

Webinar Series: The Role of Vaccination in Maintaining Health and the Economy During Pandemics

### Building the Right Regulatory Environment for COVID-19 Response & Long-Term Health Resilience

8 July 2021 21:00 (Washington, DC)
9 July 2021 9:00 (Singapore)
13:00 (Auckland)



Yi-Chu (Judy) Lin Senior Specialist, Taiwan Food and Drug Administration (TFDA) Ministry of Health and Welfare

## Regulatory Agility and Expedited Approach in Emergency Use Experience Sharing from TFDA

9 July, 2021

### Dr. Yi-Chu (Judy), Lin

Senior Specialist Division of Medicinal Products Taiwan Food and Drug Administration (TFDA) Ministry of Health and Welfare (MOHW)





http://www.fda.gov.tw/

## Outline



## **Current Status of COVID-19 Pandemic**

(updated 30<sup>th</sup> June 2021)



Data from https://www.cdc.gov.tw/

## **Public Health Management of COVID-19**

## Non-Pharmaceutical Interventions:

- Public masking
- Wash hands
- Social distancing
- Early and active identification, isolation, and contact tracking and tracing

## Pharmaceutical interventions:

- Vaccine
- Therapeutic drugs





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## **Response to COVID-19 Pandemic**



## **Domestic Pharmaceutical Development**



Active Ingredient	Company	Approval Date by TFDA	Review Time (calendar day)
Remdesivir	Gilead	June 2, 2020 (EUA)	< 10 days
COVID-19 Vaccine	AstraZeneca	Feb. 20, 2021 (EUA)	~ 30-45 days
COVID-19 Vaccine	Moderna	Apr. 22, 2021 (EUA)	~ 30 days



## Outline



## Global Race for COVID-19 Vaccines

- There are now 17 vaccines been developed and available in use within 1.5 years since the outbreak of COVID-19 in the late 2019.
- Around the world, there are now 103 COVID-19 vaccine candidates undergoing clinical trials and 184 candidates in preclinical development.



https://www.gavi.org/vaccineswork/covid-19-vaccine-race

Last updated on June 30<sup>th</sup>. 2021

## **Accelerating COVID-19 Vaccines Development**



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## **Regulatory Framework for Emergency**





## Law for Authorization and Procurement

### Implementation of EUA approach

### Article 48-2 of the <u>Pharmaceutical Affairs Act</u>

- The central competent health authority may approve to manufacture and import the specific drugs as special case:
  - For the purpose of prevention, diagnosed as life-threatening, severely disability diseases, and there is no domestic appropriate drug or alternative treatment.
  - In responding to the necessity of emergency public health circumstances

### Article 51 of the <u>Communicable Disease Control Act</u>

 When communicable disease occur or are expected to occur, the central competent authority for the reason of emergency, may procure pharmaceuticals and equipment, provided that the relevant documents shall be filled within six months and complete the test.

## **Documents Required for EUA Application**

- Article 3 of the Regulations for Approval of Specific Medical Products' Manufacturing or Importing :
  - A complete prevention or therapy protocol and related references; The contents of the protocol shall include the application purpose of responding <u>the emergency public</u> <u>health circumstances</u> and documents to show <u>the benefits</u> <u>will greater than the risks</u>.
  - **The amounts** of the drug and the calculation basis.
  - Instructions of the drug ( or the package insert)
  - The certificates of the market approval in regulatory authorities of the reference pharmacopeia or the drug' s
    - manufacturing and quality control documents,
    - the animal study reports,
    - the clinical data,
    - risk-benefit assessment report

## **Checklist for Application and Review (Clinical)**

### **Technical documents of Phase II application on clinical trials**

Objectives: Immunogenicity and safety

Phase I clinical study report : Interim Report is acceptable

- □ The results of **immunogenicity** for each vaccination in all dose groups.
- The results of neutralizing antibody titers for each vaccination in all dose groups. (including: methods for detection and quantification of neutralizing antibodies, seroconversion rate in each dose group. Seroconversion rate, defined as a 4-fold increased in antibody titer from baseline.)
- □ The safety reports of the 21-28 day follow-up for each vaccination.
- □ The rationale of dose selection in Phase II clinical trials.

