

SOMMAIRE

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ARTICLES PUBLIES OU IN PRESS (71)

COVID-19: gastrointestinal symptoms and potential sources of 2019-nCoV transmission

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Characterization of the receptor-binding domain (RBD) of 2019 novel coronavirus: implication for development of RBD protein as a viral attachment inhibitor and vaccine

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Systematic review of COVID-19 in children show milder cases and a better prognosis than adults

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

SARS-CoV-2: fear versus data

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Spike protein recognition of mammalian ACE2 predicts the host range and an optimized ACE2 for SARS-CoV-2 infection

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Protein Structure and Sequence Reanalysis of 2019-nCoV Genome Refutes Snakes as Its Intermediate Host and the Unique Similarity between Its Spike Protein Insertions and HIV-1

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

A review of the 2019 Novel Coronavirus (COVID-19) based on current evidence

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Lopinavir/ritonavir combination therapy amongst symptomatic coronavirus disease 2019 patients in India: Protocol for restricted public health emergency use

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Global coronavirus pandemic (2019-nCoV): Implication for an Italian medium size dermatological clinic of a ii level hospital

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Rising to the Challenge of the Novel SARS-coronavirus-2 (SARS-CoV-2): Advice for Pulmonary and Critical Care and an Agenda for Research

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Should COVID-19 Concern Nephrologists? Why and to What Extent? The Emerging Impasse of Angiotensin Blockade

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Recommendations by the SEPD and AEG, both in general and on the operation of gastrointestinal endoscopy and gastroenterology units, concerning the current SARS-CoV-2 pandemic (March, 18)

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Alzheimer's Disease Research Enterprise in the Era of COVID-19/SARS-CoV-2

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)
[Lien original](#)

Drug targets for corona virus: A systematic review

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Coronavirus Disease 2019 (COVID-19) and Cardiovascular Disease

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

COVID-19, cytokines and immunosuppression: what can we learn from severe acute respiratory syndrome?

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Transmission electron microscopy imaging of SARS-CoV-2

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Lack of SARS-CoV-2 RNA environmental contamination in a tertiary referral hospital for infectious diseases in Northern Italy

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

COVID-19 R0: Magic number or conundrum?

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Time Kinetics of Viral Clearance and Resolution of Symptoms in Novel Coronavirus Infection

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Lung Recruitability in SARS-CoV-2 Associated Acute Respiratory Distress Syndrome: A Single-center, Observational Study

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Cardiovascular Considerations for Patients, Health Care Workers, and Health Systems During the Coronavirus Disease 2019 (COVID-19) Pandemic

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Comprehensive analysis for diagnosis of novel coronavirus disease (COVID-19) infection

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Prudent public health intervention strategies to control the coronavirus disease 2019 transmission in India: A mathematical model-based approach

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

An Imperative Need for Research on the Role of Environmental Factors in Transmission of Novel Coronavirus (COVID-19)

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Urology practice during COVID-19 pandemic. Minerva Urol Nefrol

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Dermatology staff participate in fight against Covid-19 in China

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Nursing and the Novel Coronavirus: Risks and Responsibilities in a Global Outbreak

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Coronavirus disease 2019: the harms of exaggerated information and non-evidence-based measures

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Guidance for building a dedicated health facility to contain the spread of the 2019 novel coronavirus outbreak

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Policies on the use of respiratory protection for hospital health workers to protect from coronavirus disease (COVID-19)

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Factors Associated With Mental Health Outcomes Among Health Care Workers Exposed to Coronavirus Disease 2019

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Hand hygiene and the novel coronavirus pandemic: The role of healthcare workers

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Planning and provision of ECMO services for severe ARDS during the COVID-19 pandemic and other outbreaks of emerging infectious diseases

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

A COVID-19 Transmission within a family cluster by presymptomatic infectors in China

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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COVID-19: A Global Transplant Perspective on Successfully Navigating a Pandemic

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

High-flow nasal-oxygenation-assisted fiberoptic tracheal intubation in critically ill patients with COVID-19 pneumonia: a prospective randomised controlled trial

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Changing the editorial process at JCI and JCI Insight in response to the COVID-19 pandemic

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Insights from nanomedicine into chloroquine efficacy against COVID-19

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Managing COVID-19 in the oncology clinic and avoiding the distraction effect

