Public Health England

**Guidance on coronavirus (COVID-19) tests and testing kits**
Initial specifications for tests and testing kits and advice for members of the public.

**Specification for ventilators to be used in UK hospitals during the coronavirus (COVID-19) outbreak**
This guidance sets out the clinical requirements based on the consensus of what is ‘minimally acceptable’ performance in the opinion of the anaesthesia and intensive care medicine professionals and medical device regulator.

**Coronavirus (COVID-19): personal protective equipment (PPE) plan**
Cross-government UK-wide plan to ensure that critical personal protective equipment (PPE) is delivered to those on the frontline responding to coronavirus (COVID-19).

**COVID-19: guidance for commissioners and providers of services for people who use drugs or alcohol**
COVID-19 guidance for commissioners and service providers for those dependent on drugs or alcohol.

**Coronavirus (COVID-19): adult social care action plan**
How the government will support the adult social care sector in England throughout the coronavirus outbreak.
World Health Organisation – Rolling Updates

Expert group forms to collaborate on vaccine development
13 April 2020
Coordinated by WHO, scientists, physicians, funders and manufacturers have come together to help speed up the availability of a vaccine against COVID-19.

Key materials
Public statement for collaboration on COVID-19 vaccine development
Database of global research on coronavirus disease (COVID-19)

Royal College/Society Guidance
Latest information and guidance

NICE
Rapid guidelines and evidence summaries

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

Royal College of Paediatrics and Child Health
Key topics COVID 19

Royal College of General Practitioners
COVID-19

Royal Pharmaceutical Society
COVID-19

Royal College of Occupational Therapists
COVID-19

Health and Care Professions Council
COVID-19 hub

NHS
Coronavirus - Specialty Guides

Royal College of Obstetrics & Gynaecologists
Coronavirus (COVID-19), pregnancy and women’s health

Royal College of Nursing
COVID-19

Royal College of Emergency Medicine
Covid-19 resources

British Psychological Society
Responding to Coronavirus

British Dietetic Association
COVID-19

Combined Intensive Care Society, Association of Anaesthetists, Royal College of Anaesthetists, Faculty of Intensive Care Medicine guidance
Clinical Guidance
Cochrane Library

Barriers and facilitators to healthcare workers’ adherence with infection prevention and control (IPC) guidelines for respiratory infectious diseases: a rapid qualitative evidence synthesis

“Across many of the findings, healthcare workers pointed to the importance of including all staff, including cleaning staff, porters, kitchen staff and other support staff when implementing IPC guidelines.”

Personal protective equipment for preventing highly infectious diseases due to exposure to contaminated body fluids in healthcare staff

Updated systematic review 15th April 2020

“We found low- to very low-certainty evidence that covering more parts of the body leads to better protection but usually comes at the cost of more difficult donning or doffing and less user comfort, and may therefore even lead to more contamination. More breathable types of PPE may lead to similar contamination but may have greater user satisfaction. Modifications to PPE design, such as tabs to grab, may decrease the risk of contamination.”

Coronavirus (COVID-19): evidence relevant to critical care

Coronavirus (COVID-19): infection prevention and control measures

Special Collection: Effective options for quitting smoking during COVID-19

Healthcare Workers

Maintaining Our Humanity Through the Mask: Mindful Communication During COVID-19

Journal of the American Geriatrics Society

When it comes to communication, we rely on language at the expense of the rest of our communication toolbox. However, nonverbal communication is just as important as the words we use.

What’s happening in covid-19 ICUs? An intensive care doctor answers some common questions

BMJ

“four intensivists tell Emma Wilkinson how they’re coping”

Global guidance for surgical care during the COVID-19 pandemic

BJS

“A backlog of procedures after the end of the COVID-19 pandemic is inevitable, and hospitals should plan how to address this effectively to ensure that patients having elective treatment have the best possible outcomes.”
**COVID-19 and student nurses: a view from England**
Journal of Clinical Nursing

“It is vital that whatever decision these students make, either to go into practice, or to follow the theory only route, that they are fully supported in their decision, and not judged.”

**The use of UV fluorescent powder for COVID-19 airway management simulation training**
Anaesthesia

“With the recognition that aerosol generating procedures are of particular importance to practice due to their high risk of virus transmission, we offer an additional tool for COVID-19 airway simulation training that helped consolidate learning and motivate change to practice in hospitals across Vancouver.”

**How to avoid nosocomial spread during Tracheostomy for Covid-19 patients**
Head & Neck

“Each tracheostomy was evaluated by intensive care physicians and otolaryngologists before operations.”

**A Guide to Facial Trauma Triage and Precautions in the COVID-19 Pandemic**
Facial Plastic Surgery & Aesthetic Medicine

“Our proposed algorithm aims to balance patient care with patient/medical personnel protection as well as judicious health care utilization.”

**Prevention and control measures in radiology department for COVID-19**
Emergency Radiology

“we summarized the experience on prevention and control measures in radiology department for COVID-19, aiming to guide the prevention and practical work for radiologists and radiological technologists.”

