	44	29	37	250
Total	1	1	2	39	112	47	29	42	273

Count of EventId by AgeStage



Zoster

ReportedDate

1/1/2007

2/1/2021

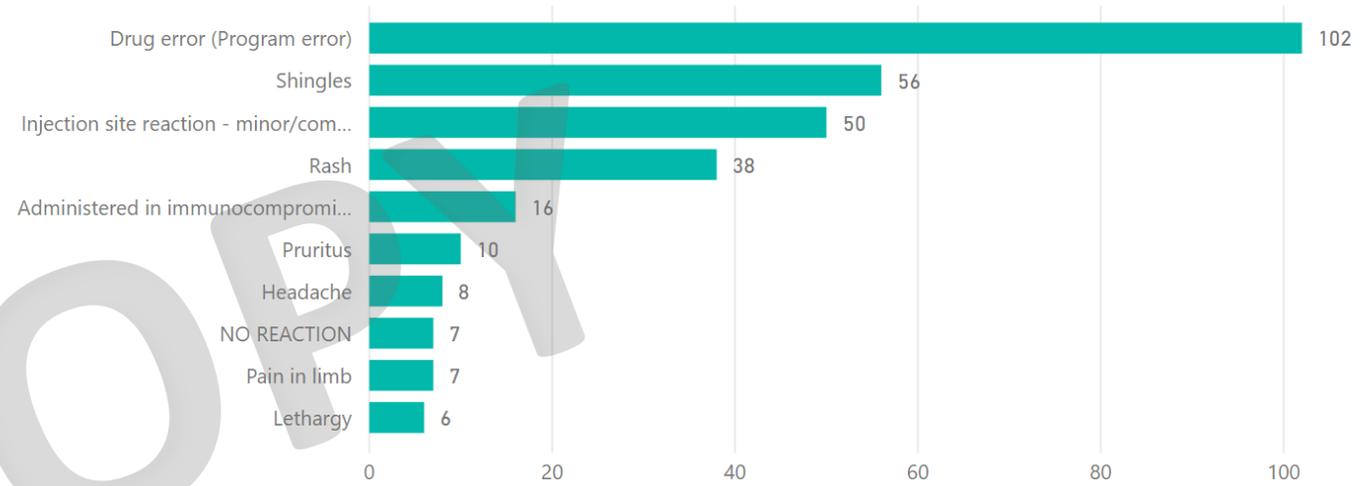


ReactionName

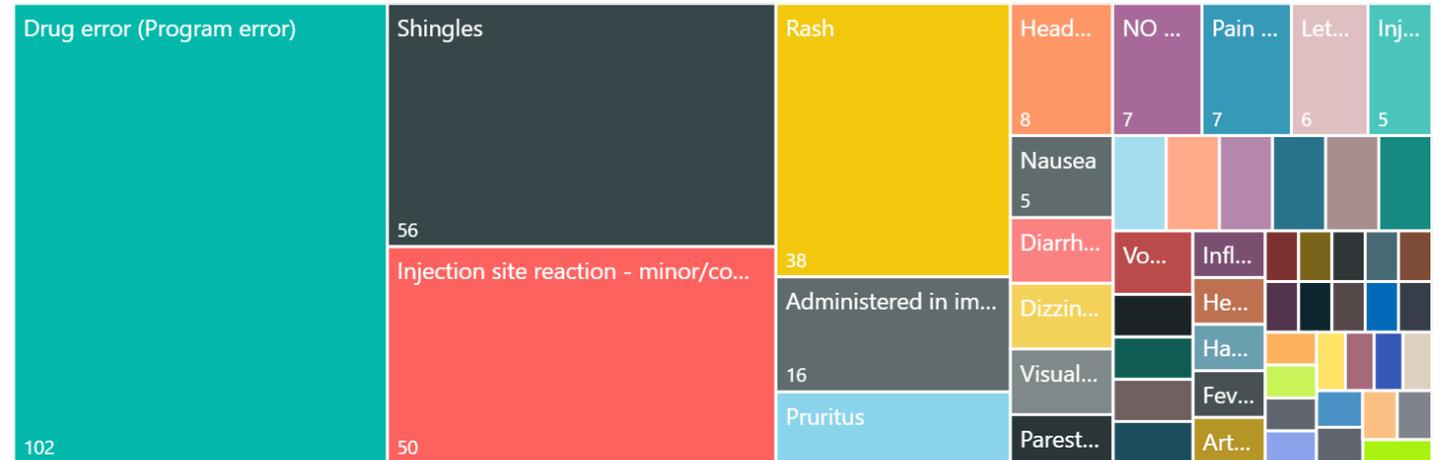
- Abdominal pain
- Administered in i...
- Allergic reaction ...
- Altered oral sens...
- Altered sensation
- Altered throat se...
- Angioedema
- Arthralgia
- Blistering
- Bursitis
- Cardiac symptoms
- Cellulitis at inject...
- Chickenpox
- Diarrhoea
- Dizziness
- Drug error (Prog...

