

Fast-tracking of PQ/Emergency use listing (EUL)



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Vaccines: New challenges, New Paradigms, New Opportunities !
Session 2: Challenges and opportunities in Vaccine research and availability

Carmen Rodriguez, team lead vaccines PQ/EUL
Department of Regulation and Prequalification
At the Division of Access to Medicines and Health Products

Features of PQ and EUL



Prequalification (PQ) 1987

- Review of extensive quality, safety and efficacy and PSPQ for international supply
- Assessment performed by WHO independent experts
- Reliance on WHO Listed Authority (WLA) - abbreviated process under oversight of mature regulators (evaluation and oversight of programmatic aspects by WHO)
- Pre-submission meetings
- Post-PQ monitoring
- Reassessment/requalification

Emergency Use Listing (EUL) 2015

- **Risk benefit assessment of essential set of quality, safety and efficacy data for use during PHEs**
- **Rolling review of data**
- Assessment performed by WHO independent experts in collaboration with National Regulatory Authorities (WLA)
- Reliance on WLA - abbreviated process under oversight of mature regulators (evaluation and oversight of programmatic aspects by WHO)
- Pre-submission meetings
- **Post- deployment monitoring**
- **Time limited recommendation**
- **Development should continue for MA/PQ**

WHO regulatory preparedness for COVID-19 vaccines



WHO released “Considerations for the assessment of COVID-19 vaccines” (2020)



WHO issued a call for Expressions of Interest for Emergency Use Listing of COVID-19 Vaccines (2020)

First Invitation to manufacturers of vaccines against Covid-19 to submit an Expression of Interest (EOI) for evaluation by the WHO (Prequalification and/or EUL)

1. Introduction:
The World Health Organization (WHO), through its Department of Regulation and Prequalification (DRP), provides advice to the United Nations Children's Fund (UNICEF) and other United Nations (UN) agencies on the acceptability, in principle, of vaccines considered for purchase by such agencies. The purpose of the WHO prequalification assessment is to provide assurance that candidate vaccines: (a) meet the WHO recommendations on quality, safety and efficacy, including compliance with WHO recommended Good Manufacturing Practice (GMP) and Good Clinical Practice (GCP) standards; and (b) meet the operational specifications for packaging and presentation of the relevant UN agency. This is to ensure that vaccines provided through the UN for use in national immunisation services in different countries are safe and effective, and are suitable for the target populations, at the recommended immunisation schedules, and with appropriate concomitant products.

Several conditions apply for PQ evaluation (a) the vaccine is considered a priority for UN supply; (b) complies with mandatory characteristics for programmatic suitability (http://www.who.int/immunization_standards/vaccine_quality/vq_mrt/index.html); (c) the national regulatory authority (NRA) responsible for the regulatory oversight of the product has been assessed by WHO as "satisfactory"; and (d) a marketing authorisation (MA) or emergency use authorisation (or equivalent) has been granted by the relevant NRA.

The PQ process takes into account needs from WHO programmes (e.g. immunisation, Vaccines and Biologicals) and the International Health Regulations to comply with eradication, elimination or control initiatives as well as recommendations of WHO's Strategic Advisory Group of Experts (SAGE) on immunization.

WHO RPD has also developed the Emergency Use Listing (EUL) process to expedite the availability of unlicensed medical products needed in public health emergency situations. The process assists interested UN procurement agencies and Member States in determining the acceptability of using specific products in the context of a public health emergency (PHE), based on an essential set of quality, safety, and efficacy/immunogenicity data.

The EUL procedure defines (a) the steps that WHO will follow to establish eligibility of unlicensed products for assessment under this procedure, (b) the essential information required, and (c) the process to be used in conducting the assessment to determine whether an unlicensed product can be listed on a time limited basis, while further data are being gathered and evaluated. In addition, draft points to consider for the assessment of Covid-19 vaccines have been developed and published.