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Questions raised by COVID-19 case descriptions

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

COVID-19: Impact on health of people & wealth of nations

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Ventilatory Ratio in Hypercapnic Mechanically Ventilated Patients with COVID-19 Associated ARDS

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Treatment for severe acute respiratory distress syndrome from COVID-19

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Functional exhaustion of antiviral lymphocytes in COVID-19 patients

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Mimics and chameleons of COVID-19

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Risk of COVID-19 importation to the Pacific islands through global air travel

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Contact lens practice in the time of COVID-19

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

The impact of COVID-19 on the provision of donor hematopoietic stem cell products worldwide: collateral damage

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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COVID-19 outbreak: less stethoscope, more ultrasound

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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COVID-19 and the liver: little cause for concern

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Covid-19: Protecting Worker Health

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Elevated exhaustion levels and reduced functional diversity of T cells in peripheral blood may predict severe progression in COVID-19 patients

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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The Role of Telehealth in Reducing the Mental Health Burden from COVID-19

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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The evolution of CT characteristics in the patients with COVID-19 pneumonia

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Rational use of face masks in the COVID-19 pandemic

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Can a Paper-Based Device Trace COVID-19 Sources with Wastewater-Based Epidemiology?

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

COVID-19 and the crisis of national development

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Therapies used in rheumatology with relevance to coronavirus disease 2019

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Ethics preparedness for infectious disease outbreaks research in India: A case for novel coronavirus disease 2019

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Exercising Heart and Head in Managing Coronavirus Disease 2019 in Wuhan

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

The novel coronavirus (COVID-2019) outbreak: Amplification of public health consequences by media exposure

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Therapeutic options for the treatment of 2019-novel coronavirus: An evidence-based approach

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Need for integrated surveillance at human-animal interface for rapid detection & response to emerging coronavirus infections using One Health approach

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Novel coronavirus pneumonia

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Three children who recovered from novel coronavirus 2019 pneumonia

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Management of pregnant women infected with COVID-19

www.thelancet.com (e-date: 25/03/2020)

[Lien original](#)

Treating COVID-19—Off-Label Drug Use, Compassionate Use, and Randomized Clinical Trials During Pandemics

The world is now facing a pandemic of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2, the cause of COVID-19), for which no proven specific therapies are available, other than supportive care. In China, and now Italy, France, and Spain, a large

Although many drugs have in vitro activity against different coronaviruses, no clinical evidence currently supports the efficacy and safety of any drug against any coronavirus in humans, including SARS-CoV-2. Numerous drugs that have been highly promising in vitro for other infectious diseases have failed in clinical studies. If in vitro activity automatically translated into

jamanetwork.com (e-date: 24/03/2020)

[Lien original](#)

Early Release - Identifying Locations with Possible Undetected Imported Severe Acute Respiratory Syndrome Coronavirus 2 Cases by Using Importation Predictions

Identifying Locations with Possible Undetected Imported Severe Acute Respiratory Syndrome Coronavirus 2 Cases by Using Importation Predictions

A novel coronavirus, later named severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), was identified in December 2019 in the city of Wuhan, capital of Hubei Province, China, where cases were first confirmed (1). During

wwwnc.cdc.gov (e-date: 24/03/2020)

[Lien original](#)

Early Release - Public Mental Health Crisis during COVID-19 Pandemic, China

Public Mental Health Crisis during COVID-19 Pandemic, China

China was the first country affected by the pandemic of 2019 novel coronavirus disease (COVID-19), caused by severe acute respiratory syndrome coronavirus 2. Several unique characteristics of China's COVID-19 epidemic patterns and its management policy prompted a heightened public mental

wwwnc.cdc.gov (e-date: 24/03/2020)

[Lien original](#)

COVID-19 and Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers: What Is the Evidence?

COVID-19 and Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers : What Is the Evidence?