**A Call to Action: Novel Ways that Hepatologists Can Contribute to Patient Care During the COVID-19 Pandemic**
Digestive Diseases and Sciences

“Management of COVID-19 therapies in patients with elevated liver enzymes: Many of the medications being used to treat patients with COVID-19, including as part of therapeutic trials, can be associated with liver enzyme elevation”

**What Is the Appropriate Use of Laparoscopy over Open Procedures in the Current COVID-19 Climate?**
Journal of Gastrointestinal Surgery

“Despite very little evidence to support viral transmission through laparoscopic or open approaches, we recommend making modifications to surgical practice such as the use of smoke evacuation and minimizing energy device use among other measures to minimize operative staff exposure to aerosolized particles.”

**Letter: Rongeurs, Neurosurgeons, and COVID-19: How Do We Protect Health Care Personnel During Neurosurgical Operations in the Midst of Aerosol-Generation From High-Speed Drills?**
Neurosurgery

“we recommend our fellow neurosurgeons and trainees to uphold the traditional craft of using hand drills and rongeur in order to minimize aerosol generation from the neurosurgical powered instruments during the COVID-19 pandemic”

**Hospital Preparedness for COVID-19: A Practical Guide from a Critical Care Perspective**
American Journal of Respiratory and Critical Care Medicine
We describe in granular detail, the procedures and processes developed during a one month period while surge planning was ongoing and the need for intensive care unit capacity rose exponentially.

Common breaches in biosafety during donning and doffing of protective personal equipment used in the care of COVID-19 patients
Canadian Journal of Anesthesia
Correspondence

European Society of Trauma and Emergency Surgery (ESTES) recommendations for trauma and emergency surgery preparation during times of COVID-19 infection
European Journal of Trauma and Emergency Surgery
Recommendation

Environmental cleaning is effective for the eradication of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in contaminated hospital rooms: A patient from the Diamond Princess cruise ship
Infection Control & Hospital Epidemiology
“our data indicate the effectiveness of environmental cleaning for SARS-CoV-2 decontamination. This information is useful for infection control strategies and may alleviate the concerns of medical staff”

Covid-19: Countermeasure for N95 mask-induced pressure sore
JEADV
Letter to the editor

Otolaryngology–Head and Neck Surgery
“This commentary provides background on the outbreak, highlights critical considerations around mitigating infectious aerosol contact, and outlines best practices for airway-related clinical decision making during the COVID-19 pandemic.”

Mitigating the psychological effects of COVID-19 on health care workers
CMAJ
Commentary: “Strong leadership with clear, honest and open communication is needed to offset fears and uncertainties.”

COVID-19: What Paramedics Need to Know!
Canadian Journal of Emergency Medicine
“this article provides guidance to paramedics on the best approach to COVID-19 patients in the prehospital setting”

Children & Neonates
Don’t Forget the Bubbles: An Evidence Summary of Paediatric Covid-19 Literature

Management of Infantile Hemangiomas during the COVID Pandemic
Pediatric Dermatology
“Infantile hemangiomas can require urgent evaluation and risk stratification to determine which infants need treatment and which can be managed with continued observation.”

**The role of children in the transmission of mild SARS-CoV-2 infection**

**Acta Paediatrica**

“In trying to understand the spread of the disease, one of the most notable features is that only a small number of severe SARS-CoV-2 infections have involved children.”

**How we deal with the COVID-19 epidemic in an Italian pediatric onco-hematology clinic located in a region at high density of cases**

**British Journal of Haematology**

Letter: “All staff members have been actively screened to detect COVID-19 positive cases as early as possible; in particular, staff members have been screened once every 10 days in absence of symptoms”

**Clinical characteristics of COVID-19 in children compared with adults in Shandong Province, China**

Infection

“there is substantial lung injury even among children, but that there is less clinical disease”

**Coinfection of SARS-CoV-2 and multiple respiratory pathogens in children**

**Clinical Chemistry and Laboratory Medicine**

Letter to the editor: “In this retrospective study, we demonstrate that children are not only susceptible to SARS-CoV-2 infection, but they can be coinfected with SARS-CoV-2 and multiple respiratory viruses and bacterial pathogens including HRSV, HMPV and MP in China.”

**Clinical characteristics of 19 neonates born to mothers with COVID-19**

**Frontiers of Medicine**

“No vertical transmission of SARS-CoV-2 and no perinatal complications in the third trimester were found in our study.”

**Febrile Infant: COVID-19 in Addition to the Usual Suspects**

**The Pediatric Infectious Disease Journal**

Letter to the editor: We report a previously healthy, fully vaccinated, late preterm, 58-day-old male who presented with fever.

**CT features of novel coronavirus pneumonia (COVID-19) in children**

**European Radiology**

“Chest CT should be used with more caution in pediatric patients with COVID-19 to protect this vulnerable population from risking radiation.”

**Rapid Development of Telehealth Capabilities within Pediatric Patient Portal Infrastructure for COVID-19 Care: Barriers, Solutions, Results**

**JAMIA**

“From the experience of a large academic medical center, this report describes a pathway for efficiently increasing capacity of remote pediatric enrollment for telehealth while fulfilling privacy, security, and convenience concerns.”