Call for EOI Covid-19_VB-FINAL_01/10/2020

... aiming for timely regulatory process while maintaining high evaluation stds for EUL/PQ

Source: https://www.who.int/medicines/regulation/prequalification/prequal-vaccines/WHO_Evaluation_Covid_Vaccine.pdf?ua=1

WHO alignment activities for COVID-19 vaccines

ongoing since Feb 2020

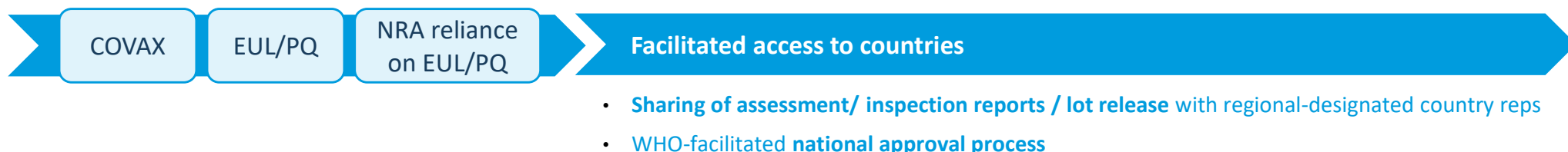
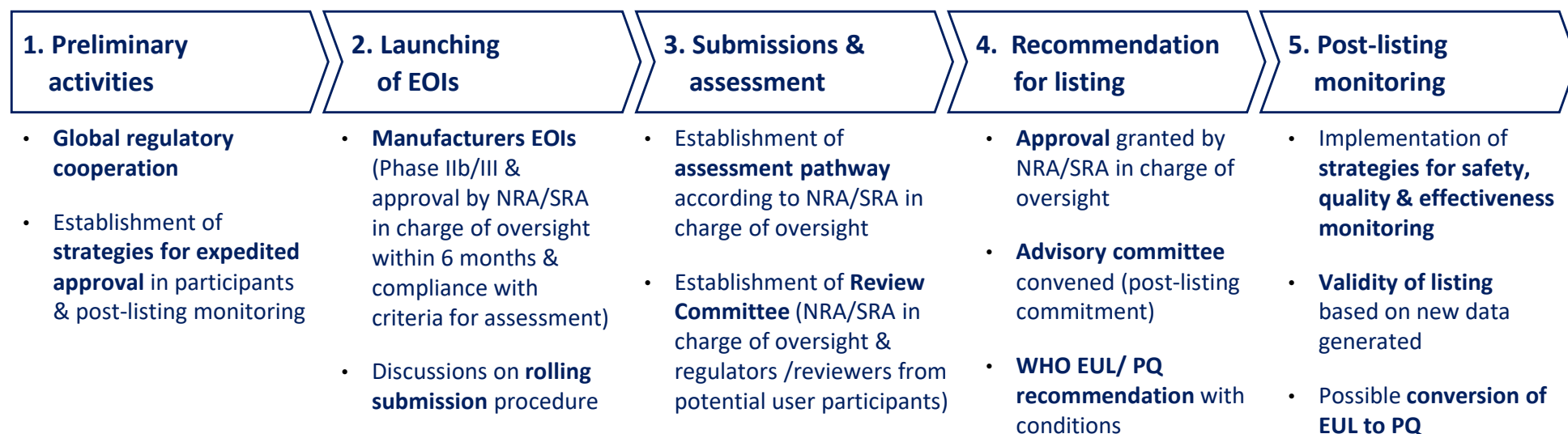


✓ Completed • Ongoing □ Details on following slides

Development criteria	Submission requirements	Assessment process	In-country approval for use & post approval monitoring
<ul style="list-style-type: none"> ✓ Target Product Profiles ✓ Expert Committee on Biological Standards guidance ✓ Regulatory guidelines 	<ul style="list-style-type: none"> ✓ EUL and PQ guidance and Questions & Answers ✓ EUL/PQ Expressions of Interest (conditions & evaluation criteria) • Labelling & packaging 	<ul style="list-style-type: none"> • Evaluation of candidates for EUL/PQ (incl. inspection, lot release process & post-listing commitment) • Interactions & agreements with NRAs/SRAs* • Global assessment process* with region-designated national authority reps 	<ul style="list-style-type: none"> • Country regulatory reliance on EUL/PQ* • Support for safety monitoring (based on safety preparedness manual) • Tools for risk communication and strengthening response capabilities
<ul style="list-style-type: none"> • Roadmap* to enable product specific regulatory alignment (assessment process, in-country approval & post-listing monitoring) • Alignment ongoing (Regulatory Advisory Group, ICMRA, regional regulatory networks, Vaccine cluster etc.) • Regulatory updates and webinars • Best practice principles for regulatory “agility” 			

* Elements of the *Roadmap for WHO Assessment of vaccine x during the COVID-19 Public Health Emergency*

In-country expedited approval for use & post-listing monitoring: the WHO regulatory alignment roadmap*



* Roadmap for WHO Assessment of vaccine x during the COVID-19 Public Health Emergency

Support to regions & countries

Designate lead NRAs in the region: WHO EUL assessment

Facilitation expedited national approval

Product Evaluation group (PEG):

Roster of experts, Regulatory experts all regions.