Coronavirus disease 2019 (COVID-19) is a current pandemic infection caused by a positive-sense RNA virus named the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The particularly infectious capacity of the virus

jamanetwork.com (e-date: 24/03/2020)

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BLOGS NEWS (28)

Can we improve the NHS's ability to tackle covid-19 through emergency public health interventions? - The BMJ

blogs.bmj.com (e-date: 25/03/2020)

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Lesley Henderson: Covid-19—we are yet to witness a cohesive government communications strategy - The BMJ

blogs.bmj.com (e-date: 25/03/2020)

[Lien original](#)

Covid-19: US testing ramps up as early response draws harsh criticism

www.bmj.com (e-date: 25/03/2020)

[Lien original](#)

New York is centre of US epidemic as Trump pitches in to help

www.bmj.com (e-date: 25/03/2020)

[Lien original](#)

Clinical trials suspended in UK to prioritise covid-19 studies and free up staff

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Sixty seconds on . . . anosmia

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: UK lockdown is “crucial” to saving lives, say doctors and scientists

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: medical students should not work outside their competency, says BMA

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: doctors in final trimester of pregnancy should avoid direct patient contact

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: identifying and isolating asymptomatic people helped eliminate virus in Italian village

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: six million doses of hydroxychloroquine donated to US despite lack of evidence

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: European drugs agency to review safety of ibuprofen

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: most patients require mechanical ventilation in first 24 hours of critical care

www.bmj.com (e-date: 25/03/2020)
[Lien original](#)

Covid-19: trials of four potential treatments to generate “robust data” of

what works

www.bmj.com (e-date: 25/03/2020)

[Lien original](#)

New York notes dizzying COVID-19 numbers as Trump mulls lifting restrictions soon

www.cidrap.umn.edu (e-date: 25/03/2020)

[Lien original](#)

Covid-19: doctors are given new guidelines on when to admit patients to critical care

www.bmj.com (e-date: 25/03/2020)

[Lien original](#)

Covid-19: Highest risk patients are asked to stay at home for 12 weeks

www.bmj.com (e-date: 25/03/2020)

[Lien original](#)

World COVID-19 total surges past 400,000; more nations lock down

www.cidrap.umn.edu (e-date: 25/03/2020)

[Lien original](#)

The coronavirus pandemic in five powerful charts

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Coronavirus vaccines: five key questions as trials begin

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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What China's coronavirus response can teach the rest of the world

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Fast, portable tests come online to curb coronavirus pandemic

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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How much is coronavirus spreading under the radar?

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Covert coronavirus infections could be seeding new outbreaks

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Scientists exposed to coronavirus wonder: why weren't we notified?

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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South Korea is reporting intimate details of COVID-19 cases: has it helped?

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

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Covid-19 mass testing facilities could end the epidemic rapidly

www.ncbi.nlm.nih.gov (e-date: 25/03/2020)

[Lien original](#)

Le Diamond Princess au centre de Paris ? On n'isole pas les personnes en les réunissant !

Revue politique et parlementaire (e-date: 25/03/2020)

[Lien original](#)

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DOCUMENTS GOUVERNEMENTAUX (20)

Avis relatif à la prise en charge du corps d'un patient cas probable ou confirmé COVID-19

Du fait de l'évolution des connaissances, de l'épidémie et du nombre de décès, le HCSP remplace son avis du 18 février 2020 et modifie ses préconisations pour la prise en charge des patients décédés du COVID-19, notamment la non-justification la mise en bière immédiate et la présentation du corps la famille.

www.hcsp.fr (e-date: 25/03/2020)

[Lien original](#)

Avis relatif aux recommandations thérapeutiques dans la prise en charge du COVID-19 (complémentaire à l'avis du 5 mars 2020)

Afin de compléter son avis du 5 mars 2020 relatif la prise en charge des cas confirmés de COVID-19, compte tenu de la publication de nouvelles données, le Haut Conseil de la santé publique émet de nouvelles recommandations. Elles ont été élaborées en concertation avec de nombreuses sociétés

www.hcsp.fr (e-date: 25/03/2020)

[Lien original](#)

Recommandation professionnelle multi-disciplinaire opérationnelle (RPMO). Aspects éthiques et stratégiques de l'accès aux soins de réanimation et autres soins critiques (SC) en contexte de pandémie COVID-19

CORED (e-date: 25/03/2020)

[Lien original](#)

COVID-19 et Amantadine / rimantadine

INESSS (e-date: 25/03/2020)

[Lien original](#)

COVID-19 et interférons

INESSS (e-date: 25/03/2020)

[Lien original](#)

COVID-19 et LOPINAVIR / RITONAVIR (KALETRA MC)

INESSS (e-date: 25/03/2020)