### **Technical Documents of Emergency Use Authorization (EUA)**

Clinical Data: All clinical trial reports, including un-published paper or literature

Efficacy: Vaccine efficacy or preliminary efficacy data that might predict protection against COVID-19, Immunogenicity in adult and elderly populations

- Safety: Assess the whole population (at least 3000 participants, and track down at least 1 month after the last dose) and the special ethnic group (including the elderly over 65 yr.). In addition, need to accumulate the safety data of different clinical phases, the safety assessment of specific ethnic group, major adverse effect assessment and vaccine-enhancement reports.
- □ Lot-to-lot clinical consistency trial results: using **3 batches** (in principle)

## **Minimal Requirement for EUA- CMC 1**

### Chemistry, Manufacturing, and Control

### ✓ Drug Substance

Manufacture, characterization and elucidation of structure, control of drug substance, reference standards or material, container closure system, stability data, etc. should be provided

### ✓ Intermediate

Composition, manufacture, controls of intermediate, container closure system, stability data, etc. should be provided

### ✓ Drug Product

Description and composition of the drug product, pharmaceutical development, manufacture, control of excipients, control of drug product, reference standards or material, container closure system, stability data, etc. should be provided

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## **Minimal Requirement for EUA- CMC 2**

### **Quality Control and Specifications**

### Manufacturing Process Controls and Development

- 1. Manufacturing process controls and development of commercial batches for drug substance and drug product and process validation
- 2. Specifications of batch release, validation of analytical methods
- 3. Stability protocol and report
- 4. Comparability test (clinical trial batch and commercial batches)

### Test items of quality specifications, such as:

□ Appearance

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Sterility

Potency test

- Identification
- □ Content of Antigen □ Abnormal toxicity test
- Content of Adjuvant 
  Other parameters depend on characteristics

Bacterial Endotoxin

15

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## Minimal Requirement for EUA- Pharm/Tox

### Pharmacology and Toxicology

- ✓ <u>Vaccine-induced Disease Enhancement</u>: evaluation of vaccine-associated enhanced disease through animal challenge studies (including immunopathology, viral load or titer, BW, etc.)
- ✓ <u>Safety Pharmacology</u>: Including assessment of effects on cardiovascular, central nervous and respiratory systems
- ✓ **Single (Repeated) Dose Toxicity :** complete study report
- ✓ **Genotoxicity** : complete study report
- ✓ <u>Reproductive and Development Toxicity</u>: complete report
- ✓ **Local Tolerance :** Draize Scoring (or other suitable test method)



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## **Minimal Requirement for EUA- Clinical**

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### Clinical

- ✓ **Clinical data :** All clinical trial reports and literatures of the vaccine
- ✓ Assessment report of the risks and benefits : should include over 3,000 vaccine recipients with at least one month safety follow-up data after completion of the full vaccination regimen and a median followup duration of at least two months
  - ► Efficacy : vaccine efficacy or or preliminary efficacy data that might predict protection against COVID-19; Immunogenicity of ≥65yr population
  - Safety : safety population and specific subgroups for safety assessment, all safety data accumulated from all Phase studies, adverse events of special interest, vaccine-induced disease enhancement assessment
  - Manufacturing consistency: lot-to-lot consistency trial

## **Current Consideration on Safety and Efficacy**

### Safety

- Over 3,000 vaccine recipients with at least 1 month of safety follow-up data after the completion of the full vaccine regimen.
- All vaccine recipients with the median follow-up duration of at least 2 months after the completion of the full vaccine regimen.

### Efficacy

As the emergency situation, it might be considering to utilize the immuno-bridging method and adopt immunogenicity (neutralizing antibody) as surrogate endpoint to evaluate whether the vaccine has triggered the same immunogenicity as the vaccine that has been used in emergency.

