

Republic of the Philippines Department of Health FOOD AND DRUG ADMINISTRATION



Reports of Suspected Adverse Reaction to COVID-19 Vaccines (01 March to 04 April 2021)

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About the report

- A summary is presented below of all received suspected adverse reaction reports following COVID-19 vaccination from 01 March 2021, the date when the first vaccine became available, up to 04 April 2021.
- Two (2) vaccines under Emergency Use Authorization (EUA) are currently being used in the vaccination program: the SARS-CoV-2 Vaccine (Vero Cell) Inactivated, [CoronaVac] and COVID-19 Vaccine AstraZeneca.
- Data are based on VigiFlow, the national database of adverse reactions in the Philippines. It includes reports from hospitals, various epidemiology surveillance units (ESUs) of the Department of Health, and patients/consumers.
- Symptoms or diseases that occur after vaccination are reported if there is a *suspicion* of a possible link. However, it cannot be assumed that there is a causal relationship between the suspected adverse reaction and the vaccine.
- This report contains all suspected adverse reactions regardless of any possible causal relationship.
- Additional information may become available in individual case reports at any time which may change the assessment and figures presented.
- Adverse reaction reports are necessary for the safety assessment of the vaccines, making sure that the benefits always outweigh the risks.
- Reports are constantly reviewed and monitored for the possible emergence/identification of unknown adverse reactions also known as signal. If a signal is identified, investigations, regulatory actions, and timely communication is performed by the FDA.
- A weekly report is published to summarize reported adverse reactions to the COVID-19 vaccines.

Summary

This report is based on an assessment of adverse reaction reports received by 04 April 2021. As per benefit-risk assessment, these reports do not provide a basis for revising the current recommendations regarding use of the COVID-19 vaccines.

The reports received have no new indications of unexpected adverse reactions. The reported reactions are generally in line with what is described in the product information and labels. Most of the reports are minor adverse reactions which include body pain, chills, fatigue, fever, headache, nausea, and pain in the injection sites. These usually appear on the first or second day of vaccination and may last for 2-3 days. Most people tolerate these adverse reactions while others experience greater discomfort.

COVID-19 vaccines with emergency use authorization in the Philippines

At present, there are four (4) COVID-19 vaccines granted emergency use authorization:

- Pfizer-BioNTech COVID-19 Vaccine (BNT162b2)
- ChAdOx1-S [recombinant] (COVID-19 Vaccine AstraZeneca)
- SARS-CoV-2 Vaccine (Vero Cell), Inactivated (CoronaVac)
- Gam-COVID-Vac (Sputnik V)

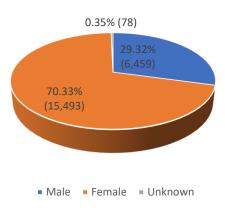
Pfizer-BioNTech COVID-19 vaccine is an mRNA vaccine, COVID-19 Vaccine AstraZeneca and Sputnik V are viral vectors, and CoronaVac is an inactivated vaccine. All are administered in two doses within an interval of a few weeks.

Statistics regarding reports of suspected adverse reactions

As of 04 April 2021, more than 810,000 individuals were vaccinated with their first dose of CoronaVac and COVID-19 vaccine AstraZeneca and more than 13,000 have received their second dose of CoronaVac. A total of 22,030 suspected adverse reaction reports were received, evaluated, and analyzed by the FDA.

Demographics

To provide a descriptive overview of the population reporting adverse reactions from COVID-19 vaccines.



< 18 years 0.005% (1) 32.51% 18-29 years (7,163)34.37% 30-39 years 17.91% (7,572)40-49 years (3,946)10.47% 50-59 years (2,306)60-75 years 3.60% (793) > 75 years 0.08% (17) Unknown 1.05% (232) 1000 2000 3000 4000 5000 6000

Figure 1. Report distribution by gender

Figure 2. Report distribution by age

Since the early phase of the vaccination program is intended for the frontline health workers, the high number in the female and younger population might be associated with the data that our health system is dominated by female (75%) and young adults (65%) under the age of 35.1

¹ Human Resource for Health in the Time of the COVID-19 Pandemic: Does the Philippines Have Enough? https://www.drdf.org.ph/sites/default/files/pdf/COVID-19-Research-Brief-08.pdf

Distribution of reports of adverse reactions for each vaccine

Data shown below are cumulative reports from the start of the vaccination program up until 04 April 2021.