**Coronavirus Disease 2019 (COVID-19) and Mental Health for Children and Adolescents**

**JAMA Pediatrics**

Viewpoint: “COVID-19 will have major repercussions for children and adolescents’ health and well-being. Timely action can help lessen the effects and improve long-term capacities for mental health services.”
COVID-19 Evidence Update
Current Awareness Bulletin
22 April 2020

SARS-CoV-2 infection (COVID-19) in febrile infants without respiratory distress
Clinical Infectious Diseases
“We report two cases of SARS-CoV-2 infection (COVID-19) in infants presenting with fever in the absence of respiratory distress who required hospitalization for evaluation of possible invasive bacterial infections.”

Paediatric Anaesthetic implications of COVID-19 – A Review of Current Literature
Pediatric Anesthesia
“This article reviews the relevant paediatric literature surrounding COVID-19 and summarises the key recommendations for anaesthetists involved in the care of children during this pandemic.”

Dealing with COVID-19 in a Pediatric Rheumatology Unit in Italy
Pediatric Drugs
Commentary: “data suggest that immunosuppressed patients may not be at increased risk of severe infection compared with the general population.”

Sequential analysis of viral load in a neonate and her mother infected with SARS-CoV-2
Clinical Infectious Diseases
“We report changes in viral load over time in a 27-day old neonate with COVID-19 who presented with fever, cough, and vomiting.”

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Pregnancy and Birth

COVID-19 vaginal delivery – a case report
ANZJOG
“We report a case from a tertiary Australian hospital describing an uncomplicated vaginal birth in a SARS-CoV-2 positive mother. To our knowledge this is also the first case described of a mother with COVID-19 not separated from her infant.”

Universal Screening for SARS-CoV-2 in Women Admitted for Delivery
NEJM
Letter to the editor: “Our use of universal SARS-CoV-2 testing in all pregnant patients presenting for delivery revealed that at this point in the pandemic in New York City, most of the patients who were positive for SARS-CoV-2 at delivery were asymptomatic, and more than one of eight asymptomatic patients who were admitted to the labor and delivery unit were positive for SARS-CoV-2.”

Considerations for Obstetric Care during the COVID-19 Pandemic
American Journal of Perinatology
“This review will discuss what is known about the virus as it relates to pregnancy and then consider management considerations based on these data.”

COVID19 and acute coagulopathy in pregnancy
Journal of Thrombosis and Haemostasis
Case Report: “We present a putative link between maternal COVID19 infection in the peripartum period and rapid maternal deterioration with early organ dysfunction and coagulopathy.”

Clinical Characteristics of Pregnant Women with Covid-19 in Wuhan, China
NEJM
Correspondence: “the risk of severe disease in our pregnant population (8%) compared favorably with the risk reported in the general population of patients presenting with Covid-19 across mainland China (15.7%).”

Severe COVID-19 during Pregnancy and Possible Vertical Transmission
American Journal of Perinatology
“We report a severe presentation of COVID-19 during pregnancy. To our knowledge, this is the earliest reported positive PCR in the neonate, raising the concern for vertical transmission”

Importance of inclusion of pregnant and breastfeeding women in COVID-19 therapeutic trials
Clinical Infectious Diseases
“we call attention to the need and urgency to engage pregnant women in COVID-19 treatment trials now in order to develop data-driven recommendations regarding the risks and benefits of therapies in this unique but not uncommon population.”

Why we should not stop giving aspirin to pregnant women during the COVID-19 pandemic
Ultrasound in Obstetrics & Gynecology
Letter to the editor: “To our knowledge, there is insufficient data to suggest an increased risk between prophylactic use of low-dose aspirin and progression of COVID-19 infection in pregnant women at risk of placental complications.”

Adults and Older People

Clinical Presentation of COVID-19: A Systematic Review Focusing on Upper Airway Symptoms
Ear, Nose & Throat Journal
“Common symptoms were fever (85.6%), cough (68.7%), and fatigue (39.4%). Frequent comorbidities were hypertension (17.4%), diabetes (3.8%), and coronary heart disease (3.8%); 83% of patients had alterations on chest computed tomography that were bilateral in 89.5% of cases.”

Distinct characteristics of COVID-19 patients with initial rRT-PCR positive and negative results for SARS-CoV-2
Allergy
Letter to the editor: In general, except for two aspects (surgery history and severity), no significant difference was observed in clinical manifestations, laboratory findings, and radiological changes between patients with initial positive and negative rRT-PCR results in the present study.

Delayed Initiation of Remdesivir in a COVID-19 Positive Patient
Pharmacotherapy
“Late initiation of remdesivir may be effective in treating SARS-CoV-2, unlike antivirals utilized for different disease states, such as oseltamivir, which are most effective when started as soon as possible following symptom onset.”

A framework for open tracheostomy in COVID-19 patients
Clinical Otolaryngology
Letter to the editor: “this guide is aimed at outlining the steps that can be taken by surgeons to best protect themselves and minimise aerosol generation when called on to perform open surgical tracheostomies on COVID-19 patients.”

