

Hostec by World Health

Update on first COVID-19 vaccine efficacy results and country readiness

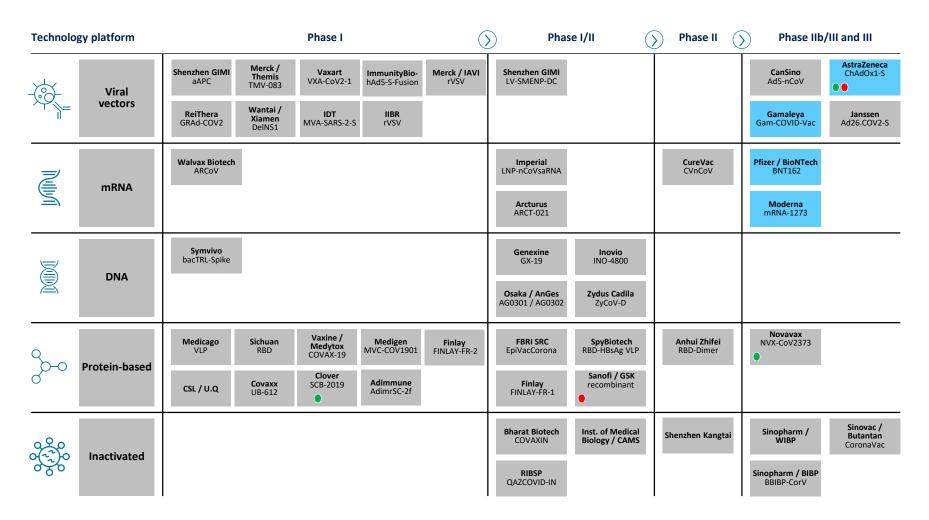
Dr Kate O'Brien, Director, Immunization, Vaccines and Biologicals (presenter) Dr Soumya Swaminathan, Chief Scientist

Member States COVID-19 Briefing 26 November 2020

COVID-19 Vx landscape – 47 candidates in human clinical trials

COVAX MoU or Sol signed¹
 CEPI agreement signed²

First efficacy results available (Zoom next page)



Source: CEPI Vx landscape

1. For Advance Purchase Commitment (APC)

2. For tech transfer, scale-out and reservation fees

First efficacy results of 4 vaccine candidates are now available (from press releases)

	Pfizer/BioNTech Full study results (Nov. 18)	Moderna moderna Interim study results (Nov. 16)	AstraZeneca Astrazeneca Interim_study results (Nov. 23)	Gamaleya Sputnik V 2 nd Interim study results (Nov. 24)
Technology platform	mRNA	mRNA	Viral vector	Viral vector
# of trial participants	43,000	30,000	24,000	18,794
Efficacy	95% (Efficacy in elderly of >94%)	94.5% (Efficacy in elderly not reported)	 70.4% combining data from 2 dosing regimens: 90% for halved first dose and standard second dose 62% efficacy for 2 full doses 	91.4% (28 days after the 1st dose & 7 days after the 2 nd dose)
# of confirmed cases	170 (162 in placebo group vs. 8 in vaccine group)	95 (90 in placebo group vs. 5 in vaccine group)	131	39 (31 in placebo group vs. 8 in vaccine group) ¹
Placebo:vaccine (randomization)	1:1	1:1	1:1	1:3
# of severe cases	10 (9 in placebo group vs. 1 in vaccine group)	11 (11 in placebo group vs. 0 in vaccine group)	No hospitalised or severe cases in anyone who received the vaccine	Not available
Median follow-up	> 2 months	> 2 months	Not available	Not available
Safety concerns	No serious safety concerns observed	No safety concerns	Not available	No unexpected adverse events

