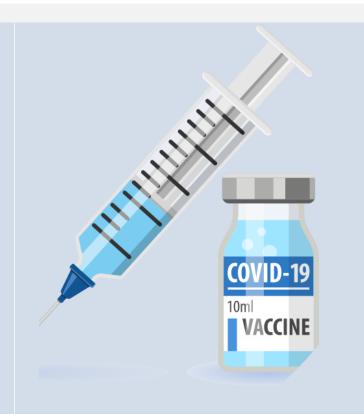
Pharmacovigilance of Covid19 vaccines opportunity for collaborations



Ghita Benabdallah CAPM, WHO CC for Strengthening PV practices

16th Annual IMSN Virtual Meeting November, 8-9, 2021







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- 1. Global context of the covid-19 pandemic
- 2. Global context of covid 19 vaccine PV
- 3. International collaboration
- 4. Moroccan experience in collaboration in the time of covid 19



Global context of the covid-19 pandemic

Unprecedented situation

Increasing mortality and morbidity

Very short period of time

Feeling of loss of control

Urgent decision

Media pressure

Large cohort of patients to be treated

No available drugs or vaccines

Special conditions
Containment

Probabilistic treatments

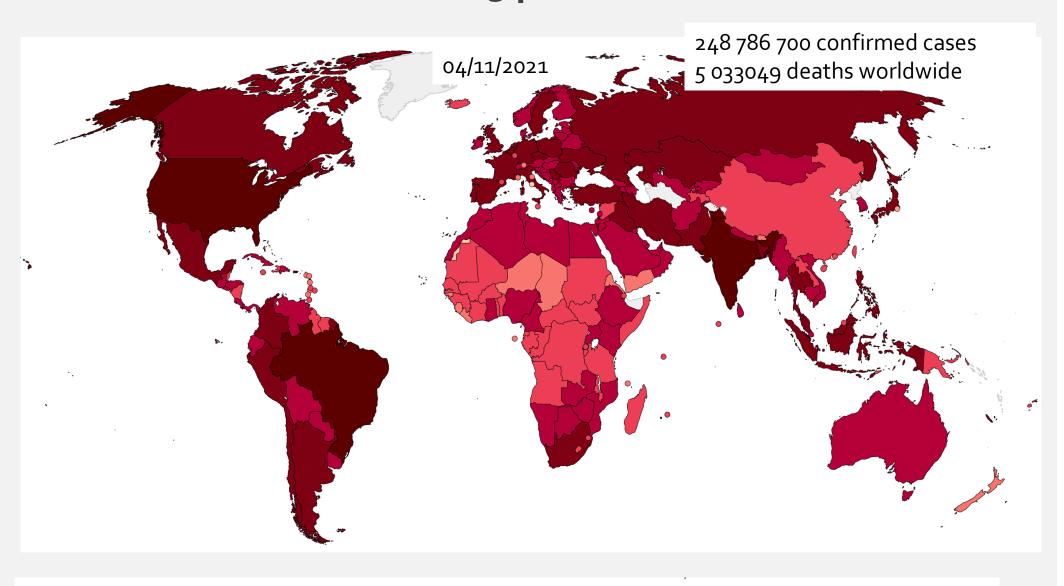
Mortality and morbidity keep on increasing

Response strategy:
Protective measures

Research and manufacturing of an anti-covid vaccine



Global context of the covid-19 pandemic



■1-99 ■100-999 ■1,000-9,999 ■10,000-99,999 ■100,000-999,999 ■1,000,000-9,999,999 ■10 million or more

