2020-03-06 Novel Coronavirus_Daily Article List

ARTICLES PUBLIES OU IN PRESS

COVID-19: the gendered impacts of the outbreak
COVID-19: the gendered impacts of the outbreak
on behalf of the Gender and COVID-19 Working Group
www.thelancet.com *(e-date: 07/03/2020)*
Lien original

Are high-performing health systems resilient against the COVID-19 epidemic?
Are high-performing health systems resilient against the COVID-19 epidemic?
As of March 5, 2020, there has been sustained local transmission of coronavirus disease 2019 (COVID-19) in Hong Kong, Singapore, and Japan.
www.thelancet.com *(e-date: 07/03/2020)*
Lien original

Coronavirus disease 2019 (covid-19): a guide for UK GPs | The BMJ
What do we know about the clinical course of covid-19?
When to consider covid-19
www.bmj.com *(e-date: 06/03/2020)*
Lien original

Potential scenarios for the progression of a COVID-19 epidemic in the European Union and the European Economic Area, March 2020
Potential scenarios for the progression of a COVID-19 epidemic in the European Union and the European Economic Area, March 2020
Two months after the emergence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the possibility of established and widespread community transmission in the European Union and European Economic Area (EU/EEA) is becoming more likely. We provide scenarios for use in preparedness
www.eurosurveillance.org *(e-date: 06/03/2020)*
Lien original

Evaluation of a quantitative RT-PCR assay for the detection of the emerging coronavirus SARS-CoV-2 using a high throughput system
Evaluation of a quantitative RT-PCR assay for the detection of the emerging coronavirus SARS-CoV-2 using a high throughput system
Facing the emergence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), high-volume respiratory testing is demanded in laboratories worldwide. We evaluated the performance of a molecular assay for the detection of SARS-CoV-2 on a high-throughput platform, the cobas
www.eurosurveillance.org *(e-date: 06/03/2020)*
Lien original

Rapid establishment of laboratory diagnostics for the novel coronavirus SARS-CoV-2 in Bavaria, Germany, February 2020

Rapid establishment of laboratory diagnostics for the novel coronavirus SARS-CoV-2 in Bavaria, Germany, February 2020

The need for timely establishment of diagnostic assays arose when Germany was confronted with the first travel-associated outbreak of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in Europe. We describe our laboratory experiences during a large contact tracing investigation, comparing previously published real-time RT-PCR assays in different PCR systems and a commercial

www.eurosurveillance.org (e-date: 06/03/2020)

Lien original

First cases of coronavirus disease 2019 (COVID-19) in the WHO European Region, 24 January to 21 February 2020

First cases of coronavirus disease 2019 (COVID-19) in the WHO European Region, 24 January to 21 February 2020

In the WHO European Region, COVID-19 surveillance was implemented 27 January 2020. We detail the first European cases. As at 21 February, nine European countries reported 47 cases. Among 38 cases studied, 21 were linked to two clusters

www.eurosurveillance.org (e-date: 06/03/2020)

Lien original

Updated rapid risk assessment from ECDC on the outbreak of COVID-19: increased transmission globally

Updated rapid risk assessment from ECDC on the outbreak of COVID-19: increased transmission globally

Eurosurveillance editorial team. Updated rapid risk assessment from ECDC on the outbreak of COVID-19: increased transmission globally. Euro Surveill. 2020;25(9):pii=2003051. https://doi.org/10.2807/1560-7917.ES.2020.25.9.2003051

www.eurosurveillance.org (e-date: 06/03/2020)

Lien original

Respiratory support for patients with COVID-19 infection

Respiratory support for patients with COVID-19 infection

As of Feb 27, 2020, coronavirus disease 2019 (COVID-19) has affected 47 countries and territories around the world.

www.thelancet.com (e-date: 06/03/2020)

Lien original

COVID-19: too little, too late?

COVID-19: too little, too late?