[Lien original](#)

COVID-19 et oseltamivir (Tamiflu MC)

INESSS (e-date: 25/03/2020)

[Lien original](#)

COVID-19 et Remdésivir

INESSS (e-date: 25/03/2020)

[Lien original](#)

COVID-19 et Tocilizumab (Actemra MC)

INESSS (e-date: 25/03/2020)

[Lien original](#)

Coronavirus (COVID-19) Update: Daily Roundup, March 24, 2020

Coronavirus (COVID-19) Update: Daily Roundup, March 24, 2020

The U.S. Food and Drug Administration today announced the following actions taken in its ongoing response effort to the COVID-19 pandemic:

www.fda.gov (e-date: 25/03/2020)

[Lien original](#)

Coronavirus (COVID-19) Update: FDA takes action to increase U.S. supplies through instructions for PPE and device manufacturers

Coronavirus (COVID-19) Update: FDA takes action to increase U.S. supplies through instructions for PPE and device manufacturers

Today, the U.S. Food and Drug Administration took action to increase U.S. supplies to support the U.S. response to COVID-19 by providing instructions to manufacturers importing personal protective equipment and other devices.

www.fda.gov (e-date: 25/03/2020)

[Lien original](#)

Communiqué de l'Académie : « Animaux de compagnie et Covid-19 »

Publié le 24 mars 2020

Communiqué de l'Académie : " àAnimaux de compagnie et Covid-19 " à "

Télécharger le communiqué (PDF)

www.academie-medecine.fr (e-date: 24/03/2020)

[Lien original](#)

COVID-19: guidance for domestic abuse safe accommodation provision

COVID-19: guidance for domestic abuse safe accommodation provision

COVID-19: guidance on isolation for domestic abuse safe-accommodation settings

www.gov.uk (e-date: 24/03/2020)

[Lien original](#)

Guidance for first responders and others in close contact with symptomatic people with potential COVID-19 [mis à jour le 24/03/2020]

COVID-19: guidance for first responders

Advice for first responders (as defined by the Civil Contingencies Act) and others who may have close contact with symptomatic people who may have COVID-19.

www.gov.uk (e-date: 24/03/2020)

[Lien original](#)

Coronavirus et Covid-19 : Du simple rhume au syndrome respiratoire aigu sévère [mis à jour le 24/03/2020]

SARS-CoV2 / Covid-19, épidémie en cours La recherche mobilisée

Alors que l'épidémie de coronavirus SARS-CoV2 continue de se propager, l'Alliance pour les sciences de la vie et de la santé (Aviesan) se mobilise pour accélérer la recherche sur le virus et sur la maladie Covid-19, via l'action du

www.inserm.fr (e-date: 24/03/2020)

[Lien original](#)

Rapport présenté au nom de la commission des finances sur le projet de loi de finances rectificative, adopté par l'Assemblée nationale, pour 2020

www.senat.fr (e-date: 24/03/2020)

[Lien original](#)

Avis présenté au nom de la commission des affaires sociales sur le projet de loi (procédure accélérée) d'urgence pour faire face à l'épidémie de covid-19

www.senat.fr (e-date: 24/03/2020)

[Lien original](#)

Rapport fait au nom de la commission des lois constitutionnelles, de législation, du suffrage universel, du Règlement et d'administration générale sur le projet de loi (procédure accélérée) d'urgence pour faire face à l'épidémie de Covid-19 et sur le projet de loi organique (procédure accélérée) d'urgence pour faire face à l'épidémie de Covid-19

www.senat.fr (e-date: 24/03/2020)

[Lien original](#)

Coronavirus (COVID-19): guidance on vulnerable children and young people

www.gov.uk (e-date: 23/03/2020)

[Lien original](#)

COVID-19: personal protective equipment use for aerosol generating

procedures. Two videos added for donning and doffing personal protective equipment.

www.gov.uk (e-date: 23/03/2020)

[Lien original](#)

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PREPRINTS (39)

First Clinical Study Using HCV Protease Inhibitor Danoprevir to Treat Naive and Experienced COVID-19 Patients

First Clinical Study Using HCV Protease Inhibitor Danoprevir to Treat Naive and Experienced COVID-19 Patients

