

COVID-19 VACCINE **ADVERSE EVENS** AROUND THE WORLD



## Summary: WCH Covid-19 Vaccine Pharmacovigilance Report

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#### For the full report visit:

worldcouncilforhealth.org/resources/covid-19-vaccine-pharmacovigilance-report

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## About World Council for Health

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The World Council for Health is a non-profit organization for the people that is informed and funded by the people. Our global coalition of health-focused organizations and civil society groups seeks to broaden public health knowledge and sense-making through science and shared wisdom. We are dedicated to safeguarding human rights and free will while empowering people to take control of their health and wellbeing.

## **Our Vision**

We believe in a healthy world where everyone enjoys information transparency, access to proven medicines, and real action in the face of disease – while respecting each individual's personal health decisions, without fear of discrimination or persecution. We believe in a world where we keep our water and air clean, food uncontaminated, and families together.

# Our Values Integrity Freedom Transparency

COMMUNITY





# What is this Document?

This document is a summary of the <u>World Council for Health's comprehensive Covid-19</u> <u>Vaccine Pharmacovigilance Report</u> prepared in May 2022. It is for all concerned citizens and clinicians. It summarizes the alarming vaccine adverse events that are being observed in large numbers across several wellestablished pharmacovigilance databases around the world. The report aims to establish whether or not there is a safety signal indicating a recall of Covid-19 vaccines.

#### What is <sup>a safety sid</sup> Pharmacovigilance?

Pharmacovigilance is **a pharmaceutical science, also known as drug safety.** The goal of pharmacovigilance is to:

- collect, assess, and monitor data about adverse events
- prevent adverse events related to pharmaceutical products.

Most data in pharmacovigilance is gathered through adverse event (AE) reporting, but it is also collected in other ways including population data, studies, and industry reports. Pharmacovigilance databases containing adverse events are an inexpensive and accessible way to detect safety concerns around pharmaceutical products.



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## The Purpose of this Report:

Method:

This report aims to determine whether or not there is sufficient data on existing pharmacovigilance databases to indcate a recall of Covid-19 vaccines.

#### This report collates data on the following:

- the number of adverse events related to Covid-19 vaccines vs. other commonly administered vaccines
- the types of adverse reactions linked to Covid-19 vaccines
- the rate of adverse events that have been sufficient for product recall in the past

From this data, we determine whether there is sufficient evidence to indicate a recall for Covid-19 vaccines.

#### The Data We Looked At:

#### VigiAccess Database

World Health Organization (WHO)

VigiAccess is an initiative of the World Health Organization. It is an international database of reported potential adverse events related to medicinal products.

#### Vaccine Adverse Event Reporting System

United States CDC and FDA VAERS is managed by the US Centers for Disease Control and Prevention and Food and Drug Administration. It is an early warning system for safety concerns related to vaccines.

#### Eudravigilance

European Medicines Agency

Eudravigilance is a database of suspected adverse drug reaction reports. It is used to evaluate, supervise, and monitor safety of medicines in the EU.



#### **UK Yellow Card Scheme**

Medicines & Healthcare Products Regulatory Agency

The UK Yellow Card Scheme collects and monitors data on adverse medical incidents or side effects relating to medical products in the UK.

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## Why Adverse Event Reporting Matters for Covid-19 Vaccines:

Traditionally, pharmacovigilance data from passive reporting systems are used to detect safety signals for rare adverse events that may have been missed in clinical trials. However, Covid-19 vaccines are unique in that:

#### Clinical trials are not completed.

Phase 3 and Phase 4 clinical trials for Covid-19 injections are not complete. These phases of trials are designed to establish safety and efficacy and normally last from 10 - 15 years. **These products are being used on billions of people, including children, during their clinical trial phase, and the vast majority are not being monitored.** Their safety and efficacy is UNKNOWN.

#### 6-month Trial Data Showed More Harm in the Vaccinated Group.

In Pfizer's largest clinical trial to date for these products, after 6 months:

- there were 14 deaths in the placebo group and 20 deaths in the vaccine group
- There was a 300% increase in RELATED adverse events in the vaccine group

#### Covid-19 Products do not Function like Other Vaccines.

Covid-19 products:

- do not prevent someone from contracting, spreading, or becoming ill with SARS-CoV-2
- effectiveness has waned significantly
- are distributed throughout the entire body rather than staying in the arm
- the mRNA, which had never been used in humans prior to 2020, causes the body's cells to produce harmful spike proteins for undetermined amounts of time

#### Safe Treatments are Available.

Covid-19 can be mitigated and treated with safe, established drugs including antivirals, anticoagulants, and immune therapies.



