



# Implementation of COVID-19 VE studies

Expert meeting on COVID-19 VE studies in health care workers, 26 January 2020



# European Commission is calling for coordination in MSs to develop COVID-19 vaccination strategies and vaccine deployment plans



Nov. 2020: **European Health Union** empowering the two agencies to jointly coordinate independent monitoring studies

## ECDC is requested to:

- Closely work with the EU-NITAGs collaboration, as secretariat and in close collaboration with WHO, to support MSs in developing vaccines deployment plans and vaccination strategies;
- Set up a system to collect vaccine coverage data;
- To promote and support the development of electronic immunisation registries;
- To support MS in decision making for planning deployment of COVID-19 vaccines, by developing scenarios for prioritisation strategy based on mathematical models.

## ECDC and EMA joint work is:

- To set up a **monitoring framework to estimate vaccination impact, effectiveness and promptly detect and analyse safety signals**

## ECDC Vaccine effectiveness monitoring in EU/EEA: 2021 feasibility studies



Initial step (10 month project, 2021)

- lay the ground to set up an infrastructure
- Tendered by ECDC through ECDC procurement procedure

## Overview of activities within the project



“Methodological” expert virtual meetings  
Coordination ECDC - Epiconcept

### **Vaccine effectiveness study in health care workers**

EU/EEA study protocol  
study implementation

### **Vaccine effectiveness study with a hospital based system**

EU/EEA study protocol  
study implementation

## Overview of activities within the project



Vaccine effectiveness study in **Long Term Care Facilities**  
study protocol

Vaccine effectiveness study in **outpatients**  
mapping current practices  
study protocol

Vaccine effectiveness study in **another setting**  
study protocol

# ECDC team



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**Extra slides**

## Countries expressing interest in ECDC VE studies



Belgium  
Bulgaria  
Croatia  
Czechia  
Estonia  
Finland  
France  
Germany  
Greece  
Ireland  
Luxembourg  
Malta  
Netherlands  
Norway  
Poland  
Portugal  
Spain





## Recruitment of sites, main criteria considered



- EU/EEA geographic representation
- High sample size
- Possibility to implement high quality and validated data on vac. Status
- Access to validated laboratory testing
- Previous experience with SARI surveillance (hosp study)
- Previous established cohort of hcw (hcw study)
- Ability to recruit and follow up HCW with regular testing / households members (hcw study)
- Possibility to implement immunogenicity profiles in a subset of the cohort (hcw study)



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

## Overview of EMA COVID-19 vaccine safety monitoring plan

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First ECDC Expert meeting on COVID-19 vaccine effectiveness studies

26 January 2021

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An agency of the European Union