As coronavirus disease 2019 (COVID-19) outbreak, caused by the severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2), started in China in January, 2020, repurposing approved drugs is emerging as important therapeutic options

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

Meplazumab treats COVID-19 pneumonia: an open-labelled, concurrent controlled add-on clinical trial

Meplazumab treats COVID-19 pneumonia: an open-labelled, concurrent controlled add-on clinical trial

Background: SARS-CoV-2 is a novel human coronavirus, there is no specific antiviral drugs. It has been proved that host-cell-expressed CD147 could bind spike protein of SARS-CoV-2 and involve in host cell invasion. Antibody against

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

COVID-19 Myocarditis and Severity Factors: An Adult Cohort Study

COVID-19 Myocarditis and Severity Factors: An Adult Cohort Study

Background Notwithstanding the clinical hallmarks of COVID-19 patients were reported, several critical issues still remain mysterious, i.e., prognostic factors for COVID-19 including extrinsic factors as viral load of SARS-CoV-2 and intrinsic factors as individual's

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

MATHEMATICAL PREDICTIONS FOR COVID-19 AS A GLOBAL PANDEMIC

MATHEMATICAL PREDICTIONS FOR COVID-19 AS A GLOBAL PANDEMIC

This study shows that the disease free equilibrium (E_0) for COVID-19 coronavirus does not satisfy the criteria for a locally or globally asymptotic stability. This implies that as a pandemic as declared by WHO (2020) the COVID-19 coronavirus does not have a curative vaccine yet and

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

Clinical characteristics and reasons of different duration from onset to release from quarantine for patients with COVID-19 Outside Hubei province, China.

Clinical characteristics and reasons of different duration from onset to release from quarantine for patients with COVID-19 Outside Hubei province, China.

Objective: To find out more characteristics and rules of COVID-19 by analyzing the clinical course

of COVID-19 patients in a region outside Hubei province. Methods: 37 cases diagnosed adult COVID-19 cases of general characteristics, history of epidemiology, chronic underlying

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

Screening and managing of suspected or confirmed novel coronavirus (COVID-19) patients: experiences from a tertiary hospital outside Hubei province

Screening and managing of suspected or confirmed novel coronavirus (COVID-19) patients: experiences from a tertiary hospital outside Hubei province

Objectives: To report our experiences screening and managing patients with suspected or confirmed novel coronavirus (COVID-19) disease using a hospital-specific protocol. Design: Longitudinal cohort study. Setting: A 1,200 bed tertiary care teaching hospital in Chengdu, Sichuan, China. Participants: 802 adults presenting

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

High COVID-19 incidence among Norwegian travellers returned from Lombardy: implications for travel restrictions

High COVID-19 incidence among Norwegian travellers returned from Lombardy: implications for travel restrictions

On February 27th, three cases of COVID-19 were reported among Norwegians that had recently returned from Lombardy, Italy. Travellers from the region rapidly became the most common source of imported infections in the earliest stage of the Norwegian

www.medrxiv.org (e-date: 24/03/2020)

[Lien original](#)

Hypertension and Diabetes Delay the Viral Clearance in COVID-19 Patients

Posted March 24, 2020.

Hypertension and Diabetes Delay the Viral Clearance in COVID-19 Patients

Xiaoping Chen, Wenjia Hu, Jiaxin Ling, Pingzheng Mo, Yongxi Zhang, Qunqun Jiang, Zhiyong Ma, Qian Cao, Liping Deng, Shihui Song, Ruiying Zheng, Shicheng Gao, Hengning Ke, Xien Gui, Åke Lundkvist, Jinlin Li, Johanna F Lindahl, Yong Xiong

doi: <https://doi.org/10.1101/2020.03.22.20040774>

Abstract

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Modelling the epidemiological trend and behavior of COVID-19 in Italy

Modelling the epidemiological trend and behavior of COVID-19 in Italy

As of March 16, 2020, over 185,000 across the world, Italy became the red hotspot for the COVID-19 pandemic after China. With over 35,000 cases and 2900 deaths reported in the month of March in Italy, it is necessary to stimulate epidemic trend to understand the behavior of COVID-19 in Italy. By S.E

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Window of Opportunity for Mitigation to Prevent Overflow of ICU capacity in Chicago by COVID-19