ReactionName	Count of EventId
Abdominal pain	1
Administered in immunocompromising condition	16
Allergic reaction (generalised)	1
Altered oral sensation	1
Altered sensation	1
Altered throat sensation	1
Angioedema	3
Arthralgia	2
Blistering	3
Bursitis	1
Cardiac symptoms	3
Cellulitis at injection site	3
Chickenpox	1
Diarrhoea	4
Dizziness	4
Drug error (Program error)	103
Eye discharge	1
Fever (unspecified)	2
Granuloma	1
Haematoma	2
Headache	8
Headache (severe)	1
Hearing loss	2
Herpes Simplex Virus	1
Herpes Zoster Ophthalmicus	1
Influenza-like-illness	2
Injection site reaction - minor/common/expected	50
Injection site reaction - severe	5
Lethargy	6
Lymphadenopathy	3
Lymphoma	1
Total	273

Count of EventId by ReactionName



Count of EventId by ReactionName



Zoster

Year, Quarter, Mo...

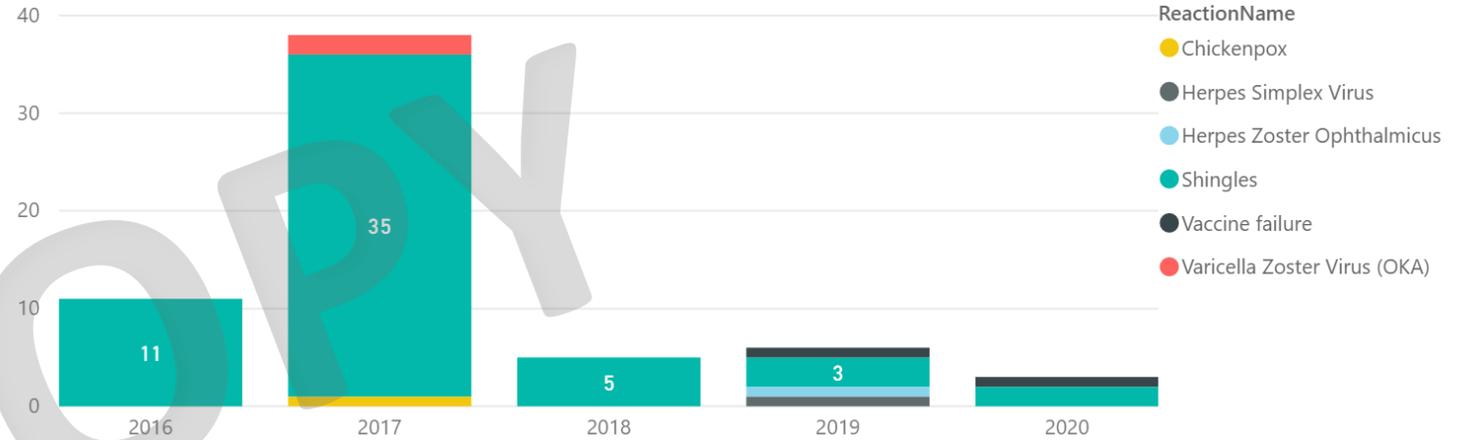
- Select all
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020

61

Count of EventId

ReactionName	2016	2017	2018	2019	2020	Total
Chickenpox		1				1
Herpes Simplex Virus				1		1
Herpes Zoster Ophthalmicus				1		1
Shingles	11	35	5	3	2	56
Vaccine failure				1	1	2
Varicella Zoster Virus (OKA)		2				2
Total	11	38	5	5	2	61