Global response

A vital solution: the anti-Covid-19 vaccine

Immunization: main strategy to control the pandemic

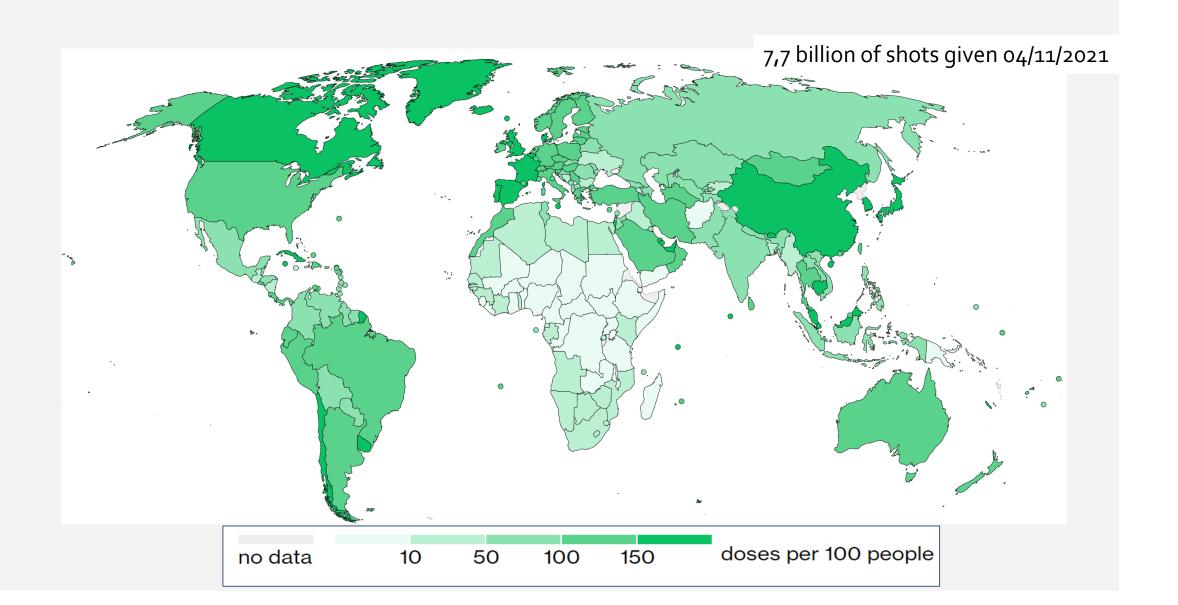
 Best option to gain collective immunity and protection against contamination and/or serious forms of the disease



Quick development of safe and effective vaccines

- Vaccine safety is based on clinical and pre-clinical data but also on efficient pharmacovigilance,
 - Nevertheless, the anti-covid-19 vaccine, an unprecedented situation
 - How solid are clinical trials data?
 - Are the countries ready to ensure vaccine safety?
 - Risk Management Plans

Global context of covid-19 vaccines administered



Global context of Pharmacovigilance of covid 19 vaccines

- Not all countries have national PV strategy
 - Factors affecting preparedness of PV systems :
 - Maturity of PV system,
 - Any governmental support
 - Program budget
 - Training facilities
 - Interactive participation of different stakeholders
 - Political stability in the country

Requirements for global vaccine response

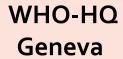
- It is essential that:
 - The anti Covid 19 vaccine is administered to as many eligible people as possible
 - The anti covid-19 vaccines are safely and effectively given
- Each country has a duty to develop a clear vaccination strategy including Risk Management Plan (RMP) to ensure patient safety within its country
- Pharmacovigilance activities should be strengthened, particularly PV of vaccines
- Sharing information with the international Pharmacovigilance program will provide mutual benefit



safety profile of these news vaccines

International level











Time for collaboration WHO/GACVS

- Global Advisory Committee on Vaccine safety (GACVS): Supports global community
 - Guidelines for countries
 - Experts recommandations



Appendix 6.1: Preparedness checklist for vaccine safety during pandemics recommended tool for national programme managers Need for minimum requirements checklist during a pandemic: During a pandemic, pre-existing systems need to be rapidly reviewed and assessed to determine if they are ust enough to address the anticipated unpredictable situations that may emerge during a pandemic that need decision making by ensuring that: tools and logistics are available to the appropriate safety focal persons and they know ho availability of appropriate well trained, empowered manpower who have clearly defined roles and responsibilities with a balanced workload; access to data and ability to convert data to information for action rapidly is available critical decisions can be made rapidily · communication is effective with relevant stakeholders involved in the responsi the response is coordinated: and any crisis occurring is pre-empted and addressed appropriately Ensure that high-quality training is available at all levels, and that vaccination staff (and Use existing tools and resources and 'adapt' them, if necessary, by making minimal e Use existing staff and build capacity and enhance their roles and responsibilities rath than introducing new staff. Identify the existing data and information management systems and plan their upgrade Use innovative ideas and strengths from the health care sector and also from other sector. including industry, businesses and private sectors.

