COVID-19 Evidence Update
Current Awareness Bulletin
28 April 2020

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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
Database of global research on coronavirus disease (COVID-19)

Royal College/Society Guidance
Latest information and guidance

NICE
Rapid guidelines and evidence summaries

NHS
Coronavirus - Specialty Guides

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

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 Nursing
COVID-19

Royal College of General Practitioners
COVID-19

Royal College of Emergency Medicine
Covid-19 resources

Royal Pharmaceutical Society
COVID-19

British Psychological Society
Responding to Coronavirus

Royal College of Occupational Therapists
COVID-19

British Dietetic Association
COVID-19
Healthcare Workers

**Protective measures for COVID-19 for healthcare providers and laboratory personnel**
Turkish Journal of Medical Sciences
Review

**Information Overload: A Method to Share Updates among Frontline Staff during the COVID-19 Pandemic**
Otolaryngology–Head and Neck Surgery

**Psychological stress of medical staffs during outbreak of COVID-19 and adjustment strategy**
Journal of Medical Virology

**Respiratory Protection Considerations for Healthcare Workers During the COVID-19 Pandemic**
Health Security
Commentary

**Covid-19: Supporting nurses’ psychological and mental health**
Journal of Clinical Nursing
Editorial

**Extended use or reuse of N95 respirators during COVID-19 pandemic: an overview of national regulatory authorities’ recommendations**
Infection Control & Hospital Epidemiology

**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
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Protect Healthcare Workers and Patients from COVID-19: The Experience of Two Tertiary Ophthalmology Care Referral Centers in Italy
Ophthalmology and Therapy
Commentary

Children & Neonates
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
Clinical Pharmacology & Therapeutics
Brief Report
Dynamic adaptation to COVID-19 in a Singapore paediatric emergency department
Emergency Medicine Journal
Report from the front

COVID-19 FAQ’s in Pediatric Cardiac Surgery
World Journal for Pediatric and Congenital Heart Surgery
Brief Communication

Mitigating the Impacts of the COVID-19 Pandemic Response on At-Risk Children
Pediatrics
Perspective

Lung Ultrasound in Children With COVID-19
Pediatrics
Research Brief

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection in Children and Adolescents : A Systematic Review
JAMA Pediatrics
Review

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
Review
Systemic Immunosuppressive Therapy for Inflammatory Skin Diseases in Children: Expert-Consensus-Based Guidance for Clinical Decision Making During the COVID-19 Pandemic
Pediatric Dermatology Review
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
NEJM Correspondence
Absence of severe complications from SARS-CoV-2 infection in children with rheumatic diseases treated with biologic drugs
The Journal of Rheumatology Letter

A child confirmed COVID-19 with only symptoms of conjunctivitis and eyelid dermatitis
Graefe's Archive for Clinical and Experimental Ophthalmology Letter to the editor

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

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Pregnancy and Birth

A practice of anesthesia scenario design for emergency cesarean section in patients with COVID-19 infection based on the role of standard patient
BioScience Trends
Breastfeeding Medicine Correspondence

Successful containment of COVID-19 outbreak in a large maternity and perinatal center while continuing clinical service
Pediatric Allergy and Immunology

Successful Treatment of Preterm Labor in Association with Acute COVID-19 Infection
American Journal of Perinatology
Short Communication

A systematic scoping review of COVID-19 during pregnancy and childbirth
International Journal of Gynecology & Obstetrics Review

Asymptomatic COVID-19 infection in late pregnancy indicated no vertical transmission
Journal of Medical Virology
Short Communication

**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
Research Letter

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**Adults and Older People**

**Safer intubation and extubation of patients with COVID-19**
Canadian Journal of Anesthesia
Letter to the editor

**Obesity a Risk Factor for Severe COVID-19 Infection: Multiple Potential Mechanisms**
Circulation

**The challenge of managing patients with COVID-19 and acute behavioural disturbances**
Emergency Medicine Australasia
Letter to the editor