**Rapid and Severe Covid-19 Pneumonia with Severe Acute Chest Syndrome in a Sickle Cell Patient Successfully Treated with Tocilizumab**
American Journal of Hematology
“For our patient, give the prior history of severe SCD and the potential risks, treatment with hydroxychloroquine and TCZ were initiated, with a positive resolution.”

**Computed Tomography Imaging of an HIV-infected Patient with Coronavirus Disease 2019 (COVID-19)**
Journal of Medical Virology
Letter to the editor: “the chest CT imaging findings of the case of non-severe COVID-19 pneumonia with HIV infection are mainly patchy shadows in the peripheral lung, involving the interlobar fissure, which are different from the common chest CT findings of COVID-19.”

**SARS-CoV-2 infection in a psoriatic patient treated with IL-23 inhibitor**
Journal of the European Academy of Dermatology and Venereology
Letter to the editor: we reported the first case of COVID-19 infection in a psoriatic patient treated with a biologic. The outcome of this case and data from currently available literature suggest that IL-23/IL-17 axis inhibition might not be detrimental in the setting of COVID-19 infection.

**The impact of COPD and smoking history on the severity of Covid-19: A systemic review and meta-analysis**
Journal of Medical Virology
“COPD and ongoing smoking history attribute to the worse progression and outcome of Covid-19.”

**The Impact of COVID-19 on Bariatric Surgery: Re-Defining Psychosocial Care**
Obesity Perspective: “Due to this pandemic, the rapid integration of virtual psychosocial care in bariatric surgery programs to address patients’ needs will create new opportunities for clinical and implementation science research.”

**Management of the Difficult Airway in the COVID-19 Pandemic: An Illustrative Complex Head and Neck Case Scenario**
Head & Neck
“Careful planning by a multidisciplinary team allowed for appropriate staffing and personal protective equipment, preparations for emergency airway management, evaluation via nasopharyngolaryngoscopy, and COVID testing”

**Smell dysfunction: a biomarker for COVID-19**
Allergy & Rhinology
“the present study provides a quantitative assessment of the olfactory function of a cohort of patients with COVID-19. Its findings strongly suggest that some degree of loss of smell function is present in nearly all COVID-19 patients near the end of their acute recovery period.”

**High-flow nasal cannula for COVID-19 patients: low risk of bio-aerosol dispersion**
European Respiratory Journal
“There appears to be an uncertainty and a trend to avoid HFNC among COVID-19 patients in the western world, thus increasing early intubation rates and potentially associated harms such as..."
sedation and prolonged intensive care unit stay but also intubation procedures per se which represent a high risk situation for viral exposure.”

A diagnostic model for coronavirus disease 2019 (COVID-19) based on radiological semantic and clinical features: a multi-center study
Chest
“Based on CT imaging and clinical manifestations alone, the pneumonia patients with and without COVID-19 can be distinguished.”

Digital triage for people with multiple sclerosis in the age of COVID-19 pandemic
Neurological Sciences
“We developed a digital triage tool to be sent to patients to quickly identify people with high risk of COVID-19 infection.”

Miller Fisher Syndrome and polyneuritis cranialis in COVID-19
Neurology
“Neurological manifestations may occur because of an aberrant immune response to COVID-19.”

Treating hypoxemic patients with SARS-COV-2 pneumonia: Back to applied physiology
Anaesthesia Critical Care & Pain Medicine
Hypercoagulability of COVID-19 patients in Intensive Care Unit. A Report of Thromboelastography Findings and other Parameters of Hemostasis
Journal of Thrombosis and Haemostasis
“The results of this cohort of patients with Covid-19 are not consistent with acute DIC, rather they support hypercoagulability together with a severe inflammatory state.”

COVID-19 in older adults: clinical, psychosocial, and public health considerations
JCI Insight
“Complications of COVID-19 have been particularly severe among older adults, who are the focus of this article”

Summary of 20 tracheal intubation by anesthesiologists for patients with severe COVID-19 pneumonia: retrospective case series
Journal of Anesthesia
“We had successfully intubated all patients using personal protective equipment without circulatory collapse during tracheal intubation. During the observational period, none of 17 anesthesiologists were infected.”

Pathology et al
SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor
Cell
“we demonstrate that SARS-CoV-2 uses the SARS-CoV receptor ACE2 for entry and the serine protease TMPRSS2 for S protein priming. A TMPRSS2 inhibitor approved for clinical use blocked entry and might constitute a treatment option.”

Cytokine storm and immunomodulatory therapy in COVID-19: role of chloroquine and anti-IL-6 monoclonal antibodies
International Journal of Antimicrobial Agents
“Overall, certain immunomodulatory agents with good safety profiles may be considered for use in combination with antiviral drugs for the treatment of severe or critical cases of COVID-19.”

A systematic review of the prophylactic role of chloroquine and hydroxychloroquine in Coronavirus Disease-19 (COVID-19)
International Journal of Rheumatic Diseases
“Although pre-clinical results are promising, till date, there is dearth of evidence to support the efficacy of CQ or HCQ in preventing COVID-19.”