1. Ratio of the placebo group to the vaccinated group is 1 to 3

Zoom-in on products and regulatory pathway

	Pfizer/BioNTech	Moderna moderna	AstraZeneca Astrazeneca	Gamaleya Sputnik V
Cold chain	-80°C (UCC) 2-8°C for up to 5 days	-20°C 2-8 ° C for up to 30 days	+2 to +8°C for at least 6 months	+2 to +8°C
Full analysis of efficacy target	164 cases; complete	151 cases; pending	TBD cases; pending	TBD cases; pending (78 cases for 3 rd interim analysis)
Manufacturing	Ongoing	Ongoing	Ongoing	Ongoing
Production target in 2021, # of doses ¹	1.3Bn	500M to 1Bn	3Bn	1Bn
Regulatory Reviews	 Rolling reviews with SRAs WHO regulatory engaged 	 Rolling reviews with SRAs WHO regulatory engaged 	 Rolling reviews with SRAs WHO regulatory engaged 	 WHO regulatory engaged

Country readiness and delivery

Critical actions

Focus of this presentation

Priority decision making on:

- Policies for use (in-country prioritization)
- Regulatory approvals (e.g. WHO reliance mechanism)
- **Financing** (ensuring fiscal space, consideration of WB and other loans)
- Indemnification & liability

Technical & operational issues

- Country readiness assessments (cold chain, health facility, HCW etc.)
- National Deployment and Vaccination Plan
- Key bottleneck **analysis**

Global support to Policy Making for COVID-19 vaccine

SAGE Immunization

- 1. <u>The values framework for the allocation</u> and prioritization of COVID-19 vaccination
- 2. <u>The roadmap for prioritizing uses of</u> <u>COVID-19 vaccines in the context of</u> <u>limited supply</u> (including annex on health workers)

NB: living documents as new evidence emerges.

Next major outputs: Vaccine specific recommendations

Other documents:

<u>Critical Evidence Questions For COVID-19 Vaccines Policy</u> <u>Making</u> Prioritized Infectious Disease and Economic Modelling

Questions

See full list of documents and available translations: www.who.int/immunization/sage/covid-19_documents/en/

Information and tools for NITAGs

- ① 1. Guidance document for NITAGs and national policy decision-makers on COVID-19 vaccine introduction
- Infographic of the SAGE roadmap & training module
- 3. GNN monthly updates
- 4. NITAG Resource Center has inventory of existing NITAG interim recommendations
 - 5. Sysvac database (RKI & WHO HQ) -> December 2020

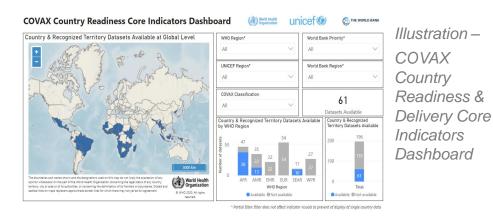
WHO Regulatory and Safety Monitoring Coordination and Leadership

	Criteria for evaluation of candidates vaccines published		
PQ/EUL	Call for Expressions of Interest for candidate vaccines in Phase IIb/III, with expected regulatory approvals within 6 months		
	Rolling reviews of data from vaccine candidates meeting criteria		
Roadmaps	Assessment pathways; WHO led global assessment involving "regional champions"; followed by facilitation for global national approval and active engagement with countries		
Labelling	Working Position established; to facilitate harmonization and timely global access to candidate vaccines		
Safety Monitoring	Global monitoring mechanisms coordinated by WHO; Regional and country support; guidance on requirements and methods		

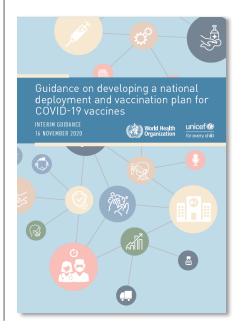
Critical resources to ensure country readiness

Vaccine Introduction Readiness Assessment Tool (VIRAT 2.0)

The VIRAT is the combination of 2 vaccine readiness assessments which had been developed concurrently in September 2020 by WHO/UNICEF (the VIRAT) and by the WB (the VRAF)



Guidance to develop a National Deployment and Vaccination Plan (NDVP)



- Published on Nov. 16th on the WHO website <u>here</u>
- Built upon existing
 documents incl.
 recommendations from the
 WHO Strategic Advisory
 Group of Experts (SAGE)
- Will be updated as new information becomes available

