# COVID-19 Evidence Update

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Latest information and guidance

NICE
Rapid guidelines and evidence summaries
Royal College of Emergency Medicine
Covid-19 resources

Royal College of General Practitioners
COVID-19
Royal College of Obstetrics & Gynaecologists
Coronavirus (COVID-19), pregnancy and women’s health

Royal College of Paediatrics and Child Health
Key topics COVID 19
Royal College of Pathologists
COVID-19 Resources Hub

Royal College of Psychiatrists
COVID-19: Community mental health settings
Royal College of Surgeons
COVID 19 Information Hub

Royal Pharmaceutical Society
COVID-19
British Society of Echocardiography
COVID-19 clinical guidance

British Society of Gastroenterology
COVID 19 updates
British Society for Haematology
COVID-19 Updates

British Society for Rheumatology
COVID-19 updates for members
Combined Intensive Care Society, Association of Anaesthetists, Royal College of Anaesthetists, Faculty of Intensive Care Medicine guidance
Clinical Guidance

Healthcare Workers

Covid-19: Ethical Challenges for Nurses
The Hastings Center Report
Essay

Deaths from COVID-19 in healthcare workers in Italy - what can we learn?
Infection Control and Hospital Epidemiology

Physician deaths from corona virus (COVID-19) disease
Occupational Medicine

Remote monitoring contributes to preventing overwork-related events in health workers at the COVID-19 frontlines
Precision Clinical Medicine
Perspectives

Symptom Criteria for COVID-19 Testing of Heath Care Workers
Official Journal of the Society for Academic Emergency Medicine
Children & Neonates

Appearance of Skin Rash in Pediatric Patients with COVID-19: Three Case Presentations
Dermatologic Therapy
Letter

Journal of Medical Virology
Review

Pathophysiology of COVID-19: Why Children Fare Better than Adults?
The Indian Journal of Pediatrics
Review

The psycho-physical impact that COVID-19 has on children must not be underestimated
Acta Paediatrica
Brief Report

Clinical Infectious Diseases
Systematic Review

Special Issues for COVID-19 in Children and Adolescents
Obesity: A Research Journal
Letter to the editor

Obstetrics

The Effects of Pregnancy on Women with COVID-19: Maternal and Infant Outcomes
Clinical Infectious Diseases
Editorial

Follow-up for pregnant women during the COVID-19 pandemic: French national authority for health recommendations.
Journal of Gynecology Obstetrics and Human Reproduction

Reproductive health in the time of SARS-CoV-2
Social Anthropology

Unfavorable outcomes in pregnant patients with COVID-19 outside Wuhan, China.
The Journal of Infection

Adults and Older People

Can the 2019 novel coronavirus cause Parkinson's disease?
Movement Disorders

Commentary: COVID in Care Homes—Challenges and Dilemmas in Healthcare Delivery
Age and ageing
Commentary
Palliative Care

Canadian Journal of Anaesthesia

Providing quality end of life care to older people in the era of COVID-19: Perspectives from five countries.
International Psychogeriatrics

Oncology

Changing oncology treatment paradigms in the COVID-19 pandemic.
Clinical Colorectal Cancer

Navigating the storm of COVID-19 for patients with suspected bowel cancer
BJS
Correspondence

Oncologist's perspective: when cancer encounters COVID-19
The Oncologist
Letter to the Editor

Personalized risk-benefit ratio adaptation of Breast Cancer care at the epicentre of Covid-19 outbreak
The Oncologist

Preparation for the COVID-19 pandemic in the department of radiation oncology in the National Cancer Center Hospital in Tokyo
Journal of Radiation Research
Letter to the editor

When cancer encounters COVID-19 in China: what have we suffered, experienced and learned
Japanese Journal of Clinical Oncology
Review
COVID-19 and gastrointestinal endoscopy: Importance of reducing SARS-CoV-2 infection risks of medical workers and preserving personal protective equipment resources

