



COVID-19 Clinical Management

Advancing the care pathway

Therapeutic Guideline Development

STEP 1

WHO Therapeutic Steering Committee
Scanning and prioritization

STEP 2

Meta Analysis

STEP 3

Guideline Development Group Meetings

STEP 4

Recommendation Writing
GRC, PRC, external review

STEP 5

Publication
Dissemination and development of tools



World Health
Organization

Therapeutic Update: Publication date 24 September 2021

Casirivimab / Imdevimab – Neutralizing Monoclonal Antibodies

Therapeutics and COVID-19: living guideline - World Health Organization (WHO)

7. Recommendations for therapeutics

7.1 Casirivimab and imdevimab (neutralizing monoclonal antibodies)

For patients with non-severe COVID-19 (who do not meet criteria for severe or critical infection)

Conditional recommendation

New

We suggest treatment with casirivimab and imdevimab, conditional to those at highest risk of hospitalization.

- Whereas casirivimab and imdevimab achieves a substantial reduction in the relative risk of hospitalization, the absolute benefit will be trivial or unimportant in absolute terms for all but those at highest risk for which the intervention should be reserved.
- The panel identified a risk beyond 10% of being hospitalized for COVID-19 to represent a threshold at which most people would want to be treated with casirivimab and imdevimab.
- In the absence of credible tools to predict risk for hospitalization in people infected with COVID-19, typical characteristics of people at highest risk include lack of vaccination, older people, or those with immunodeficiencies and/or chronic diseases (e.g. diabetes).

For patients with severe or critical COVID-19

Conditional recommendation

New

We suggest treatment with casirivimab and imdevimab, under the condition that the patient has seronegative status.

- With benefits of casirivimab and imdevimab observed only in patients with seronegative status, clinicians will need to identify these patients by credible tests available at the point of care to appropriately apply this recommendation (see Evidence to Decision section).
- Treatment with casirivimab and imdevimab is in addition to the current standard of care, which includes corticosteroids and IL-6 receptor blockers.

