COVID-19 Bulletin
Official Guidance & Emerging Evidence

17th December 2020

Produced by the NHS Staff Library and Knowledge Service

Mid Yorkshire Hospitals NHS Trust
midyorks.library.pgh@nhs.net
Go to:

**New or Updated Guidance**

**Official Resources & Statistics**

**Journals**

**Research & Reviews**

**Information Sources**

---

**New or Updated Guidance**

**Department of Health and Social Care**

- [REACT-1 study of coronavirus transmission: November 2020 final results](#)
- [Coronavirus COVID-19 serology and viral detection tests: technical validation reports](#)

**Public Health England**

- [SACN rapid review: Vitamin D and acute respiratory tract infections](#)
  The Scientific Advisory Committee on Nutrition (SACN) rapid review on vitamin D and acute respiratory tract infections (ARTI).
- [Immunity and how vaccines work: the green book, chapter 1](#) UPDATED
- [COVID-19 vaccination: guide for healthcare workers](#) UPDATED
- [COVID-19: impact on STIs, HIV and viral hepatitis](#)
  Report assessing the impact of the COVID-19 pandemic on prevention, testing, diagnosis and care for STIs, HIV and hepatitis in England.
- [COVID-19 vaccination: consent form and letter for adults](#)

**Medicines and Healthcare products Regulatory Agency**

- [Regulatory approval of Pfizer / BioNTech vaccine for COVID-19](#) UPDATED
- [Information for Healthcare Professionals on Pfizer/BioNTech COVID-19 vaccine](#)
- [COVID-19 mRNA Vaccine BNT162b2 concentrate for solution for injection](#)
- [Coronavirus Yellow Card reporting site](#)

---

**Official Resources & Statistics**

**DHSC**

- [Coronavirus dashboard](#)
- [DHSC testing and tracing statistics: information for users](#)
- [NHS test and trace statistics (England)](#)
- [PPE deliveries statistics (England): weekly reports](#)
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
- [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

- [Coronavirus guidance for clinicians and NHS managers](#)
  - NEW Supporting pregnant women using maternity services during the coronavirus pandemic: Actions for NHS providers
  - NEW Cancer Services Recovery Plan
  - NEW Patient Group Direction for COVID-19 mRNA vaccine BNT162b2 –
  - NEW Patient Group Direction – Pfizer/BioNTech COVID-19 vaccine summary –

NICE

- [Specialty guides](#)

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](#)
An NHS Athens account may be required for full text access, register here

BMJ

Editorials

- Covid 19: Christmas relaxation will overwhelm services
- Lightening the viral load to lessen covid-19 severity
- Lateral flow tests cannot rule out SARS-CoV-2 infection
- The hidden army: how a GP-patient volunteer group responded to covid-19

Research

- Comparative evaluation of clinical manifestations and risk of death in patients admitted to hospital with covid-19 and seasonal influenza: cohort study
- Reserving coronavirus disease 2019 vaccines for global access: cross sectional analysis

JAMA [Journal of the American Medical Association]

- Assessment of an Online Tool to Simulate the Effect of Pooled Testing for SARS-CoV-2 Detection in Asymptomatic and Symptomatic Populations
- Evaluation of Cloth Masks and Modified Procedure Masks as Personal Protective Equipment for the Public During the COVID-19 Pandemic
- Risk Factors Associated With In-Hospital Mortality in a US National Sample of Patients With COVID-19
- All-Cause Excess Mortality and COVID-19–Related Mortality Among US Adults Aged 25-44 Years, March-July 2020
- Racial Differences in Statewide Suicide Mortality Trends in Maryland During the Coronavirus Disease 2019 (COVID-19) Pandemic
- Maximizing the Uptake of a COVID-19 Vaccine in People With Severe Mental Illness: A Public Health Priority
- Readmission and Death After Initial Hospital Discharge Among Patients With COVID-19 in a Large Multihospital System
- Household Transmission of SARS-CoV-2: A Systematic Review and Meta-analysis
- Analyses of Risk, Racial Disparity, and Outcomes Among US Patients With Cancer and COVID-19 Infection

The Lancet

Podcast

- The story of 2020 in five COVID-19 papers

Comment

- Concerns and motivations about COVID-19 vaccination
Could routine race-adjustment of spirometers exacerbate racial disparities in COVID-19 recovery?

