

COVID-19 Evidence Update

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Royal College/Society Guidance

Latest information and guidance

NICE
[Rapid guidelines and evidence summaries](#)

Royal College of Emergency Medicine
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Royal College of General Practitioners
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Royal College of Obstetrics & Gynaecologists
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Royal College of Psychiatrists
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British Society of Echocardiography
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British Society for Haematology
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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](#)

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[Protective measures for COVID-19 for healthcare providers and laboratory personnel](#)
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[Information Overload: A Method to Share Updates among Frontline Staff during the COVID-19 Pandemic](#)
Otolaryngology–Head and Neck Surgery

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[Respiratory Protection Considerations for Healthcare Workers During the COVID-19 Pandemic](#)
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[Covid-19: Supporting nurses' psychological and mental health](#)
Journal of Clinical Nursing
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[Extended use or reuse of N95 respirators during COVID-19 pandemic: an overview of national regulatory authorities' recommendations](#)
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[Decontamination of face masks with steam for mask reuse in fighting the pandemic COVID-19: experimental supports](#)
Journal of Medical Virology

[Flexibility and safety in times of coronavirus disease 2019 \(COVID-19\): Implications for nurses and allied professionals in cardiology](#)
European Journal of Cardiovascular Nursing

[Transmission risk of SARS-CoV-2 to healthcare workers – observational results of a primary care hospital contact tracing](#)
Swiss Medical Weekly

[Balancing the duty to treat with the duty to family in the context of the COVID-19 pandemic](#)
Journal of Medical Ethics

[Protect Healthcare Workers and Patients from COVID-19: The Experience of Two Tertiary Ophthalmology Care Referral Centers in Italy](#)
Ophthalmology and Therapy
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[Don't Forget the Bubbles: An Evidence Summary of Paediatric Covid-19 Literature](#)

[Chloroquine dosing recommendations for pediatric COVID-19 supported by modeling and simulation](#)
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[Dynamic adaptation to COVID-19 in a Singapore paediatric emergency department](#)
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Report from the front

[COVID-19 FAQ's in Pediatric Cardiac Surgery](#)
World Journal for Pediatric and Congenital Heart Surgery
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[Mitigating the Impacts of the COVID-19 Pandemic Response on At-Risk Children](#)
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[Lung Ultrasound in Children With COVID-19](#)
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[Severe Acute Respiratory Syndrome Coronavirus 2 \(SARS-CoV-2\) Infection in Children and Adolescents : A Systematic Review](#)
JAMA Pediatrics
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[Fever without a source in a young infant due to SARS-CoV-2](#)
Journal of the Pediatric Infectious Diseases Society

[Multicenter initial guidance on use of antivirals for children with COVID-19/SARS-CoV-2](#)
Journal of the Pediatric Infectious Diseases Society

[Managing childhood allergies and immunodeficiencies during respiratory virus epidemics – the 2020 COVID-19 pandemic](#)
Pediatric Allergy and Immunology
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[Systemic Immunosuppressive Therapy for Inflammatory Skin Diseases in Children: Expert-Consensus-Based Guidance for Clinical Decision Making During the COVID-19 Pandemic](#)
Pediatric Dermatology
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[COVID-19 and what pediatric rheumatologists should know: a review from a highly affected country](#)

Pediatric Rheumatology

[Late-Onset Neonatal Sepsis in a Patient with Covid-19](#)

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[Absence of severe complications from SARS-CoV-2 infection in children with rheumatic diseases treated with biologic drugs](#)

The Journal of Rheumatology

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[A child confirmed COVID-19 with only symptoms of conjunctivitis and eyelid dermatitis](#)

Graefe's Archive for Clinical and Experimental Ophthalmology

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[Neonatal Resuscitation Where the Mother Has a Suspected or Confirmed Novel Coronavirus \(SARS-CoV-2\) Infection: Suggestion for a Pragmatic Action Plan](#)

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[A practice of anesthesia scenario design for emergency cesarean section in patients with COVID-19 infection based on the role of standard patient](#)