Digestive Endoscopy
Editorial

COVID-19: focus on the lungs but do not forget the gastrointestinal tract

European Journal of Clinical Investigation
Review

Editorial: increasing IBD prevalence and its complications in the context of the COVID-19 pandemic

Alimentary Pharmacology and Therapeutics
Editorial

Management of Acute Severe Ulcerative Colitis in a Pregnant Woman With COVID-19 Infection: A Case Report and Review of the Literature

Inflammatory Bowel Diseases
Review article

RNA conversion of COVID-19 in respiratory and alimentary specimens during asymptomatic convalescence

Journal of Gastroenterology and Hepatology
Letter to the editor

Pulmonary/Respiratory

COVID-19 critical illness pathophysiology driven by diffuse pulmonary thrombi and pulmonary endothelial dysfunction responsive to thrombolysis

Clinical and Translational Medicine

COVID-19 pneumonia in lung transplant recipients: report of two cases

American Journal of Transplantation
Case Report


Annals of Internal Medicine
Case Report

Lung Ultrasound in a COVID Pandemic - Choosing wisely

Australian Journal of Ultrasound in Medicine
Opinion

Respiratory Parameters in Patients With COVID-19 After Using Noninvasive Ventilation in the Prone Position Outside the Intensive Care Unit.

JAMA

Safe performance of diagnostic bronchoscopy/EBUS during the SARS-CoV-2 pandemic

Respirology
Review

Smoking Is Associated With COVID-19 Progression: A Meta-analysis

Nicotine & Tobacco Research
Cardiology

At the heart of COVID-19
European Heart Journal
Editorial

Characteristics and clinical significance of myocardial injury in patients with severe coronavirus disease 2019
European Heart Journal

COVID 19 and heart failure: from infection to inflammation and angiotensin II stimulation.
Searching for evidence from a new disease
European Journal of Heart Failure
Review

EAPCI Position Statement on Invasive Management of Acute Coronary Syndromes during the COVID-19 pandemic
European Heart Journal

Reduction of hospitalizations for myocardial infarction in Italy in the COVID-19 era
European Heart Journal

Safety for all: coronavirus disease 2019 pandemic and cardiac surgery: a roadmap to ‘phase’ 2
European Journal of Cardo-Thoracic Surgery

The role of cardiovascular imaging for myocardial injury in hospitalized COVID-19 patients
European Heart Journal - Cardiovascular Imaging

Where have the ST-segment elevation myocardial infarctions gone during COVID-19 lockdown?
European Heart Journal - Quality of Care and Clinical Outcomes
Commentary

Nephrology

Kidney International

Acute kidney injury is associated with the mortality of Coronavirus Disease 2019
Journal of Medical Virology
Letter to the editor

The syndrome of inappropriate antidiuresis in COVID-19 pneumonia: report of two cases
Clinical Kidney Journal
Case Report

Transplant Nephrology

First experience of SARS-CoV-2 infections in solid organ transplant recipients in the Swiss Transplant Cohort Study
American Journal of Transplantation
Short Communication

Mild COVID-19 in a pediatric renal transplant recipient
American Journal of Transplantation
Case Report
Novel Corona Virus 2019 pneumonia in a kidney transplant recipient
American Journal of Transplantation
Case Report

Viral Shedding Prolongation in a Kidney Transplant Patient with COVID-19 Pneumonia
American Journal of Transplantation
Letter to the editor

Blood

Clinical Performance of Two SARS-CoV-2 Serologic Assays
Clinical Chemistry

COVID-19 and childhood acute lymphoblastic leukemia
Pediatric Blood and Cancer
Letter to the editor

The first case of acquired hemophilia A associated with SARS-CoV-2 infection
American Journal of Hematology
Correspondence

Managing haematology and oncology patients during the COVID-19 pandemic: interim consensus guidance.
Medical Journal of Australia