COUNT



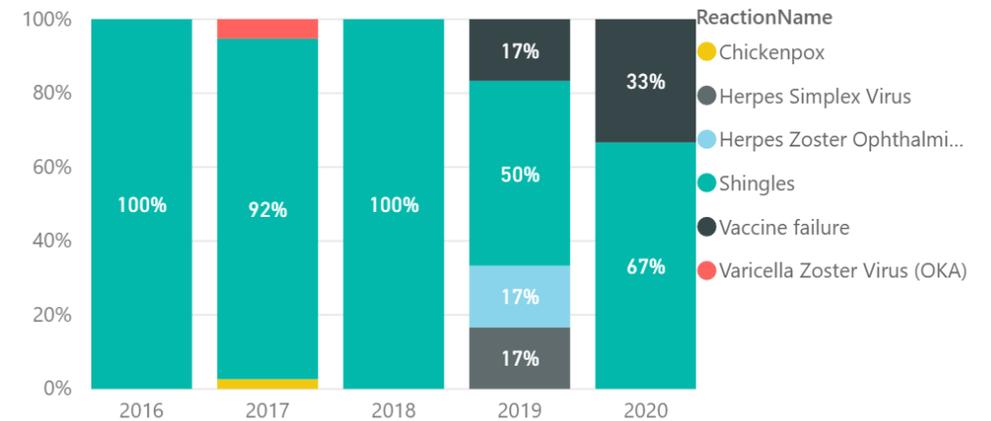
Count of EventId by ReactionName



ReactionName

- Abdominal pain
- Administered in immunocompromi...
- Allergic reaction (generalised)
- Altered oral sensation
- Altered sensation
- Altered throat sensation
- Angioedema
- Arthralgia
- Blistering