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## **Review Process of EUA for COVID-19 Vaccines**

#### **COVID-19 vaccines manufacturers**

Weekly meeting with vaccine developers, On-site audit for GMP compliance, Rolling review, Synchronous testing

Submit an EUA application to TFDA under emergency public health circumstances

**TFDA/CDE review, Advisory Committee** 

TFDA issue an EUA after ensuring the quality, safety and efficacy of the COVID-19 vaccine

Manufacture the COVID-19 Vaccine based on the granted EUA

Apply for lot release by manufacturers

TFDA issue the Lot Release Certificate. The vaccines can be sold and supplied after receiving a Drug Approval Seal.

Vaccines used in accordance with the policy

Article 48-2 of the PAA; Regulations for Approval of Specific Medical Products' Manufacturing or Importing

#### **Documents required for EUA application**

- A complete prevention or therapy protocol and related references
- ✓ The amounts of the drug and the calculation basis
- ✓ Instructions of the drug
- ✓ The CMC, Pharm/Tox, Clinical technical documents of the drug#

Article 74 of the PAA; Regulations of the Lot Release Procedures



## **Accelerate Review Approaches**



### **Taiwan Food and Drug Administration**

- Division of Medicinal Products
- Division of Research and Analysis
- Division of Quality Compliance and Management



### **Center for Drug Evaluation**

• Technical reviewers with strong background in medicine, pharmacology, chemistry, biology, statistics and other life science-related fields



### **Advisory Committee**

 External experts from medical centers and academia, etc.





## **Review Optimizing Measures**

### **1. Priority Review**

- Accelerated approval approach
- Rolling submission and rolling review
- Technical advice from advisory committee

### 2. Review Considerations and Flexibilities

- Develop checklists of clinical trials and EUA applications for COVID-19 vaccines
- Adopt international Guidelines

### 3. On-site audit for GMP compliance

• GMP inspectors on-site checking for the quality of production during R&D stage

### 4. Develop analytical methods

- Develop validated analytical methods for vaccine development
- Set up reference standard for the analysis of vaccine potency





## **Project Team Consultation**

- Timely communication on regulatory, manufacturing process development, clinical and Pharm/Tox issues
- Weekly meeting with progress checking and assistance



# Regulatory guidance program for the development of domestic COVID-19 medicinal products

- Project team set up for each selected application
   Provide free and active consultation
- **Quick response** (initial response in 3~7 days) for inquiries
- Aim for shortening the time required for the development of COVID-19 medicinal products, including drugs, vaccines and medical devices.

## **Expert Meeting to Formulate Guidelines**

In order to accelerate the development of COVID-19 Vaccine, TFDA has convened several expert meetings.



## **Clinical Trial Recruitment Platform**



## Outline



## **Challenges for Decision-Making**

### Maximize the Benefit and Minimize the Risk

• No vaccine is 100% effective and safe

### Standard Parameter for Vaccine Protection

Criteria for issuing an EUA

### Number of Subjects Required for Vaccine Safety

26

### New Technical Platform

• Cold chain and GDP (Good Distribution Practice)

## **Challenges for Vaccine Confidence**

### Vaccine Safety Monitoring

Post-vaccination surveillance and vaccine injury relief

### Vaccine Interchangeable

• The safety and efficacy of a mixed-product is not confirmed

### Duration of Protection

- Booster or not? The dosing interval?
- More Information about Variants

## Outline



## **Public-Private Partnership**



## **Technical and Financial Supports**

### **Technical Support Platform**

- Support by National Health Research Institute (NHRI) and Academia Sinica
  - Provide animal study services, set up blood sample bank of COVID-19 confirmed cases
- Department of Medical Affairs and Hospital and Social Welfare Organization Administration Commission
  - Assist on accelerating the administrative process of clinical trials

