























UNIFIED COVID-19 ALGORITHMS

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Kalusugan ng Mag-Ina

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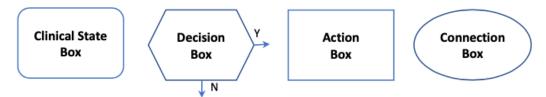
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INTRODUCTION TO ALGORITHM INTERPRETATION

The clinical algorithm (flow chart) is a text format that is specially suited for representing a sequence of clinical decisions which are intended to improve and standardize decisions in delivery of medical care. For the purpose of clarity, a typical clinical algorithm is depicted with basic symbols that represent clinical steps in decision-making:



- 1. The rectangle with rounded edges depicts the current clinical state of an individual patient;
- 2. The hexagon is a decision box which contains a question answerable by yes or no; one arrow going to the right signifies "yes", and one arrow going downwards signifies "no";
- 3. The rectangle with sharp edges depicts the action to be done; and
- 4. The oval depicts connection to another algorithm in a different page.

Note that the following algorithms are adapted from multiple guidelines as released by the World Health Organization, Department of Health, and other societies. This document was also reviewed by different experts with the end-goal of having a summarized and comprehensive compilation of guidelines that will aid in management of COVID-19 patients by healthcare workers from both the community and hospital levels.

Lastly, while these patient-centered algorithms intend to summarize and simplify recommendations, these may be subject to change as evidence emerges and guidelines are updated. Any recommendations on patient care are not absolute. Final decisions remain under the discretion of the healthcare provider.

BACKGROUND

The Unified COVID-19 Algorithms is an ongoing collaboration between volunteer facilitators, technical specialists and algorithm constructors, contributors and reviewers from different medical organizations, as well as students from the UP College of Medicine and Ateneo School of Medicine and Public Health. This release reflects evidence and policy updates, as well as medical community consensus since the call of the Health Professionals' Alliance Against COVID-19 to restrategize the country's response against COVID-19.

Each algorithm was reviewed by subject matter experts, stakeholders, as well as endusers. With the Philippine context in perspective, the algorithms provide clear guidelines for COVID-19 management from both the community and hospital levels. Algorithms also reinforce recommendations of the Department of Health with emphasis on evidence-based decision making, as well as patient-centeredness.

Work on the first version of the Unified Algorithms was started as early as March 2020 with a small team of three volunteer facilitators, four algorithm constructors, and five core medical societies convened by the Asia-Pacific Center for Evidence-Based Healthcare and hosted by the Philippine Society for Microbiology and Infectious Diseases. With support from PSMID, this expansion was carried out by the HPAAC Steering Committee through its network of volunteers. These algorithms are subject to change as evidence emerges and guidelines are updated. Recommendations on patient care are not absolute. Final decisions remain under the discretion of the healthcare provider.

As the unified algorithms are utilized, end-users are enjoined to provide feedback as to their experience with use of the algorithms in the field through: secretariat@psmid.org and hpaac.org.ph/contact or secretariat@hpaac.org.ph.

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SECTION 5: PATIENT REINTEGRATION

FIGURE 5A. DISCHARGE OF PATIENTS WITH PROBABLE OR CONFIRMED COVID-19, CRITERIA FOR DISCONTINUATION OF TRANSMISSION PRECAUTIONS