Table 1. Distribution of reports of adverse reactions for each vaccine

Vaccine	Date started	Number vaccina ted with first dose ^b	Number vaccin ated with second dose ^b	Total number of reports ^a	Reports of non- serious events	Reports of serious events
CoronaVac	01 Mar 2021	304,388	13,311	5,613	5,483	130
AstraZeneca	07 Mar 2021	505,800	0	16,417	16,235	182
TOTAL	1	810,188	13,311	22,030	21,718	312

Data source: aVigiFlow, bNVOC daily report as 6PM, 04 April 2021

Notes: Additional information may become available in individual cases which may change the figures presented

Reports of suspected serious adverse reaction

Adverse reactions experienced after vaccination are considered serious when it resulted to any of the following criteria:

- In-patient hospitalization/prolongation of existing hospitalization
- Significant disability/incapacity
- Life-threatening (e.g. anaphylaxis) and death
- Birth defect or congenital malformations
- Considered to be medically important event

Hypersensitivity including severe allergic reactions

Severe allergic reactions have been reported on the use of COVID-19 vaccines including CoronaVac and AstraZeneca. It is very rare and occurs only in a few vaccinated individuals. It typically occurs in people with history of severe vaccine reactions. Severe allergic reactions generally occur soon after vaccination and is usually managed with Epinephrine in combination with other medicines. Thus, vaccinees are observed for at least 15 minutes after receiving the vaccine. Epinephrine is readily available in all vaccination sites.

Hypersensitivity including severe allergic reactions to COVID-19 vaccine AstraZeneca have been identified to be biologically possible. AstraZeneca revised the labeling of their product to reflect the changes that the second dose of the vaccine should not be given to those who have experienced a severe hypersensitivity reaction to the first dose of COVID-19 vaccine AstraZeneca.

Data concerning various vaccines are not directly comparable. COVID-19 vaccines profile varies, they have not been used for equal periods of time and they have been administered to number of people with different profiles including various age and sex.

Increased blood pressure

One of the screening processes for COVID-19 vaccination program in the Philippines is monitoring the blood pressure (BP) of vaccine recipients. Blood pressure increased has been reported as the top adverse reaction to inactivated vaccine. It is also included as one of the top ten reported reactions to viral vector vaccine.

According to Sison, Divinagracia & Nailes (2019), the latest data on prevalence of hypertension were 28%; 9% of which are unaware. The BP control rate of 20% may be attributed to the increasing reports of blood pressure increased. Anxiety during vaccination may also cause elevation in blood pressure levels.² This shall continuously be monitored if there is a direct causal link with the use of the vaccine.

² Immunization stress-related response (ISRR) - A synopsis
https://www.who.int/immunization/sage/meetings/2019/april/2_A_synopsis_of_ISRR_Draft_SAGE.PDF?ua=1

Thromboembolic events (clotting risk)

The European Medicines Agency (EMA) already convened an ad hoc expert to provide further the ongoing assessment whether the underlying risk factors could be identified and additional data to further characterize the observe events. The review has not identified any specific risk factors, such as age, gender, or previous medical history. Currently, the benefits of the vaccine in combating the still widespread threat of COVID-19 continue to outweigh the risks.

Source: AstraZeneca COVID-19 vaccine: review of very rare cases of unusual blood clots continues | European Medicines Agency (europa.eu)

Reports involving death

As of 04 April 2021, several reports of fatal events were received. Most of these events occurred in people with existing multiple comorbidities. Notable causes of deaths are cardiovascular diseases which belong on the three leading causes of death in the Philippines (PSA 2020). An independent committee already assessed some of these events as not related to the vaccine or coincidental events. Other cases are under investigation and continuously being reviewed.

Other reports include confirmed COVID-19 infections. Vaccines being used in the COVID-19 vaccination program are viral vector and inactivated. It does not contain any live virus and does not cause COVID-19 infection in vaccine recipients.

To date, there were no reports of fatal events that are directly associated with the use of the vaccines currently in use.

Number of suspected adverse reactions per category

There were more than 50,000 suspected adverse reactions reported from the 22,030 reports received. Suspected adverse reactions were coded using the Medical Dictionary for Regulatory Activities (MedDRA) terminology to allow international comparison of reports.

The data presented below are categorized by System Organ Class (SOC), the highest in the hierarchy of MedDRA. They are grouped by manifestation site (e.g. gastrointestinal, cardiac) and etiology (e.g. infections, examinations).

Reactions to inactivated vaccine

CoronaVac

Classification	Number of
Classification	suspected reactions
General symptoms & reactions in the administration site	2 222
E.g. Pain and reaction in the injection site, chills, discomfort	2,332
Cardiac symptoms	241
E.g. Palpitations, bradycardia	241
Examinations	4
E.g. Increased blood pressure, increased heart rate	7
Ear symptoms	1,071
E.g. Ear swelling, vertigo	2)072
Eye symptoms	60
E.g. Eye itchiness, blurred vision	
Gastrointestinal symptoms	677
E.g. Abdominal pain, diarrhea, nausea, vomiting	
Hepatobiliary symptoms	1
E.g. Jaundice	
Immune system symptoms	79
E.g. Allergic reactions	
Infections	202
E.g. Cold symptoms	
Metabolism and nutrition-related symptoms	26
E.g. Decreased appetite	
Musculoskeletal symptoms	424
E.g. Back pain, joint pain, pain in extremities	
Neurological symptoms	1,970
E.g. Dizziness, headache, syncope	,
Procedural symptoms	99
E.g. Procedural hypertension, vaccination adverse reaction	
Psychiatric symptoms	14
E.g. Feeling anxious	
Renal and urinary symptoms	2
E.g. Urine coloring yellow, urine frequency	
Reproductive symptoms	2
E.g. Vaginal bleeding, vaginal spotting	
Respiratory symptoms	638
E.g. Cough, nasal congestion, throat irritation	
Skin symptoms	1,146
E.g. Cold sweat, rash, redness	
Symptoms in blood and lymphatic system	17
E.g. Pain in the lymph nodes	