### **Government Incentives / Subsidies**

Subsidy program for domestic potential COVID-19 vaccines

 Supported by Center for Disease Control (CDC), MOHW
 Grants for the R&D and Clinical Trials of potential COVID-19 vaccines

 A<sup>+</sup> Industrial Innovation R&D Program

 Supported by Department of Industrial Technology (DOIT), MOEA
 Subsidies for industries to get involved in innovation, development and research programs



## **International Cooperation**



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## **Virtual Meeting on COVID-19**

16th June, 2020

Actions taken by regulatory authorities on

- (1) prevent <u>drug</u> <u>shortages</u>
- (2) satisfy the increasing demands for <u>alcohol-based sanitizer</u>
   <u>products and personal</u>
   <u>protective equipment</u>
   (3) fulfill the needs for

diagnostic test kits



## **Future Prospects**

Timely access to the COVID-19 vaccines or drugs through risked-based regulatory decision making while not compromising products' quality, safety and efficacy

Enhance post-vaccination surveillance to monitor the safety and effectiveness

Promote international regulatory cooperation, information sharing and reliance



Taiwan Food and Drug Administration Ministry of Health and Welfare



# Thank You For Your Attention

Dr. Yi-Chu (Judy), Lin yclin@fda.gov.tw



http://www.fda.gov.tw/



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8 July 2021 21:00 (Washington, DC)
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John Lim Executive Director, Centre of Regulatory Excellence Duke-NUS Medical School


# Regulatory Agility During and After COVID-19

**Professor John CW Lim** 

Executive Director, Duke-NUS Centre of Regulatory Excellence Core Lead (Policy), SingHealth Duke-NUS Global Health Institute Senior Advisor, Ministry of Health Singapore Chairman, Consortium for Clinical Research & Innovation Singapore



Duke-NUS Centre of Regulatory Excellence



## Scope

- □ Enabling Good Regulation in the Asia-Pacific
- □ Pre-COVID-19 Regulatory Trends
- □ Regulatory Agility during COVID-19
- □ Regulatory Trends to 2030
- Advancing Regulatory Agility & Innovation

# **Good Regulation is an Enabler**

#### Regulation impacts global & national socio-economic-political environment





## **Asia-Pacific Regulatory Enablers**

- 1. Adopt **risk-based approaches** to help overcome resource limitations
- 2. Promote **regulatory cooperation**, recognition and reliance to facilitate convergence and harmonisation
- 3. Develop **regional platforms** for engagement, collaboration and capacity building

Lim JCW, Chan CL, Green A. *Global Challenges in Regulatory Capacity and Capability Building: Extrapolating Lessons Learned From the HSA*. Clinical Pharmacology & Therapeutics, Advance on line publication, November 20, 2018. DOI: 10.1002/cpt.1253



## Global Trends impacting Regulatory Science since 2010

- 1. Expanding digital health opportunities due to rapidly advancing Infocomm Technology (ICT), e.g. AI, block-chain
- 2. New and enhanced treatment modalities and platform technologies, e.g. innovative & advanced therapies, vaccines
- 3. Precision medicine and personalised healthcare
- 4. Demand for responsive, on-demand healthcare
- 5. Accelerating health products access through multilateral cooperation
- 6. Increasing importance of adopting agile approaches



# **Pre-COVID-19 Regulatory Trends**

- 1. Steady development of **regulatory convergence initiatives** supporting regulatory agility and regulatory science & policy development
- 2. Strengthening of **WHO initiatives** in cooperation, convergence & Good Reliance Practice
- 3. Pan-global organisations, e.g. ICMRA
- 4. **Regional initiatives**, e.g. APEC LSIF RHSC\* with KPI identification to track convergence progress, ASEAN harmonisation efforts

\* Life Sciences Innovation Forum Regional Harmonisation Steering Committee

- 5. **Cross-regional initiatives**, e.g. ACCESS Consortium (Australia, Canada, Switzerland, Singapore, UK)
- 6. Academic capacity building and think tank centres, e.g. APEC RHSC COEs\*, PMDA Asia Training Center, Duke-NUS CoRE