Pay gaps in medicine and the impact of COVID-19 on doctors' careers

Editorial

Facing up to long COVID

Inclusion of pregnant women in COVID-19 treatment trials: a review and global call to action

Research

Influence of socioeconomic deprivation on interventions and outcomes for patients admitted with COVID-19 to critical care units in Scotland: a national cohort study

Neuroimaging manifestations in children with SARS-CoV-2 infection: a multinational, multicentre collaborative study

SARS-CoV-2 antibody seroprevalence in the general population and high-risk occupational groups across 18 cities in Iran: a population-based cross-sectional study

Defining and managing COVID-19-associated pulmonary aspergillosis: the 2020 ECMM/ISHAM consensus criteria for research and clinical guidance

Rapid triage for COVID-19 using routine clinical data for patients attending hospital: development and prospective validation of an artificial intelligence screening test

HIV infection and COVID-19 death: a population-based cohort analysis of UK primary care data and linked national death registrations within the OpenSAFELY platform

Community prevalence of SARS-CoV-2 in England from April to November, 2020: results from the ONS Coronavirus Infection Survey

Rapid triage for COVID-19 using routine clinical data for patients attending hospital: development and prospective validation of an artificial intelligence screening test

Impact of COVID-19 outbreak on nurses' mental health: a prospective cohort study

Retrospective study identifies infection related risk factors in close contacts during COVID-19 epidemic

A systematic review of possible airborne transmission of the COVID-19 virus (SARS-CoV-2) in the indoor air environment

Total containment of the population and number of confirmed cases of covid-19 in England, Belgium, France and Italy

Dynamic Anti-Spike Protein Antibody Profiles in COVID-19 Patients

Oxygen metabolism markers as predictors of mortality in severe COVID-19

Comparison of six commercially available SARS-CoV-2 antibody assays – choice of assay depends on intended use

Metformin use is associated with a reduced risk of mortality in patients with diabetes hospitalised for COVID-19
• The impact of non-pharmaceutical interventions, demographic, social, and climatic factors on the initial growth rate of COVID-19: A cross-country study

New England Journal of Medicine
• Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine
• Audio Interview: SARS-CoV-2 Vaccination and Vulnerable Populations
• Audio Interview: Covid-19 Vaccine Fundamentals
• Emergence of a Highly Fit SARS-CoV-2 Variant
• Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine
• Phase 1–2 Trial of a SARS-CoV-2 Recombinant Spike Protein Nanoparticle Vaccine
• Baricitinib plus Remdesivir for Hospitalized Adults with Covid-19

Nature Journals
• Genetic mechanisms of critical illness in Covid-19
• A single dose of recombinant VSV-ΔG-spike vaccine provides protection against SARS-CoV-2 challenge
• Development of immunohistochemistry and in situ hybridisation for the detection of SARS-CoV and SARS-CoV-2 in formalin-fixed paraffin-embedded specimens
• Treatment of COVID-19 with remdesivir in the absence of humoral immunity: a case report
• Genomic epidemiology reveals transmission patterns and dynamics of SARS-CoV-2 in Aotearoa New Zealand
• Hyperactivation of P2X7 receptors as a culprit of COVID-19 neuropathology
• Dynamic profiles of SARS-Cov-2 infection from five Chinese family clusters in the early stage of the COVID-19 pandemic
• Genetic architecture of host proteins involved in SARS-CoV-2 infection
• Prediction of disease progression in patients with COVID-19 by artificial intelligence assisted lesion quantification
• Pathological and molecular examinations of postmortem testis biopsies reveal SARS-CoV-2 infection in the testis and spermatogenesis damage in COVID-19 patients
• Gene expression network analysis provides potential targets against SARS-CoV-2
• Impact of comorbid asthma on severity of coronavirus disease (COVID-19)
• Blockage of interleukin-1β with canakinumab in patients with Covid-19
• Drug repurposing for COVID-19 using machine learning and mechanistic models of signal transduction circuits related to SARS-CoV-2 infection
• Tracking the early depleting transmission dynamics of COVID-19 with a time-varying SIR model
• Multidisciplinary approach to COVID-19 risk communication: a framework and tool for individual and regional risk assessment