Hydroxychloroquine and covid-19
Postgraduate Medical Journal
“The purpose of this article is to review the history and mechanism of actions of these drugs and the potential use they can have on the current covid-19 pandemic.”

Optimizing hydroxychloroquine dosing for patients with COVID-19: An integrative modeling approach for effective drug repurposing
Clinical Pharmacology and Therapeutics
“Our goal was to integrate historic and emerging pharmacological and toxicity data to understand safe and efficacious HCQ dosing strategies for COVID-19 treatment.”

Virological and Clinical Cure in Covid-19 Patients Treated with Hydroxychloroquine: A Systematic Review and Meta-Analysis
Journal of Medical Virology
“HCQ seems to be promising in terms of less number of cases with radiological progression with a comparable safety profile to control/conventional treatment.”

COVID-19: Recommended sampling sites at different stage of the disease
Journal of Medical Virology
Commentary: Special attention should be paid to the symptoms or nucleic acid retest results during the subsequent rehabilitation or 14-day intensive isolation period for such patients

C-reactive protein correlates with CT findings and predicts severe COVID-19 early
Journal of Medical Virology
“CRP in severe COVID-19 patients increased significantly at the initial stage, prior to CT findings. Importantly, CRP, which was associated with disease development, predicted early severe COVID-19.”

SARS-CoV-2 receptor ACE2 and TMPRSS2 are primarily expressed in bronchial transient secretory cells
The EMBO Journal
“Here, we investigate ACE2 and TMPRSS2 expression levels and their distribution across cell types in lung tissue (twelve donors, 39,778 cells) and in cells derived from subsegmental bronchial branches (four donors, 17,521 cells) by single nuclei and single cell RNA sequencing, respectively.”

SARS-CoV-2, an evolutionary perspective of interaction with human ACE2 reveals undiscovered amino acids necessary for complex stability
Evolutionary Applications
“Modeling results indicate that interfering with the salt bridges at hot spot 353 could be an effective strategy for inhibiting binding, and hence for the prevention of SARS-CoV-2 infections.”

Coinfection with COVID-19 and Coronavirus HKU1 – the critical need for repeat testing if clinically indicated
Journal of Medical Virology
Letter to the editor: “Clinicians need to be aware of co-infections among HCoVs. A high degree of suspicion in this rapidly evolving outbreak is required in order to make the diagnosis.”

SARS-CoV-2 Viral Load in Clinical Samples of Critically Ill Patients
American Journal of Respiratory and Critical Care Medicine
“Here, we investigate the viral load in specimens from multiple sites and the duration of viral shedding in respiratory tract samples from laboratory confirmed critically ill patients with COVID-19 requiring ICU admission”

Changes in Blood Coagulation in Patients with Severe Coronavirus Disease 2019 (COVID-19): a Meta-Analysis
British Journal of Haematology
Letter: “we conducted this quantitative meta-analysis to explore the difference in blood coagulation parameters between severe and mild cases of COVID-19.”

The BTK-inhibitor ibrutinib may protect against pulmonary injury in COVID-19 infected patients
Blood
Letter to the editor: “Ibrutinib and possibly other BTK-inhibitors may therefore provide protection against lung injury, and even improve pulmonary function in hypoxic patients with COVID-19 as we observed in this series of WM patients on ibrutinib”

Mechanism of thrombocytopenia in COVID-19 patients
Annals of Hematology
“We propose several mechanisms by which coronavirus disease 2019 causes thrombocytopenia to better understand this disease and provide more clinical treatment options.”

The procoagulant pattern of patients with COVID-19 acute respiratory distress syndrome
Journal of Thrombosis and Haemostasis
“The pro-coagulant pattern of these patients may justify the clinical reports of thromboembolic complications (pulmonary embolism) during the course of the disease.”

Impact of the COVID-19 pandemic on therapeutic choices in Thrombosis-Hemostasis
Journal of Thrombosis and Haemostasis
Letter to the editor: “For DOACS, the administration of a fixed dose, the absence of monitoring, the limited number of drug interferences, the monotherapy without prior treatment with heparins for patients with acute venous thromboembolic disease and the absence of bridging with heparin during invasive procedures are all major advantages.”

Hematological findings and complications of COVID-19
American Journal of Hematology
“blood hypercoagulability is common among hospitalized COVID-19 patients.”

Abnormal coagulation parameters are associated with poor prognosis in patients with novel coronavirus pneumonia
Journal of Thrombosis and Haemostasis
Letter to the editor: “In summary, patients with severe Covid 19 are at greater risk of DIC which may be further complicated by the effects of the ECMO circuit and the combination may increase thrombo-haemorrhagic morbidity.

Thrombocytopenia and Its Association with Mortality in Patients with COVID-19
Journal of Thrombosis and Haemostasis
“Thrombocytopenia is common in patients with COVID-19, and it is associated with increased risk of in-hospital mortality.”

Venous thromboembolism in COVID-19 patients
Journal of Thrombosis and Haemostasis
Letter to the editor: “In this retrospective analysis, conducted at the Tongji Hospital of Wuhan, China, it is reported that heparin treatment reduces mortality in subjects affected by severe COVID-19 who have “sepsis-induced coagulopathy”.

