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

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New or Updated Guidance

Public Health England

**One dose of COVID-19 vaccine can cut household transmission by up to half**

A new study by Public Health England (PHE) has shown that one dose of the COVID-19 vaccine reduces household transmission by up to half. See [Impact of vaccination on household transmission of SARS-CoV-2 in England](https://www.gov.uk/government/publications/impact-of-vaccination-on-household-transmission-of-sars-cov-2-in-england).

**National protocol for COVID-19 Vaccine AstraZeneca (ChAdOx1-S [recombinant]) UPDATED**

**Clinical investigation and management of COVID-19 vaccine induced thrombosis and thrombocytopenia**

**Scientific Advisory Group for Emergencies**

**HOCI and EMG: Masks for healthcare workers to mitigate airborne transmission of SARS-CoV-2, 25 March 2021**

**PHE: Readyreckoners under vaccination based on POLYMOD contact surveys**

Official Resources & Statistics

**DHSC**

- [The R number and growth rate in the UK](https://www.gov.uk/government/publications/the-r-number-and-growth-rate-in-the-uk)
- [Coronavirus dashboard](https://www.gov.uk/government/publications/coronavirus-dashboard)

**DHSC/PHE**


**PHE**

• National flu and COVID-19 surveillance reports
• COVID-19: reported SARS-CoV-2 deaths in England
• COVID-19 variants: genomically confirmed case numbers

MHRA
• Coronavirus (COVID-19) vaccine adverse reactions
  A weekly report covering adverse reactions to approved COVID-19 vaccines

NHS England
• 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
• Coronavirus (COVID-19) latest insights

West Yorkshire Association of Acute Trusts
• Statement on current Covid-19 hospital inpatient cases in West Yorkshire and Harrogate

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

BMJ
• Prophylaxis against covid-19: living systematic review and network meta-analysis

British Journal of Clinical Pharmacology
• Antihypertensive Medications and COVID-19 Diagnosis and Mortality: Population-based Case-Control Analysis in the United Kingdom

JAMA [Journal of the American Medical Association]
• Effect of Intermediate-Dose vs Standard-Dose Prophylactic Anticoagulation on Thrombotic Events, Extracorporeal Membrane Oxygenation Treatment, or Mortality Among Patients With COVID-19 Admitted to the Intensive Care Unit: The INSPIRATION Randomized Clinical Trial
• Genomic Epidemiology of SARS-CoV-2 Infection During the Initial Pandemic Wave and Association With Disease Severity
• Simulated Identification of Silent COVID-19 Infections Among Children and Estimated Future Infection Rates With Vaccination
• Association of Maternal Perinatal SARS-CoV-2 Infection With Neonatal Outcomes During the COVID-19 Pandemic in Massachusetts
• Cardiac Corrected QT Interval Changes Among Patients Treated for COVID-19 Infection During the Early Phase of the Pandemic

The Lancet

• Associations between body-mass index and COVID-19 severity in 6.9 million people in England: a prospective, community-based, cohort study
• The impact of the COVID-19 pandemic on cancer diagnosis and service access in New Zealand—a country pursuing COVID-19 elimination
• Bilateral infiltrates in a health-care worker during the COVID-19 pandemic
• SARS-CoV-2 elimination, not mitigation, creates best outcomes for health, the economy, and civil liberties
• SARS-CoV-2 outbreak in immune-mediated inflammatory diseases: the Euro-COVIMID multicentre cross-sectional study
• Vaccine side-effects and SARS-CoV-2 infection after vaccination in users of the COVID Symptom Study app in the UK: a prospective observational study
• Safety and immunogenicity of one versus two doses of the COVID-19 vaccine BNT162b2 for patients with cancer: interim analysis of a prospective observational study
• SARS-CoV-2 antibody-positivity protects against reinfection for at least seven months with 95% efficacy
• Safety and immunogenicity of one versus two doses of the COVID-19 vaccine BNT162b2 for patients with cancer: interim analysis of a prospective observational study
• An autopsy study of the spectrum of severe COVID-19 in children: From SARS to different phenotypes of MIS-C
• Variability in COVID-19 in-hospital mortality rates between national health service trusts and regions in England: A national observational study for the Getting It Right First Time Programme
• Analysis of the potential impact of durability, timing, and transmission blocking of COVID-19 vaccine on morbidity and mortality
• Interim findings from first-dose mass COVID-19 vaccination roll-out and COVID-19 hospital admissions in Scotland: a national prospective cohort study
• COVID-19 vaccine coverage in health-care workers in England and effectiveness of BNT162b2 mRNA vaccine against infection (SIREN): a prospective, multicentre, cohort study
• A conceptual framework to accelerate the clinical impact of evolving research into long COVID
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

- Febrile neutropenia due to COVID-19 in an immunocompetent patient
- Cardiorenal syndrome in COVID-19
- New-onset psychosis due to COVID-19
- COVID-19 triggering mucormycosis in a susceptible patient: a new phenomenon in the developing world?