Reflection on passive immunotherapy in those who need most: some novel strategic arguments for obtaining safer therapeutic plasma or autologous antibodies from recovered COVID-19 infected patients
British Journal of Haematology

Pathology

Antibody Testing For Covid-19: Can It Be Used As A Screening Tool In Areas With Low Prevalence?
American Journal of Clinical Pathology
Editorial

Differentiating between 2019 novel coronavirus pneumonia and influenza using a non-specific laboratory marker-based dynamic nomogram
Open Forum Infectious Diseases

Expression of the SARS-CoV-2 cell receptor gene ACE2 in a wide variety of human tissues
Infectious Diseases of Poverty
Research

Limits of Detection of 6 Approved RT–PCR Kits for the Novel SARS-Coronavirus-2 (SARS-CoV-2)
Clinical Chemistry

Multivariate analyses of codon usage of SARS-CoV-2 and other betacoronaviruses
Virus Evolution

No evidence for distinct types in the evolution of SARS-CoV-2
Virus Evolution
Reflection
Potential False-Negative Nucleic Acid Testing Results for Severe Acute Respiratory Syndrome Coronavirus 2 from Thermal Inactivation of Samples with Low Viral Loads
Clinical Chemistry

Rapid Detection of COVID-19 Coronavirus Using a Reverse Transcriptional Loop-Mediated Isothermal Amplification (RT-LAMP) Diagnostic Platform
Clinical Chemistry

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**Vaccine**

High throughput and comprehensive approach to develop multiepitope vaccine against minacious COVID-19.
European Journal of Pharmaceutical Science

Cell Host and Microbe

A strategic approach to COVID-19 vaccine R&D.
Science

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**Treatments**

Clinical trials: management of investigational products during the coronavirus (COVID-19) pandemic
American Journal of Health-System Pharmacy
Letter to the Editor

COVID-19 infection also occurs in patients taking hydroxychloroquine
Journal of Antimicrobial Chemotherapy
Research Letter

Favipiravir, an antiviral for COVID-19?
Journal of Antimicrobial Chemotherapy
Research Letter

Immunoregulation with mTOR inhibitors to prevent COVID-19 severity: A novel intervention strategy beyond vaccines and specific antiviral medicines
Journal of Medical Virology
Review

Indomethacin and resveratrol as potential treatment adjuncts for SARS-CoV-2/COVID-19
The International Journal of Clinical Practice
Perspective

Prognostic value of NT-proBNP in patients with severe COVID-19
Respiratory Research
Research

Risk Factors of Severe Disease and Efficacy of Treatment in Patients Infected with COVID-19: A Systematic Review, Meta-Analysis and Meta-Regression Analysis
Clinical Infectious Diseases
Systematic Review
SARS-CoV-2 pandemic: Time to revive the cyclophilin inhibitor alisporivir
Clinical Infectious Diseases

Treatment efficacy analysis of traditional Chinese medicine for novel coronavirus pneumonia (COVID-19): an empirical study from Wuhan, Hubei Province, China
Chinese Medicine Research

Why tocilizumab could be an effective treatment for severe COVID-19?
Journal of Translational Medicine Commentary

Imaging

Radiography

European Journal of Radiology Open.

Point of care ultrasound in respiratory and critical care: consolidation and expansion of imaging skills
Anaesthesia Correspondence

The role of cardiac imaging in hospitalized COVID-19-positive patients.
Cleveland Clinical Journal of Medicine

Community and Mental Health

The COVID-19 pandemic and its impact on mental health
Progress in Neurology and Psychiatry Review

Health promotion ambulances should focus on loneliness in our pandemic age
Health Promotion International Editorial

Mental health nursing at a time of crisis
Journal of Psychiatric and Mental Health Nursing Editorial

Psychiatrists, patients favor telemedicine; challenges exist
Mental Health Weekly

SendHelpNow: Mental wellness and virtual connection in the age of coronavirus
Journal of Psychiatric and Mental Health Nursing Editorial