\* Centers of Excellence



 National Regulatory Authorities (NRAs) facilitated access to essential COVID-19 health products through effective, agile regulation

Mak TK, Lim JCW, Thanaphollert P, Mahlangu GN, Cooke E, Lumpkin MM. Global regulatory agility during covid-19 and other health emergencies. BMJ. 2020

- Regulatory Agility refers to adoption of *risk-based, context-driven* approaches and regulatory cooperation predicated on sound scientific evidence and information
- Involves non-traditional approaches to robust regulatory decision-making while not compromising safety, quality and efficacy
- "Agility" is preferable to "flexibility" which may connote unsafe cutting of corners

# **Regulatory Agility during COVID-19**

- The pandemic has advanced
   (a) *regulatory coordination and information exchange* (b) use of *reliance, referencing* and *convergence*
- Speedy vaccine approval facilitated by

   (a) *parallel development* processes
   (b) *rolling data reviews* (c) *emergency use authorisations* and *conditional approvals* (d) on-going adverse event and *real world monitoring*
- Use of regular virtual & online meetings by WHO, ICMRA, regional regulatory groupings and NRAs

The COVID-19 Crisis as an Opportunity to Strengthen Global Regulatory Coordination for Sustained Enhanced Access to Diagnostics and Therapeutics. Clinical and Translational Science. 13 Dec 2020. DOI: 10.1111/cts.12954

# **Regulatory Agility during COVID-19**

 Emergency use authorisation and conditional approval approaches for new diagnostics, therapeutics and vaccines while awaiting more data for full approval

https://www.duke-nus.edu.sg/core/think-tank/core-regulatory-perspective/making-sense-of-emergency-use-authorisations-(euas)-for-covid-19-vaccines-and-considerations-for-the-road-ahead

 Preliminary guidelines on updating currently available vaccines for new SARS-CoV-2 variants by NRAs (e.g. US FDA, EMA) and regulatory consortia (e.g. ACCESS)

https://www.duke-nus.edu.sg/core/think-tank/core-regulatory-perspective/regulatory-agility-and-global-coordination-to-meet-the-challenge-of-covid-19-variants-preparing-for-the-next-generation-vaccines

### **Regulatory agility** should become part of **regulatory "new normal"** to support innovation and future public health challenges

The COVID-19 Crisis as an Opportunity to Strengthen Global Regulatory Coordination for Sustained Enhanced Access to Diagnostics and Therapeutics. Clinical and Translational Science. 13 Dec 2020. DOI: 10.1111/cts.12954

# **Building Regulatory Agility**



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### **Convergence supports Regulatory Agility**





## **Duke-NUS Centre of Regulatory Excellence**

Enhance regional health systems & policy

Strengthen regulatory systems for health-related products in Asia-Pacific



Promote thought leadership and policy innovation

#### Advisory Leverage expertise and networks to support stakeholders

### Education

Enhance capabilities and competencies of regulatory professionals



**Networking & Collaboration** 

Provide a neutral academic platform for engaging and connecting a diverse range of stakeholders

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### **CoRE's Strategic Focus Areas Based on Regulatory Trends to 2030**

- 1. Patient Engagement promote patient involvement in Asia-Pacific health systems, e.g. Coalition to Advance Patient Engagement (CAPE)
- 2. Digital Health define scope, domains and relevant regulatory frameworks
- **3.** Innovative Therapies enhance coordinated regulatory frameworks and capacity
- 4. MedTech enhance regulatory frameworks and capacity
- 5. Innovative Clinical Trials clarify regulatory positions, e.g. RWE, digital endpoints, interoperability, security
- 6. Outbreak Vaccines, Therapeutics & Diagnostics promote regulatory agility & robust decision frameworks



# **Digital Health**

(as an Example)

