

WHO Global Vaccine Safety

A collaborative effort to prepare for COVID-19 vaccines PV

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Current safety work and deliverables – WHO

Content topic	Description of deliverables	Collaborative WHO departments/units
Product related safety & pharmacovigilance	 Specific monitoring requirements part of each clinical trial approval Risk management plans for each vaccine required as part of any emergency or other authorization Product specific roadmaps, incl. safety monitoring expectations 	R&D blueprintPrequalification
Vaccine safety system (national, regional, global levels)	 Guidance to countries and regions on prerequisites for vaccine safety preparedness that could be adapted to local country contexts as part of vaccine introduction plans Alignment of COVID-19 vaccine safety preparedness and leveraging of existing national AEFI surveillance systems as far as possible Check list for country preparation Dash board on country readiness Practical guidance on operationalizing the principles of regulatory reliance to PV concepts of work-sharing to promote collaboration between countries on active surveillance in a country setting. Adequate data management systems, aligned with international standards Identify regional and global platforms for AEFI data sharing 	 Regulatory system strengthening unit Regulatory convergence and network unit Norms and standards (ECBS) Immunisation dptmt (IVB) Emergency dpmt WHO Regional Offices
AESIs	 Basic AESI list, incorporating specific case definitions when Brighton Collaboration definitions do not exist for the prioritized AESI in the list Minimum institutional capacity in place in countries for their identification 	
Safety communications	 Roadmap for safety communications on COVID-19 that incorporates vaccines benefits/risks communication plans. Practical and scenario-based suggestions for how to manage vaccine safety concerns (pre-licensure, launch, roll out). Compilation of useful resources for countries 	

WHO COVID-19 Vaccine PV preparedness guidance manual



Being developed with GACVS guidance → 4 working groups* → meeting weekly

GACVS members (chair each working group)

SAGE COVID19 working group representative

SPEAC members

Regulators from all regions (US FDA, EMA, China NMPA, Chile, Uganda, Ghana)

Immunisation programme and PV center (US CDC, ECDC, China CDC, Nigeria, Benin, Ethiopia, India, Australia, Chile, Vietnam..)

Academia

WHO collaborating centers (Sweden, Morocco)

WHO regional offices vaccine safety focal points

^{*} Members selected through a Global Call for expression of interest



GACVS Working Groups, Deliverables and Status

Current status



- Brainstorming framework
- Developing subsections
- Creation of subsection contents
- + Subsection contents consolidated, reviewed, refined and zero draft developed
- + Final draft developed

Chair: Miriam Sturkenboom



Mandate: Focus on COVID19 Vaccine platforms, their known immunity profile and known Adverse events following immunization (AEFI) and Adverse events of special interest (AESI)

Chapter 1

COVID19 vaccines: Description, access and use

Chapter 2

COVID-19 vaccines and adverse events - Adverse Events Following Immunization (AEFI) and Adverse Events of Special Interest (AESI)





Chair: Narendra Arora



Mandate: Focus on global and regional preparedness for COVID vaccine introduction, and responding to an AEFI after COVID vaccination

Chapter 3

Global and Regional preparedness for COVID19 vaccine introduction

Chapter 4

Stakeholders and resources for COVID19 Vaccine Safety







Mandate: Focus on AEFI Surveillance in countries using COVID vaccines and AEFI data management and performance indicators

Chapter 5

Establishing AEFI
Surveillance
systems in
countries using
COVID19
vaccines



Chapter 6

Responding to adverse events following COVID19 vaccination



Chapter 7

Data management and monitoring safety surveillance performance



Chair: Eve Dube



Mandate: Focus on COVID19 vaccine safety and risk communication strategy/plan

Chapter 8

Safety communication in the context of COVID-19 vaccination

Synthesizes evidence from vaccine safety and risk communication applying them to the COVID-19 vaccine context. It does not cover communication to support vaccine acceptance and uptake