Pathological evidence of pulmonary thrombotic phenomena in severe COVID-19
Journal of Thrombosis and Haemostasis
Letter to the editor: “ARS-Cov-2 induces in severe cases a cytokine storm that ultimately leads to the activation of the coagulation cascade, causing thrombotic phenomena (5). There is a further strong link between abnormal coagulation parameters (D-dimer and fibrin degradation products) and mortality.”

Relationships among Lymphocyte Subsets, Cytokines, and the Pulmonary Inflammation Index in Coronavirus (COVID-19) Infected Patients
British Journal of Haematology
“We explored the relationships between lymphocyte subsets, cytokines, pulmonary inflammation index (PPI), and disease evolution in patients with COVID-19.”

Reactive lymphocytes in patients with Covid-19
British Journal of Haematology
“We examined the peripheral blood films of 32 patients and found reactive lymphocytes as shown in the top images in 23 cases (72%).""
“Here we describe a detailed protocol for expression of antigens derived from the spike protein of SARS-CoV-2 that can serve as a substrate for immunological assays, as well as a two-stage serological enzyme-linked immunosorbent assay (ELISA).”

**On the alert for cytokine storm: Immunopathology in COVID-19**

*Arthritis & Rheumatology*

“In COVID-19 patients with evidence for cytokine storm, treatment with glucocorticoids, IVIG, and/or anti-cytokine therapies should be considered with the aim of reverting hyperinflammation before ARDS occurs”

**A Study of Nonstructural Protein 1 of SARS Coronavirus**

*The FASEB Journal*

Our preliminary explorations show significant topological changes on nsp1’s surface for specific mutations.

**Comparison of throat swabs and sputum specimens for viral nucleic acid detection in 52 cases of novel coronavirus (SARS-Cov-2)-infected pneumonia (COVID-19)**

*Clinical Chemistry and Laboratory Medicine*

“the detection rates of 2019-nCoV from sputum specimens are significantly higher than those from throat swabs using the RT-PCR assay.”

**Pharmacologic Treatments for Coronavirus Disease 2019 (COVID-19)**

*JAMA*

“No therapies have been shown effective to date.”

**Cytokine release syndrome in severe COVID-19**

*Science*

“the expert consensus from infectious disease authorities and the WHO is to avoid systemic corticosteroids in COVID-19 patients at present. A theoretical possibility is that the suppression of inflammation by IL-6 antagonism might delay viral clearance.”

**Prognostic value of NT-proBNP in patients with severe COVID-19**

*Respiratory Research*

“NT-proBNP might be an independent risk factor for in-hospital death in patients with severe COVID-19.”

**Mesenchymal Stem Cell Therapy for COVID-19: Present or Future**

*Stem Cell Reviews and Reports*

“In this study, we considered this new approach to improve patient’s immunological responses to COVID-19 using MSCs and discussed the aspects of this proposed treatment.”

**Potential for developing a SARS-CoV receptor-binding domain (RBD) recombinant protein as a heterologous human vaccine against coronavirus infectious disease (COVID)-19**

*Human Vaccines & Immunotherapeutics*

Commentary: “Our findings include evidence that convalescent serum from SARS-CoV patients can neutralize SARS-CoV-2.”

**COVID-19 pneumonia: ARDS or not?**

*Critical Care*

Editorial “Even though it can meet the ARDS Berlin definition [1, 2], the COVID-19 pneumonia is a specific disease with peculiar phenotypes.”
Testing for SARS-CoV-2: Can We Stop at Two?
Clinical Infectious Diseases
“This report describes the effectiveness of our testing strategy and highlights the importance of repeat testing in suspect cases in our cohort.”

Antibody Detection and Dynamic Characteristics in Patients with COVID-19
Clinical Infectious Diseases
“The antibodies against SARS-CoV-2 can be detected in the middle and later stage of the illness.”

Rates of Co-infection Between SARS-CoV-2 and Other Respiratory Pathogens
JAMA
Research Letter: “We studied 1217 specimens tested for SARS-CoV-2 and other respiratory pathogens, from 1206 unique patients; 116 of the 1217 specimens (9.5%) were positive for SARS-CoV-2 and 318 (26.1%) were positive for 1 or more non–SARS-CoV-2 pathogens”

Positive RT-PCR tests among discharged COVID-19 patients in Shenzhen, China
Infection Control & Hospital Epidemiology
“The time between discharge and positive RT-PCR tests is 4.7 days on average. These numbers shed light on the viral dynamics of COVID-19.”