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

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

Research & Reviews

BMJ Case Reports
• Covid-19 content collection
• Brief psychotic disorder associated with quarantine and mild COVID-19
• Emergency presentation of iatrogenic airway stenosis following intubation in a patient with COVID-19 and its management
• Acute disseminated encephalomyelitis (ADEM) associated with COVID-19
• Symptomatic relapse and long-term sequelae of COVID-19 in a previously healthy 30-year-old man
• COVID-19-associated takotsubo cardiomyopathy
• Spontaneous pneumomediastinum, pneumothorax and subcutaneous emphysema in COVID-19 pneumonia: a rare case and literature review
• Haemolytic anaemia: a consequence of COVID-19

Oxford University Press
• The utility of rapid nucleic acid amplification testing to triage symptomatic patients and to screen asymptomatic pre-procedure patients for SARS-CoV-2
• Robots as intelligent assistants to face COVID-19 pandemic
• COVID-19 and associations with frailty and multimorbidity: a prospective analysis of UK Biobank participants
• Overcoming the therapeutic nihilism of out-of-hospital management of COVID-19 patients
• Tobacco Products and the Risks of SARS-CoV-2 Infection and COVID-19
• Minimal Population Prevalence and Mortality of COVID-19 in Health Care Personnel
• The COVID-19 Pandemic and Psychosocial Outcomes across Age through the Stress and Coping Framework
• The impact of the COVID-19 pandemic on the medical care and healthcare-behaviour of patients with lupus and other systemic autoimmune diseases: a mixed methods longitudinal study
• The COVID-19 Trial Finder

• Symptomatic SARS-CoV-2 reinfection of a health care worker in a Belgian nosocomial outbreak despite primary neutralizing antibody response

• Why Temperature Screening for COVID-19 with Non-Contact Infrared Thermometers Doesn’t Work

• CRISPR-Based Approaches for Efficient and Accurate Detection of SARS-CoV-2

• From resilient to transilient health systems: the deep transformation of health systems in response to the COVID-19 pandemic

• Assessment of the risk of SARS-CoV-2 reinfection in an intense re-exposure setting

• SARS-CoV-2 seroprevalence and risk factors among oligo/asymptomatic healthcare workers (HCW): estimating the impact of community transmission

• Recovery from respiratory failure after 49-day extracorporeal membrane oxygenation support in a critically ill patient with COVID-19: case report

• Monitoring the evolving impact of COVID-19 on institutional surgical services: imperative for quality improvement platforms

• Innovative Care Delivery of Acute Rehabilitation for Patients With COVID-19: A Case Report

• Conflicting results on the efficacy of remdesivir in hospitalized Covid-19 patients: comment on the Adaptive Covid-19 Treatment Trial

• Differential household attack rates mirror the ability to control Covid-19

• Physicians’ deaths related to SARS-CoV-2 infections in Italy

• Accuracy in measuring racial disparities during the COVID-19 pandemic needs improvement

• Association between seasonal flu vaccination and COVID-19 among healthcare workers

• Retrospective Analyses Associate Hemostasis Activation Biomarkers With Poor Outcomes in Patients With COVID-19

Taylor & Francis

• Psychological Well-Being, Depression and Stress During COVID-19 Pandemic in Turkey: A Comparative Study of Healthcare Professionals and Non-Healthcare Professionals

• The effect of perceived stress on anxiety and sleep quality among healthcare professionals in intensive care units during the coronavirus pandemic

