

Advancing the COVID-19 clinical care pathway for acute COVID-19 and post COVID-19 condition: Patient centered clinical research

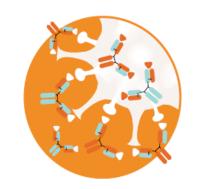
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Global research and Innovation Forum 24th-25th February 2022









Effective therapeutics and evidence based clinical interventions

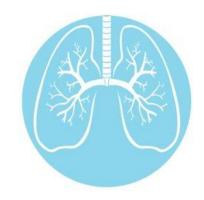
- Bringing evidence generation to global clinical management guidelines in real time to save lives.
 - Corticosteroids prioritized early 2020, tested in multiple trials, including large platform trial (RECOVERY); simultaneous prospective meta-analysis (WHO REACT) leading to 1st WHO Living guideline: Therapeutics and COVID-19 in Sept 2020.
 - To date 8 versions of the living guideline; including corticosteroids, IL6 RB, baricitinib, casirivimab/imdevimab, sotrovimab in the toolbox for effective COVID-19 treatments. Updating guidelines within 8-10 weeks from data availability.





Advancing the COVID-19 clinical care pathway

Understanding natural history and spectrum of disease



- Rapid publication of tools for standard patient data collection.
 - Case Record Forms (CRF) for acute COVID-19, MISC, pregnant woman and post COVID-19 condition, minimal common data set, core outcome set (COS) and COVID-19 severity classification system (published by May 2020).
- Simultaneous large data registries available to pool individual patient level data.
 - WHO Global Clinical Data Platform and Dashboard (launched April 2020) now with **570,172** individual patient records and ISARIC includes > **500,000** entries.
- Ongoing prospective data collection for:
 - Severity study in children with COVID-19, post COVID-19 condition and maternal, pregnancy and neonatal outcomes for women and neonates infected with SARS-CoV-2.





Advancing the COVID-19 clinical care pathway



Improving access to oxygen therapy

- Global inequities in oxygen, advanced respiratory support devices and basic emergency and critical care
 - WHO launched O2COV2 study to assess availability and use of oxygen for COVID-19 (September 2021) and will serve to launch a platform study to assess non-invasive interventions for those with severe or critical COVID-19. Currently is onboarding 36 study sites across 24 LMIC.
 - WHO is leading the development of Global Oxygen investment KPIs that capture oxygen from procurement to patient care to inform research, clinical operations and advocacy using delphi methodology.



