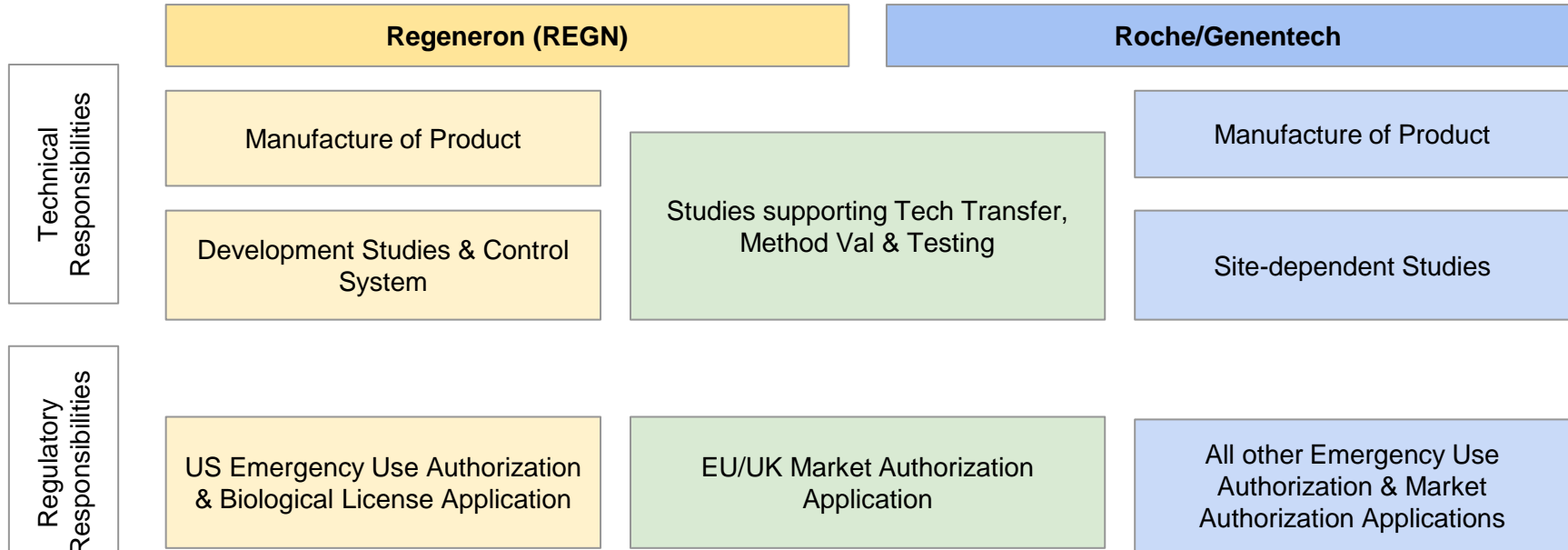


# From Benchtop to Approval in Record Time: A Case Study of Ronapreve

Part 2

# Partnership between Regeneron and Roche

Roche entered into a collaboration with Regeneron in summer 2020 to increase the global supply of the REGN-COV2 antibodies



# J-NDA Required Documentation for Exceptional Approval Pathway

## Exceptional approval pathway was requested early in submission preparation and confirmed by MHLW at approval

- Only five other products have been confirmed exceptional approval by MHLW
  - As of Oct 26: Remdesivir, Comirnaty, Covid-19 Vaccine Moderna, Vaxzevria, Sotrovimab
- Minimum CMC documentation for exceptional approval is the Application Form (M1.2)
  - Information of formulation (composition)
  - Manufacturing sites
  - Manufacturing process description, basal media composition
  - Release test methods, specifications, and reference standard
  - Storage conditions and shelf-life setting
- However in Ronapreve case, PMDA required M1/M2.3/M3, same as normal filing
- To speed preparation, EU M3 was leveraged and submitted to PMDA as is

# J-NDA Module 3 Rolling Review Timeline

## ***March 2021***

- Molecule general information and characterization
- DS Process, Controls, Validation, and Platform SL Strategy