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[Managing COVID-19-Positive Maternal–Infant Dyads: An Italian Experience](#)

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[Successful containment of COVID-19 outbreak in a large maternity and perinatal center while continuing clinical service](#)

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[Successful Treatment of Preterm Labor in Association with Acute COVID-19 Infection](#)

American Journal of Perinatology

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[A systematic scoping review of COVID-19 during pregnancy and childbirth](#)

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[Asymptomatic COVID-19 infection in late pregnancy indicated no vertical transmission](#)

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[Severe Acute Respiratory Syndrome Coronavirus 2 \(SARS-CoV-2\) Vertical Transmission in Neonates Born to Mothers With Coronavirus Disease 2019 \(COVID-19\) Pneumonia](#)

Obstetrics & Gynecology

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Adults and Older People

[Safer intubation and extubation of patients with COVID-19](#)

Canadian Journal of Anesthesia

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[Obesity a Risk Factor for Severe COVID-19 Infection: Multiple Potential Mechanisms](#)

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[The challenge of managing patients with COVID-19 and acute behavioural disturbances](#)

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[Clinical and Autoimmune Characteristics of Severe and Critical Cases with COVID-19](#)

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[After the COVID-19 Pandemic: The Next Wave of Health Challenges for Older Adults](#)

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[Atypical presentation of COVID-19 in a frail older person](#)

Age and Ageing

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[Prevalence of malnutrition and analysis of related factors in elderly patients with COVID-19 in Wuhan, China](#)

European Journal of Clinical Nutrition

[Epidemiological and clinical characteristics of 26 asymptomatic SARS-CoV-2 carriers](#)

The Journal of Infectious Diseases

[Managing People with Diabetes Fasting for Ramadan During the COVID-19 Pandemic: A South Asian Health Foundation Update](#)

Diabetic Medicine

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[Incidence and clinical course of COVID-19 in patients with connective tissue diseases: a descriptive observational analysis](#)

The Journal of Rheumatology

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[Two cases of COVID-19 with positive salivary and negative pharyngeal or respiratory swabs at hospital discharge: a rising concern](#)

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[SARS-CoV-2 infection in a 76-year-old man with negative results for nasopharyngeal swabs and possible nosocomial transmission](#)

CMAJ

Oncology

[Esophageal oncologic surgery in SARS-CoV-2 \(COVID-19\) emergency](#)

Diseases of the Esophagus

[What the oncologist needs to know about COVID-19 infection in cancer patients](#)

Future Medicine

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[We Asked the Experts: How Do We Maintain Surgical Quality Standards for Enhanced Recovery Programs After Cancer Surgery During the COVID-19 Outbreak?](#)

World Journal of Surgery
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[Addressing the needs of cancer survivors during the COVID-19 pandemic](#)

Journal of Cancer Survivorship
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[Skin cancer triage and management during COVID-19 pandemic](#)

JEADV
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[Recommendations for prioritization, treatment, and triage of breast cancer patients during the COVID-19 pandemic. the COVID-19 pandemic breast cancer consortium](#)

Breast Cancer Research and Treatment
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[Should we wait or not? The preferable option for patients with stage IV oral cancer in COVID-19 pandemic](#)

Head & Neck

[COVID-19 in persons with haematological cancers](#)

Leukemia

[Lymphopenia that may develop in patients treated with temozolomide and immune control check-point inhibitor may be a high risk for mortality during the COVID-19 outbreak](#)

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Palliative Medicine & Care

[Virtual Reality as a Bridge in Palliative Care during COVID-19](#)

Journal of Palliative Medicine
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[Administration of end-of-life drugs by family caregivers during covid-19 pandemic](#)

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[Characteristics and Palliative Care Needs of COVID-19 Patients Receiving Comfort Directed Care](#)

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[Emergency Endoscopy During the SARS-CoV-2 Pandemic in the North of Italy: Experience from St. Orsola University Hospital—Bologna](#)