FEARI BRING SHARE LAND SYSTEMS IN CHARLES IN NO COMBURGACIONS

Emergencies

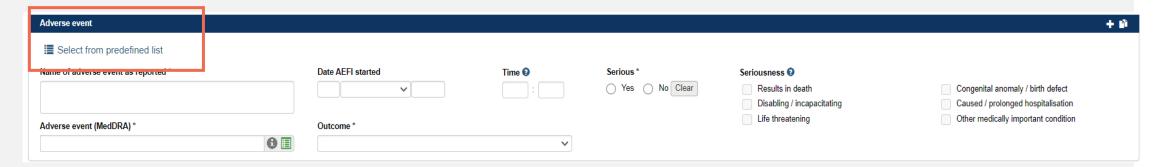
COVID-19 subcommittee of the WHO Global Advisory Committee on Vaccine Safety (GACVS): updated statement regarding myocarditis and pericarditis reported with COVID-19 mRNA vaccines

WHO/UMC - Database

- Vigiflow adapted to facilitate and make easier sending covid 19 vaccines AEFI and AESI
 - Based on the WHO AEFI reporting form/ inspired by some national AEFI reporting sheets
 - Focused on important data in terms of vaccine pharmacovigilance.
 - one page with several sections (Different langages, French translation/WHO CC Rabat)
 - Training courses organized to display new tools/ French training course by WHO CC rabat



Adapted Adverse Event coding: selected from a list of predefined terms

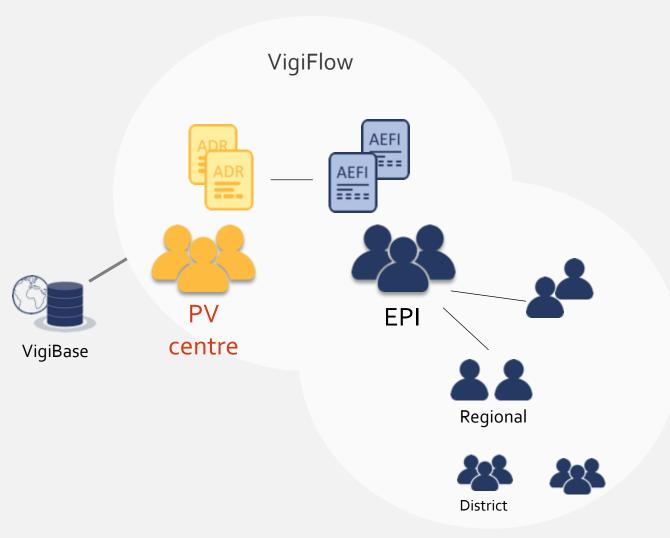


- Database analysis adapted to facilitate national analysis
- Regular publication of report on COVID-19 vaccines AEFIs safety profile of vaccines

WHO/UMC - Database

Include the Expanded Program on Immunization (EPI) in Vigiflow

 The implementation of AEFI reporting in VigiFlow will facilitate collaboration between the EPI / vaccination programs and the PV National Center in terms of vaccine safety monitoring



WHO/WHO CC, Rabat

- WHO CC Rabat mandated by WHO to share its experience in managing pharmacovigilance of covid 19
- Sollicited to train and build capacity in pharmacovigilance of covid 19 vaccines
 - French speaking countries
 - English countries (Africa)
 - Eastern mediteranean region countries
- Sollicited to assess PV system of countries to build a road map to PV strategy of covid 19 vaccines
 - Specific coaching in specific areas
- Sollicited to build up a regional advisory committee for PV of covid 19 vaccines in EMR countries

International Committees

- IMSN –Covid Vaccine Special Interest Group (CVSIG)
 - Communicate, share experience on Covid-19 vaccines safety issues
 - Make appropriate recommendations for global implementation

The two primary objectives of the *IMSN Covid-19 Vaccine Safety Interest Group* are:

- To address Covid-19 vaccine safety issues by sharing the experience and learning from member countries on issues being encountered during the vaccine rollout.
- MSN HIBATIDAL CVSIG
- To make appropriate recommendations for global implementation of safe Covid-19 immunization practices.