WHO efforts in preparing for COVID19 vaccine PV

Implementation by Region/ Countries

Operationalizing COVID-19 vaccine pharmacovigilance Organiz

- Enhance passive surveillance/ sentinel surveillance to generate vaccine safety information
- Implementing active surveillance (Where resources are available) for detection of potential signals /AESI
- Constitute a national expert committee (sub-national for larger countries)
 to review and respond to AEFI safety signals and public concerns
- Conduct research to test hypothesis (Where resources are available)

Operationalizing COVID-19 vaccine pharmacovigilance Organization

Regional support in the Western Pacific

- Vaccine PV training for WHO CO staff (EPI, NRA and Communication) in April
 2019
- 19 in country vaccine PV training workshops in 14 countries during 2016-202
 - Joint country support activities by EPI(VDI) and Regulatory (EMT) teams
 - Assessment of PV capacity using a modified WHO GBM/PV tool for the regional/country context
 - Introduced WHO methodology and e-tool for causality assessment
- Vaccine PV is a mandatory component of SIA and new vaccines introduction plan
- Virtual Regional Training on Vaccine and Immunization Safety 17-19 Nov (Non-PICS) and 24-26 Nov (PICs) 2020
 - Capacity building will be driven by Global guidance developed by GACVS
 working groups



Immunization Safety

on Surveillance of Adverse Events Following

Operationalizing COVID-19 vaccine pharmacovigilance Organization

Country preparedness in the Western Pacific Region

Enhanced AEFI surveillance in China (1.39 billion population)

- Supported by legal framework
- Clear guide and SOPs
- Well trained staff
- Efficiently used information technology
- Very high AEFI reporting rates
- Data analysis at both national and subnational level
- Periodic safety update reports

Functional AEFI committee in Mongolia (3 million population)

- Independent experts including non medical
- Follows WHO methodology for causality assessment
- Every case review not limited to the investigation report findings and but supported by published evidence
- Produce comprehensive review reports

*AEFI surveillance system is in place in 29 Countries and Areas; 14 Countries and Areas having a functional AEFI committee

Data sharing at country, regional and Global levels Needs



Diversity with COVID-19 vaccines

- Different vaccine platforms
- Different target population; young/adults/elderly; healthy vs unhealthy (with chronic co-morbidities)

Sensitivity with COVID-19 vaccines

- Interest for vaccine is beyond the health; economic and political
- Risk for overall trust and demand for vaccines and immunization

COVID-19 safety profile

AESI/ Signals

It would be a challenge to assess COVID-19 vaccines safety profile on standalone ONE country data.

Data sharing at country, regional and Global levels Opportunities



Country database

- Country AEFI data base is maintained by either NIP or NRA or PV Centre (Its country specific)
- Disseminating PV data through published monthly/quarterly/annual reports (e,g: China, Malaysia) -This can initiate with COVID-19 data followed by sharing all other vaccines used in NIP

Regional database

- Regional Alliance for NRA for Vaccines in the WPR is a potential platform for sharing COVID-19 vaccine PV data
- Regional database will help NRA and NIP to monitor safety profile of COVID-19 vaccines use in the region
- Regional data base will be a reliable source of vaccine safety information for all vaccine

Global database

Located in the WHO program for international drug monitoring

- Benefit of the global database in the context of COVID-19 vaccines is significant.
- Vaccine safety data of one or more COVID-19 vaccines across the world will provide valid comparisons of safety profile supporting evidence based decisions in response to safety events

World Health Organization

Conclusions

- COVID-19 vaccines present unique challenges never faced before
- Collaborative and coordinated approach is critical for successful COVID-19 vaccines safety monitoring
- WHO is uniquely placed to coordinate the global effort through:
 - Strong presence in all countries through regional and countries offices
 - · Convening power
 - Well **established and comprehensive internal mechanisms** (Prequalification, Global Advisory Committee on Vaccine safety, SAGE, ...)
 - The Global Vaccine Safety Initiative