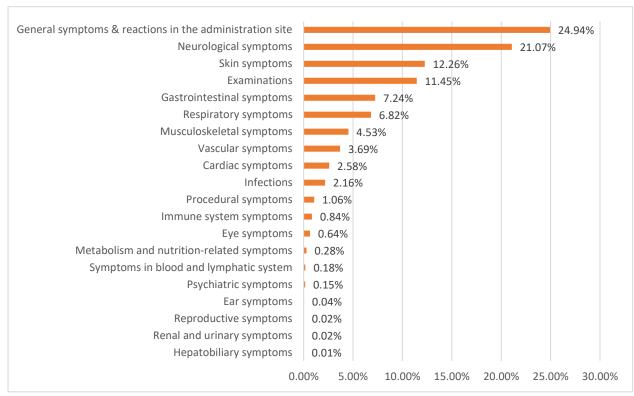


Figure 3. Suspected adverse reaction distribution by SOC for inactivated vaccine

General symptoms and reactions in the administration site comprised 24.94% of overall reported reactions to inactivated vaccine, followed by neurological symptoms (21.07%) and skin symptoms (12.26%). The top reported events are blood pressure increased (11.14%), headache (11.01%), vaccination/injection site pain (8.65%), dizziness (6.68%), rash (6.04%), pyrexia (4.53%), pruritus (3.81%), nausea (2.95%), malaise (2.73%), and fatigue (2.68%).

Reactions to viral vector vaccine

COVID-19 vaccine AstraZeneca

Classification	Number of suspected reactions
General symptoms & reactions in the administration site E.g. Pain and reaction in the injection site, chills, discomfort	20,928
Cardiac symptoms E.g. Palpitations, bradycardia	252
Ear symptoms E.g. Ear swelling, vertigo	15
Examinations E.g. Increased blood pressure, increased heart rate	1,231
Eye symptoms E.g. Eye itchiness, blurred vision	169

Controlledical	
Gastrointestinal symptoms	2,092
E.g. Abdominal pain, diarrhea, nausea, vomiting	
Immune system symptoms	160
E.g. Allergic reactions	
Infections	388
E.g. Cold symptoms	300
Metabolism and nutrition-related symptoms	256
E.g. Decreased appetite	230
Musculoskeletal symptoms	1 600
E.g. Back pain, joint pain, pain in extremities	4,688
Neurological symptoms	7.544
E.g. Dizziness, headache, syncope	7,541
Procedural symptoms	020
E.g. Procedural hypertension, vaccination adverse reaction	930
Psychiatric symptoms	10
E.g. Feeling anxious	19
Renal and urinary symptoms	4
E.g. Urine coloring yellow, urine frequency	4
Reproductive symptoms	
E.g. Vaginal bleeding, vaginal spotting	8
Respiratory symptoms	022
E.g. Cough, nasal congestion, throat irritation	832
Skin symptoms	4.252
E.g. Cold sweat, rash, redness	1,353
Symptoms in blood and lymphatic system	20
E.g. Pain in the lymph nodes	20
Vascular symptoms	200
E.g. Flushes, low blood pressure	380

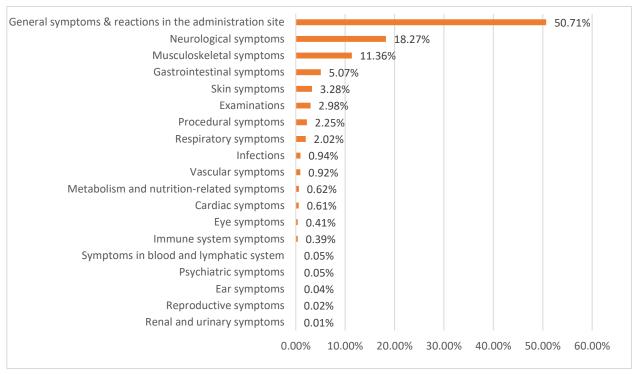


Figure 4. Suspected adverse reaction distribution by SOC for viral vector vaccine

General symptoms and reactions in the administration site comprised 50.71% of overall reported reactions to viral vector vaccine, followed by neurological symptoms (18.27%) and musculoskeletal symptoms (11.36%). The top reported events are pyrexia (17.85%), headache (14.34%), vaccination/injection site pain (9%), chills (7.38%), myalgia (7.05%), malaise (6.43%), fatigue (5.36%), arthralgia (3.51%), blood pressure increased (2.88%), dizziness (2.41%).

Reporting of suspected adverse reactions following vaccination

Individuals who received their COVID-19 vaccination shots can report any suspected adverse reaction to any of the following:

- Immunization site where you were vaccinated
- Directly to the vaccine emergency use authorization holder
 - IP Biotech (Sinovac's CoronaVac)
 - o AstraZeneca
- FDA online reporting system

Kindly **report only to one** of the above to avoid duplication of reports.