COVID-19 Bulletin
Official Guidance & Emerging Evidence

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Produced by the NHS Staff Library and Knowledge Service

Mid Yorkshire Hospitals NHS Trust
midyorks.library.pgh@nhs.net
NICE

COVID-19 guideline scope: management of the long-term effects of COVID-19

NICE, the Scottish Intercollegiate Guidelines Network (SIGN) and the Royal College of General Practitioners (RCGP) have given more details about the forthcoming guideline on post-COVID syndrome.

Official Resources & Statistics

DHSC

- Coronavirus dashboard
- DHSC testing and tracing statistics: information for users
- NHS test and trace statistics (England)
- REACT-1 study of coronavirus transmission: October 2020 interim results
- REACT-2: real-time assessment of community transmission – antibody waning
- Coronavirus England briefing: situation report main body

DHSC/PHE

- COVID-19: guidance for health professionals

PHE

- Coronavirus (COVID-19): guidance for health professionals and other organisations
- COVID-19: background information epidemiology, virology and clinical features
- National COVID-19 surveillance reports  Updated weekly
- COVID-19: impacts on health - reports and tools
- National COVID-19 surveillance reports
- PHE data series on deaths in people with COVID-19: technical summary
- Wider impacts of COVID-19 on health: monitoring tool
- National flu and COVID-19 surveillance reports
- COVID-19: impact on vaccination programmes

**NHS England**

- Specialty guides for patient management during the coronavirus pandemic
- Coronavirus guidance for clinicians and NHS managers

**NHS Health Education England**

- Coronavirus (COVID-19)

**NHS Digital**

- Potential Coronavirus (COVID-19) symptoms reported through NHS Pathways and 111 online
- [MI] Coronavirus Shielded Patient List Summary Totals, England
- Coronavirus vaccine studies volunteers dashboard

**Office for National Statistics**

- Coronavirus (COVID-19) Latest data and analysis on coronavirus (COVID-19)
- Coronavirus (COVID-19) Infection Survey: Statistical bulletins

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**Journals**

An NHS Athens account may be required for full text access, register here

**BMJ**

**Research**

- Risk of hospital admission with coronavirus disease 2019 in healthcare workers and their households: nationwide linkage cohort study
- Convalescent plasma in the management of moderate covid-19 in adults in India: open label phase II multicentre randomised controlled trial (PLACID Trial)

**News**

- Study findings strongly support use of pooled testing, say researchers
- Experts question evidence behind prime minister’s promise of rapid tests
• T cell response lasts for at least six months after infection, study shows
• Why are age and obesity risk factors for serious disease?
• Experts debate merits of lockdowns versus “focused protection”
• UK government must “get its act together” as modelling suggests 85,000 deaths in second wave, experts say
• GPs are told to be ready to deliver vaccine from next month

Analysis
• Harms of public health interventions against Covid-19 must not be ignored

JAMA [Journal of the American Medical Association]
• Factors Associated With Death in Critically Ill Patients With Coronavirus Disease 2019 in the US
• Long-term Health Consequences of COVID-19
• Levels of Severity of Depressive Symptoms Among At-Risk Groups in the UK During the COVID-19 Pandemic
• Seropositive Prevalence of Antibodies Against SARS-CoV-2 in Wuhan, China

Mark Allen Group
• Coronavirus (COVID-19): articles and resources Mark Allen Healthcare journals.

New England Journal of Medicine
• Remdesivir for the Treatment of Covid-19 — Final Report
• Remdesivir for 5 or 10 Days in Patients with Severe Covid-19
• Audio Interview: A New Monoclonal Antibody for Covid-19
• SARS-CoV-2 Neutralizing Antibody LY-CoV555 in Outpatients with Covid-19
• Evaluating and Deploying Covid-19 Vaccines — The Importance of Transparency, Scientific Integrity, and Public Trust
• Humoral Immune Response to SARS-CoV-2 in Iceland