PERCENT

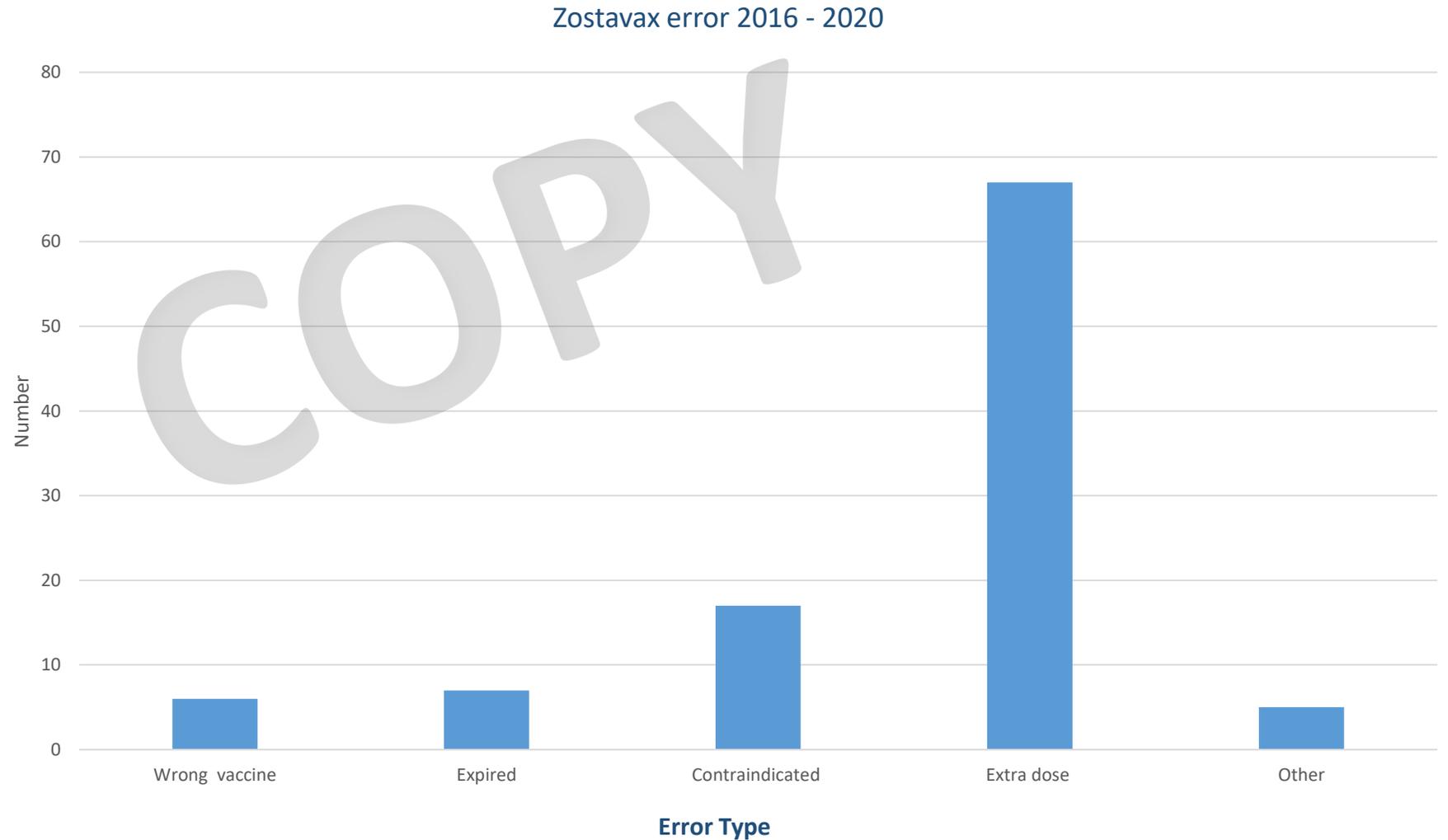


VZV related AEFI

- 61/272 (22%) reports of Varicella virus related AEFI
- **Shingles**
 - 56 reports of shingles following a Zostavax[®] vaccine
 - 27/56 (48%) clinically diagnosed (no swab)
 - 28/56 (50%) swabbed and 78% positive for varicella zoster virus
- **VZV (OKA)**
 - 2 Varicella Zoster Virus (OKA) – vaccine strain
 - PHx CLL (quiescent) 2 weeks following zostavax
 - DHHS notification

Drug errors related to Zostavax

- Extra dose = 67
- Contraindicated = 17
- Expired vaccine = 7
- Wrong vaccine = 6
- Other = 5



© 2017 Ted Goff



Errors where Zostavax[®] is contraindicated

- People who are or have recently been immunocompromised due to a medical condition or medical treatment are contraindicated to receive the Varicella Zoster vaccine
- On rare occasions, disseminated varicella-zoster virus (Oka vaccine strain) infection can occur in patients and in severe cases this can lead to death

Zostavax[®] administration in contraindicated individuals reported to SAEFVIC from 2016 include:

- Individuals with Chronic Lymphocytic Leukaemia (CLL)
- Individuals with malignancies on active treatment
- Pregnancy
- Individuals with dermatological conditions on immunosuppressive therapies
- Individuals with rheumatoid arthritis on immunosuppressive therapies

Why are these errors so concerning?

Live zoster vaccination in an immunocompromised patient leading to death secondary to disseminated varicella zoster virus infection

Kate E. Alexander, Philip L. Tong, Kristine Macartney, Rohan Beresford, Vicky Sheppard and Monisha Gupta

- Zostavax[®] administered in an immunocompromised patient with chronic lymphocytic leukemia (CLL)
- No evidence of primary varicella zoster virus (VZV) infection
- Presented to ED twice and treated for URTI
- 22 days after receiving Zostavax[®] the patient presented with a bilateral vesicular facial rash
- Managed as an outpatient with oral acyclovir
- Re-presented three days later and was diagnosed with disseminated VZV infection complicated by meningoencephalitis
- The patient died following cardiac arrest on day 10 of hospitalisation.

Zostavax GP decision aid



LIVE SHINGLES VACCINE (Zostavax) SCREENING FOR CONTRAINDICATIONS

Name:

Date of birth:

Questions – This section can be completed by the Health Care Provider/Patient/Guardian

Note for Patient/Guardian: If you are unsure about an answer, please leave it blank and discuss with your Health Care Provider

1. Have you ever had a shingles vaccine before? Y/N

When:

2. Do you feel unwell today? Y/N

Details:

3. Have you had shingles or post herpetic neuralgia (nerve pain following shingles) in the past year? Y/N

Details:

Guide to safe doses of immunosuppressive therapy for Zostavax administration:

Mechanism of action	Examples*	Safe dose**	Comments
Anti-TNF	Etanercept Infliximab Adalimumab	NONE	Vaccinate 1 month before treatment initiation OR 12 months after treatment cessation
IL-1 inhibition	Anakinra	NONE	
Costimulation blockade	Abatacept	NONE	
B-cell depletion/inhibition	Rituximab	NONE	Vaccinate 1 month before treatment initiation OR 3 months after treatment cessation
Immunomodulators (antimetabolites)	Azathioprine 6-Mercaptopurine Methotrexate	≤3.0 mg/kg/day ≤1.5 mg/kg/day ≤0.4 mg/kg/week	
Corticosteroids	Prednisone	Any dose when duration <14 days OR <20 mg/day when duration ≥14 days	If ≥20mg/day for ≥14 days, vaccinate 1 month before treatment initiation OR 1 month after treatment cessation
T-cell activation/inhibition	Tacrolimus Cyclosporine	NONE	Vaccinate 1 month before treatment initiation OR 3 months after treatment cessation
Others	Cyclophosphamide Mycophenolate	NONE	

* **NOTE:** This is not a complete list of all licensed biologics, or medications within each class, but serves as a guide only.

** Refer to *The Australian Immunisation Handbook* 10th edition, Chapters 3.3.3 and 4.24.

Case Study 1

- 72 year old male with history mesothelioma presented to GP and received Zostavax[®] vaccine
- 2 days later presented back to GP with vesicular rash to chest and back
- GP contacted SAEFVIC for advice and revealed patients medical history
- Patient had received chemotherapy 2 weeks prior to immunisation
- SAEFVIC advised GP to immediately recall patient and advise to present to ED
- ID consultant notified and recommend commencement of antivirals and swab of rash
- Patient admitted and treated with 4 days of IV acyclovir the discharged on oral acyclovir

What went wrong???

- GP did not utilise GP decision aid prior to administration of Zostavax[®]
 - Vaccine was documented in the software system **after** administration which then alerted GP that the vaccine was contraindication
 - GP did not seek any advice until the patient represented with rash 2 days post administration
-

Case Study 2

- 71 year old female with psoriasis presented to GP for Zostavax[®] on advice from dermatologist
- Patient receiving Infliximab (monoclonal antibody) infusions for treatment of psoriasis
- Post administration of Zostavax[®] vaccine GP realised this was contraindicated for this patient
- SAEFVIC called and advised to seek urgent ID opinion
- Patient had rash appear 3 days later and Valtrex commenced and swab of rash sent
- Nil documented serology or hx varicella disease

What went wrong?

- ?Dermatologist not aware of potential harm
- GP decision aid not used prior to administration

How to avoid these errors

Pre-immunisation checklist

What to tell your doctor or nurse before immunisation

This checklist helps your doctor or nurse decide the best immunisation schedule for you or your child.

Please tell your doctor or nurse if the person about to be immunised:

- is unwell today
- has a disease which lowers immunity (for example, leukaemia, cancer, HIV, SCID) or is having treatment which lowers immunity (for example, oral steroid medicines such as cortisone and prednisone, disease-modifying anti-rheumatic drugs (DMARDs), radiotherapy, chemotherapy)
- is an infant of a mother who was receiving highly immunosuppressive therapy (for example, biological disease modifying anti-rheumatic drugs (bDMARDs) during pregnancy)
- has had a severe reaction following any vaccine
- has any severe allergies (to anything)
- has had any vaccine in the past month
- has had an injection of immunoglobulin, or received any blood products, or a whole blood transfusion in the past year
- is pregnant
- is planning a pregnancy or anticipating parenthood
- is a parent, grandparent or carer of an infant aged up to six months
- has a past history of Guillain-Barré syndrome
- was a preterm baby born at less than 32 weeks gestation, or weighing less than 2000 g at birth
- is a baby who has had intussusception, or a congenital abnormality that may predispose to intussusception
- has a chronic illness
- has a bleeding disorder
- does not have a functioning spleen
- lives with someone who has a disease which lowers immunity (for example, leukaemia, cancer, HIV), or lives with someone who is having treatment which lowers immunity (for example, oral steroid medicines such as cortisone and prednisone, disease modifying anti-rheumatic drugs (DMARDs) radiotherapy, chemotherapy)
- identifies as an Aboriginal and/or Torres Strait Islander person
- is planning travel
- has an occupation or lifestyle factor/s for which vaccination may be needed.