# Findings:

## Total Number of Adverse Events

#### Summary:

The total number of adverse events related to Covid-19 vaccines on VigiAccess, VAERS, Eudravigilance, and UK Yellow Card Scheme are unprecedented in each database. The magnitude of disparity in the number of adverse events compared to other commonly administered vaccines and therapies is sufficient to indicate an alarming safety signal for these products.

## Findings: Number of Adverse Events



#### WHO VigiAccess

VigiAccess shows a number of adverse events that is unprecedented on the database for any other pharmaceutical product or vaccine. When we compare it to the Tuberculosis vaccine, for example, which has been administered to more people than any other vaccine, we see the following:

- 37, 000 adverse event reports for Tuberculosis vaccine since 1968
- over 4,000,000 adverse event reports for Covid-19 vaccine since 2020

giAccess	World Health Organization	VigiAccess	
Note: Result is presented for the active ingredient, often including more that	n one brand name	Note: Result is presente	ted for the active ingredient, often including mo
Enter name of drug or vaccine		Enter name of drug o	or vaccine
Vaccinum Tubercularis BCG contain the active ingredient <b>Bcg vaccine</b> There are <b>3</b> VEB reports sub-refi active ingredient		SQVID-19 vaccine	
Reported potential side effects		There are <b>4 061 490</b> re	eports with this active ingredient
<ul> <li>Blood and lymphatic system disorders (20%, 11.488 ADRs)</li> <li>Cardiac disorders (0%, 207 ADRs)</li> <li>Congenital, familial and genetic disorders (0%, 54 ADRs)</li> <li>Far and ladyrith disorders (0%, 37 ADRs)</li> <li>Indocrine disorders (0%, 37 ADRs)</li> <li>Systemers (18, 32 ADRs)</li> <li>Gastrointestinal disorders (2%, 1053 ADRs)</li> </ul>		<ul> <li>Blood and lymph</li> <li>Cardiac disorders</li> <li>Congenital, famili</li> <li>Ear and ladyrinth</li> <li>Endocrine disorder</li> <li>Eye disorders (1)</li> </ul>	Dotential side effects           hatic system disorders (2%, 185 359 ADRs)           \s (3%, 258 777 ADRs)           lial and genetic disorders (0%, 2889 ADRs)           disorders (1%, 126 585 ADRs)           genetic disorders (0%, 126 585 ADRs)           disorders (1%, 126 585 ADRs)           disorders (1%, 721 834 ADRs)

#### **Total Number Adverse Events on VigiAccess: Common Vaccines**

Vaccine	Data Collected Since	Total Number of Adverse Events
Tetanus	1968	15,381
Polio	1968	123,732
Influenza B	1986	90,044
Covid-19	2020	4,000,000

## Findings: Number of Adverse Events (Cont.)



#### VAERS

Over 50% of total reports in the VAERS database since 1990 are related to the Covid-19 vaccine. There is a 10-fold difference in the number of adverse event reports for the MMR vaccine compared to the Covid-19 vaccine, a 169-fold increase in reported deaths to VAERS after Covid-19 vaccination when compared to the flu vaccine, and a 56fold increase in adverse event reports on VAERS after Covid-19 vaccination when compared to the flu vaccine.

There are over 1700 reports of adverse events on VAERS for children in children at ages for whom the vaccine was not authorized.

In addition, VAERS data shows an alarming spike in death reports in 2021 and 2022. Currently of the over 37 000 deaths reported to VAERS since 1990, 27 968 are related to Covid-19 products.

#### Average Number of Deaths on VAERS 1990 - 2020:

# SO YEARS OF VAERS DOMESTIC DATA

#### Risk of Death | VAERS: Flu Vaccine vs. Covid-19 Vaccine:

Vaccine	# of Vaccinations	Number of Deaths	Risk of Death
Flu	167,447,642	33	1 in 5,074,171
Covid-19	173,335,866	5770	1 in 30, 041

#### Risk of dying from COVID-19 vaccine is 169 times greater than Flu Vaccine

Source: vaersanalysis.info/2022/05/14/vaers-summary-for-covid-19-vaccines-through-5-6-2022/

## Findings: Number of Adverse Events (cont.)



#### **EudraVigilance**

EudraVigilance data shows a number of individual case reports that is unprecedented on the database for any other pharmaceutical product or vaccine. When comparing it to the measles vaccine there is a 70-fold increase in the number of events reported to Eudravigilance. There are 48 913 individual EudraVigilance reports linked in some way to the Measles vaccine of the approximate 673 million individuals who have received the vaccine in Europe. It is possible, however, that any amount of these might be attributable to other innoculations contained in the same vaccine. There are 1.8 million individual EudraVigilance reports associated with the Covid-19 vaccines of the approximate 341 million individuals who have received the vaccine.