- Digital technologies are essential component and enabler of sustainable health systems and universal health coverage
- WHO promotes Infocomm Technology in health development through research, guidelines, capacity, policy and advocacy support
- Wide scope and issues, e.g. AI, Mobile Health, Big Data Analytics, RWE, Blockchain, Cybersecurity, Interoperability, Software as Medical Device, Electronic Health Records......
- All have regulatory implications and challenges

Due to multi-stakeholder interest and lack of legacy regulatory frameworks, opportunity exists for coordinated solutions

# 7 Pre-requisites for Regulatory Agility

- 1. **Trust** fundamental for adoption of *innovative therapies* (e.g. vaccines), assuring *patient data confidentiality*, and advancing *personalised digital health* & telemonitoring solutions
- 2. Transparency data capture and use
- **3. Training** level up regulatory capabilities for therapeutic and policy innovations
- 4. **Testing** regulatory sandboxes, e.g. telemedicine
- 5. Trans-national bodies for coordination, convergence and information exchange, e.g. WHO, ICMRA, APEC
- 6. **Transfer** cross-jurisdictional frameworks to promote interoperability and data exchange
- 7. Timeliness

# **Advancing Regulatory Agility & Innovation**

To advance regulatory agility and innovation over the next decade:

- Institute Regulatory Enablers risk-based regulation, regulatory cooperation, regulatory stakeholder platforms, capacity building
- Benchmark other economies' regulatory frameworks but understand context, e.g. APAC Personalised Health Index https://futureproofinghealthcare.com/asia-pacific-personalised-healthindex
- Apply COVID-19 Lessons for Agile Regulation risk-based, cooperation, sound scientific evidence
- Commit to Collaborate



# **Thank You**

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Fiona Frappier Manager, Office of Policy and International Collaboration, Biologics and Radiopharmaceutical Drugs Directorate Health Canada





# Health Canada's Regulatory Response to COVID-19: Expediting Access to Critical Health Products





# Health Canada mobilized quickly to help limit the spread of COVID-19 in communities and support the healthcare system

Central to the public health response was an **urgent need for medical supplies and health products** to test for, treat and prevent COVID-19, such as:



Testing Devices And Supplies



Personal Protective Equipment for Medical Purposes



Hand Sanitizers and Disinfectants



Investigational Drugs and Vaccines





Our agile regulatory response is facilitating expedited access to needed products without compromising safety

### Our approach:

### **Regulatory and administrative agilities**

to expedite access to safe and effective COVID-19 health products

### **Outreach and engagement**

to provide guidance, advice, and priority information to businesses eager to mobilize products

### International collaboration

to advance global solutions and ensure alignment with key regulatory partners



# **International Collaboration**

Working with our international partners on a coordinated and well-aligned approach to respond to the COVID-19 pandemic:

- This involves discussing, collaborating and leveraging resources on issues related to:
  - clinical trials and investigational testing
  - drug and medical device market authorizations
  - health product risk assessments
  - potential drug and medical device shortages

#### ICMRA: Health Canada is playing a leadership role in helping align policy approaches and regulatory agility

- Health Canada co-chairs, with the UK Medicines and Healthcare products Regulatory Agency (MHRA), the ICMRA COVID-19 working group. This group actions and provides recommendations on priority topics and issues raised during the ICMRA COVID-19 policy discussions by heads of agencies.
- Health Canada also co-chairs the ICMRA COVID-19 committee for global regulatory cooperation on real-world evidence and observational research with the European Medicines Agency (EMA).
- We also actively engage in the proceedings of the ICMRA international regulatory workshops on the development of COVID-19 vaccines and treatments as well as vaccine vigilance.