## ***April 2021***

- DP Process, Controls, and Validation

## ***May 2021***

- Comparability package for Roche sites
- Stability Updates

## ***July 2021***

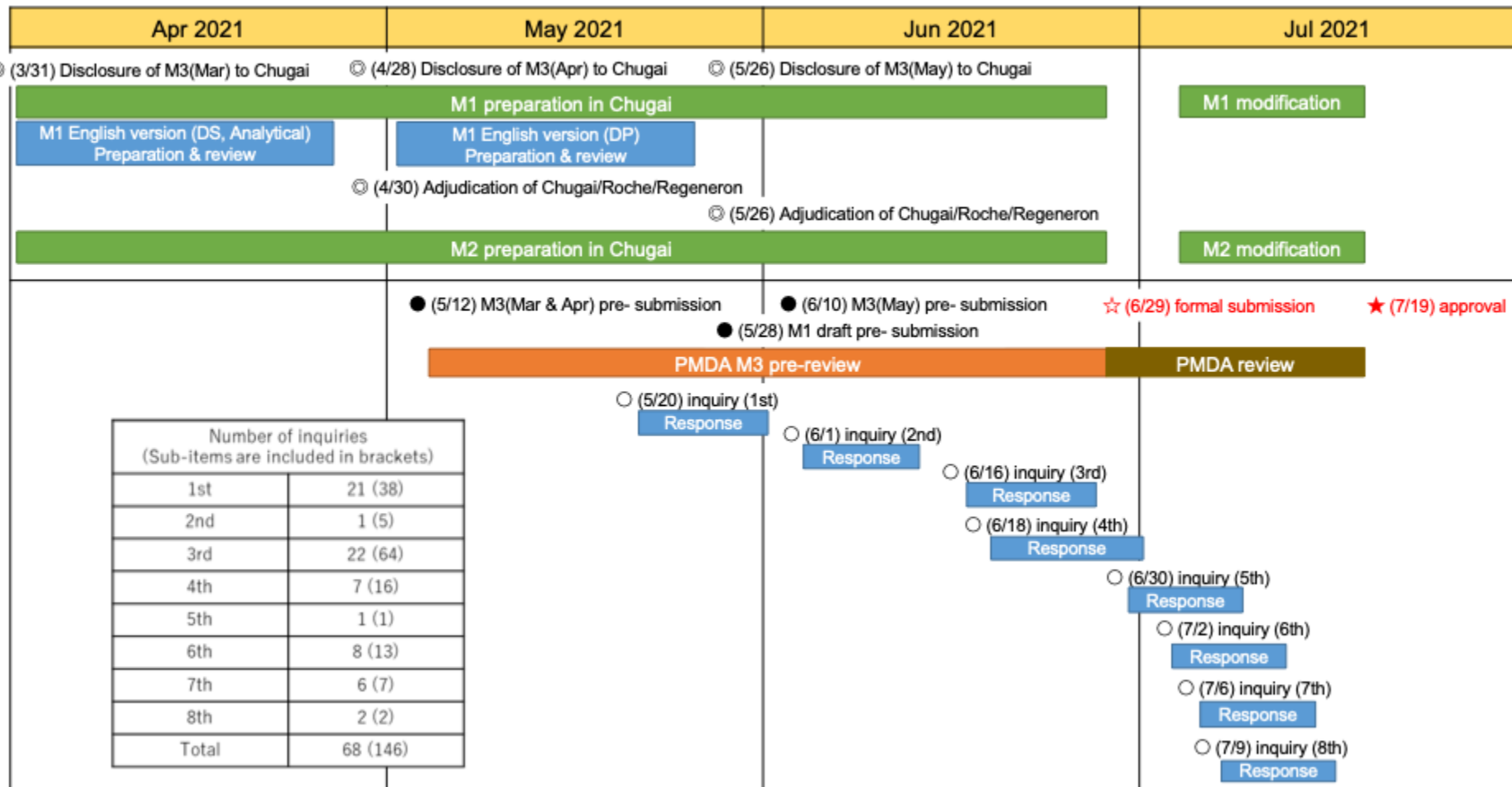
- Final virus clearance validation data\*

**Close collaboration and  
communication with the  
HA made this work!**

\*negotiated with PMDA before submission

# Ronapreve J-NDA timeline

Chugai/Roche/Regeneron collaboration !!



Number of inquiries (Sub-items are included in brackets)	
1st	21 (38)
2nd	1 (5)
3rd	22 (64)
4th	7 (16)
5th	1 (1)
6th	8 (13)
7th	6 (7)
8th	2 (2)
Total	68 (146)

# Lessons Learned

## **Expectation Setting and Pre-negotiation with the HA is key**

- PMDA was familiar with timing and content of rolling review
- Allowed for some data to be provided post-approval

## **Leverage novel ways of working**

- Worked to create JM1 and JM2 from EU M3

## **Utilizing a shared web-based platform between multiple companies speeds rapid response to HA questions**

## **Translation and back translation takes significant time and effort during short turn around Q&A responses**

# Ronapreve Global Highlights

**1.5M**

Doses to be delivered to patients by end of 2021



**IMA**



4 Approvals - JP, UK, AU, and EU approvals received in record time from date of submission

**59**

EUA & Import Licence Approvals



**~70%**

reduction in risk of hospitalization or death in non-hospitalized patients



**20%**

reduction in risk of mechanical ventilation or death in hospitalized patients

**775+**



Q&A Answered (150 in Japan in 1.5 months)

**800+**

Module 3 Documents

Multiple updates to sections as a result of rolling review submission



**4**

- Pre-exposure prophylaxis
- Post-exposure prophylaxis
- Hospitalized
- Non-hospitalized