- African Advisory Committee on Vaccine Safety (AACVS)
 - Advisory committee of WHO/AFRO on strategic and policy matters on the safety, vigilance and risk management of vaccines and immunization
 - Covid 19 vaccines: Review and provide guidance and recommendations to the Regional Director on country readiness for safety monitoring and pharmacovigilance of COVID-19 vaccine



Time for collaboration International Committees

- CDC Advisory Committee on Immunization Practices' (ACIP)
 - COVID-19 Vaccine Safety Technical (VaST) Work Group (subgroup)
 - Provide updates on covid 19 vaccine safety
 - Pharmacovigilance Risk Assessment Committee (PRAC)/

 Covid19 EMA pandemic task Force (COVID-ETF)

 Search

 Medicines V Ruman regulatory V Veterinary requisitory V Veterinary Revisitory V Veterinary requisitory V Veterinary requisitory V Veterinary Revisitory V V

VaST Activities

Dec 21, 2020 – present

32 independent meetings to review vaccine safety data

take quick and coordinated regulatory action related to COVID-19 medicines

- FDA Vaccines and Related Biological Products Advisory Committee:
 - Provide independent expert advice on scientific, technical, and policy matters
 - Ex: Discuss request to amend Pfizer-BioNTech's Emergency Use Authorization (EUA) for administration of their COVID-19 mRNA vaccine to children 5 through 11 years of age.





Moroccan International implication Baseline

Expertise development

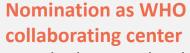
Participation in writing, editing and translating WHO guidelines
Nomination in the international committees and boards
Invitation to share experience and to participate in international meetings and trainings

Launch of Pharmacovigilance Training Course

- Run annually for 15 years (2007-2021) From onsite version to the online one
- Since 2020: From 2 weeks to 6 weeks More than 800 trained HCP across Africa (+Haiti)
- -Workshops: PV for SMC, patient safety and ME, ATC/ DDD methodology, PV in PHP

Seizing the opportunity of Covid-19

Solicited everywhere to train for handling the pharmacovigilance of covid vaccines



 At both national and international level

1990

• • •

2006

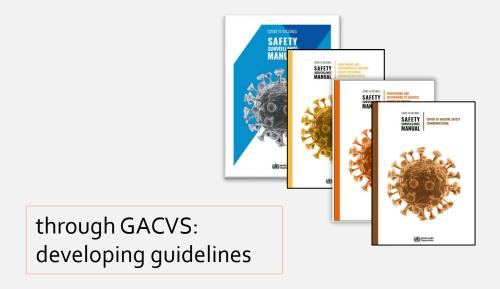
2007

2011

...