**Clinical and Autoimmune Characteristics of Severe and Critical Cases with COVID-19**
Clinical and Translational Science

**After the COVID-19 Pandemic: The Next Wave of Health Challenges for Older Adults**
The Journals of Gerontology
Letter to the editor

**Atypical presentation of COVID-19 in a frail older person**
Age and Ageing
Case Report

**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
Review

**Incidence and clinical course of COVID-19 in patients with connective tissue diseases: a descriptive observational analysis**
The Journal of Rheumatology
Letter
Two cases of COVID-19 with positive salivary and negative pharyngeal or respiratory swabs at hospital discharge: a rising concern
Oral Diseases
Short Communication

SARS-CoV-2 infection in a 76-year-old man with negative results for nasopharyngeal swabs and possible nosocomial transmission
CMAJ

Mental Health and Community

COVID-19 Pandemic: Health System and Community Response to a Text Message (Text4Hope) Program Supporting Mental Health in Alberta
Disaster Medicine and Public Health Preparedness

Optimizing psychiatric care during the COVID-19 pandemic
Acta Psychiatrica Scandinavica
Letter to the editor

The Effect of COVID-19 on Youth Mental Health
Psychiatric Quarterly

Effect of COVID-19 on the Mental Health Care of Older People in Canada
International Psychogeriatrics

The Role of YouTube and the Entertainment Industry in Saving Lives by Educating and Mobilizing the Public to Adopt Behaviors for Community Mitigation of COVID-19: Successive Sampling Design Study
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
Thorax

Organization of acute patients’ transfer to rehabilitation services during COVID-19 crisis
European Journal of Physical and Rehabilitation Medicine

Effect and enlightenment of rehabilitation medicine in COVID-19 management
European Journal of Physical and Rehabilitation Medicine
Suicide risk and prevention during the COVID-19 pandemic
The Lancet Psychiatry
Comment

Pathology and Vaccine

COVID-19: an Immunopathological View
mSphere

Melatonin: Roles in influenza, Covid-19, and other viral infections
Reviews in Medical Virology
Review

Saliva as a non-invasive specimen for detection of SARS-CoV-2
Journal of Clinical Microbiology
Letter to the editor

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
Review

Rapid detection of COVID-19 coronavirus using a reverse transcriptional loop-mediated isothermal amplification (RT-LAMP) diagnostic platform
Clinical Chemistry

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
Analytical Chemistry

Expression of SARS-CoV-2 Entry Molecules ACE2 and TMPRSS2 in the Gut of Patients With IBD
Inflammatory Bowel Diseases
RT-LAMP for rapid diagnosis of coronavirus SARS-CoV-2
Microbial Biotechnology

Adipose-Derived Stromal Stem Cells (ASCs) as a new regenerative immediate therapy combating Coronavirus (COVID-19)-Induced Pneumonia
Expert Opinion on Biological Therapy
Editorial

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
Journal of Clinical Microbiology

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
Letter to the editor
Persistent viral RNA positivity during recovery period of a patient with SARS-CoV-2 infection
Journal of Medical Virology
Short Communication

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
Journal of Medical Virology
Short Communication

Diagnostic accuracy of an automated chemiluminescent immunoassay for anti-SARS-CoV-2 IgM and IgG antibodies: an Italian experience
Journal of Medical Virology
Short Communication

Neutralization of SARS-CoV-2 spike pseudotyped virus by recombinant ACE2-Ig
Nature Communications

Potential of live pathogen vaccines for defeating the COVID-19 pandemic: history and mechanism
Journal of Medical Virology
Review

Audio Interview: Approaches to Covid-19 Vaccines and Antivirals
NEJM

Drug Therapy

Risks of ACE inhibitor and ARB usage in COVID-19: evaluating the evidence
Clinical Pharmacology & Therapeutics
Mini-Review

Antiviral treatment of COVID-19
Turkish Journal of Medical Sciences
Review
COVID-19, immune system response, hyperinflammation and repurposing antirheumatic drugs
Turkish Journal of Medical Sciences
Review