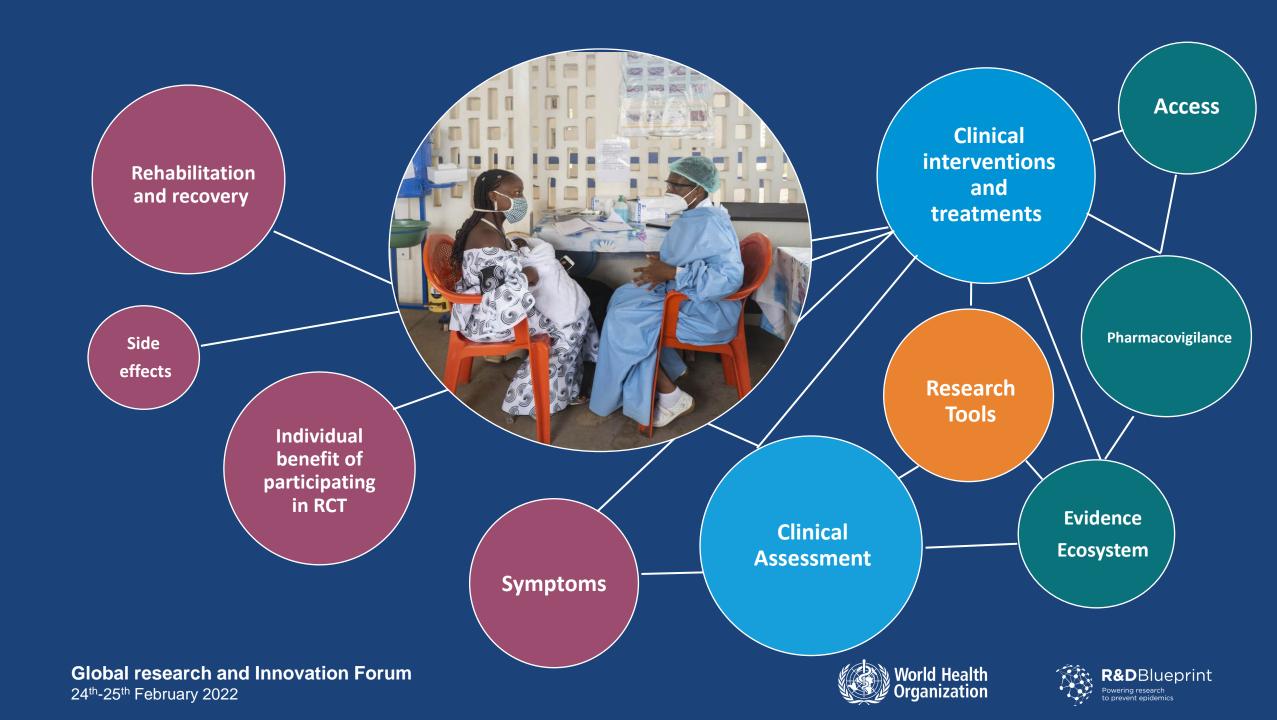




Patient Centred Clinical Research









Outstanding Clinical Research Priorities





Advancing the COVID-19 clinical care pathway

Outstanding research priorities

- Post COVID-19 condition (long covid)—from burden of disease, symptom, natural history, recognition, pathophysiology, clinical management, therapeutics and service delivery.
- Evaluation of supportive care and clinical management interventions, to improve outcomes in severe or critical COVID-19 in LMIC.
- Develop and validate prognostic models to better describe high risk patients.
- Establish reliable approach to update severity classification and define disease severity with VOCs.
- Prospective antiviral resistance and safety monitoring with introduction of new therapeutics.







Standardized tools and data registries









Standardized tools and global data registries to inform clinical guidelines for all disease of outbreak potential

- Establish standardized patient data toolkit for COVID-19 and beyond; including mid- and long-term impacts. Minimal core outcome set, case record forms.
- Sustain global clinical data registries that allow IPDA aggregation.
- Sustain WHO global clinical data platform and dashboard for rapid analysis to inform clinical and public health interventions; such as severity, clinical interventions and uptake, resource requirements, effectiveness.





Knowledge uptake





Knowledge Uptake

Taking guidelines to the bedside



- Sustain innovations for trustworthy rapid evidence synthesis and guideline development (LNMA, PMA, and living guidelines).
- Establish methodology of rapid country implementation of evidence-based guidelines.
- Conduct operational research on effectiveness of therapeutics, post guideline monitoring, safety and resistance monitoring, access.





Strengthen research capacity in LMIC







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Strengthen research capacity in LMIC

- Funding for research in LMIC.
- Building partnerships in platform trials at sites in LMIC.
- Identifying/engaging local researchers/research networks in LMIC sites.
- Expanding WHO collaborating centers in LMIC to include clinical research.
- Strategic partnerships to create an agile evidence ecosystem to ensure patient impact.







Future steps



- WHO to invest in maintaining and expanding strategic clinical research networks globally.
- WHO to establish priority clinical research tools, questions and protocols that are part of outbreak readiness package to allow rapid scale up of research during next emergency.
- Expand patient-led and community-based participatory research, including qualitative research methodology.



Many thanks to the over 300 experts involved our working group and its subgroups

Clinical characterization & management working group & sub-working groups

- WHO REACT (Heparin, IL6 RB, steroids)
- Respiratory studies, O2COV2 study and International SC
- Post COVID-19 steering committee (case definition, COS)
- Severity classification in COVID-19
- Severe COVID-19 in children study
- MISC expert working group
- A prospective cohort study investigating maternal, pregnancy and neonatal outcomes for women and neonates infected with SARS-CoV-2
- Neurology and COVID-19 forum
- COVID-19 Therapeutic guideline development group
- Methods-MAGIC collaboration group









COVID-19 CLINICAL CARE PATHWAY





Thank you

Health Care Readiness (who.int)

Therapeutics and COVID-19 (who.int)

The WHO Global Clinical Platform for COVID-19

COVID-19 Clinical Care Pathway (who.int)

A living WHO guideline on drugs for covid-19 | The BMJ

Therapeutics and COVID-19: living guideline (magicapp.org)

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