#### **Total Number Adverse Events on EudraVigilance: Common Vaccines**

Vaccine	Approximate Number who have been vaccinated	Total Number of Adverse Events
All Measles Vaccines	673,200,000	48,913
All Polio Vaccines	673,200,000	8982
All Influenza Vaccines	unknown	44,618
Covid-19	341,628,772	1,800,000

Source: https://www.adrreports.eu/

## Findings: Number of Adverse Events (cont.)



#### **UK Yellow Card**

Of the 53 million people who have been vaccinated for Covid-19 in the UK, the Yellow Card Scheme shows over 450,000 yellow card reports related to the Covid-19 vaccines. Comparing this to the data for paracetamol, a medication that has been in widespread general use for several decades, there are only a fraction of the reports (~25 000 since 1968) on the Yellow Card Scheme. The data for other vaccines is not available on the Yellow Card Website.

#### **Total Number Adverse Events on Yellow Card Scheme: Common Medicines vs. Covid-19 Vaccine**

Product	Total Number of Adverse Events	Reports since
Paracetamol	25,158	1968
Ibuprofen	16,690	1969
Diphenhydramine (Benadryl)	2165	1964
Covid-19 Vaccine	450,000	2020

Source: https://yellowcard.mhra.gov.uk/idaps



## Findings: Number of Adverse Events (cont.)

#### **All Databases**

Across all databases, Covid-19 vaccines show an alarming number of adverse events and death reports when compared to other commonly administered vaccines and medicines

There is a concerning safety signal regarding Covid-19 vaccines detected on all databases examined in this report.

#### Total Number Adverse Events per Pharmacovigilance Database:





# Findings: Types of Adverse Events

#### Summary:

The most common types of adverse events on these databases are:

- Nervous System Disorders
- Musculoskeletal and Connective Tissue Disorders
- Gastrointestinal Disorders
- Anaphylaxis
- Venous Thromboembolism
- Myocarditis/Pericarditis
- Convulsions/Seizures

There are over 50,000 reports of death related to Covid-19 vaccines on these databases.



## **Findings:** Types of Adverse Events

#### **All Data**

The majority of adverse events reported to all databases are serious in nature, with nervous system disorders being the most commonly reported. There are over 50,000 reported deaths linked to Covid-19 vaccines. Pharmacovigilance databases such as VigiAccess, EudraVigilance, VAERS, and UK Yellow Card Scheme rely on passive reporting from healthcare providers, pharmaceutical companies, and individuals, and are known to be vastly underreported.

#### **Most Common AE Reports by Reaction Group**

Database	Nervous System Disorders	Musculoskeletal and Connective Tissue Disorders	Gastrointestinal Disorder
VigiAccess	1,500,000	1,000,000	691,000
EudraVigilance	746,000	543,000	344,000
UK Yellow Card	285,000	175,000	135,000

#### Most Common Reports VAERS: Covid-19 Vaccine

- 1. Arthritis and Arthralgia/Joint Pain
- 2. Anaphylaxis
- 3. Venous Thromboembolism
- 4. Myocarditis/Pericarditis
- 5. Stroke and Convulsions/Seizures

#### Number of Deaths Reported by Database: Covid-19 Vaccine

VigiAccess	VAERS	EudraVigilance	UK Yellow Card
22,000	28,000	800	2100

# How Many Adverse Events is Too Many?

## Precedent for Drug and Vaccine Recall

#### Summary:

The 1967 Swine Flu mass vaccination campaign was halted after a series of adverse event reports including 53 deaths. The Polio Vaccine was recalled in less than 1 year after 10 reported deaths. The Covid-19 vaccine, with over 28 000 associated reports of death on VAERS alone, has not been recalled.

## There is sufficient evidence to suggest a recall of Covid-19 vaccines.

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## How Many Adverse Events is Too Many?

Given that Covid-19 vaccine development was rushed and that they are still in clinical trials, it is imperative to consider how pharmacovigilance data may be used to assess their safety, efficacy, and the case for their continued use. **Precedent from other pharmaceutical products suggests that the data is sufficient to indicate a recall of Covid-19 vaccines.** 

#### The 1967 Swine Flu

In February 1967, an investigation was launched into the mysterious death of an American Private who died during a basic training exercise. CDC tests revealed that Private David Lewis had contracted a strain of swine flu. Subsequently 11 other soldiers tested positive for the virus while hundreds of others tested positive for antibodies. Alarming headlines appeared in newspapers across the country, and, the CDC Director, citing a "strong possibility" of a pandemic, recommended an unprecedented plan of mass vaccination of US citizens.