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[Low risk of covid-19 transmission in GI endoscopy](#)
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[Expression risk of COVID-19 in Endoscopy ward: a Potential Risk for Gastroenterologists](#)
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[Infection risk in a gastroenterological ward during a nosocomial COVID-19 infection event](#)
Journal of Medical Virology
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[Therapeutic uncertainties in people with cardiometabolic diseases and severe acute respiratory syndrome coronavirus 2 \(SARS-CoV-2 or COVID-19\)](#)
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[Switching to another antihypertensive effective drug when using ACEIs/ARBs to treat arterial hypertension during COVID-19](#)
European Heart Journal

[Cardiac Arrest in the COVID-19 Era](#)
European Heart Journal : Acute Cardiovascular Care

[Future-proofing cardiac rehabilitation: Transitioning services to telehealth during COVID-19](#)
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[Association of Renin-Angiotensin System Inhibitors With Severity or Risk of Death in Patients With Hypertension Hospitalized for Coronavirus Disease 2019 \(COVID-19\) Infection in Wuhan, China](#)
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[Priority plan for invasive cardiac electrophysiology procedures during the coronavirus disease 2019 \(COVID-19\) pandemic](#)
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[Arrhythmias and sudden cardiac death in the COVID-19 pandemic](#)
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[Solid Organ Transplantation Programs Facing Lack of Empiric Evidence in the COVID-19 Pandemic: A By-proxy Society Recommendation Consensus Approach](#)
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[Challenges in Heart Transplantation in the Era of COVID-19](#)
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[A Case of SARS-CoV-2-pneumonia with successful antiviral therapy in a 77-year-old male with heart transplant](#)

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[COVID-19 in a High-Risk Dual Heart and Kidney Transplant Recipient](#)

American Journal of Transplantation
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[Covid-19 pneumonia in a kidney transplant recipient successfully treated with Tocilizumab and Hydroxychloroquine](#)

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[Earliest cases of coronavirus disease 2019 \(COVID-19\) identified in solid organ transplant recipients in the United States](#)

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[The impact of the COVID-19 outbreak on Liver Transplantation programmes in Northern Italy](#)

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[COVID-19 Infection in Patients with Sickle Cell Disease](#)

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[Thrombotic events in SARS-CoV-2 patients: an urgent call for ultrasound screening](#)

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[High incidence of venous thromboembolic events in anticoagulated severe COVID-19 patients](#)

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[Points to consider in the preparation and transfusion of COVID-19 convalescent plasma](#)

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[COVID-19 Coagulopathy in Caucasian patients](#)

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[Protecting vulnerable patients with inherited anaemias from unnecessary death during the COVID-19 pandemic](#)

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Neurology & Central Nervous System

[Central Nervous System Involvement by Severe Acute Respiratory Syndrome Coronavirus -2 \(SARS-CoV-2\)](#)

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[Acute-onset smell and taste disorders in the context of Covid-19: a pilot multicenter PCR-based case-control study](#)

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[The need for neurologists in the care of COVID-19 patients](#)

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[COVID-19: what if the brain had a role in causing the deaths?](#)

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[Guillain-Barré syndrome following COVID-19: new infection, old complication?](#)

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Pathology

[COVID-19: an Immunopathological View](#)

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[Melatonin: Roles in influenza, Covid-19, and other viral infections](#)

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[Saliva as a non-invasive specimen for detection of SARS-CoV-2](#)

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[Anti-SARS-CoV-2 virus antibody levels in convalescent plasma of six donors who have recovered from COVID-19](#)

Aging

[Understanding evolution of SARS-CoV-2: a perspective from analysis of genetic diversity of RdRp gene](#)

Journal of Medical Virology

[Viral load dynamics and disease severity in patients infected with SARS-CoV-2 in Zhejiang province, China, January-March 2020: retrospective cohort study](#)

BMJ

[Advances in COVID-19: the virus, the pathogenesis, and evidence-based control and therapeutic strategies](#)

Frontiers of Medicine
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[Rapid detection of COVID-19 coronavirus using a reverse transcriptional loop-mediated isothermal amplification \(RT-LAMP\) diagnostic platform](#)