Window of Opportunity for Mitigation to Prevent Overflow of ICU capacity in Chicago by COVID-19
We estimate the growth in demand for ICU beds in Chicago during the emerging COVID-19 epidemic, using state-of-the-art computer simulations calibrated for the SARS-CoV-2 virus. The

questions we address are these: (1) Will the ICU capacity in Chicago be exceeded, and if so by how much? (2

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Association between Clinical, Laboratory and CT Characteristics and RT-PCR Results in the Follow-up of COVID-19 patients

Association between Clinical, Laboratory and CT Characteristics and RT-PCR Results in the Follow-up of COVID-19 patients

Abstract Background: Since December 2019, more than 100,000 coronavirus disease 2019 (COVID-19) patients have been confirmed globally based on positive viral nucleic acids with real-time reverse transcriptase-polymerase chain reaction (RT-PCR). However, the association between

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Insignificant effect of counter measure for coronavirus infectious disease -19 in Japan

Insignificant effect of counter measure for coronavirus infectious disease -19 in Japan

Background: To control COVID-19 outbreak in Japan, sports and entertainment events were canceled in Japan for two weeks from 26 February to 13 March. It has been designated as voluntary event cancellation (VEC). Object: This study

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Characterizing occupations that cannot work from home: a means to identify susceptible worker groups during the COVID-19 pandemic

Characterizing occupations that cannot work from home: a means to identify susceptible worker groups during the COVID-19 pandemic

Introduction As the COVID-19 pandemic spreads globally, public health guidance is advising all workers to work from home. However, not all workers are employed in occupations which can be done from home. These workers are at an

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Covid-19 dynamics in Albania: first estimates and projections

Covid-19 dynamics in Albania: first estimates and projections

Albania reported the first confirmed case of COVID-19 on the 9th of March 2020. Given very close travel connections with Italy, the most affected country in Europe from this virus so far, with a fast growing epidemic over the previous month of February

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Myocardial injury is associated with in-hospital mortality of confirmed or suspected COVID-19 in Wuhan, China: A single center retrospective cohort study

Myocardial injury is associated with in-hospital mortality of confirmed or suspected COVID-19 in Wuhan, China: A single center retrospective cohort study

[Background] Since December 2019, a cluster of coronavirus disease 2019 (COVID-19) occurred in Wuhan, Hubei Province, China and spread rapidly from China to other countries. In-hospital mortality are high in severe cases and cardiac injury characterized by elevated

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Effectiveness and safety of antiviral or antibody treatments for coronavirus

Effectiveness and safety of antiviral or antibody treatments for coronavirus

Background: To identify safe and effective medical countermeasures (e.g., antivirals/antibodies) to address the current outbreak of a novel coronavirus (COVID-19) Methods: Comprehensive literature searches were developed by an experienced librarian for MEDLINE, EMBASE, the Cochrane Library, and biorxiv.org/medrxiv.org; additional searches for ongoing www.medrxiv.org (e-date: 24/03/2020)

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The impact of temperature and absolute humidity on the coronavirus disease 2019 (COVID-19) outbreak - evidence from China

The impact of temperature and absolute humidity on the coronavirus disease 2019 (COVID-19) outbreak - evidence from China

OBJECTIVE To investigate the impact of temperature and absolute humidity on the coronavirus disease 2019 (COVID-19) outbreak. DESIGN Ecological study. SETTING 31 provincial-level regions in mainland China. MAIN OUTCOME MEASURES Data on COVID-19 incidence and climate between Jan 20 and Feb 29, 2020

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AI-assisted CT imaging analysis for COVID-19 screening: Building and deploying a medical AI system in four weeks

AI-assisted CT imaging analysis for COVID-19 screening: Building and deploying a medical AI system in four weeks

The sudden outbreak of novel coronavirus 2019 (COVID-19) increased the diagnostic burden of radiologists. In the time of an epidemic crisis, we hoped artificial intelligence (AI) to help reduce physician workload in regions with the outbreak

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Infection Control of 2019 Novel Corona Virus Disease (COVID-19) in Cancer Patients undergoing Radiotherapy in Wuhan

Infection Control of 2019 Novel Corona Virus Disease (COVID-19) in Cancer Patients undergoing Radiotherapy in Wuhan

Background A pandemic of 2019 novel corona virus disease (COVID-19), which was first reported in Wuhan city, has affected more than 100,000 patients worldwide. Patients with cancer are at a higher risk of COVID-19, but currently, there is no guidance on the management

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Epidemiological parameters of coronavirus disease 2019: a pooled analysis of publicly reported individual data of 1155 cases from seven countries

Posted March 24, 2020.