Before any immunisation takes place, your doctor or nurse will ask you:

- Do you understand the information provided to you about the immunisation/s?
- Do you need more information to decide whether to proceed?
- Did you bring your / your child's immunisation record with you?

It is important for you to receive a personal record of your or your child's immunisation/s. If you don't have a record, ask your doctor or nurse to give you one. Bring this record with you for your doctor or nurse to complete every time you or your child visit for immunisation. Your child may need this record to enter childcare, preschool or school.

For further information contact your doctor or local council.

Material adapted from: Australian Technical Advisory Group on Immunisation (ATAGI). Australian Immunisation Handbook, Australian Government Department of Health, Canberra, 2018, immunisationhandbook.health.gov.au.

To receive this document in an accessible format email: immunisation@dhhs.vic.gov.au

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© State of Victoria, November 2019. (1911561).



LIVE SHINGLES VACCINE (Zostavax) SCREENING FOR CONTRAINDICATIONS

Name: _____

Date of birth: _____

Questions – This section can be completed by the Health Care Provider/Patient/Guardian

Note for Patient/Guardian: If you are unsure about an answer, please leave it blank and discuss with your Health Care Provider

1. Have you ever had a shingles vaccine before? Y/N
When: _____
2. Do you feel unwell today? Y/N
Details: _____
3. Have you had shingles or post herpetic neuralgia (nerve pain following shingles) in the past year? Y/N
Details: _____
4. Have you had a serious allergic reaction (anaphylaxis) to a previous dose of shingles or varicella (chickenpox) vaccine or any vaccine components including neomycin or gelatin? Y/N
Details: _____
5. Have you ever had cancer, leukaemia, lymphoma, an organ, bone marrow transplant, stem cell therapy, or another health condition that weakens your immune system, including blood disorders, graft versus host disease or HIV/AIDS? Y/N
Details: _____
6. In the past 12 months, have you been on any treatment for rheumatoid arthritis, multiple sclerosis, psoriasis, polymyositis, sarcoidosis, inflammatory bowel disease or other inflammatory conditions? Y/N
Details: _____
7. In the last 12 months have you taken medicine that weakens your immune system such as oral prednisolone, or other steroids, anti-cancer drugs, biological therapy, radiotherapy or chemotherapy? Y/N
Details: _____
8. Have you been treated recently with oral antiviral medication such as aciclovir for conditions such as herpes? Y/N
Details: _____

Outcome – This section is to be completed by Health Care Providers ONLY (check relevant boxes)

- There are no contraindications to Zostavax vaccination. Discussion of side effects of vaccination has occurred and informed consent for vaccination obtained
- Zostavax is contraindicated
- Zostavax should be delayed
 - until recovery from acute illness
 - until treatment is completed and for ____ months afterwards
 - until current episode of shingles has resolved and for a minimum of 1 year
- Specialist advice regarding immune status is required. Not for vaccination at this time.

Date: _____

Provider: _____

TGA Alert

Zostavax vaccine

Safety advisory - not to be used in people with compromised immune function

6 July 2020

The Therapeutic Goods Administration (TGA) has [previously advised](#) that Zostavax should not be used in people with compromised immune function, as it is associated with a risk of mild to serious complications (including death) from infection with the vaccine virus.

Consumers and health professionals are advised that the TGA has received a report of a new case involving this adverse event in a patient on low doses of immunosuppressive medicine.

The patient, who at the time of vaccination was taking hydroxychloroquine and a low dose of prednisolone to treat arthritis, died 3 weeks after receiving Zostavax.

The TGA investigation found that Zostavax was used in line with existing recommendations. However, it is important for health professionals to be mindful of the potential for this very rare adverse event.

Zostavax is a live, [attenuated varicella-zoster virus vaccine](#) that is used to prevent shingles in patients aged 50 years and older and prevention/treatment of nerve pain associated with the virus in patients aged 60 years and older.

Zostavax is included on the [National Immunisation Program](#) [↗] for people aged 70 to 79 years.

Vaccine side effects

Please wait a minimum of 15 minutes after immunisation

Vaccines given today ____ / ____ /20____ indicated below by tick in boxes. Time vaccine given _____.