2020

2020



Sept2020

Dec 2020

2021

WHO and WHO EMRO: **Training of Trainers (ToT)**for EMR countries

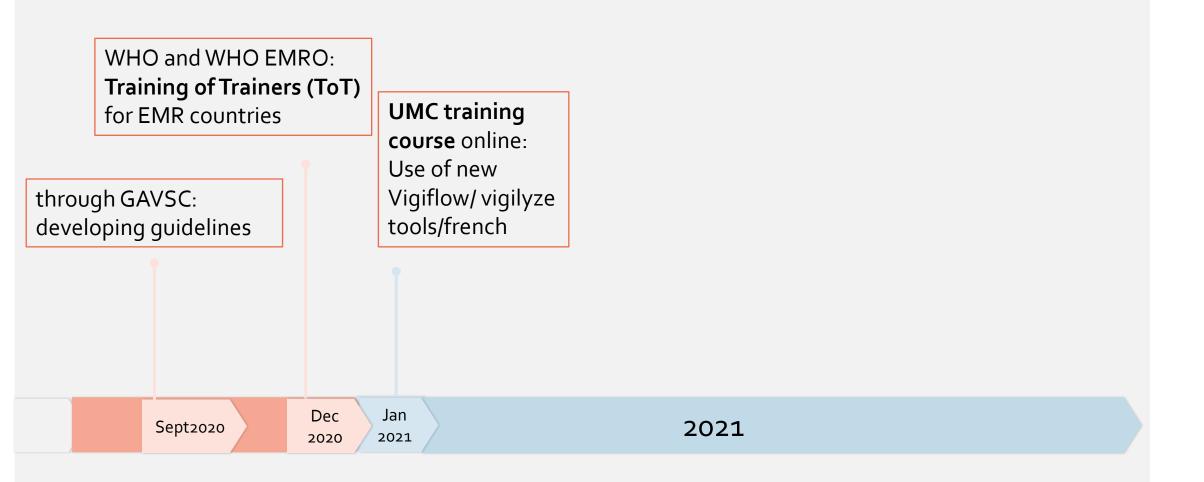
through GAVSC: developing guidelines

Outcome:

- Pool of trainers competent in PV of vaccines
- Updated knowledge of participants and experience acquired in training activities
- Included in regional pool of experts
- Expected to participate in training in their countries or countries in the region for building capacities for the Covid-19 vaccine safety monitoring

Sept2020 Dec 2020

2021



WHO and WHO EMRO: **Training of Trainers (ToT)** for EMR countries

through GAVSC: developing guidelines

UMC training course online: Use of new Vigiflow/ vigilyze tools Training on
Anticovid 19
vaccines PV
(WHOCC Rabat,
Access delivery
partnership, TDR
programme WHO)

Objectives

- Strengthen knowledge on AEFIs and PV
- Develop skills on concepts, tools and techniques used in this field
- Provide technical support to countries for adapting reporting tools and reporting means in COVID-19 context
- Provide technical support to countries for developing their country-specific training program and training materials for ToT trainings of HCP who will identify, manage and report AEFI

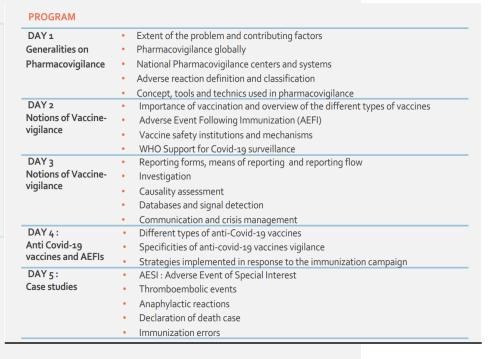
Sept2020

Dec 2020 Jan 2021 May-July-August-September-October 2021

WHO and WHO EMRO: **Training of Trainers (ToT)** for EMR countries

through GAVSC: developing guidelines

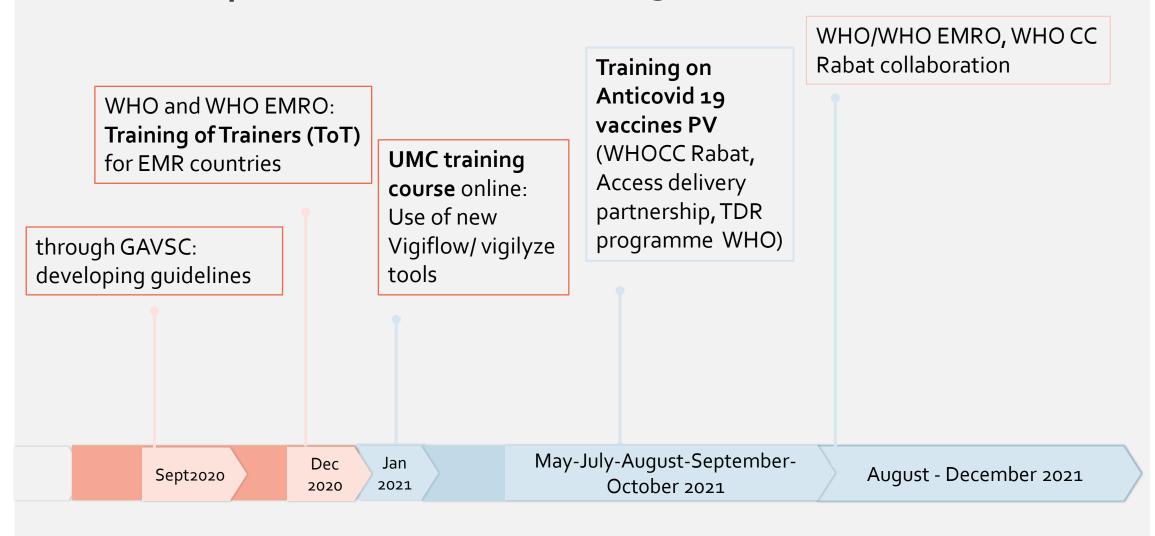
UMC training course online: Use of new Vigiflow/ vigilyze tools Training on
Anticovid 19
vaccines PV
(WHOCC Rabat,
Access delivery
partnership, TDR
programme WHO)