The Lancet
• COVID-19 human challenge studies in the UK
• SARS-CoV-2 seroprevalence and transmission risk factors among high-risk close contacts: a retrospective cohort study
• Co-infections: testing macrolides for added benefit in patients with COVID-19
• Limitations of using mobile phone data to model COVID-19 transmission in the USA
• Characterising neuropsychiatric disorders in patients with COVID-19
• Asymptomatic health-care worker screening during the COVID-19 pandemic
• Dexamethasone in hospitalised patients with COVID-19: addressing uncertainties
COVID-19 transmission—up in the air

Residential context and COVID-19 mortality among adults aged 70 years and older in Stockholm: a population-based, observational study using individual-level data

What defines an efficacious COVID-19 vaccine? A review of the challenges assessing the clinical efficacy of vaccines against SARS-CoV-2

COVID-19 associated arterial ischaemic stroke and multisystem inflammatory syndrome in children: a case report

Ventilation management and clinical outcomes in invasively ventilated patients with COVID-19 (ProVENT-COVID): a national, multicentre, observational cohort study

The temporal association of introducing and lifting non-pharmaceutical interventions with the time-varying reproduction number (R) of SARS-CoV-2: a modelling study across 131 countries

Challenges in creating herd immunity to SARS-CoV-2 infection by mass vaccination

Factors affecting the mortality of patients with COVID-19 undergoing surgery and the safety of medical staff: A systematic review and meta-analysis

Analytical and clinical performances of five immunoassays for the detection of SARS-CoV-2 antibodies in comparison with neutralization activity

Eculizumab as an emergency treatment for adult patients with severe COVID-19 in the intensive care unit: A proof-of-concept study

Widespread smell testing for COVID-19 has limited application

Nature Journals

SARS-CoV-2 and COVID-19 Springer Nature

COVID research updates: The coronavirus’s spread in households is fast and often silent

An artificial intelligence-based first-line defence against COVID-19: digitally screening citizens for risks via a chatbot

Selection, biophysical and structural analysis of synthetic nanobodies that effectively neutralize SARS-CoV-2

COVID-19-associated gastrointestinal and liver injury: clinical features and potential mechanisms

Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods

Age-specific mortality and immunity patterns of SARS-CoV-2

Quantification of antibody avidities and accurate detection of SARS-CoV-2 antibodies in serum and saliva on plasmonic substrates

Antihypertensive drugs are associated with reduced fatal outcomes and improved clinical characteristics in elderly COVID-19 patients
• Patient-derived SARS-CoV-2 mutations impact viral replication dynamics and infectivity in vitro and with clinical implications in vivo
• Disease burden and clinical severity of the first pandemic wave of COVID-19 in Wuhan, China
• Protection against SARS-CoV-2 by BCG vaccination is not supported by epidemiological analyses
• Early expansion of myeloid-derived suppressor cells inhibits SARS-CoV-2 specific T-cell response and may predict fatal COVID-19 outcome
• Structural basis for potent neutralization of SARS-CoV-2 and role of antibody affinity maturation
• Insights into the use of mesenchymal stem cells in COVID-19 mediated acute respiratory failure
• Cytokine release syndrome is not usually caused by secondary hemophagocytic lymphohistiocytosis in a cohort of 19 critically ill COVID-19 patients
• Longitudinal observation and decline of neutralizing antibody responses in the three months following SARS-CoV-2 infection in humans
• The global population of SARS-CoV-2 is composed of six major subtypes

Nursing Standard
• Free Access to news and evidence-based resources relevant to the COVID-19 pandemic.

Research & Reviews

BMJ Case Reports
Covid-19 content collection
• Rare complication of COVID-19 presenting as isolated headache
• Follicular eruption as a cutaneous manifestation in COVID-19
• Use of remdesivir in the presence of elevated LFTs for the treatment of severe COVID-19 infection
• Clinical course of COVID-19 among immunocompromised children: a clinical case series