Though no further evidence emerged that the virus was problematic, the CDC and then President Gerald Ford adopted a 'better safe than sorry' approach, and began a mass vaccination campaign for the swine flu. When reports emerged of suspected adverse reactions, including heart attacks, Guillain-Barre syndrome and 53 reported deaths, citizens began doubt the safety of the vaccine. Coupled with the fact the pandemic did not materialize as predicted, the government halted the mass vaccination program on December 16.

#### Major Drug and Vaccine Recalls in History:





## Signal Detected: Covid-19 Product Recall Indicated

#### **Unprecedented Numbers of Adverse Events**

- All pharmacovigilance databases examined in this report reveal a number of adverse events reports linked to Covid-19 vaccines that are between ten times and 169 times more than what is observed in other commonly administered products
- There are several thousand reports of adverse events in children for whom the Covid-19 product has not been approved

#### **Serious Adverse Events and Death**

#### Data from VigiAccess, VAERS, EudraVigilance, and UK Yellow Card Scheme reveal that the most common reports related to Covid-19 vaccines are:

- Nervous System Disorders
- Musculoskeletal and Connective Tissue Disorders
- Gastrointestinal Disorders
- Anaphylaxis
- Venous Thromboembolism
- Myocarditis/Pericarditis
- Convulsions/Seizures

There are over 50,000 reports of death related to Covid-19 vaccines.

#### **Precedent for Product Recall**

- Adverse events are underreported
- Covid-19 products were developed quickly and administered to large populations while still in Phase 3 clinical trials
- Data from VAERS and FAERS reveals that The Polio Vaccine was recalled in less than 1 year after 10 reported deaths, the Swine Flu Vaccine was recalled in less than 1 year after 53 reported deaths. The Covid-19 vaccine, with over 28 000 associated reports of death, has not been recalled after two years

The number and severity of adverse event reports on related to Covid-19 vaccines on these pharmacovigilance databases is sufficient to indicate a recall of Covid-19 products.



## Visit

worldcouncilforhealth.org/ resources/covid-19vaccinepharmacovigilance-report

# for full report

## REFERENCES

AstraZeneca. (May 2022). Case Series Drug Analysis Print: Covid-19 AstraZeneca Vaccine Analysis Print. Gov.uk.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/ file/1080309/COVID-19\_AstraZeneca\_Vaccine\_Analysis\_Print\_DLP\_25.05.2022.pdf

Connor Stewart. (May 2022). COVID-19 vaccination rate in European countries. Statista. https://www.statista.com/statistics/1196071/covid-19-vaccination-rate-in-europe-by-country/

Elflein, John. (May 2022). Vaccinations in the U.S.- Statistics & Facts. Statista. https://www.statista.com/topics/3283/vaccinations-in-the-us/#topicHeader\_wrapper

EudraVigilance. (May 2022). European database of suspected adverse drug reaction reports. European Medicines Agency. https://www.adrreports.eu/en/eudravigilance.html# European Centre for Disease Prevention and Control. (May 2022). COVID-19 Vaccine Tracker. European Centre for Disease Prevention and Control.

https://vaccinetracker.ecdc.europa.eu/public/extensions/covid-19/vaccine-tracker.html#uptake-tab

European Medicines Agency. (May 2022). Human regulatory: EudraVigilance. European Medicines Agency.

https://www.ema.europa.eu/en/human-regulatory/researchdevelopment/pharmacovigilance/eudravigilance

Klein, Christopher. (Sep 2020). When the US Government Tried to Fast-Track a Flu Vaccine. History.com. https://www.history.com/news/swine-flu-rush-vaccine-election-year-1976

Medicines & Healthcare products Regulatory Agency. (2022). Case Series Drug Analysis Print: Covid-19 brand unspecified Vaccine Analysis Print. Gov.uk.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/ file/1080311/COVID-19\_Brand\_Unspecified\_Vaccine\_Analysis\_Print\_DLP\_25.05.2022.pdf

Medicines & Healthcare products Regulatory Agency. (2022). Research and analysis: Coronavirus vaccine weekly summary of Yellow Card reporting. Gov.uk. https://www.gov.uk/government/publications/coronavirus-covid-19-vaccine-adversereactions/coronavirus-vaccine-summary-of-yellow-card-reporting

Moderna. (May 2022). Case Series Drug Analysis Print: Covid-19 Moderna Vaccine Analysis Print. Gov.uk.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/ file/1080310/COVID-19\_Moderna\_Vaccine\_Analysis\_Print\_DLP\_25.05.2022.pdf OpenVAERS. (May 2022). VAERS COVID Vaccine Adverse Event Reports. OpenVAERS. https://openvaers.com/covid-data