Data sharing is critical

Guidance for NDVP COVID-19 Vaccines (chapters)



Health Care Waste

8. Human Resources Management and Training



9. Vaccine Acceptance and Uptake (Demand)



10. Vaccine Safety Monitoring Management of AEFI and Injection Safety



11. Immunization Monitoring Systems



12. COVID-19 Surveillance



13. Evaluation of COVID-19 vaccine introduction

Deploying vaccines requiring UCC

Higher delivery costs

Non-standard cold chain requirements

will require investments in capital equipment and special equipment for handling deepfrozen shipments



Delivery of -80°C vaccines \$0.8- \$2.38 per dose ¹ above the costs to deliver a 2-8°C product

Additional considerations of Pfizer vaccine

Non-standard vaccine volume --- syringes (0.3 mL) Diluent HCW training Wastage

1. Based on COVAX analysis (ongoing)

Next steps for countries, WHO and partners

Country readiness work is essential

Country action on critical bottlenecks and data

- Support preparation for delivery of all vaccines with specific attention to UCC where needed
- Gavi Applications for AMC92 countries
- World Bank Applications for relevant countries

Back-up slides

Country readiness and delivery: upcoming resources

Guidance and Tools

- Operational guidance on National Vaccine Deployment Plans
- Field guide to misinformation management
- Country level monitoring guidance
- Detailed supply & logistics guide
- WHO's Maintaining essential health services: operational guidance for the COVID-19 context (June 1 update),

https://www.who.int/publications-detail/10665-332240

o ... and more!

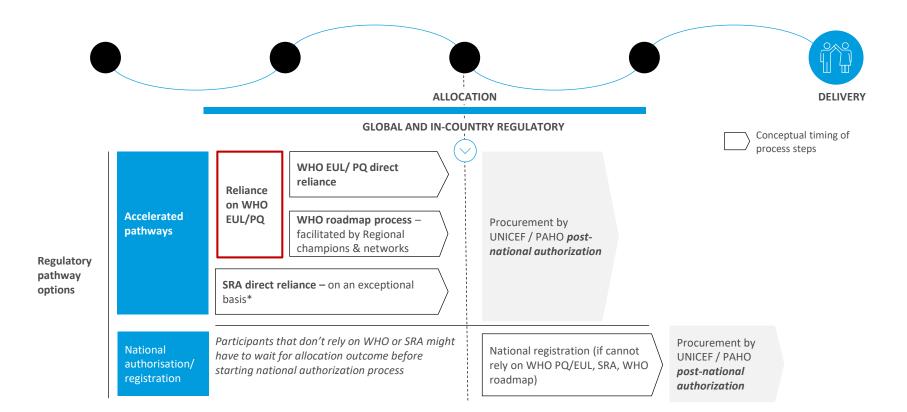


Trainings

- Training packages for health workers and national stakeholders
- Designed with end-users in mind (modular virtual and in-person training)
- Leverage existing e-learning platforms: Agora.unicef.org and openwho.org



Accelerated regulatory pathways will minimise the time for vaccine access (COVAX Facility)



* SRA reliance to be considered on an exceptional basis, as it would not necessarily include an assessment of the programmatic suitability of vaccine candidates and data sharing could not be facilitated by WHO in that case

WHO's ongoing COVAX regulatory work

- Alignment ongoing (Regulatory Advisory Group, ICMRA*, regional regulators)
- Biweekly regulatory updates, 15 regional update webinars
- Documents published
 - EUL procedure (Jan), Q&A (Jul)
 - Draft consideration criteria (Sep), expected final publication 20 November
 - Expression of Interest (EoI) (EUL/PQ) (Oct)
- >10 dedicated company meetings hosted prior to EoI publication
- Roadmap template (Published)
- Who working position on QR, barcodes and labelling published
- Safety preparedness manual
 - PV Preparedness checklist, AESI definitions, active surveillance methods, guidance on RMPS, PSURs, *ICMRA International Coalition of Medicines Regulatory Authorities data sharing platforms, reliance, work-sharing and risk communications