Real-time RT-PCR in COVID-19 detection: issues affecting the results
Expert Review of Molecular Diagnostics

Computational studies of drug repurposing and synergism of lopinavir, oseltamivir and ritonavir binding with SARS-CoV-2 protease against COVID-19
Journal of Biomolecular Structure and Dynamics
“Our analysis through computational methods revealed that the binding energy of the combination of drugs against the protein is stronger than that of each drug docked against the protein individually”

Pathogenesis of COVID-19 from a cell biology perspective
European Respiratory Journal
“Based on the cells that are likely infected, COVID-19 can be divided into three phases that correspond to different clinical stages of the disease”

Community et al
Novel coronavirus (COVID-19) standard operating procedure: Community health services
NHS England
Guidance – 15 April

COVID-19 in the community
British Journal of Community Nursing
Editorial

Teledermatology in the Era of COVID-19: Experience of an Academic Department of Dermatology
Journal of the American Academy of Dermatology
Correspondence: “Every patient with an existing appointment was called using a call-script and offered a 45 live interactive telemedicine visit. Established patients who were unable or unwilling to 46 perform a video visit were offered the option of a telephone visit.”

**Can post-exposure prophylaxis for COVID-19 be considered as one of outbreak response strategies in long-term care hospitals?**

*International Journal of Antimicrobial Agents*

Letter to the editor: “After a large COVID-19 exposure event in a LTCH in Korea, PEP using hydroxychloroquine (HQC) was conducted to 211 persons including 189 patients and 22 careworkers, whose baseline polymerase chain reaction (PCR) tests for COVID-19 were negative.”

**Keep Socially (but Not Physically) Connected and Carry on: Preventing Suicide in the Age of COVID-19**

*The Journal of Clinical Psychiatry*

“Our hope is that as people stay confined, they can stay connected to their loved ones (via phone call), to social networks, to their psychiatrists, and to culture”

**Coronavirus anxiety scale: A brief mental health screener for COVID-19 related anxiety**

*Death Studies*

US study: “The objective of this study was to develop and evaluate the properties of the Coronavirus Anxiety Scale (CAS), which is a brief mental health screener to identify probable cases of dysfunctional anxiety associated with the COVID-19 crisis.”

**Covid-19 (Coronavirus): Challenges for Psychiatry**

*The British Journal of Psychiatry*

“Regrettably, there is already evidence that, in China at least, psychological and psychiatric care have been neglected in the context of Covid-19.”

**Impact of COVID-19 on Physical Therapist Practice in Portugal**

*Physical Therapy*

“Physical therapist interventions remain fundamental for the health of our communities and should not be avoided as a general rule”

**The Essential Role of Home- and Community-Based Physical Therapists During the COVID-19 Pandemic**

*Physical Therapy*

Point of View: “we encourage all home- and community-based therapists to fight to be recognized as essential health care providers across all care settings during the COVID-19 pandemic”

**Italian Physical Therapists’ Response to the Novel COVID-19 Emergency**

*Physical Therapy*

“This commentary seeks to share some key insights relevant to optimize the physical therapy reaction in response to Covid-19 infection although the quality and availability of data is today a challenge”

**Telemedicine and support groups in order to improve the adherence to treatment and health related quality of life in patients affected by inflammatory skin conditions during COVID-19 emergency**

*Clinical and Experimental Dermatology*

Correspondence
Novel Coronavirus Disease (COVID-19) and Biologic Therapy in Psoriasis: Infection Risk and Patient Counseling in Uncertain Times
Dermatology and Therapy
Commentary: “There is no evidence to recommend prophylactically stopping or postponing biologic therapy in all patients with psoriasis”

Meeting the Care Needs of Older Adults Isolated at Home During the COVID-19 Pandemic
JAMA Internal Medicine
Viewpoint: “Although older adults living in the community are highly susceptible to death from COVID-19, their non–COVID-19 care should not be forgotten.”

General

Multidisciplinary research priorities for the COVID-19 pandemic: a call for action for mental health science
The Lancet Psychiatry
Position paper: “We explore the psychological, social, and neuroscientific effects of COVID-19 and set out the immediate priorities and longer-term strategies for mental health science research.”

COVID-19 and neuromuscular disorders
Neurology
“This paper reviews 1) potential NM complications of COVID-19, 2) assessment and mitigation of COVID-19-related risk for patients with pre-existing NM disease, 3) guidance for management of immunosuppressive and immunomodulatory therapies, 4) practical guidance regarding NM care delivery, telemedicine and education, and 5) impact on neuromuscular research.”

Well-aerated Lung on Admitting Chest CT to Predict Adverse Outcome in COVID-19 Pneumonia
Radiology
“In patients with confirmed COVID-19 pneumonia, visual or software quantification the extent of CT lung abnormality were predictors of ICU admission or death.”

Chest CT and Coronavirus Disease (COVID-19): A Critical Review of the Literature to Date
America Journal of Roenterology
“At present, CT should be reserved for evaluation of complications of COVID-19 pneumonia or for assessment if alternative diagnoses are suspected.”

SARS-CoV-2 Vaccines: Status Report
Immunity

The Baffling Case of Ischemic Stroke Disappearance from the Casualty Department in the COVID-19 Era
European Neurology
Editorial
Extracorporeal membrane oxygenation therapy in the COVID-19 pandemic
Future Medicine
“we aim to review ECMO as a mechanical support option in COVID-19 patients with critical disease.”

The duration of viral shedding of discharged patients with severe COVID-19
Clinical Infectious Diseases
“It is advisable to continue follow-up discharged patients even after discontinuing quarantine for further viral shedding information.”