Pfizer-BioNTech. (May 2022). Case Series Drug Analysis Print: Covid-19 mRNA Pfizer-BioNTech Vaccine Analysis Print. Gov.uk.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/ file/1080308/COVID-19\_Pfizer-BioNTech\_Vaccine\_Analysis\_Print\_DLP\_25.05.2022.pdf

Pohlman KA, Carroll L, Tsuyuki RT, et al. (2020) Comparison of active versus passive surveillance adverse event reporting in a paediatric ambulatory chiropractic care setting: a cluster randomised controlled trial. BMJ Open Quality;9:e000972. doi: 10.1136/bmjoq-2020-000972

Ritchie, Hannah; Mathieu, Edouard; Rodés-Guirao, Lucas et al. (2020). Coronavirus Pandemic (COVID-19). Our World in Data. https://ourworldindata.org/coronavirus

Rose, Jessica. (2022). VAERS data analysis. Jessica's Universe. https://www.jessicasuniverse.com/blank-page-1

Thomas SJ, Moreira ED, Kitchin N et al. (2021). Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine through 6 Months. New England Journal of Medicine. https://www.nejm.org/doi/pdf/10.1056/NEJMoa2110345

Thomas SJ, Moreira ED, Kitchin N et al. (2021). Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine through 6 Months - Supplementary Appendix. New England Journal of Medicine.

https://www.nejm.org/doi/suppl/10.1056/NEJMoa2034577/suppl\_file/nejmoa2034577\_appendi x.pdf

Uppsala Monitoring Centre. (May 2022). The WHO Programme for International Drug Monitoring (WHO PIDM). World Health Organization. https://who-umc.org/about-the-who-programme-for-international-drug-monitoring/

USA Facts. (May 2022). US Coronavirus vaccine tracker. USA Facts. https://usafacts.org/visualizations/covid-vaccine-tracker-states/

U.S. Food & Drug Administration. (May 2022). Step 3: Clinical Research. U.S Food & Drug Administration. https://www.fda.gov/patients/drug-development-process/step-3-clinical-research

Vaccine Adverse Event Reporting System (VAERS). (1990 - 2022). United States Department of Health and Human Services (DHHS), Public Health Service (PHS), Centers for Disease Control (CDC) / Food and Drug Administration (FDA). CDC WONDER On-line Database. Vaccine Type and Events by Age Group.

https://wonder.cdc.gov/controller/datarequest/D8;jsessionid=F9E61FE2A2B457AD46D5FC21F6 67

Vaccine Adverse Event Reporting System (VAERS). (2022). About VAERS.United States Department of Health and Human Services (DHHS), Public Health Service (PHS), Centers for Disease Control (CDC) / Food and Drug Administration (FDA). https://vaers.hhs.gov/about.html

Vaccine Adverse Event Reporting System (VAERS). (1990 - 2022). United States Department of Health and Human Services (DHHS), Public Health Service (PHS), Centers for Disease Control (CDC) / Food and Drug Administration (FDA). CDC WONDER On-line Database. http://wonder.cdc.gov/vaers.html

VAERS Analysis Info. (May 2022). VAERS Summary for COVID-19 Vaccines. VAERS Analysis Info.https://vaersanalysis.info/2022/05/14/vaers-summary-for-covid-19-vaccines-through-5-6-2022/

Vanderslott, Samantha; Dadonaite, Bernadeta; Roser, Max. (2013). Vaccination. Our World in Data. https://ourworldindata.org/vaccination

VigiAccess. (1968 - 2022). Reported potential side effects. World Health Organization Collaborating Centre for International Drug Monitoring, Uppsala Monitoring Centre. https://vigiaccess.org/

VigiAccess. (1968 - 2022). Reported potential side effects Covid-19 vaccine. World Health Organization Collaborating Centre for International Drug Monitoring, Uppsala Monitoring Centre. https://vigiaccess.org/

VigiAccess. (1968 - 2022). Reported potential side effects Tuberculosis Vaccine. World Health Organization Collaborating Centre for International Drug Monitoring, Uppsala Monitoring Centre. https://vigiaccess.org/

World Health Organization (web archive). (2015). Immunization, Vaccines and Biologicals: Surveillance for Vaccine Preventable Diseases. World Health Organization. http://www.who.int/immunization/monitoring\_surveillance/burden/VPDs/en/

Yellow Card. (May 2022). Coronavirus Yellow Card reporting site. Medicines & Healthcare products Regulatory Agency. https://coronavirus-yellowcard.mhra.gov.uk/