• Evaluating the WHO’s framing and crisis management strategy during the early stage of COVID-19 outbreak

• Risk factors of mortality and contribution of treatment in patients infected with COVID-19: a retrospective propensity score matched study

• Costs of COVID-19 pandemic associated with diabetes in Europe: a health care cost model
Emerging role of artificial intelligence in therapeutics for COVID-19: a systematic review

Elsevier/Science Direct

Lycorine, a non-nucleoside RNA dependent RNA polymerase inhibitor, as potential treatment for emerging coronavirus infections

Temperature Dependence of the SARS-CoV-2 affinity to human ACE2 determines COVID-19 progression and clinical outcome

A booster dose enhances immunogenicity of the COVID-19 vaccine candidate ChAdOx1 nCoV-19 in aged mice

Characteristics and outcomes of coronavirus disease 2019 (COVID-19) in critically ill pediatric patients admitted to the intensive care unit: A multicenter retrospective cohort study

Is newly diagnosed diabetes as frequent as preexisting diabetes in COVID-19 patients?

Clinical and Laboratory Findings of COVID-19: A Systematic Review and Meta-Analysis


The growing complexity of COVID-19 drug and vaccine candidates: challenges and critical transitions

Experience of comprehensive interventions in reducing occupational exposure to COVID-19


A retrospective comparison of drugs against COVID-19

Fearing the Disease or the Vaccine: The Case of COVID-19

The JANUS of chronic inflammatory and autoimmune diseases onset during COVID-19 – A systematic review of the literature

Tocilizumab in the Treatment of Critical COVID-19 Pneumonia: A Retrospective Cohort Study of Mechanically Ventilated Patients

Race and ethnicity, gender, and age on perceived threats and fear of COVID-19: Evidence from two national data sources

SARS-CoV-2 infections among healthcare workers at Helsinki University Hospital, Finland, spring 2020: serosurvey, symptoms and risk factors

Temperature dependence of COVID-19 transmission

Hypertension is a clinically important risk factor for critical illness and mortality in COVID-19: A meta-analysis

An umbrella review of systematic reviews with meta-analyses evaluating positive and negative outcomes of hydroxychloroquine and chloroquine therapy
• Mortality, Critical Illness, and Mechanical Ventilation among Hospitalized Patients with COVID-19 on Therapeutic Anticoagulants
• Safety and efficacy of hydroxychloroquine in 152 outpatients with confirmed COVID-19: A pilot observational study
• Therapeutic potential of medicinal plants against COVID-19: the role of antiviral medicinal metabolites
• The Effect of COVID-19 Pandemic on the Mental Health of Canadian Critical Care Nurses Providing Patient Care during the Early Phase Pandemic: A Mixed Method Study
• Influence of population density, temperature, and absolute humidity on spread and decay durations of COVID-19: A comparative study of scenarios in China, England, Germany, and Japan
• Threshold Condition and Non Pharmaceutical Interventions’s Control strategies for Elimination of COVID-19
• Cytokine Storm Induced by SARS-CoV-2 Infection: The Spectrum of its Neurological Manifestations
• Host transcriptomic profiling of COVID-19 patients with mild, moderate, and severe clinical outcomes

**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](#).

**Europe PubMed Central**

• Coronavirus articles and [preprints](#)

**Information Sources**

• [Cochrane Library](#)
• [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](#)
Report 40 - Optimal scheduling rules for elective care to minimize years of life lost during the SARS-CoV-2 pandemic: an application to England

- **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**
- **PHE COVID-19 Rapid Reviews**
- **The Strategy Unit - Analytical Collaboration for COVID-19**
- **Trip Database - Evidence and grey literature**
- **WHO Global Outbreak Alert and Response Network (GOARN)**

Disclaimer:
While we make every possible effort to ensure that the information in this publication is accurate and up to date at the time of publishing, we do not accept any responsibility for errors or omissions. Nor do we accept any responsibility for loss or damage resulting from making use of this information. Links to third party websites are provided for the convenience of users and we in no way endorse the contents, views or information held on such sites.