Although WHO has yet to call the outbreak of SARS-CoV-2 infection a pandemic, it has confirmed that the virus is likely to spread to most, if not all, countries. Regardless of terminology, this latest coronavirus epidemic is now seeing larger increases in cases

www.thelancet.com (e-date: 06/03/2020)

Lien original

Taking the right measures to control COVID-19

Taking the right measures to control COVID-19

The outbreak of coronavirus disease 2019 (COVID-19), which originated in Wuhan, China, in December, 2019, has been declared a public health emergency of international concern by WHO.

www.thelancet.com (e-date: 06/03/2020)

Game consumption and the 2019 novel coronavirus
Game consumption and the 2019 novel coronavirus
In December, 2019, the 2019 novel coronavirus (2019-nCoV) infecting humans was first identified in Wuhan, China.
www.thelancet.com *(e-date: 06/03/2020)*

Remdesivir as a possible therapeutic option for the COVID-19. Travel Med Infect Dis. 2020 Mar 4:101615. doi: 10.1016/j.tmaid.2020.101615. [Epub ahead of print]
Remdesivir as a possible therapeutic option for the COVID-19.
www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*

Insights into the Recent 2019 Novel Coronavirus (SARS-CoV-2) in Light of Past Human Coronavirus Outbreaks. Pathogens. 2020 Mar 4;9(3). pii: E186. doi: 10.3390/pathogens9030186.
Coronaviruses (CoVs) are RNA viruses that have become a major public health concern since the Severe Acute Respiratory Syndrome-CoV (SARS-CoV) outbreak in 2002. The continuous evolution of coronaviruses was further highlighted with the emergence of the Middle East Respiratory Syndrome-CoV (MERS-CoV) outbreak in 2012.
www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*

Lymphopenic community acquired pneumonia as signature of severe COVID-19 infection: Lymphopenia in severe COVID-19 infection. J Infect. 2020 Mar 4. pii: S0163-4453(20)30110-9. doi: 10.1016/j.jinf.2020.02.029. [Epub ahead of print]
Lymphopenic community acquired pneumonia as signature of severe COVID-19 infection: Lymphopenia in severe COVID-19 infection.
www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*

The Novel Coronavirus - A Snapshot of Current Knowledge. Microb Biotechnol. 2020 Mar 6. doi: 10.1111/1751-7915.13557. [Epub ahead of print]
Another animal to human transmission of a coronavirus occurred in December 2019 on a live animal market in the Chinese city of Wuhan causing an epidemic in China, reaching now different continents. This minireview summarizes the research literature on the virological, clinical and epidemiological aspects of this epidemic published until end of February 2020.
www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*

The effect of travel restrictions on the spread of the 2019 novel coronavirus (COVID-19) outbreak. Science. 2020 Mar 6. pii: eaba9757. doi: 10.1126/science.aba9757. [Epub ahead of print]
Motivated by the rapid spread of COVID-19 in Mainland China, we use a global metapopulation disease transmission model to project the impact of travel limitations on the national and international spread of the epidemic.
www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*

Chloroquine and hydroxychloroquine as available weapons to fight COVID-19. Int J Antimicrob Agents. 2020 Mar 4:105932. doi: 10.1016/j.ijantimicag.2020.105932. [Epub ahead of print]

Chloroquine and hydroxychloroquine as available weapons to fight COVID-19.

www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*
Lien original

Prediction of Epidemic Spread of the 2019 Novel Coronavirus Driven by Spring Festival Transportation in China: A Population-Based Study. Int J Environ Res Public Health. 2020 Mar 4;17(5). pii: E1679. doi: 10.3390/ijerph17051679.

After the 2019 novel coronavirus (2019-nCoV) outbreak, we estimated the distribution and scale of more than 5 million migrants residing in Wuhan after they returned to their hometown communities in Hubei Province or other provinces at the end of 2019 by using the data from the 2013-2018 China Migrants Dynamic Survey (CMDS).

www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*
Lien original

What can early Canadian experience screening for COVID-19 teach us about how to prepare for a pandemic? CMAJ. 2020 Mar 6. pii: cmaj.200305. doi: 10.1503/cmaj.200305. [Epub ahead of print]

What can early Canadian experience screening for COVID-19 teach us about how to prepare for a pandemic?

www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*
Lien original

Procalcitonin in patients with severe coronavirus disease 2019 (COVID-19): a meta-analysis. Clin Chim Acta. 2020 Mar 4. pii: S0009-8981(20)30106-6. doi: 10.1016/j.cca.2020.03.004. [Epub ahead of print]

Procalcitonin in patients with severe coronavirus disease 2019 (COVID-19): a meta-analysis.
COVID-19; Coronavirus; procalcitonin; prognosis

www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*
Lien original

Serial interval of novel coronavirus (COVID-19) infections. Int J Infect Dis. 2020 Mar 4. pii: S1201-9712(20)30119-3. doi: 10.1016/j.ijid.2020.02.060. [Epub ahead of print]

To estimate the serial interval of novel coronavirus (COVID-19) from information on 28 infector-infectee pairs.