## **International Regulatory Initiatives**

Health Canada leveraged existing partnerships during COVID-19, including:

- International Coalition for Medicines Regulatory Authorities (ICMRA) as an executive committee member and plays a leadership role in aligning policy approaches and regulatory agility
- World Health Organization's research and development (R&D) blueprint vaccines plan to develop a COVID-19 vaccine
- Pan American Health Organization as a member of its COVID-19 task group
- ACCESS Consortium: Points to consider for strain changes in authorised COVID-19 vaccines in an ongoing SARS-CoV2 pandemic



# Important temporary measures are providing agility in a time of crisis





### We are responding to industry needs during the pandemic

Examples of additional administrative agilities and guidance provided to support industry in meeting the urgent need for health products:

#### Interim policy measures to...

- Prioritize the review of all COVID-19 related health product applications
- Support the sale and distribution of sanitizers and disinfectants
- Promote electronic and virtual processes where possible, such as conducting remote inspections

#### Guidance on...

- Acceptable process adaptations for clinical trial sponsors
- Developing serological antibody tests
- Importing or selling COVID-19 supplies, such as medical gowns, gloves, ventilators, and respirators
- Manufacturing hand sanitizers

## **Anticipated benefits**

### **Patients**

Would see timely access to promising new innovative products that can positively impact their health.

### Health Care System (including PTs)

Would see efficient access to promising advanced therapeutics while remaining confident that the health and safety of Canadians are being protected.





### International harmonization

Would be facilitated, making Canada a market that is aligned with other major jurisdictions such as like the US and EU.

### **Health Product Innovators**

Would see an opportunity to bring innovative products to market which current regulations cannot accommodate, and Canada as a more competitive space to do business.





Our swift regulatory actions have enabled access to thousands of products for communities and healthcare professionals

Since March 2020, Health Canada approved:





# **COVID-19 Food and Drug Regulation objectives**

Allow continued and timely access to safe and effective COVID-19 drugs for Canadians by normalizing the review, authorization and oversight of COVID-19 drugs under the *Food and Drug Regulations* 

- 1) Enable the sale and advertising of COVID-19 drugs after the Interim Order ceases to have effect, and once authorized under the Regulations
- 2) Enable both COVID-19 drugs that were authorized under the ISAD Interim Order and new COVID-19 drugs to seek authorization under the Regulations with similar flexibilities as had been provided under the Interim Order
- 3) Permit continuity of the post-market regulatory obligations after expiration of the ISAD Interim Order
- 4) Continue to allow the early importation (pre-positioning) of a promising COVID-19 drug, for which a Government of Canada contract for its procurement is in place, prior to that drug receiving market authorization in Canada
- 5) Continue a flexible framework for Drug Establishment Licences (DELs) that authorizes regulated activities in respect of COVID-19 drugs

## **Canada Gazette Publication**

On March 31, 2021, transitional provisions to the Food and Drug Regulations were published in the <u>Canada Gazette</u>, <u>Part II</u> and the accompanying Guidance on amendments to the Food and Drug Regulations for drugs for use in relation to COVID-19.

Certain provisions of the amendments came into force on March 18, 2021, while others will come into force on the date that the IO expires on September 16<sup>th</sup>.

The <u>Regulatory Impact Analysis Statement</u> and published <u>guidance document</u> that contains additional information for drug sponsors.

# Authorization of COVID-19 drugs under the Regulations with similar flexibilities as under the Interim Order

Notice of Compliance (NOC) and Terms and Conditions

- Continue to accept rolling submissions by accepting new evidence as it becomes available during the review period, supported by a plan for information that is filed by the sponsor at time of initial submission
  - Vaccines and novel treatments will likely gain market access through a rolling submission, potentially with international collaboration
- Maintain regulatory **flexibilities on data requirements** and the ability to impose or amend terms and conditions on the DIN (drug identification number)
  - Examples of terms and conditions can include a risk management plan and/or pharmacovigilance and risk minimization measures and/or Phase IV trials
- Maintain the flexibility related to no requirement for brand name assessment and label mock-ups

### Guidance on amendments to the Food and Drug Regulations for drugs for use in relation to COVID-19: Overview

Overview	Preparing a submission	Drug establishment licences and good manufacturing practices
Intellectual property	Post-market requirements	Pre-positioning of COVID-19 drugs
Submission scenarios, reference documents and key contacts		

This guidance applies to sponsors of new COVID-19 drug submissions as well as sponsors seeking a Notice of Compliance (NOC) for COVID-19 drugs that received temporary authorization under the <u>Interim order respecting the</u> <u>importation, sale and advertising of drugs for use in relation to COVID-19</u> (ISAD IO). It also applies to new COVID-19 drug establishment licences under the *Food and Drug Regulations*.