Oxford University Press
• The experience of the health care workers of a severely hit SARS-CoV-2 referral Hospital in Italy: incidence, clinical course and modifiable risk factors for COVID-19 infection
• Longitudinal analysis of serology and neutralizing antibody levels in COVID19 convalescents
• SARS-CoV-2 viral load on admission is associated with 30-day mortality
• Clinical Characteristics and Outcomes of COVID-19-Infected Cancer Patients: A Systematic Review and Meta-Analysis
- SARS-CoV-2 Whole Genome Amplification and Sequencing for Effective Population-Based Surveillance and Control of Viral Transmission
- Vitamin D Status in Hospitalized Patients With SARS-CoV-2 Infection
- Cardiovascular comorbidities as predictors for severe COVID-19 infection or death
- Effects of Recent Use of Renin-Angiotensin System Inhibitors on Mortality of Patients with Coronavirus Disease 2019
- Cell-based culture of SARS-CoV-2 informs infectivity and safe de-isolation assessments during COVID-19
- Bayesian Estimation of the Seroprevalence of Antibodies to SARS-CoV-2
- Outcomes of COVID-19 related hospitalization among people with HIV in the ISARIC WHO Clinical Characterization Protocol (UK): a prospective observational study
- Personal protective equipment and infection prevention and control: a national survey of UK medical students and interim foundation doctors during the COVID-19 pandemic
- Spotlight on COVID-19 rapid guidance: NICE’s experience of producing rapid guidelines during the pandemic
- Computational strategies to combat COVID-19: useful tools to accelerate SARS-CoV-2 and coronavirus research
- Lack of antibodies to SARS-CoV-2 in a large cohort of previously infected persons

Taylor & Francis

- Pathway enrichment analysis of virus-host interactome and prioritization of novel compounds targeting the spike glycoprotein receptor binding domain–human angiotensin-converting enzyme 2 interface to combat SARS-CoV-2
- Identification of natural inhibitors against Mpro of SARS-CoV-2 by molecular docking, molecular dynamics simulation, and MM/PBSA methods
- Admission hyperglycaemia as a predictor of mortality in patients hospitalized with COVID-19 regardless of diabetes status: data from the Spanish SEMI-COVID-19 Registry
- Guiding principles for undergraduate medical education in the time of the COVID-19 pandemic

Elsevier & Science Direct

Novel Coronavirus Information Center

- Differences of SARS-CoV-2 serological test performance between hospitalized and outpatient COVID-19 cases
- Viral Kinetics of SARS-CoV-2 over the preclinical, clinical, and postclinical period
- Significantly decreased mortality in a large cohort of COVID-19 patients transfused early with convalescent plasma containing high titer anti-SARS-CoV-2 spike protein IgG
• Hydroxychloroquine for the treatment and prophylaxis of COVID-19: The journey so far and the road ahead

• Identifying the measurements required to estimate rates of COVID-19 transmission, infection, and detection, using variational data assimilation

• The Association of “Loss of Smell” to COVID-19: A systematic review and meta-analysis

• Effectiveness of non-pharmaceutical interventions on COVID-19 transmission in 190 countries from 23 January to 13 April 2020

Preprints

Wiley Open Research

• These are preprints and have not been peer reviewed. Data may be preliminary.

medRxiv and bioRxiv

• Preliminary reports of work not yet certified by peer review. Added daily.

• Association between living with children and outcomes from COVID-19: an OpenSAFELY cohort study of 12 million adults in England

Europe PubMed Central

• Coronavirus articles and preprints

Information Sources

• Cochrane Library

  New Interventions for the prevention and treatment of COVID-19: a living mapping of research and living network meta-analysis

• Covid-19 Best Evidence "Front Door"

• COVID-19 Evidence Alerts from McMaster PLUS™

• Critical Care Reviews

• Dynamed

• House of Commons Library

• Knowledge for Healthcare (Health Education England)

• LitCovid

• MRC Centre for Global Infectious Disease Analysis Covid Publications

  New Report 34 - COVID-19 Infection Fatality Ratio Estimates from Seroprevalence

• NIHR Innovation Observatory

• NIHR Policy Research Programme COVID-19 research
• Oxford COVID-19 Evidence Service : Centre for Evidence-Based Medicine
• PHE Knowledge and Library Services team - Finding the evidence: Coronavirus
• The Strategy Unit - Analytical Collaboration for COVID-19
• Trip Database - Evidence and grey literature
• WHO Global Outbreak Alert and Response Network (GOARN)

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