Epidemiological parameters of coronavirus disease 2019: a pooled analysis of publicly reported individual data of 1155 cases from seven countries

Shujuan Ma, Jiayue Zhang, Minyan Zeng, Qingping Yun, Wei Guo, Yixiang Zheng, Shi Zhao, Maggie H Wang, Zuyao Yang

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Abstract

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Assessing the potential impacts of COVID-19 in Brasil: Mobility, Morbidity and Impact to the Health System

Assessing the potential impacts of COVID-19 in Brasil: Mobility, Morbidity and Impact to the Health System

The two largest Brazilian cities, Rio de Janeiro and Sao Paulo, have declared community transmission of COVID-19 on mid March, 2020. In this study we estimated the most vulnerable areas in Brazil for COVID-19, both in terms of risk of introduction and risk of mortality associated with social vulnerability. We explore

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A comparative multi-centre study on the clinical and imaging features of confirmed and unconfirmed patients with COVID-19

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A comparative multi-centre study on the clinical and imaging features of confirmed and unconfirmed patients with COVID-19

Congliang Miao, Jinqiang Zhuang, Mengdi Jin, Huanwen Xiong, Peng Huang, Qi Zhao, Li Miao, Jiang Du, Xinying Yang, Peijie Huang, View ORCID ProfileJiang Hong

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Abstract

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Clinical Characteristics of Coronavirus Disease 2019 in Hainan, China

Clinical Characteristics of Coronavirus Disease 2019 in Hainan, China

Background: Since January 2020, coronavirus disease 2019 (Covid-19) has spread rapidly and developing the pandemic model around the world. Data have been needed on the clinical characteristics of the affected patients in an imported cases as model

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Analysis of psychological state and clinical psychological intervention model of patients with COVID-19

Analysis of psychological state and clinical psychological intervention model of patients with COVID-19

Background: Patients with the 2019 coronavirus disease (COVID-19) have different degrees of psychological pain, such as anxiety and depression, which may related to their prognosis. Psychological intervention can be conducted in different ways to improve

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Chinese and Italian COVID-19 outbreaks can be correctly described by a modified SIRD model

Chinese and Italian COVID-19 outbreaks can be correctly described by a modified SIRD model

The COVID-19 disease is rapidly spreading in whole globe, affecting millions of people and pushing governments to take drastic measures to contain the outbreaks. The understanding of the dynamics of the epidemic

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Bibliometric Analysis of Global Scientific Research on SARSCoV-2 (COVID-19)

Bibliometric Analysis of Global Scientific Research on SARSCoV-2 (COVID-19)

Since late 2019, an unknown-origin pneumonia outbreak detected in Wuhan city, Hubei Province, China. We aimed to build a model to qualitatively and quantitatively assess publications of research of COVID-19 from 2019 to 2020. Materials and Methods: Data were obtained from the

Web of Science (WOS), PubMed, and Scopus Core Collection on March 02, 2020, and updated on March 10. We conducted a qualitative and
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Tracking and forecasting milestone moments of the epidemic in the early-outbreak: framework and applications to the COVID-19

Tracking and forecasting milestone moments of the epidemic in the early-outbreak: framework and applications to the COVID-19

Background. The outbreak of the 2019 novel coronavirus (COVID-19) has attracted global attention. In the early stage of the outbreak, the most important question concerns some meaningful milestone moments, including (1) the time when the number of daily confirmed
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Estimating excess 1- year mortality from COVID-19 according to underlying conditions and age in England: a rapid analysis using NHS health records in 3.8 million adults

Estimating excess 1- year mortality from COVID-19 according to underlying conditions and age in England: a rapid analysis using NHS health records in 3.8 million adults

RAPID COMMUNICATION 22 March 2020 Estimating excess 1- year mortality from COVID-19 according to underlying conditions and age in England: a rapid analysis using NHS health records in 3.8 million adults Background: The medical, health service, societal and economic impact of the FoNt2

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Estimating the reproduction number of COVID-19 in Iran using epidemic modeling