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[Real-time RT-PCR in COVID-19 detection: issues affecting the results](#)

Expert Review of Molecular Diagnostics

Editorial

[Evaluation of the auxiliary diagnostic value of antibody assays for the detection of novel coronavirus \(SARS-CoV-2\)](#)

Journal of Medical Virology

[Emerging SARS-CoV-2 mutation hot spots include a novel RNA-dependent-RNA polymerase variant](#)

Journal of Translational Medicine

[Structure-based design of antiviral drug candidates targeting the SARS-CoV-2 main protease](#)

Science

[Double-Edged Spike: Are SARS-CoV-2 Serologic Tests Safe Right Now?](#)

American Journal of Clinical Pathology

[Rapid and sensitive detection of anti-SARS-CoV-2 IgG using lanthanide-doped nanoparticles-based lateral flow immunoassay](#)

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[Expression of SARS-CoV-2 Entry Molecules ACE2 and TMPRSS2 in the Gut of Patients With IBD](#)

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[RT-LAMP for rapid diagnosis of coronavirus SARS-CoV-2](#)

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[Adipose-Derived Stromal Stem Cells \(ASCs\) as a new regenerative immediate therapy combating Coronavirus \(COVID-19\)-Induced Pneumonia](#)

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[Andrographolide As a Potential Inhibitor of SARS-CoV-2 Main Protease: An In Silico Approach](#)

Journal of Biomolecular Structure and Dynamics

[Clinical Evaluation of Three Sample-To-Answer Platforms for the Detection of SARS-CoV-2](#)

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[Asymptomatic SARS-CoV-2 infected case with viral detection positive in stool but negative in nasopharyngeal samples lasts for 42 days](#)

Journal of Medical Virology

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[Persistent viral RNA positivity during recovery period of a patient with SARS-CoV-2 infection](#)

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[Characteristics of Patients with Coronavirus Disease \(COVID-19\) Confirmed using an IgM-IgG Antibody Test](#)

Journal of Medical Virology

[Optimization of group size in pool testing strategy for SARS-CoV-2: A simple mathematical model](#)

Journal of Medical Virology

[SARS-CoV-2 can be detected in urine, blood, anal swabs and oropharyngeal swabs specimens](#)

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[Diagnostic accuracy of an automated chemiluminescent immunoassay for anti-SARS-CoV-2 IgM and IgG antibodies: an Italian experience](#)

Journal of Medical Virology
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[Neutralization of SARS-CoV-2 spike pseudotyped virus by recombinant ACE2-Ig](#)

Nature Communications

Vaccine

[Potential of live pathogen vaccines for defeating the COVID-19 pandemic: history and mechanism](#)

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[Audio Interview: Approaches to Covid-19 Vaccines and Antivirals](#)

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Drug Therapy

[Risks of ACE inhibitor and ARB usage in COVID-19: evaluating the evidence](#)

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[Antiviral treatment of COVID-19](#)

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[COVID-19, immune system response, hyperinflammation and repurposing antirheumatic drugs](#)

Turkish Journal of Medical Sciences
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[Efficacy of glutathione therapy in relieving dyspnea associated with COVID-19 pneumonia: A report of 2 cases](#)

Respiratory Medicine Case Reports
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[Fast Identification of Possible Drug Treatment of Coronavirus Disease -19 \(COVID-19\) Through Computational Drug Repurposing Study](#)

Journal of Chemical Information and Modeling

[Is GSK3 \$\beta\$ a molecular target of chloroquine treatment against COVID-19?](#)

Drug Discoveries & Therapeutics

[COVID-19 infection and treatment with hydroxychloroquine cause severe haemolysis crisis in a patient with glucose-6-phosphate dehydrogenase deficiency](#)

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Case Report

[Effect of High vs Low Doses of Chloroquine Diphosphate as Adjunctive Therapy for Patients Hospitalized With Severe Acute Respiratory Syndrome Coronavirus 2 \(SARS-CoV-2\) Infection](#)
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[Hydroxychloroquine reduces the risk of covid-19 in patients with rheumatic diseases: myth or reality?](#)