King’s Fund

- Deaths from Covid-19 (coronavirus): how are they counted and what do they show?
- The NHS Staff Survey: working through Covid-19 and beyond
  Podcast - Helen McKenna sits down with Suzie Bailey, Director of Leadership and Organisational Development at The King’s Fund and Professor Michael West to explore the results of the 2020 NHS Staff Survey and discuss how the NHS can create an inclusive, compassionate, and supportive working environment for staff.

Elsevier/Science Direct

- Covid-19 Vaccine Acceptance, Hesitancy and Refusal among Canadian Healthcare Workers: a Multicenter Survey
- Rate of thrombosis in children and adolescents hospitalized with COVID-19 or MIS-C
- Therapeutic development by repurposing drugs targeting SARS-CoV-2 spike protein interactions by simulation studies
- Comparative diagnostic performance of different rapid antigen detection tests for COVID-19 in the real-world hospital setting
- The role of supporting services in driving SARS-CoV-2 transmission within healthcare settings: a multicenter seroprevalence study
- Efficacy and safety of tocilizumab in COVID-19 patients: A living systematic Review and meta-analysis: first update
- Predictors of Covid-19 case fatality rate: An ecological study
- Safety and immunogenicity of one versus two doses of the COVID-19 vaccine BNT162b2 for patients with cancer: interim analysis of a prospective observational study
- Impact of non-pharmacological initiatives for COVID-19 on hospital admissions due to pediatric acute respiratory illnesses
• Environmental hygiene, knowledge and cleaning practice: a phenomenological study of nurses and midwives during COVID-19
• Resources and computational strategies to advance small molecule SARS-CoV-2 discovery: lessons from the pandemic and preparing for future health crises
• Comparative analysis of chemical breath-prints through olfactory technology for the discrimination between SARS-CoV-2 infected patients and controls
• Isolation of SARS-CoV-2 from the air in a car driven by a COVID patient with mild illness
• Asymptomatic COVID-19 Re-infection in a Japanese Male by Elevated Half-Maximal Inhibitory Concentration (IC50) of Neutralizing Antibodies
• SARS-CoV-2 infection and antibody seroprevalence among UK healthcare professionals working with cancer patients during the first wave of the COVID-19 pandemic
• Role of the early short-course corticosteroids treatment in ARDS caused by COVID-19: a single-center, retrospective analysis
• Long-term outcomes of patients following hospitalization for COVID-19: a prospective observational study
• Interim findings from first-dose mass COVID-19 vaccination roll-out and COVID-19 hospital admissions in Scotland: a national prospective cohort study
• Interim findings from first-dose mass COVID-19 vaccination roll-out and COVID-19 hospital admissions in Scotland: a national prospective cohort study

Oxford University Press

• A combination of N and S antigens with IgA and IgG measurement strengthens the accuracy of SARS-CoV-2 serodiagnostics
• SARS-CoV-2 Sequence Characteristics of COVID-19 Persistence and Reinfection
• Disease severity and durability of the SARS-CoV-2 antibody response: A view through the lens of the second year of the pandemic
• Vaccinated and convalescent donor-derived SARS-CoV-2-specific T cells as adoptive immunotherapy for high-risk COVID-19 patients
• Effectiveness of mRNA COVID-19 vaccines against SARS-CoV-2 infection in a cohort of healthcare personnel
• First dose of BNT162b2 mRNA vaccine in a Health Care Worker cohort is associated with reduced symptomatic and asymptomatic SARS-CoV-2 infection
• Household exposure to SARS-CoV-2 and association with COVID-19 severity: a Danish nationwide cohort study
• Medium-term outcome of severe to critically ill patients with SARS-CoV-2 infection
• SARS-CoV-2 viral persistence based on cycle threshold value and liver injury in patients with COVID-19
• Smoking and the risk of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection
• The longest persistence of viable SARS-CoV-2 with recurrence of viremia and relapsing symptomatic COVID-19 in an immunocompromised patient – a case study
Nature Journals

- **Adjuvivanting a subunit COVID-19 vaccine to induce protective immunity**
- **Temporal dynamics of viral load and false negative rate influence the levels of testing necessary to combat COVID-19 spread**
- **Unraveling the stability landscape of mutations in the SARS-CoV-2 receptor-binding domain**
- **An open-label randomized controlled trial evaluating the efficacy of chloroquine/hydroxychloroquine in severe COVID-19 patients**
- **Analysis of IgM, IgA, and IgG isotype antibodies Directed against SARS-CoV-2 spike glycoprotein and ORF8 in the course of COVID-19**
- **An integrative drug repositioning framework discovered a potential therapeutic agent targeting COVID-19**
- **Structure and function analysis of a potent human neutralizing antibody CA521<sup>FALA</sup> against SARS-CoV-2**
- **Modelling the potential impact of mask use in schools and society on COVID-19 control in the UK**

### 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**
- **CORD-19 Explorer** A full-text search engine for the COVID-19 Open Research Dataset
- **Covid-19 Best Evidence "Front Door"**
- **COVID-19 Evidence Alerts from McMaster PLUSTM**
- **Dynamed**
- **European Centre for Disease Prevention and Control**
- **House of Commons Library**
- **Knowledge for Healthcare (Health Education England)**
- **LitCovid**
- **MRC Centre for Global Infectious Disease Analysis Covid Publications**
- **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)

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