Rotavirus vaccine	Diphtheria-tetanus-whooping cough-polio-hepatitis B-Hib* vaccine	Pneumococcal vaccine	Meningococcal ACWY vaccine
Some babies will shed the rotavirus in their faeces. By mouth	*Haemophilus influenzae type b RA LA RL LL	RA LA RL LL	RA LA RL LL
Haemophilus influenzae type b (Hib)	Diphtheria-tetanus-whooping cough vaccine	Measles-mumps-rubella-chickenpox vaccine	Measles-mumps-rubella vaccine
RA LA RL LL	Some 18-month-olds have a large injection site reaction of redness and swelling from the shoulder to the elbow which parents should report to the immunisation provider or the Victorian vaccine safety service (contact details overleaf). RA LA	About 7 to 10 days after vaccination: • fever (can be >39 °C) • faint red rash (not infectious) • head cold symptoms • swelling of salivary glands. About 5 to 26 days after vaccination: • mild chickenpox-like rash. RA LA RL LL	About 7 to 10 days after vaccination: • fever (can be >39 °C) • faint red rash (not infectious) • head cold symptoms • swelling of salivary glands. RA LA RL LL
Diphtheria-tetanus-whooping cough-polio vaccine	Human papillomavirus (HPV) vaccine	Chickenpox vaccine	Meningococcal B
Some 4-year-olds have a large injection site reaction of redness and swelling from the shoulder to the elbow which parents should report to the immunisation provider or the Victorian vaccine safety service (contact details overleaf).	• mild headache • mild nausea.	About 7 to 10 days after vaccination: • fever (can be >39 °C) About 5 to 26 days after vaccination: • fever • mild chickenpox-like rash. RA LA RL LL	• fever (can be >39 °C) • Bexsero brand for children aged less than 4 years, give paracetamol in the 30 minutes before vaccination, or as soon as possible after vaccination. This should be followed by 2 more doses of paracetamol given 4 to 6 hours apart. RA LA RL LL
Zoster (shingles) vaccine	Polio vaccine	Hepatitis B vaccine	
<ul style="list-style-type: none"> redness, pain, swelling and/or itch at the injection site see over page for rare reportable events. RA LA	• muscle aches. RA LA RL LL	RA LA RL LL	

Common side effects occur soon after vaccination and last 1 to 2 days

Vaccinations may cause the following reactions:



Mild fever (>38.5 °C) that doesn't last long



Grizzly, unsettled, unhappy or sleepy



Where the needle was given. Some red, burning, itching or swelling for 1-2 days and/or small hard lump for a few weeks

What to do at home:



If baby/child has a fever do not have too many clothes or blankets on. Paracetamol can be given (check the label for correct use)



Breast feed more frequently and/or give extra fluids



Put a cold wet cloth on the injection site.

When to seek medical advice:



If pain and fever are not relieved by paracetamol (eg. Parasetol)



If the reactions are not going away or getting worse or if you are worried at all, then see your doctor or go to hospital.



Very rare vaccine side effects requiring immediate medical attention

- **Febrile convulsion:** caused by a high fever, generally occurs in children under 3 years of age.
- **The baby suddenly becomes pale, limp and unresponsive** from 1 to 48 hours after vaccination. Soon after the baby fully recovers.
- **Bowel blockage (intussusception):** occurs when a portion of the bowel slides into the next, like the pieces of a telescope. This can occur in a baby in the 7 days following the 1st and 2nd dose of rotavirus vaccine. Signs of bowel blockage include:
 - bouts of crying
 - pale appearance
 - pulling the legs up to the stomach.
- **Inflammation of a nerve in the arm (Brachial neuritis):** causes a feeling of weakness or numbness in the arm.
- **A severe allergic reaction (anaphylaxis)** occurring suddenly, usually within 15 minutes of vaccine administration but can occur within hours of administration. Early signs of anaphylaxis include:
 - redness and or itching of the skin
 - breathing problems.

- After receiving a shingles (Zostavax) vaccine, the following reactions may occur:
 - Chickenpox-like rash within 3 to 4 weeks after vaccine administration
 - feeling unwell /fever.