Technical Advisory group EUL (TAG-EUL):

Risk benefit assessment

<https://extranet.who.int/pqweb/vaccines/TAG-EUL>

Collaboration agreement with NRAs of references and others on regulatory oversight

1. Sharing dossier and EUL reports > 400 reports > 100 countries LMIC and HIC
2. Discussion on outcome of review: Facilitated workshops
One on one discussions with countries.
3. Additional guidance for decision making on expedited authorization
Support to RO and agencies providing relevant docs for actual shipments
4. Post listing changes: > 152 changes clinical, CMC and labelling/packaging changes

>100 countries granted EUAs within 15 days post EUL

Over 500 regulatory approvals of AZ donations based on reliance

WHO listed Covid-19 vaccines

Platform	Manufacturer / EUL holder / name	NRA of Record	Post-EUL commitments
mNRA-based vaccine encapsulated in lipid nanoparticle (LNP)	BioNTech Manufacturing GmbH BNT162b2 / COMIRNATY: Tozinameran (INN)	EMA, US FDA	<ul style="list-style-type: none"> • CMC updates • Clinical • Updated data on the efficacy/effectiveness • Updated RMP • Monthly safety reports, and Periodic Benefit Risk Evaluation Reports (PBRER) every 6 months • Updated labelling, shipping validation (if applicable) and data for VVM • Others:
	Moderna Biotech, mRNA-1273: elasomeran (INN)	EMA, US FDA	
Recombinant ChAdOx1 adenoviral vector encoding the Spike protein antigen of the SARS-CoV-2	AstraZeneca, AB: AZD1222 Vaxzevria	EMA, Health Canada, MFDS, MHLW-PMDA, TGA	
	Serum Institute of India Pvt. Ltd: Covishield (ChAdOx1_nCoV-19)	DCGI	
Recombinant, replication-incompetent adenovirus type 26 (Ad26) vectored vaccine encoding the SARS-CoV-2 Spike (S) protein	Janssen–Cilag International NV: Ad26.COV2.S	EMA	
Inactivated, produced in Vero cells	Sinopharm / Beijing Institute of Biological Products Co., Ltd. (BIBP)	NMPA	
	Sinovac Life Sciences Co., Ltd.: Coronavac™	NMPA	

Post-EUL commitments (details)

- CMC updates: stability, trends and others
- Clinical: ongoing efficacy/effectiveness data in different target population/comorbidities
- Updated data on the efficacy/effectiveness of the vaccine against disease caused by emerging SARS-CoV-2 variants of concern (such as B.1.1.7, B.1.351, P.1, B.1.617.2 and others).
- Updated RMP based on assessment vaccine safety profile
- Monthly safety reports, and Periodic Benefit Risk Evaluation Reports (PBRER) every 6 months
- Updated labelling, shipping validation (if applicable) and data for VVM

Post-EUL commitments (details)

- Others:
 - a) report serious adverse events following immunization (within 15 days of receipt of the report);
 - b) report quality complaints from the field for batches supplied;
 - c) report any change that may have an impact on the quality, safety and/or efficacy of the vaccine or change the basis of the regulatory approval by the NRA of reference (NMPA);
 - Expansion capacity: New sites
 - New storage conditions
 - New indications
 - New presentations
 - Shelf life updates
 - d) report any problems/constraints in production or quality control which might affect the emergency use condition granted to this product.

Additional information EUL:

Covid 19 vaccines: Guidance documents and EUL submissions

<https://extranet.who.int/pqweb/vaccines/covid-19-vaccines>

Target product profile

https://www.who.int/docs/default-source/blue-print/who-target-product-profiles-for-covid-19-vaccines.pdf?sfvrsn=1d5da7ca_5&download=true

Evaluation criteria and EOI. https://www.who.int/medicines/regulation/prequalification/prequalification-vaccines/resources/1_EOI-Covid-19_Vaccines.pdf?ua=1

Roadmap <https://www.who.int/publications/m/item/roadmap-for-evaluation-of-astrazeneca-azd1222-vaccine-against-covid-19>

Contact: WHOEUL@who.int



WHO/Crisis B.



WORKING
TOGETHER



Department of Regulation and Prequalification, WHO