Therapeutics and COVID-19

LIVING GUIDELINE
31 MARCH 2021



Suggested regimen

People with non-severe disease

People with severe or critical disease

Casirivimab and imdevimab

1200-2400 mg

Intravenous
or subcutaneous

One off dose

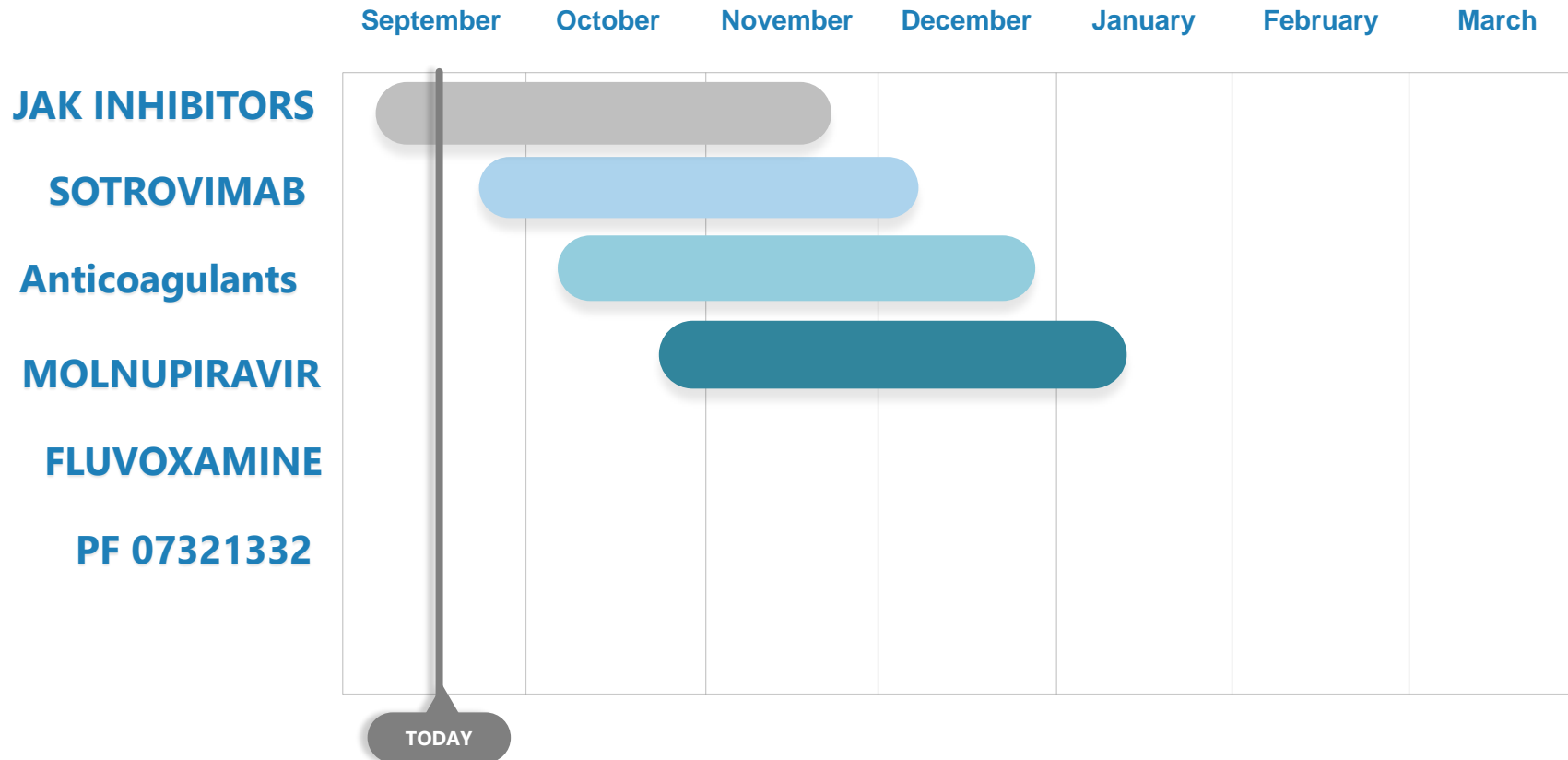
Casirivimab and imdevimab

2400-8000 mg

Intravenous

One off dose

Current therapeutics under assessment (for all use cases)



Considerations:
For molecules to be considered by the *WHO Therapeutic Steering Committee* – there must be significant available data to be shared.

Timeline from initial data sharing to publishing of guideline is 8-10 weeks.

Critical Reflections

- ✓ Positive progress seen in **Oxygen scale up**
- ✓ **Effective therapeutics** recommended and in pipeline
- ✓ **Fast and reliable process** to synthesize evidence and publish therapeutic guidelines
- ✓ **Expanding dissemination** opportunities of living guidelines through MAGICapp, BMJ

- Significant challenges remain with **equitable access** to COVID-19 therapeutics (e.g. IL6 Receptor Blockers)
- **Revised approach needed** with industry to seek better access, pricing and timeline to meet patient and clinical demand