Three steps to flatten the mental health need curve amid the COVID-19 pandemic
Depression and Anxiety Commentary
Accessible COVID-19 tracker enables a way for visually impaired to stay up to date
Disability Compliance for Higher Education

COVID-19 and ophthalmology: an underappreciated occupational hazard.
Infection Control and Hospital Epidemiology

Infection control measures in ophthalmology during the COVID-19 outbreak: A narrative review from an early experience in Italy.
European Journal of Ophthalmology

Managing ocular allergy in the time of COVID-19
Allergy
Letter to the editor

The ocular surface, coronaviruses and COVID-19
Clinical and Experimental Optometry
Review

Positive detection of SARS-CoV-2 combined HSV1 and HHV6B virus nucleic acid in tear and conjunctival secretions of a non-conjunctivitis COVID-19 patient with obstruction of common lacrimal duct
Acta Ophthalmlogica
Case Series

COVID-19 and dermatologic surgery: hazards of surgical plume
Dermatologic Therapy
Letter

Cutaneous manifestations in COVID-19: Family cluster of Urticarial Rash
Clinical and Experimental Dermatology
Correspondence

Inconveniences due to the use of face masks during the COVID-19 pandemic: a survey study of 876 young people
Dermatologic Therapy
Letter

Recommendations for personal protective equipment and smoke evacuation for dermatologic surgeries amid the COVID-19 crisis
Dermatologic Therapy

Short-term Skin Reactions Following Use of N95 Respirators and Medical Masks
Contact Dermatitis

Skin Involvement in SARS-CoV-2 Infection: Case Series
Journal of Medical Virology
Letter to the editor

Teledermatology for patient management, dermatology education and research during the COVID-19 pandemic
Australasian Journal of Dermatology
Letter to the editor
Thrombotic occlusive vasculopathy in skin biopsy from a livedoid lesion of a COVID-19 patient
British Journal of Dermatology
Research Letter

Diabetes

Antihyperglycemic properties of hydroxychloroquine in patients with diabetes: risks and benefits at the time of COVID-19 pandemic
Journal of Diabetes

How diabetes management is adapting amid the COVID-19 pandemic.
Lancet Diabetes Endocrinology

Patients with diabetes are at higher risk for severe illness from COVID-19.
Diabetes and Metabolism

Diabetologia

Supporting people with diabetes during a pandemic
Diabetic Medicine
Commentary

Miscellaneous

Behaviour of occupational health services during the COVID-19 pandemic
Occupational Medicine

Clinical features and outcomes of HIV patients with coronavirus disease 2019
Clinical Infectious Diseases
Report

Coronavirus Disease 19 (COVID-19) complicated with pneumonia in a patient with rheumatoid arthritis receiving conventional disease-modifying antirheumatic drugs
Rheumatology International
Case Report

Corona Viruses and the Chemical Senses: Past, Present, and Future
Chemical Senses
Review Article

COVID-19 preparedness: Clinical pharmacy services remote staffing in a quaternary, level I trauma and comprehensive stroke center
American Journal of Health-System Pharmacy

Telehealth transformation: COVID-19 and the rise of virtual care
Journal of the American Medical Informatics Association
Perspective

Unconditional care in academic emergency departments
Academic Emergency Medicine
14 May 2020
hydroxychloroquine plus azithromycin may not decrease in-hospital mortality but may increase cardiac arrest in patients with COVID-19 (JAMA 2020 May 11 early online)
View in topic

14 May 2020
FDA emergency use authorization issued for multiple new assays to detect nucleic acids from SARS-CoV-2
View in topic

12 May 2020
FDA issues emergency use authorization for Sofia 2 SARS Antigen FIA test to detect SARS-CoV-2 nucleocapsid protein antigen in nasopharyngeal and nasal swab specimens (FDA Emergency Use Authorization 2020 May 9)
View in topic