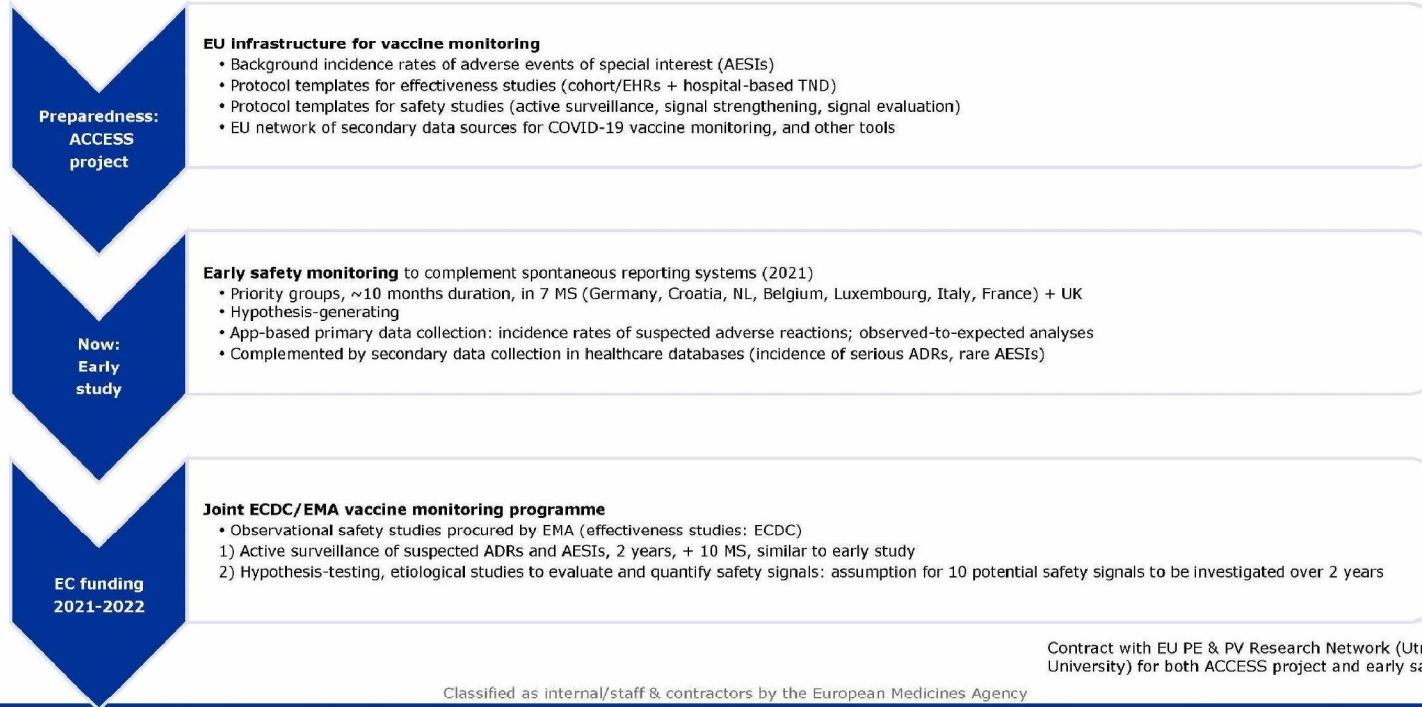


## Joint ECDC/EMA COVID-19 vaccine monitoring programme

- Nov. 2020: EC adopted a proposal to strengthen the EMA and ECDC mandates in response to learnings from the COVID-19 pandemic
  - Creation of a European Health Union, empowering the two agencies to jointly coordinate independent vaccine monitoring activities
- Safety studies to be procured by EMA through its framework contracts (similar to ECDC for effectiveness/impact studies)
- **Jointly managed vaccine monitoring platform with joint Advisory Board** to oversee prioritisation and implementation of vaccine safety and effectiveness studies



## Safety monitoring of COVID-19 vaccines



## Thank you for your attention

Questions: [REDACTED]@ema.europa.eu

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# Why health care workers

# Healthcare workers as priority group for vaccination against COVID-19



Version 1.1

13 November 2020

Version 1.1

13 November 2020

**Table 1. Epidemiologic setting and vaccine supply scenarios, and recommendations for priority use cases for vaccines against Covid-19 in the context of limited supply<sup>a,b</sup>**

**(a) Epidemiologic setting scenario: Community Transmission – defined in Legend 2**

**Overall public health strategy for this epidemiologic setting:** Initial focus on direct reduction of morbidity and mortality and maintenance of most critical essential services; also, reciprocity. Expand to reduction in transmission to further reduce disruption of social and economic functions.

(A1) (A2) (A3) (B1) (B2) (C1) (C2) (D1) – labels explained in Legend 1

Vaccine supply scenario	Priority groups
<b>Stage I</b> (very limited vaccine availability, for 1–10% nat. pop.)	Stage Ia (initial launch): <ul style="list-style-type: none"> <li>Health workers at <i>high to very high risk</i> of acquiring and transmitting infection as defined in Annex 3. (A1) (A3) (D1)</li> </ul> Stage Ib: <ul style="list-style-type: none"> <li>Older adults defined by age-based risk specific to country/region; specific age cut-off to be decided at the country level. (A1) (C1)</li> </ul>
<b>Stage II</b> (limited vaccine availability, for 11–20% nat. pop.)	<ul style="list-style-type: none"> <li>Older adults not covered in Stage I. (A1) (C1)</li> <li>Groups with comorbidities or health states determined to be at <i>significantly higher risk</i> of severe disease or death. Efforts should be made to ensure that disadvantaged groups where there is underdiagnosis of comorbidities are equitably included in this category. (A1) (C1) (C2)</li> <li>Sociodemographic groups at <i>significantly higher risk</i> of severe disease or death (depending on country context, examples may include: disadvantaged or persecuted ethnic, racial, gender, and religious groups and sexual minorities; people living with disabilities; people living in extreme poverty, homeless and those living in informal settlements or urban slums; low-income migrant workers; refugees, internally displaced persons, asylum seekers, populations in conflict settings or those affected by humanitarian emergencies, vulnerable migrants in irregular situations; nomadic populations; and hard-to-reach population groups such as those in rural and remote areas). (A1) (R1) (R2) (C1) (C2)</li> </ul>

## WHO SAGE ROADMAP FOR PRIORITIZING USES OF COVID-19 VACCINES IN THE CONTEXT OF LIMITED SUPPLY

An approach to inform planning and subsequent recommendations based upon epidemiologic setting and vaccine supply scenarios

Version 1.1  
13 November 2020



## Why assessing vaccine effectiveness in healthcare workers



- Healthcare workers are essential workers professionally exposed to SARS-CoV-2 who can be infected and transmit the virus to vulnerable patients
- Healthcare workers represent a group of individuals of working age with high exposure to SARS-CoV-2 (e.g. higher viral load and repeated exposures)
- Many healthcare workers have been infected with SARS-CoV-2 during the past year, so they represent a heterogeneous group, when it comes to previous infection, with potential diverse vaccine effectiveness



## Practical advantages of assessing vaccine effectiveness in healthcare workers



- Most countries have prioritised the vaccination of healthcare workers in stage/tier 1, so they are among the first to receive the vaccine
- Healthcare workers can be followed up and tested rather frequently with different outcomes that can be assessed
- Healthcare workers can be studied as a cohort to assess the effectiveness of COVID-19 vaccines against various outcomes, e.g.:
  - infection and onward transmission,
  - duration of protection,
  - Infection with SARS-CoV-2 variants
- The healthcare infrastructure can be used for e.g. sampling, recruitment, follow-up, and performance of testing