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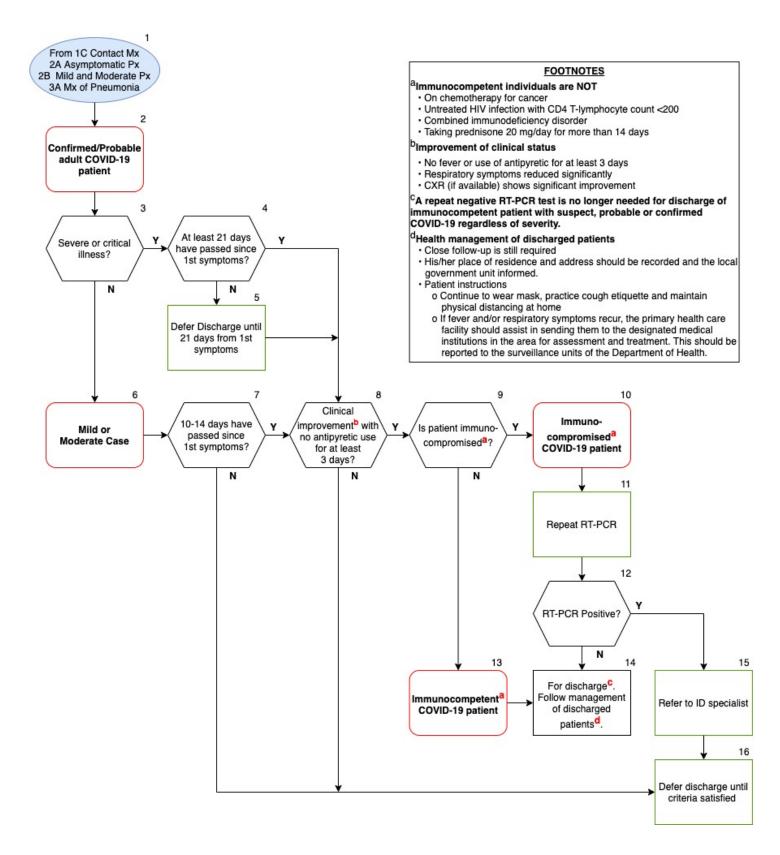
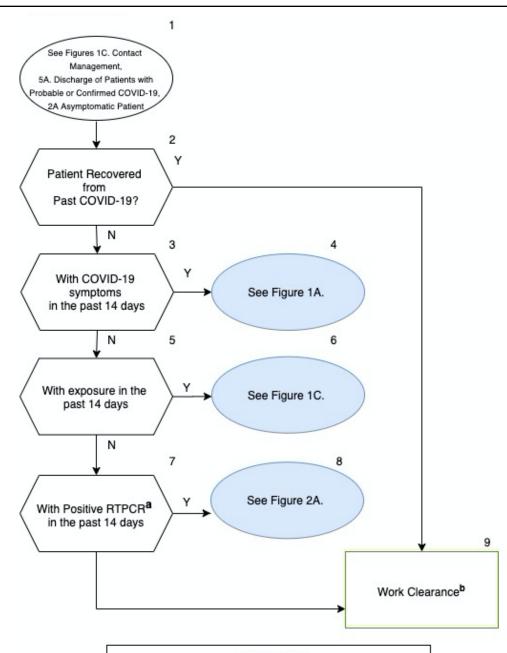


FIGURE 5B. CLEARING NON-HEALTH CARE WORKERS FOR RETURN **TO WORK**

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FOOTNOTES

aRTPCR tests are NOT recommended for work clearance

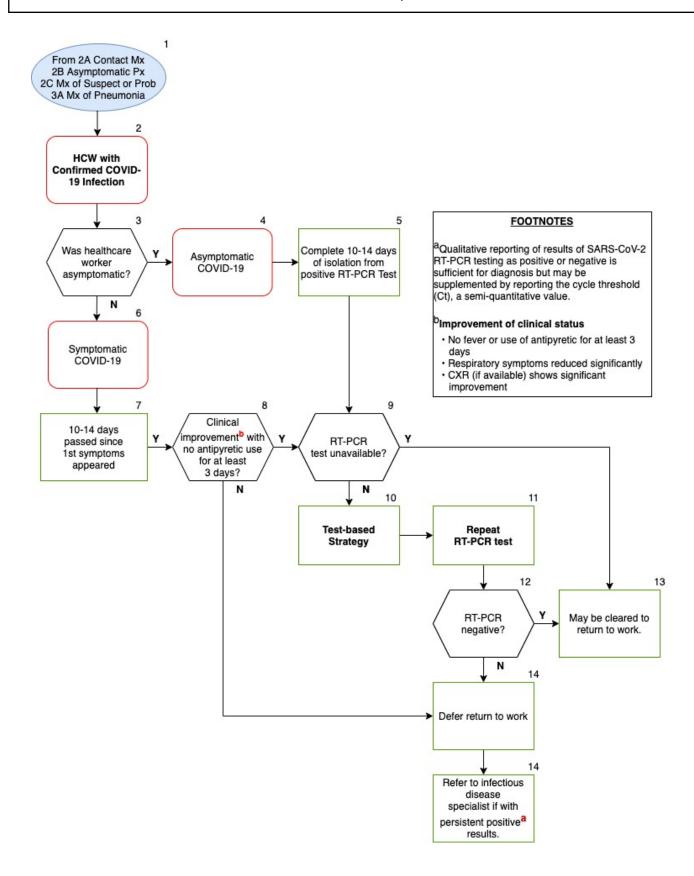
Rapid antibody tests are not recommended for work clearance. Rapid antigen tests are currently not recommended for work clearance.

bRefer to workplace guidelines

- DOLE-DTI Joint Memorandum Circular 20-04-A (August 15,
- 2. DOH Workplace Handbook as of September 30, 2020

FIGURE 5C. RECOMMENDATIONS FOR ASYMPTOMATIC AND SYMPTOMATIC HEALTH CARE WORKERS WITH CONFIRMED COVID-19 **RETURNING TO WORK**

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REFERENCES

American Heart Association. (2020). Highlights of the 2020 American Heart Association guidelines for CPR and ECC. (https://cpr.heart.org/-/media/cpr-files/cpr-guidelines-files/highlights/hghlghts_2020_ecc_guidelines_english.pdf accessed 26 August 2020).