12 May 2020
Sherlock CRISPR SARS-CoV-2 Kit authorized to detect nucleic acids from SARS-CoV-2 in upper respiratory specimens and bronchoalveolar lavage specimens from persons with suspected COVID-19 infection (FDA Emergency Use Authorization 2020 May 6)
View in topic

12 May 2020
FDA issues emergency use authorization for first COVID-19 diagnostic test with option of using home-collected saliva (FDA Press Release 2020 May 8)
View in topic

11 May 2020
FDA issues emergency authorization for several new assays to detect immune antibody response to COVID-19
View in topic

11 May 2020
Infectious Disease Society of America (IDSA) guideline on diagnosis of COVID-19 (IDSA 2020 May 6)
View in topic

11 May 2020
tocilizumab reported to induce radiologic improvement and reduce need for ventilatory support in patients with severe COVID-19 (J Med Virol 2020 May 5 early online)
View in topic

11 May 2020
hydroxychloroquine may not reduce risk of intubation or death in patients with COVID-19 hospitalized in New York City (N Engl J Med 2020 May 7 early online)
View in topic
11 May 2020
FDA issues Emergency Use Authorization (EUA) permitting use of protective barrier enclosures as an extra layer of protection in preventing healthcare provider exposure when caring for or performing medical procedures on patients with known or suspected COVID-19 (FDA emergency use authorization 2020 May 1)

View in topic

Public Health England
Topics added/updated in the last week

Coronavirus (COVID-19): hospital discharge service requirements
13 May 2020

Coronavirus (COVID-19): getting tested
14 May 2020

Coronavirus (COVID-19): support for care homes
15 May 2020

COVID-19: guidance for care of the deceased
15 May 2020

Government publishes latest R number
15 May 2020

Supporting vulnerable children and young people during the coronavirus (COVID-19) outbreak
15 May 2020

Government begins large scale study of coronavirus immunity
17 May 2020

Number of coronavirus (COVID-19) cases and risk in the UK
17 May 2020

World Health Organisation – Rolling Updates

COVID-19-related service disruptions could cause hundreds of thousands of extra deaths from HIV
11 May 2020

New modelling on HIV convened by the World Health Organization and UNAIDS highlights the importance of taking immediate steps to minimise interruptions in health services and supplies of antiretroviral drugs during the COVID-19 pandemic.

The worst case scenario considered by the modelling group was a 6-month disruption of antiretroviral therapy. The group suggested that this could lead to more than 500 000 extra deaths from AIDS-related illnesses, including from tuberculosis, in sub-Saharan Africa over the next year.

At a media briefing today the WHO Director-General said that the modelling should be a “wake-up call,” and that despite attention being focused on the COVID-19 pandemic, we must still ensure that global supplies of tests and treatments for both HIV and TB reach the countries and communities that need them most.
"The group’s worst case scenario, a 6-month disruption of antiretroviral therapy, suggests that there could be 500,000 extra deaths from #AIDS-related illnesses, including from #tuberculosis, in sub-Saharan Africa over the next year"—@DrTedros #COVID19 https://t.co/wZOQugQ7pO

— World Health Organization (WHO) (@WHO) May 11, 2020

**Key materials:**

- Joint news release with UNAIDS
- WHO Director-General’s opening remarks at the media briefing on COVID-19 - 11 May 2020

**WHO statement on tobacco use and COVID-19**

11 May 2020

COVID-19 is an infectious disease that primarily affects the lungs. Smoking impairs lung function making it harder for the body to fight off coronaviruses and other diseases. Tobacco is also a major risk factor for noncommunicable diseases like cardiovascular disease, cancer, respiratory disease and diabetes which put people with these conditions at higher risk for developing severe illness when affected by COVID-19.

WHO is constantly evaluating new research, including research that examines the link between tobacco use, nicotine use, and COVID-19. A review of studies by public health experts convened by WHO on 29 April 2020 found that smokers are more likely to develop severe disease with COVID-19, compared to non-smokers.