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[Is there a future for hydroxychloroquine/chloroquine in prevention of SARS-CoV-2 infection \(COVID-19\)?](#)

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[Potential use of hydroxychloroquine, ivermectin and azithromycin drugs in fighting COVID-19: trends, scope and relevance](#)

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[Corticosteroid use for 2019-nCoV infection: A double-edged sword](#)

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[Renin–Angiotensin–Aldosterone System Inhibitors in Patients with Covid-19](#)

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[Immunomodulators and immunosuppressants in the era of SARS-CoV-2 – could laboratory tests be the missing link?](#)

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[The Question of Whether to Remain on Therapy for Chronic Rheumatic Diseases in the Setting of the Covid-19 Pandemic](#)

The Journal of Rheumatology

[Handling of allergen immunotherapy in the COVID-19 pandemic: An ARIA-EAACI statement](#)

Allergy
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[A hypothesis for pathobiology and treatment of COVID-19: the centrality of ACE1/ACE2 imbalance](#)

British Journal of Pharmacology
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[Current pharmacological treatments for COVID-19: what's next?](#)

British Journal of Pharmacology
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[Renin–angiotensin–aldosterone system inhibitors and COVID-19](#)

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Imaging

[Unexpected Findings of Coronavirus Disease \(COVID-19\) at the Lung Bases on Abdominopelvic CT](#)

American Journal of Roentgenology
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[Managing high clinical suspicion COVID-19 inpatients with negative RT-PCR: a pragmatic and limited role for thoracic CT](#)

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[Sonographic signs and patterns of COVID-19 pneumonia](#)

The Ultrasound Journal

Short communication

[Variable computed tomography appearances of COVID-19](#)

Singapore Medical Journal

Case Series

[CT imaging features of 4,121 patients with COVID-19: a meta-analysis](#)

Journal of Medical Virology

[Imaging characteristics of initial chest computed tomography and clinical manifestations of patients with COVID-19 pneumonia](#)

Japanese Journal of Radiology

[Characteristic CT findings distinguishing 2019 novel coronavirus disease \(COVID-19\) from influenza pneumonia](#)

European Radiology

[Acute Pulmonary Embolism Associated with COVID-19 Pneumonia Detected by Pulmonary CT Angiography](#)

Radiology

[CT, \[18F\]FDG-PET/CT and clinical findings before and during early Covid-19 onset in a patient affected by vascular tumour](#)

European Journal of Nuclear Medicine and Molecular Imaging

Image of the Month

[A case of COVID-19 lung infection first detected by \[18F\]FDG PET-CT](#)

European Journal of Nuclear Medicine and Molecular Imaging

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[Challenges and Opportunities for Lung Ultrasound in Novel Coronavirus Disease \(COVID-19\)](#)

The American Journal of Tropical Medicine and Hygiene

Editorial

[Point-of-Care Lung Ultrasound Findings in Patients with Novel Coronavirus Disease \(COVID-19\) Pneumonia](#)

The American Journal of Tropical Medicine and Hygiene

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[COVID-19 Pandemic: Health System and Community Response to a Text Message \(Text4Hope\) Program Supporting Mental Health in Alberta](#)

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[Optimizing psychiatric care during the COVID-19 pandemic](#)

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JMIR Public Health and Surveillance

[Covid-19 and mental health: a transformational opportunity to apply an evidence-based approach to clinical practice and research](#)
Evidence-Based Mental Health
Editorial

[Systematic rapid “living” review on rehabilitation needs due to covid-19: update to march 31st 2020](#)
European Journal of Physical and Rehabilitation Medicine

[Case for continuing community NIV and CPAP during the COVID-19 epidemic](#)
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[Organization of acute patients' transfer to rehabilitation services during COVID-19 crisis](#)
European Journal of Physical and Rehabilitation Medicine