Estimating the reproduction number of COVID-19 in Iran using epidemic modeling

Background: As reported by Iranian governments, the first cases of coronavirus (COVID-19) infections confirmed in Qom, Iran on February 19, 2020 (30 Bahman 1398). The number of identified cases afterward increased rapidly and the novel coronavirus spread to all provinces of the country

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Predicting the number of reported and unreported cases for the COVID-19 epidemic in South Korea, Italy, France and Germany

Predicting the number of reported and unreported cases for the COVID-19 epidemic in South Korea, Italy, France and Germany

We model the COVID-19 coronavirus epidemic in South Korea, Italy, France, and Germany. We use early reported case data to predict the cumulative number of reported cases to a final size. The key features of our model are the timing

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A New, Simple Projection Model for COVID-19 Pandemic

A New, Simple Projection Model for COVID-19 Pandemic

With the worldwide outbreak of COVID-19, an accurate model to predict how the coronavirus pandemic will evolve becomes important and urgent to help policy makers in different countries address the epidemic outbreak and determine policies to control

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ACE-2 Expression in the Small Airway Epithelia of Smokers and COPD Patients: Implications for COVID-19

ACE-2 Expression in the Small Airway Epithelia of Smokers and COPD Patients: Implications for COVID-19

Introduction: Coronavirus disease 2019 (COVID-19) is a respiratory infection caused by the severe acute respiratory syndrome coronavirus2 (SARSCoV-2). This virus uses the angiotensin converting enzyme II (ACE2) as the cellular

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A model for COVID-19 prediction in Iran based on China parameters

A model for COVID-19 prediction in Iran based on China parameters

Background: The rapid spread of COVID-19 virus from China to other countries and outbreaks of disease require an epidemiological analysis of the disease in the shortest time and an increased awareness of effective interventions. The purpose

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Potential biochemical markers to identify severe cases among COVID-19 patients

Potential biochemical markers to identify severe cases among COVID-19 patients

There is a high mortality and long hospitalization period for severe cases with 2019 novel coronavirus disease (COVID-19) pneumonia. Therefore, it makes sense to search for a potential biomarker that could rapidly and effectively identify severe cases early. Clinical samples from 28 cases of COVID-19 (8 severe

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High risk of infection caused posttraumatic stress symptoms in individuals with poor sleep quality: A study on influence of coronavirus disease (COVID-19) in China

High risk of infection caused posttraumatic stress symptoms in individuals with poor sleep quality: A study on influence of coronavirus disease (COVID-19) in China

The influence of the outbreak of coronavirus disease (COVID-19) on mental health was poorly understood. The present study aimed to exam sleep problems and posttraumatic stress symptoms (PTSS) in Chinese immediately after the massive outbreak of FoNt3

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From a single host to global spread. The global mobility based modelling of the COVID-19 pandemic implies higher infection and lower detection rates than current estimates.

From a single host to global spread. The global mobility based modelling of the COVID-19 pandemic implies higher infection and lower detection rates than current estimates.

Background Since the outbreak of the COVID-19 pandemic, multiple efforts of modelling of the geo-temporal transmissibility of the virus have been undertaken, but none succeeded in describing the pandemic at the global level. We propose a set of

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Predicting COVID-19 malignant progression with AI techniques

Predicting COVID-19 malignant progression with AI techniques

Background: The coronavirus disease 2019 (COVID-19) has become a worldwide pandemic since

mid-December 2019, which greatly challenge public medical systems. With limited medical resources, it is a natural strategy, while adopted

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Trend analysis of the COVID-19 pandemic in China and the rest of the world

Trend analysis of the COVID-19 pandemic in China and the rest of the world

The recent epidemic of Coronavirus (COVID-19) that started in China has already been "exported" to more than 140 countries in all the continents, evolving in most of them by local spreading. In this contribution we analyze the trends of

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Maximum entropy method for estimating the reproduction number: An investigation for COVID-19 in China

Maximum entropy method for estimating the reproduction number: An investigation for COVID-19 in China

method, given the mean value and variance of the generation interval, we first determine its probability distribution function and in turn estimate the real-time values of reproduction number of COVID-19 in China. By applying these estimated reproduction numbers into the susceptible-infectious-removed epidemic model, we simulate the evolutionary track of the epidemic in China, which is well in accordance

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