Sept2020

Dec 2020 Jan 2021 May-July-August-September-October 2021

Training on **Specific coaching** (BF, Senegal) Anticovid 19 Objectives WHO and WHO EMRO: vaccines PV Support country participants Training of Trainers (ToT) (WHOCC Rabat, in their training of trainers **UMC** training for EMR countries Access delivery Develop a cascade training **course** online: partnership, TDR road map for each country Use of new programme WHO) Finalize a training kit to be through GAVSC: Vigiflow/ vigilyze made available to trainers developing guidelines tools May-July-August-September-Jan Dec Sept2020 October 2021 2021 2020



WHO/WHO EMRO, WHO CC Rabat collaboration Training on Anticovid 19 WHO and WHO EMRO: vaccines PV Setting up Regional Advisory Training of Trainers (ToT) committee for PV of covid 19 (WHOCC Rabat, **UMC** training for EMR countries Access delivery vaccines **course** online: partnership, TDR Use of new programme WHO) through GAVSC: Vigiflow/ vigilyze developing guidelines tools May-July-August-September-Jan Dec August - December 2021 Sept2020 October 2021 2021 2020

WHO and WHO EMRO: **Training of Trainers (ToT)** for EMR countries

through GACVS: developing guidelines

UMC training course online: Use of new Vigiflow/ vigilyze tools Training on
Anticovid 19
vaccines PV
(WHOCC Rabat,
Access delivery
partnership, TDR
programme WHO)

WHO/WHO EMRO, WHO CC Rabat collaboration

ToR: Pooling specific expertise of countries in PV to enhance PV practices in the region

Exchange information of data and assess signal identified and management

Give advice and orientation on actions to improve PV in the region Take this initiative as a lever for strengthening PV in the region.

Sept2020

Dec 2020 Jan 2021 May-July-August-September-October 2021

August - December 2021

WHO/WHO EMRO, WHO CC Rabat collaboration Training on Anticovid 19 WHO and WHO EMRO: vaccines PV Training of Trainers (ToT) (WHOCC Rabat, **UMC** training Repository and global for EMR countries Access delivery **course** online: benchmark/listing, partnership, TDR classifying existing Use of new programme WHO) through GAVSC: Vigiflow/ vigilyze documents, analyzing and developing guidelines tools identifying needs **Objectives:** Designing training course divided in 3 levels... in progress May-July-August-September-Jan Dec August - December 2021 Sept2020 October 2021 2021 2020

WHO/WHO EMRO, WHO CC Rabat collaboration Training on Anticovid 19 WHO and WHO EMRO: vaccines PV Training of Trainers (ToT) (WHOCC Rabat, **UMC** training for EMR countries Access delivery Conducting studies **course** online: and providing data on partnership, TDR Use of new safety profile of AEFIs programme WHO) through GAVSC: Vigiflow/ vigilyze Sinopharm vaccines developing guidelines tools May-July-August-September-Jan Dec August - December 2021 Sept2020 October 2021 2021 2020

Moroccan data on PV of Covid 19 vaccines

Indicator	Global	Sinopharm	AstraZeneca	Pfizer	Janssen
Number of doses	47 623 193	34 173 454	8 765 099	3 436 277	112 271
Number of cases	33 448	18 434	12 794	1 147	676
rate /1000 doses	0,70	0,54	1,46	0,33	6,02

January 28th – October 31^{st,} 2021

Conclusion



• Countries are forced to face the covid 19 pandemic and vaccination campaign so they have to take this opportunity to lay the foundations of PV for the long term and use collaborating centres and committees for increasing knowledge, expertise and strategies.