Next steps on WHO regulatory alignment activities for COVID-19 vaccines

- Continue implementation discussions with regional networks & reference NRAs
 - Two round tables of discussion with Regional offices for establishment of a mechanism for expedited approval in countries and monitoring performance of vaccines deployed to countries August 2020.
 - Nominations of regulatory authorities received from several regions.
 - Official communication with regulatory authorities.
 - Briefing on WHO led mechanisms to regulatory authorities and networks planned.
- Continue support for planning of **post-marketing / safety monitoring** in countries
- Continue engagement & alignment with regulatory bodies (e.g. ICMRA, regional regulatory networks, Reference NRAs)

Resources: Guidelines & Tools tailored to COVID-19 vaccination

Supporting countries with integrated package of guidance and tools to promote acceptance and uptake of COVID-19 vaccination Demand Planning package

- STARTS with listening to and understanding totality od health concerns of target populations, to generate social and behavioral data on the drivers of uptake and to design targeted strategies
 - Social Behavioral Drivers Assessment (survey, interview guidelines)
- BUILDS trust and acceptance of the vaccines through engagement of communities and civil society organizations, particularly for vulnerable target populations
 - Risk Communication and Community Engagement Guidance
- EQUIPS health workers with the requisite knowledge of COVID-19 vaccines as first adopters and as vaccinators, and skills for effective communication with target populations and communities
 - Guidance tailored for health workers, FAQ
- PREPARES countries to respond to any reports of AEFIs and have planning in place to mitigate any resulting crises of confidence.
 - GACVS vaccine safety communication plan
- BUILDS a supportive information environment. Guards against misinformation through integrated misinformation management <u>linking</u> social listening and analysis with online and offline risk communication and community engagement (RCCE) and advocacy.
 - Field Guide to Misinformation Management

World Bank Group financing to support COVID vaccine delivery: \$12bUS

- Options for 1) vaccine procurement based on their specific contexts and needs:
 - Participation in COVAX Facility
 - **Direct purchases** by countries from vaccine manufacturers
 - Purchase of excess stocks from other countries
- Can also be used for :
 - 2) Health system strengthening
 3)Technical assistance
- Loans or grant depending on country
- Reach: 141 countries
- 100 countries in 100 days
- "One country plan" for vaccine delivery

Ongoing collaboration between the World Bank and CRD:

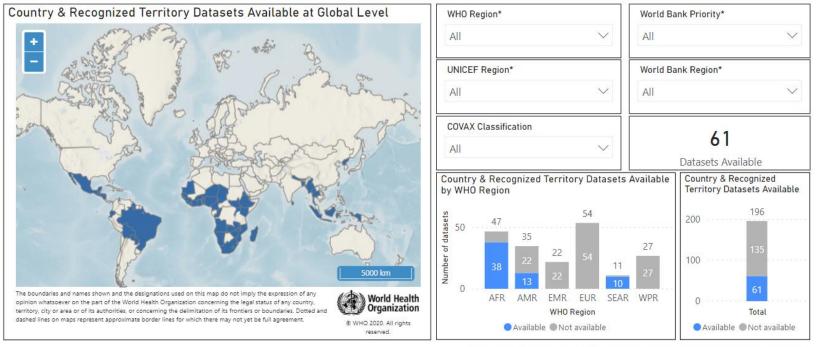
- High-level commitment to join forces
- WB sits on CRD Coordination WG and contributes to its life
- WB has committed 12b USD (going directly to countries governments) to support country procurement and health systems strengthening/preparedness
- Joint assessment of readiness and needs
- Joint application process for TA and grants
- Sharing of all data

COVAX Country Readiness and Delivery Core Indicators Dashboard (25 Nov 20)

COVAX Country Readiness Core Indicators Dashboard

World Health Organization unicef 😢 🛛 🚳 🖤

THE WORLD BANK



* Partial filter: filter does not affect indicator visuals to prevent of display of single country data.