For further information: Contact your doctor or your local council immunisation service.
Or visit: www.betterhealth.vic.gov.au

To receive this publication in an accessible format email: immunisation@dphh.vic.gov.au
Material adapted from Australian Technical Advisory Group on Immunisation (ATAGI). Australian Immunisation Handbook, Australian Government Department of Health, Canberra, 2018, immunisationhandbook.health.gov.au.
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Available at: <https://www2.health.vic.gov.au/about/publications/factsheets/vaccine-side-effects>
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Alerts

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Department of Health
Therapeutic Goods Administration

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Zostavax vaccine

Safety advisory - not to be used in people with compromised immune function

6 July 2020

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145 Macquarie Street Sydney NSW 2000 Australia
Telephone (02) 9252 2356
Email: admin@rheumatology.org.au
Website: www.rheumatology.org.au
ABN 16 002 876 520 ACN 002 876 520

Vaccination update 10 July 2020

Zoster vaccination

The TGA has issued a safety advisory following a Zostavax related death in a patient taking hydroxychloroquine and prednisone 'below the level expected to cause significant immunosuppression'.

<https://www.tga.gov.au/alert/zostavax-vaccine-0>

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TGA safety warning for Zostavax® vaccine in immunocompromised patients



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NEWS

VACCINATION SAFETY ALERT

Warning issued after the death of an immuno-compromised patient following Zostavax administration

The Therapeutic Goods Administration has reiterated previous warnings about administering the Zostavax shingles vaccine to patients with immune systems deficiencies.

Education

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Welcome to MVEC

The Melbourne Vaccine Education Centre (MVEC) is an online initiative which provides up-to-date immunisation information for healthcare professionals, parents and the public.

MVEC content aims to address common queries around vaccines and to promote the benefits of immunisation for both children and adults.

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Zoster

What is it?

Shingles is caused by the varicella zoster virus (VZV), the same virus that causes [chickenpox](#). After a person recovers from chickenpox, the virus stays in the body in a dormant (inactive) state. For reasons that are not fully known, the virus can reactivate (usually years later), causing shingles.

What to look for

Shingles usually starts as a painful rash on one side of the face or body. The rash forms blisters that typically scab over in 7 – 10 days and clears up within 2 – 4 weeks. Before the rash develops, there is often pain, itching, or tingling in the area where the rash will develop. This may happen anywhere from 1 to 5 days before the rash appears. Other symptoms of shingles can include fever, headache, chills, and upset stomach.



Zoster vaccine (Zostavax®) FAQs

MVEC's Zoster vaccine (Zostavax®) FAQ's have been designed for providers to use in conjunction with the [MVEC: Zoster immunisation reference page](#) as well as the [Zostavax® GP Decision Aid](#). Where further clarification of circumstances or patient history is required, it is safest to delay vaccination until more information is available.

General zoster vaccine questions

1. Who should be immunised?

Zostavax® is registered for use in Australia as a single dose from 50 years of age for the prevention of zoster (shingles). It is recommended for immunocompetent adults aged over 60-years. Zostavax® is funded on the National Immunisation Program (NIP) for people aged 70-years, with a catch up program for people aged 71-79-years (ending October 2021). It is also available for private purchase for patients wishing to be immunised outside of this funded age group. There is currently no recommendations for booster doses when early vaccination is given.

2. Can Zostavax® be recorded on the Australian Immunisation Register (AIR)?

Zostavax® should be recorded on the [AIR](#) to ensure that immunisation records are accurate and up to date. Patient recall should **never** be relied on for vaccine history and therefore accurate documentation will assist in avoiding any errors where multiple doses are administered.

3. What are the side effects of Zostavax® vaccine?

Common side effects include pain, swelling and redness at the injection site.

Summary- Take home message

- People who are or have recently been immunocompromised due to a medical condition or medical treatment are **contraindicated** to receive the varicella zoster vaccine
- Always use the pre immunisation checklist and GP decision aid **before** administering Zostavax[®] and consider the safety of giving zoster vaccine on a case-by-case basis
- If uncertain about the person's level of immunocompromise and whether vaccination is safe, **do not** vaccinate. Seek expert advice from the treating physician or an immunisation specialist
- If a recent Zostavax[®] recipient is suspected of having disseminated varicella-zoster virus infection know how to manage/treat
 - conduct appropriate diagnostic testing early
 - where appropriate, initiate antivirals empirically while awaiting test results
 - where feasible, cease immunosuppression.
 - **Notify** SAEFVIC -Victorian Vaccine Safety Service immediately: Telephone 1300 882 924 (option one)





Thank you

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