This document will help manufacturers prepare a submission for a Notice of Compliance for a COVID-19 drug under the *Regulations*. It also outlines the process for meeting the post-market regulatory requirements.

### On this page

- <u>Background</u>
- Scope and application



# Guidance for market authorization requirements for COVID-19 vaccines: Overview

Overview	Rolling submissions, non-clinical and clinical requirements	Quality, manufacturing and lot release requirements
Labelling and post-market requirements	Requirements for vaccines to address SARS-CoV-2 variants	Review process, communications and transparency

### On this page

- <u>Background</u>
- · About this guidance document
- <u>About market authorizations for a COVID-19 vaccine</u>
- · Note about guidance documents in general
- <u>Guidance for implementation</u>

### Background

COVID-19 is the infectious disease caused by the most recently discovered coronavirus, SARS-CoV-2. This new virus and disease were unknown before the outbreak began in December 2019 and have since spread around the world.



# **Requirements for vaccines to address SARS-CoV-2 variants**

 Variant strains of SARS-CoV-2 are emerging that may affect the level of protection provided by currently authorized COVID-19 vaccines. As a result, manufacturers are adapting authorized COVID-19 vaccines to provide protection against infection and disease caused by virus variants.

The submission type for a variant COVID-19 vaccine will depend on the specific vaccine, taking into account:

the platform used

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- whether the proposed variant vaccine is a version of an already authorized COVID-19 vaccine
- the extent of change from the previously authorized version
- Vaccine manufacturers seeking to obtain market authorization for a variant COVID-19 vaccine should consult with us to discuss their regulatory filing plans.

# Quality, non-clinical, clinical and post-market requirements

- Health Canada have collaborated with the Access Consortium to develop a <u>guidance document</u> to support regulatory alignment on the minimal requirements for variant COVID-19 vaccine authorization.
- Sponsors should refer to the Access Consortium points to consider for strain changes in authorized COVID-19 vaccines in an ongoing SARS-CoV-2 pandemic for specific guidance on the quality, non-clinical, clinical and post-market information required to support authorization of a variant COVID-19 vaccine.
- The Access Consortium guidance is closely aligned with international regulators, including guidance released by the European Medicines Agency (EMA) and US FDA.
- An updated Risk Management Plan (RMP), including a Canadian-specific addendum, should be submitted to ensure that adverse events can be appropriately captured for both the variant and prototype vaccine versions. The safety specification, pharmacovigilance plan and risk minimization plan should be updated for both variant and prototype vaccine versions. Traceability of the brand and batch, and distinguishing suspected AEFIs with new and old formulations should be a key focus of the updated RMP.

## **COVID-19 required an unprecedented regulatory response to make** sure Canadians had access to needed health products

### Our approach:

### Proactive engagement and collaboration

with stakeholders and health system partners to provide timely advice and guidance, as well as heightened collaboration with international regulators to ensure alignment.

### **Emergency regulatory pathways and measures**

to prioritize and expedite the review and licensing processes, including use of agile regulatory tools and approaches (e.g., T&Cs, rolling reviews).

### Enhanced post-market surveillance

of safety and effectiveness, including life-cycle oversight of approved products, adjusting T&Cs based on emerging information, real-time response to and information sharing of safety signals.

### Increased communications and transparency

including release of clinical data, to support high demand for information and data from broad range of stakeholders on regulatory requirements and decisions.



## **Questions and comments**

