#### January 2022

# Global situation of the SARS-CoV-2







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# Part I

# A global view of the Covid-19 situation

### Corona - what is it?

A virus with the scientific name: SARS-CoV-2 (severe acute respiratory syndrome coronavirus type 2)

SARS-CoV, MERS-CoV (Middle East respiratory syndrome coronavirus) and also "common cold viruses" are coronaviruses

Coronaviruses are widespread among mammals and birds

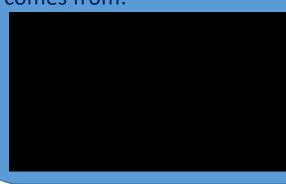
SARS-CoV-2 causes severe pneumonias

SARS-CoV-2 was first detected in China (Wuhan)





Watch the video, which describes where the virus comes from:



# What is a pandemic?

A global spread of a disease

Pathogens cause severe diseases and spread rapidly from person to person

High number of infected people at the same time and high mortality rates

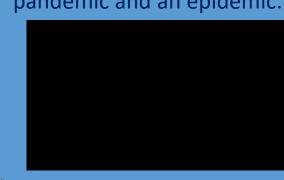
Pandemic pathogens overburden a country's health system

11th of March 2020: WHO (World Health Organisation) declares Corona-pandemic



- Black death (1347–1352) approx. 25 million dead
- Third plague pandemic (1894-1911) approx. 12 million dead
- Spanish flue (1918-1920)
   approx. 50 million dead

Watch the video, explaining the difference between a pandemic and an epidemic:



# **Facts and figures**

<u>Cases and deaths</u> in December 2021: 276 Mio. total cases; 5.37 Mio. deaths worldwide

Vaccination in December 2021: 8.47 billions doses administered; 3.63 billion people fully vaccinated (≙46.6% of the population)

Mental health: UNICEF conducted a study with 8,444 adolescents and young people between the ages of 13 and 29 → 27% feel anxiety and 15% depression

Check tests, cases and deaths for your country by following this link:

https://ourworldindata.org/coronavirus-data

Scroll to "country-by-country data on the pandemic" and enter your country to receive the respective data









Our World in Data Articles by topic Starth.



Statistics and Research

Coronavirus Pandemic (COVID-19) – the data

Research and data: Hannah Ritchie, Edxuard Mathlesi, Lucas Rodés-Guirao, Cameron Appel, Charlie Giattino, Esteban Ortiz-Ospina, Joe Hasell, Bobbie MacDonald, Diana Beltekian, Saloni Duttani and Max Roser

Web development: Lurs Yencken, Danief Bachler, Ernst van Woerden, Daniel Gavrilov, Marcel Gerber, Matthieu Bergel, and Jason Crawford

😂 The data on the conservation pendentic is codulated daily. Last updates an hour ago. 🔘 <u>Becaus out work Treaty</u> 🛢 <u>Citathia research</u>



### Preventive measures (according to WHO)

Get vaccinated Keep physical distance (at least 1 m) Wear a properly fitted mask Clean your hands frequently If you develop symptoms or test positive for COVID-19, self-isolate until you recover Find detailed videos and advices here: https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/videos



# Part II

# National pandemic plans

# What is a pandemic plan?

It is a strategic document, which defines a clear course of action with clearly defined competencies in case of a pandemic situation

It helps to react adequately to the pandemic situation without any delays

It is based on guidelines of the WHO

2 main parts:

- (1) Measures to protect the public
- (2) Scientific basis to support the protecting measures



#### <u>Find a list and links of European</u> <u>influenza pandemic plans here:</u>

https://www.ecdc.europa.eu/en/seasonalinfluenza/preparedness/influenza-pandemicpreparedness-plans

#### Or here:

https://www.euro.who.int/en/healthtopics/communicable-diseases/influenza/pandemicinfluenza/pandemic-preparedness/nationalpreparedness-plans

Watch the video, explaining the role of HERA\* in a pandemic:



<sup>\*</sup> HERA - European Health Emergency Preparedness and Response Authority

## Pandemic phases

1 low risk of human infections through animal pathogenic influenza viruses 2 high risk of human infections by circulating animal pathogenic influenza viruses 3 human infections by new virus types, no human-to-human spread 4 limited local human-to-human spread 5 major outbreaks, but still local 6 pandemic situation

Watch the video, explaining WHO's Strategic Preparedness and Response Plan to COVID-

# Pandemic phases and main actions by phase

	ESTIMATED PROBABILITY OF PANDEMIC	DESCRIPTION	MAIN ACTIONS IN AFFECTED COUNTRIES	MAIN ACTIONS IN NOT- YET-AFFECTED COUNTRIES
PHASE 1	Uncertain	No animal influenza virus circulating among animals has been reported to cause infection in humans.	Producing, implementing, exercising, and harmonizing national pandemic influenza preparedness and response plans with national emergency preparedness and response plans.	
PHASE 2		An animal influenza virus circulating in domesticated or wild animals is known to have caused infection in humans and is therefore considered a specific potential pandemic threat.		
PHASE 3		An animal or human-animal influenza reassortant virus has caused sporadic cases or small clusters of disease in people, but has not resulted in human-to-human transmission sufficient to sustain community-level outbreaks.		
PHASE 4	Medium to high	Human-to-human transmission of an animal or human-animal influenza reassortant virus able to sustain community-level outbreaks has been verified.	Rapid containment.	Readiness for pandemic response.
PHASE 5	High to certain	The same identified virus has caused sustained community-level outbreaks in at least two countries in one WHO region.	Pandemic response: each country to implement actions as called for in their national plans.	Readiness for imminent response.
PHASE 6	Pandemic in progress	In addition to the criteria defined in Phase 5, the same virus has caused sustained community-level outbreaks in at least one other country in another WHO region.		
POST-PEAK PERIOD		Levels of pandemic influenza in most countries with adequate surveillance have dropped below peak levels.	Evaluation of response; recovery; preparation for possible second wave.	\$ <b>3</b> \$
POSSIBLE NEW WAVE		Level of pandemic influenza activity in most countries with adequate surveillance is rising again.	Response	
POST-PANDEMIC PERIOD		Levels of influenza have returned to the levels seen for seasonal influenza in most countries with adequate surveillance.	Evaluation of response; revision of plans; recovery.	

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