The application of strong matrix management and PDCA cycle in the management of severe COVID-19 patients
Critical Care
Editorial

Managing New-Onset Type 1 Diabetes During the COVID-19 Pandemic: Challenges and Opportunities
Diabetes Technology & Therapeutics
“The present case reports illustrate how telemedicine can be used safely and effectively for new-onset T1D training and education for both pediatric and adult patients and their families.”

The impact of coronavirus infectious disease 19 (COVID-19) on oral health
Oral Diseases
“the overall impact of COVID-19 on oral health seems to be multi-directional, immune-related and most probably indirect, acting through various routes, reflecting the pathological nature of coronavirus respiratory track invasion via mucous membranes”

Surge capacity of intensive care units in case of acute increase in demand caused by COVID-19 in Australia
The Medical Journal of Australia
“The directors of Australian ICUs report that intensive care bed capacity could be near tripled in response to the expected increase in demand caused by COVID-19.”

Thoracic ultrasound and SARS-COVID-19: a pictorial essay
Journal of Ultrasound
“In conclusion, thoracic ultrasound can be used as a screening method for lung involvement in any care setting, even at the patient's home.”

Innovative screening tests for COVID-19 in South Korea
Clinical and Experimental Emergency Medicine
“This commentary introduces innovative screening tests that are currently used in South Korea for COVID-19, e.g., Drive-Through and Walk-Through tests, and compare the advantages and disadvantages of both methods.”
17 APR 2020
2,074,529 confirmed cases of coronavirus disease 2019 (COVID-19) including 139,378 deaths worldwide reported by World Health Organization (WHO) as of April 17, 2020 (WHO Situation Report 2020 Apr 17)
View in topic

17 APR 2020
SARS-CoV-2 Fluorescent PCR Kit to detect RNA from SARS-CoV-2 in upper respiratory specimens (such as oropharyngeal swabs, nasopharyngeal swabs, nasal swabs, mid-turbinate swabs) from individuals suspected of having COVID-19 (FDA emergency use authorization 2020 Apr 15; FDA fact sheet for healthcare providers 2020 Apr 15)
View in topic

17 APR 2020
0.8% of general population in Iceland SARS-CoV-2 positive between March 13 and April 4, 2020 (N Engl J Med 2020 Apr 14 early online)
View in topic

16 APR 2020
FDA issues Emergency Use Authorization permitting emergency usage of B. Braun Space and Outlook Pumps for tracheal delivery of continuously nebulized medications into a nebulizer in patients suspected of having COVID-19 infection to decrease exposure of healthcare providers to such patients (FDA emergency use authorization 2020 Apr 11)
View in topic

16 APR 2020
in addition to multiple other interventions, IVIG within 48 hours of ICU admission associated with reduced mortality in patients with severe or critical COVID-19 compared to IVIG started later than 48 hours (J Infect 2020 Apr 10 early online)
View in topic

16 APR 2020
arbidol monotherapy associated with shorter duration of viral RNA positivity compared to lopinavir/ritonavir in patients with COVID-19 (J Infect 2020 Apr 10 early online)
View in topic

15 APR 2020
duration of subsequent interventions to control SARS-CoV-2 transmission after relaxation of public health interventions reported to have to be of longer duration than relaxation period unless Rt maintained below 1.5 during relaxation period and could be lowered to < 0.5 during subsequent intervention (Lancet 2020 Apr 8 early online)
View in topic

15 APR 2020
multicomponent public health interventions reported to mitigate transmission of COVID-19 in Wuhan, China (JAMA 2020 Apr 10 early online)
View in topic

15 APR 2020
FDA issues Emergency Use Authorization permitting emergency usage of Advanced Sterilization Products (ASP) STERRAD sterilization systems for use in decontamination of compatible N95 or N95-equivalent respirators in hospital setting, enabling reuse by clinicians (FDA emergency use authorization 2020 Apr 11)

15 APR 2020
convalescent plasma transfusion reported to resolve SARS-CoV-2 infection in critically ill patients (Chest 2020 Mar 31 early online)

15 APR 2020
remdesivir reported to have clinical improvement rate of 68% in adults hospitalized with severe COVID-19 (N Engl J Med 2020 Apr 10 early online)

15 APR 2020
olfactory and gustatory dysfunction reported in most adults with mild-to-moderate COVID-19 infection in Europe who were assessed for these symptoms (Eur Arch Otorhinolaryngol 2020 Apr 6 early online)

15 APR 2020
neurologic manifestations present in about one-third of patients with COVID-19 (JAMA Neurol 2020 Apr 10 early online)

14 APR 2020
FDA issues Emergency Use Authorization permitting emergency usage of STERIS Sterilization Systems for use in decontamination of compatible N95 or N95-equivalent respirators in hospital setting, enabling reuse by clinicians (FDA press release 2020 Apr 10)

13 APR 2020
wide spectrum of clinical features reported in children and adolescents with confirmed SARS-CoV2 infection in United States (MMWR Morb Mortal Wkly Rep 2020 Apr 10)

Useful Links

BMJ – latest news and resources for COVID-19
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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