Efficacy of glutathione therapy in relieving dyspnea associated with COVID-19 pneumonia: A report of 2 cases
Respiratory Medicine Case Reports
Case Report

Fast Identification of Possible Drug Treatment of Coronavirus Disease -19 (COVID-19) Through Computational Drug Repurposing Study
Journal of Chemical Information and Modeling

Is GSK3β 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
European Journal of Haematology
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
JAMA

Hydroxychloroquine reduces the risk of covid-19 in patients with rheumatic diseases: myth or reality?
Annals of the Rheumatic Diseases
Correspondence

Is there a future for hydroxychloroquine/chloroquine in prevention of SARS-CoV-2 infection (COVID-19)?
Annals of the Rheumatic Diseases
Correspondence

Potential use of hydroxychloroquine, ivermectin and azithromycin drugs in fighting COVID-19: trends, scope and relevance
New Microbes and New Infections
Mini Review

Corticosteroid use for 2019-nCoV infection: A double-edged sword
Infection Control & Hospital Epidemiology

Renin–Angiotensin–Aldosterone System Inhibitors in Patients with Covid-19
NEJM
Special Report

Immunomodulators and immunosuppressants in the era of SARS-CoV-2 – could laboratory tests be the missing link?
Journal of Dermatological Treatment
Letter

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
EAACI Position Paper

A hypothesis for pathobiology and treatment of COVID-19: the centrality of ACE1/ACE2 imbalance
British Journal of Pharmacology
Review
Current pharmacological treatments for COVID-19: what’s next?
British Journal of Pharmacology
Review

Renin–angiotensin–aldosterone system inhibitors and COVID-19
CMAJ

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**General**

**Asthma and COVID-19**
CMAJ

**Pulmonary Embolism in COVID-19 Patients: Awareness of an Increased Prevalence**
Circulation

**Management of COVID-19 Respiratory Distress**
JAMA

**Just the Facts: Protected Code Blue - Cardiopulmonary Resuscitation in the Emergency Department during the COVID-19 pandemic**
Canadian Journal of Emergency Medicine

**Tracheostomy Protocols during COVID-19 Pandemic**
Head & Neck

**The role of self-reported olfactory and gustatory dysfunction as a screening criterion for suspected COVID-19**
European Archives of Oto-Rhino-Laryngology
Letter to the editor

**What can countries learn from Hong Kong's response to the COVID-19 pandemic?**
CMAJ

**Ramadan coincides with the Covid-19 pandemic: What should be done?**
Disaster Medicine and Public Health Preparedness
Letter to the editor

**Delivering extracorporeal membrane oxygenation for patients with COVID-19: what, who, when and how?**
Anaesthesia
Editorial

**The impact of respiratory protective equipment on difficult airway management: a randomised, crossover, simulation study**
Anaesthesia
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Epidemiology of COVID-19
Turkish Journal of Medical Sciences
Review

An effective screening and management process in the outpatient clinic for patients requiring hospitalization during the COVID-19 pandemic
Journal of Medical Virology

COVID-19: Leaving Lockdown - Of Schrodinger, Cats, Testing and Masks
The International Journal of Clinical Practice
Editorial

A Call for Rational Intensive Care in the Era of COVID-19
American Journal of Respiratory Cell and Molecular Biology
Letter to the editor

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

Aerosol Filtration Efficiency of Common Fabrics Used in Respiratory Cloth Masks
ACS Nano

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)
View in topic

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)

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)

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

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

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

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)

Useful Links

BMJ – latest news and resources for COVID-19
Cochrane Library
Elsevier - Novel Coronavirus Information Center
European Centre for Disease Prevention and Control
GOV.UK
Health Services Journal (HSJ)
Knowledge for Healthcare
New England Journal of Medicine
NHS UK
NICE
Oxford University Press
Public Health England Library
The Oxford Centre for Evidence Based Medicine
UpToDate

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