Center for Disease Control and Prevention, USA. (2020). Interim guidance for emergency medical services (EMS) systems and 911 public safety answering points (PSAPS) for COVID-19 in the United States, updated March 10, 2020. (https://www.ems.gov/pdf/ASPR-EMS-Infectious-Disease-Playbook-June-2017.pdf accessed 1 October, 2020).

Department of Health, Philippines. (2020). DOH Department Memorandum No. 2020-0261: Guidelines on local isolation and general treatment areas for COVID-19 cases (LIGTAS COVID) and the community-based management of mild COVID-19 cases, April 15, 2020.

Department of Health, Philippines. (2020). DOH Department Memorandum No. 2020-0319: Interim guidelines on the continuous provision of maternal health services during COVID-19 pandemic, July 13, 2020.

Department of Health, Philippines. (2020). DOH Joint Administrative Order No. 2020-0001: Interim guidelines on COVID-19 management of pregnant women, women about to give birth, and newborn, July 13, 2020.

Department of Health and Human Services, USA. (2017). EMS Infectious Disease Playbook. (https://www.ems.gov/pdf/ASPR-EMS-Infectious-Disease-Playbook-June-2017.pdf accessed 1 October 2020).

European Centre for Disease Prevention and Control. (2020). Contact tracing: Public health management of persons, including healthcare workers, having had contact with COVID-19 cases in the European Union – second update, 31 March 2020. Stockholm: ECDC; 2020. (https://www.ecdc.europa.eu/sites/default/files/documents/Contact-tracing-Public-health-management-persons-including-healthcare-workers-having-had-contact-with-COVID-19-cases-in-the-European-Union%E2%80%93second-update_0.pdf accessed 26 August 2020).

Philippine Society for Microbiology and Infectious Diseases. (2020). Interim guidance on the clinical management of adult patients with suspected or confirmed COVID-19 infection, Version 3.1 as of July 20, 2020. (https://www.psmid.org/wp-content/uploads/2020/07/Final-PCP-PSMID-PCCP-COVID-19-Guidelines-20July2020b.pdf accessed 25 August 2020).

Philippine Society of Hospice and Palliative Medicine. (2020). Three-Part Guidance Documents for Palliative Care of Patients including those with Life-Threatening Illness, May 12, 2020. (https://www.ruth.ph/updates/2020/5/11/sa4cu39z4x3zwbc835oax00826ubed accessed 25 August 2020).

Rao S, Sunder P. (2020). Communication tips in COVID-19 on , E-book on palliative care guidelines for COVID-19 pandemic task force in palliative care, Kerala, April 2020. (https://wp.ufpel.edu.br/francielefrc/files/2020/04/e-book-Palliative-Care-Guidelines-for-COVID19-ver1.pdf accessed 26 August 2020).

University of the Philippines Manila. (2020). Ethics quidelines on COVID-19 crisis level hospital care, Version 1, April 20, 2020.

World Health Organization. (2020). Clinical management COVID-19: Interim Guidance May 27, 2020. (https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/patient-management accessed 14 August 2020)

World Health Organization. (2020). Home care for patients with suspected or confirmed COVID-19 and management of their contacts, August 13, 2020. (https://www.who.int/publications/i/item/home-care-for-patients-with-suspected-novel-coronavirus-(ncov)-infection-presenting-with-mild-symptoms-and-management-of-contacts accessed 26 August 2020).

World Health Organization. (2020). Interim guidance for Considerations for quarantine of contacts of COVID-19 cases Version August 19, 2020. (https://www.who.int/publications/i/item/considerations-for-quarantine-of-individuals-in-the-context-of-containment-for-coronavirus-disease-(covid-19) accessed 14 August 2020).

World Health Organization. (2020). Public health surveillance for COVID-19: interim guidance August 7, 2020. (https://www.who.int/publications/i/item/who-2019-nCoV-surveillanceguidance-2020.7 accessed 26 August 2020).

World Health Organization. (2020). Rational use of personal protective equipment for coronavirus disease (COVID-19) and considerations during severe shortages, April 6, 2020. (https://www.who.int/publications/i/item/who-2019-nCoV-surveillanceguidance-2020.7 accessed 26 August 2020).