WHO urges researchers, scientists and the media to be cautious about amplifying unproven claims that tobacco or nicotine could reduce the risk of COVID-19. There is currently insufficient information to confirm any link between tobacco or nicotine in the prevention or treatment of COVID-19.

There is currently insufficient information to confirm any link between tobacco or nicotine in the prevention or treatment of #COVID19. Researchers, scientists & the media are urged to be cautious about amplifying such unproven claims.

[https://t.co/AUS8VSUKnu](https://t.co/AUS8VSUKnu) pic.twitter.com/cRPBQVDcKX

— World Health Organization (WHO) (@WHO) May 11, 2020

**Key materials:**

- WHO statement: Tobacco use and COVID-19
- WHO Director-General’s opening remarks at the media briefing on COVID-19 - 11 May 2020

**WHO Academy and WHO Info apps launch**

13 May 2020

The WHO Academy app provides health workers with access to up-to-the-minute guidance, tools, training, and virtual workshops that will help them care for COVID-19 patients and protect
themselves. The app is built around the needs expressed by 20,000 global health workers in a WHO Academy survey.

The WHO Info app aims to inform the general public. Regarding COVID-19, the app will provide updates on the latest case numbers, WHO initiatives, partnerships and the race to find medicines and vaccines for fighting the disease.

Key materials:
- News release
- Free download of WHO Academy App: Apple App Store
- Free download of WHO Academy App: Google Play Store
- WHO Academy webpage

WHO Gender and COVID-19 Advocacy Brief
14 May 2020

The pandemic is impacting women and men differently.

From risk of exposure and biological susceptibility to infection to the social and economic implications, individuals’ experiences are likely to vary according to their biological and gender characteristics and their interaction with other social determinants.

COVID-19 strategic plans must be grounded in strong gender analysis and ensure meaningful participation of women and girls in decision-making and implementation.

WHO calls on its Member States and all global actors to guide investments in quality and gender-sensitive research on the adverse health, social and economic impacts of COVID-19.

Countries are advised to incorporate a focus on gender into their COVID-19 responses in order to ensure that public health policies and measures to curb the pandemic account for gender and how it interacts with other inequalities.

Key materials:
- Advocacy brief: Gender and COVID-19
- WHO Director-General's opening remarks at the media briefing on COVID-19 - 15 May 2020
- Video recording of 15 May media briefing

WHO scientific brief on multisystem inflammatory syndrome in children and adolescents with COVID-19
15 May 2020

Relatively few cases of infants confirmed to have COVID-19 have been reported; those who are infected have experienced mild illness.

Recently, however, reports from Europe and North America have described clusters of children and adolescents requiring admission to intensive care units with a multisystem inflammatory condition with some features similar to those of Kawasaki disease and toxic shock syndrome.

It is essential to characterize this syndrome and its risk factors, to understand causality, and describe treatment interventions. It is not yet clear the full spectrum of disease, and whether the geographical distribution in Europe and North America reflects a true pattern, or if the condition has simply not been recognized elsewhere.
There is therefore an urgent need for collection of standardized data describing clinical presentations, severity, outcomes, and epidemiology. WHO has developed a preliminary case definition and case report form for multisystem inflammatory disorder in children and adolescents. The case definition will be revised as more data become available.

In addition to more detail on the above, the Scientific Brief also includes information on the preliminary case definition and Global COVID-19 Clinical Data Platform.

**Key materials:**
- Scientific Brief: Multisystem inflammatory syndrome in children and adolescents with COVID-19
- WHO Director-General's opening remarks at the media briefing on COVID-19 - 15 May 2020

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**Useful Links**

- BMJ – latest news and resources for COVID-19
- Cochrane Library Coronavirus (COVID-19): evidence relevant to critical care
- Elsevier - Novel Coronavirus Information Center – Elsevier
- European Centre for Disease Prevention and Control
- GOV.UK
- Health protection Scotland
- New England Journal of Medicine
- NHS UK
- Oxford University Press
- Patient.Info

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