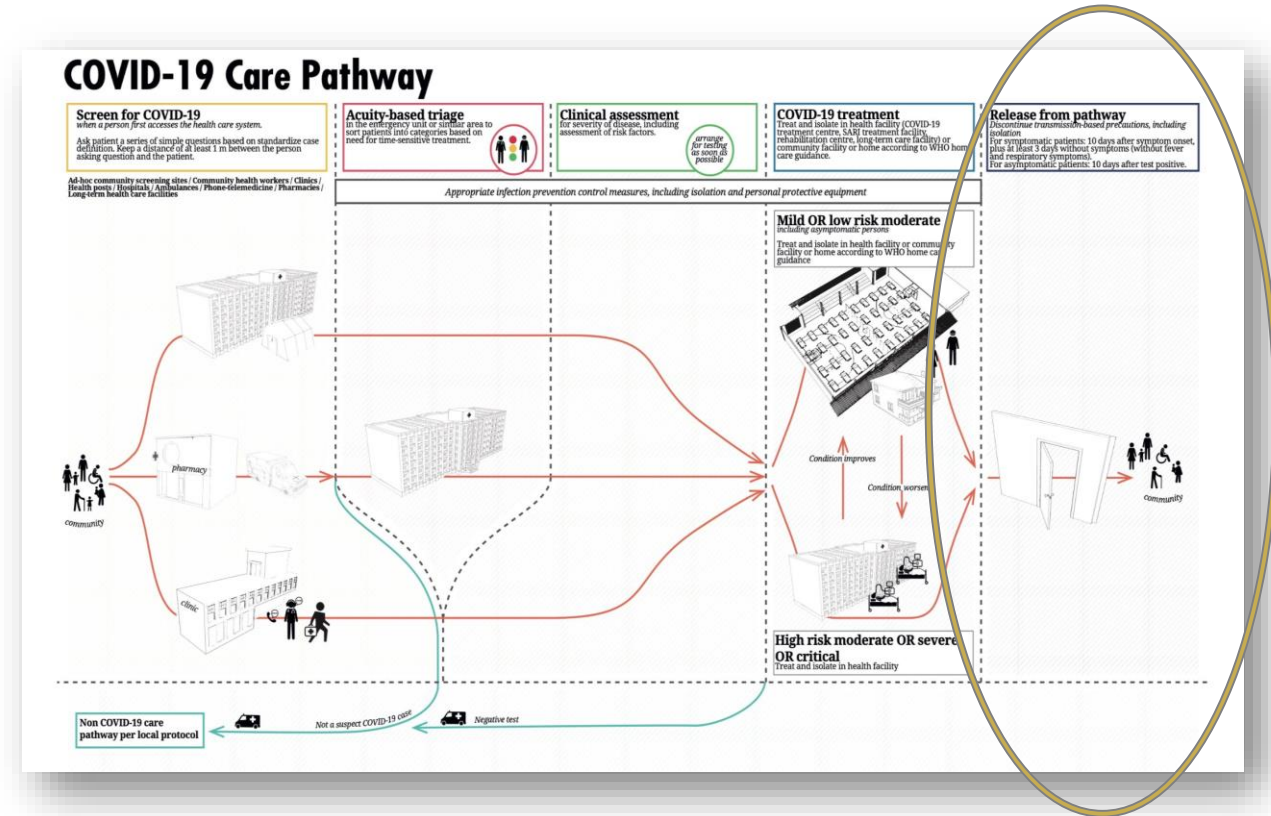


Annex

COVID-19 Care Pathway

Discharge, Recovery and Post COVID-19 Condition Management

After care and Follow up

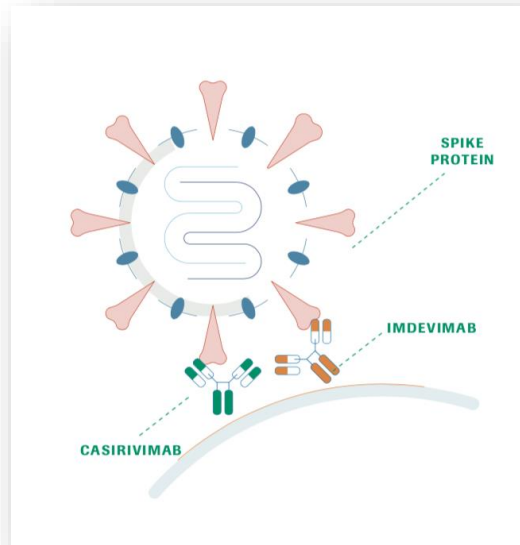


Casirivimab / Imdevimab - Neutralizing Monoclonal Antibodies

Mechanism of Action:

Casirivimab and imdevimab are a combination of 2 recombinant human antibodies (immunoglobulin G1 monoclonal antibodies) that are unmodified in the Fc regions, where each antibody targets a different, non-overlapping epitope of the spike protein of SARS-CoV-2.

The blockage of the spike protein interaction with angiotensin-converting enzyme 2 (ACE2) leads to inhibition of infection of host cells.



Administration:

Single dose IV (SC possible at lowest dose)
(dose range depending on case use)
2-8 degree storage, co packaged formulation (1 vial of each antibody, must be used with inline or add on 0.2 micron filter

Serological Testing for Hospitalized

Exploring testing options, that could be scaled for patient cohort

Implementation and Access Challenges

Single manufacturer – Roche Regeneron
FDA approval, WHO EOI launched,
pending PQ
New to market
Cost and production capacity

Suggested regimen	People with non-severe disease	People with severe or critical disease
	Casirivimab and imdevimab	Casirivimab and imdevimab
	1200-2400 mg	2400-8000 mg
	Intravenous or subcutaneous	Intravenous
	One off dose	One off dose