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The International Journal of Clinical Practice
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[A Call for Rational Intensive Care in the Era of COVID-19](#)
American Journal of Respiratory Cell and Molecular Biology
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[Epidemiology, genome, and clinical features of the pandemic SARS-CoV-2: a recent view](#)
New Microbes and New Infections

[How Could This Happen? : Narrowing Down the Contagion of COVID-19 and Preventing Acute Respiratory Distress Syndrome \(ARDS\)](#)
Acta Biotheoretica
Review Essay

Dynamed Plus - COVID-19 (Novel Coronavirus)

Latest updates

24 APR 2020

2,626,321 confirmed cases of coronavirus disease 2019 (COVID-19) including 181,938 deaths worldwide reported by World Health Organization (WHO) as of April 24, 2020 (WHO Situation Report 2020 Apr 24)

[View in topic](#)

24 APR 2020

varicella-like exanthem, characterized by papulovesicular lesions of the trunk, reported in patients with COVID-19 (J Am Acad Dermatol 2020 Apr 16 early online)

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24 APR 2020

cutaneous manifestations of erythematous rash, urticaria or vesicles reported in about 20% of patients hospitalized with COVID-19 in Italy (J Eur Acad Dermatol Venereol 2020 Mar 26 early online)

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23 APR 2020

National Institutes of Health (NIH) COVID-19 treatment guideline (NIH 2020 Apr 21)

[View in topic](#)

23 APR 2020

FDA issues Emergency Use Authorization permitting emergency usage of Stryker Sterizone VP4 Sterilizer with N95 Respirator Decontamination Cycle to decontaminate N95 or N95-equivalent respirators in hospital setting, enabling reuse by clinicians (FDA Emergency Use Authorization 2020 Apr 14)

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23 APR 2020

quarantine measures reported to reduce incidence and mortality during COVID-19 pandemic (Cochrane Database Syst Rev 2020 Apr 8)

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22 APR 2020

prevalence of gastrointestinal symptoms about 18% in patients with confirmed COVID-19 (Gastroenterology 2020 Apr 3 early online)

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22 APR 2020

fever, cough, and fatigue most common clinical features in patients with COVID-19 (J Med Virol 2020 Apr 15 early online)

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22 APR 2020

SARS-CoV-2 viral shedding estimated to peak before or at onset of symptoms in patients with COVID-19 (Nat Med 2020 Apr 15 early online)

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Public Health England

Topics added/updated in the last week

[Number of coronavirus \(COVID-19\) cases and risk in the UK](#)

[COVID-19: guidance for sampling and for diagnostic laboratories](#)

[COVID-19: infection prevention and control \(IPC\)](#)

[Medical devices: EU regulations for MDR and IVDR](#)

[COVID-19: background information](#)

[COVID-19: supporting adults with learning disabilities and autistic adults](#)

[COVID-19: how to work safely in care homes](#)

[COVID-19: guidance for stepdown of infection control precautions within hospitals and discharging COVID-19 patients from hospital to home settings](#)

[COVID-19: guidance for taking swab samples](#)

[COVID-19: management of exposed healthcare workers and patients in hospital settings](#)

World Health Organisation – Rolling Updates

New joint effort to reach billions who are offline with vital health information

20 April 2020

The World Health Organization and the International Telecommunication Union (ITU), with support from UNICEF, are set to work with telecommunication companies to text people on their mobile phones with vital health messaging to help protect them from COVID-19. These text messages will reach people that aren't able to connect to the internet for information.

Around the world, an estimated 3.6 billion people remain offline, with most people who are unconnected living in low-income countries. The collaboration will start in the Asia Pacific region and then roll out globally. The goal is to reach everyone with vital health messages, whatever their connectivity level.

Key materials:

[ITU-WHO Joint Statement: Unleashing information technology to defeat COVID-19](#)

Useful Links

[BMJ – latest news and resources for COVID-19](#)

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[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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Also available via our web pages at: <https://geh.wordpress.ptfs-europe.co.uk/coronavirus-covid-19-resources/>

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