www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*
Lien original

COVID-19 and the anti-lessons of history
COVID-19 and the anti-lessons of history
As the outbreak of coronavirus disease 2019 (COVID-19) in China's Hubei province continues and new cases of the disease increase globally,

www.thelancet.com *(e-date: 05/03/2020)*
Lien original

Traditional Chinese Medicine for COVID-19 Treatment. Pharmacol Res. 2020 Mar 4:104743. doi: 10.1016/j.phrs.2020.104743. [Epub ahead of print]

Traditional Chinese Medicine for COVID-19 Treatment.

www.ncbi.nlm.nih.gov *(e-date: 08/03/2020)*

What we do when a COVID-19 patient needs an operation: operating room preparation and guidance. Can J Anaesth. 2020 Mar 6. doi: 10.1007/s12630-020-01617-4. [Epub ahead of print]
What we do when a COVID-19 patient needs an operation: operating room preparation and guidance.
www.ncbi.nlm.nih.gov (e-date: 08/03/2020)

Identification of the hyper-variable genomic hotspot for the novel coronavirus SARS-CoV-2. J Infect. 2020 Mar 4. pii: S0163-4453(20)30108-0. doi: 10.1016/j.jinf.2020.02.027. [Epub ahead of print]
Identification of the hyper-variable genomic hotspot for the novel coronavirus SARS-CoV-2.
www.ncbi.nlm.nih.gov (e-date: 08/03/2020)

The deadly coronaviruses: The 2003 SARS pandemic and the 2020 novel coronavirus epidemic in China. J Autoimmun. 2020 Mar 3:102434. doi: 10.1016/j.jaut.2020.102434. [Epub ahead of print]
The 2019-nCoV is officially called SARS-CoV-2 and is the cause of the disease named COVID-19. This viral epidemic in China has led to the deaths of over 1800 people, mostly elderly or those with an underlying chronic disease or immunosuppressed state. This is the third serious Coronavirus outbreak in less than 20 years, following SARS in 2002-2003 and MERS in 2012. While human strains of Coronavirus are associated with about 15% of cases of the common cold, the SARS-CoV-2 may present with varying degrees of severity, from flu-like symptoms to death.
www.ncbi.nlm.nih.gov (e-date: 08/03/2020)

Liver injury in COVID-19: management and challenges. Lancet Gastroenterol Hepatol. 2020 Mar 4. pii: S2468-1253(20)30057-1. doi: 10.1016/S2468-1253(20)30057-1. [Epub ahead of print]
Liver injury in COVID-19: management and challenges.
www.ncbi.nlm.nih.gov (e-date: 08/03/2020)

How will country-based mitigation measures influence the course of the COVID-19 epidemic?
How will country-based mitigation measures influence the course of the COVID-19 epidemic?
Governments will not be able to minimise both deaths from coronavirus disease 2019 (COVID-19) and the economic impact of viral spread. Keeping mortality as low as possible will be the highest priority for individuals; hence governments must put in place measures to ameliorate
www.thelancet.com (e-date: 09/03/2020)

PREPRINTS

Genome-wide data inferring the evolution and population demography of the novel pneumonia coronavirus (SARS-CoV-2)

Genome-wide data inferring the evolution and population demography of the novel pneumonia coronavirus (SARS-CoV-2)

Since December 2019, coronavirus disease 2019 (COVID-19) emerged in Wuhan, Central China and rapidly spread throughout China. Up to March 3, 2020, SARS-CoV-2 has infected more than 89,000 people in China and other 66 countries across six

www.biorxiv.org *(e-date: 08/03/2020)*
Lien original

Monoclonal antibodies for the S2 subunit of spike of SARS-CoV cross-react with the newly-emerged SARS-CoV-2

Monoclonal antibodies for the S2 subunit of spike of SARS-CoV cross-react with the newly-emerged SARS-CoV-2

The emergence of a novel coronavirus, SARS-CoV-2, at the end of 2019 has resulted in widespread human infections across the globe. While genetically distinct from SARS-CoV, the etiological agent that caused an outbreak of severe acute respiratory

www.biorxiv.org *(e-date: 08/03/2020)*
Lien original

Crystal structure of SARS-CoV-2 nucleocapsid protein RNA binding domain reveals potential unique drug targeting sites

Crystal structure of SARS-CoV-2 nucleocapsid protein RNA binding domain reveals potential unique drug targeting sites

The outbreak of coronavirus disease (COVID-19) in China caused by SARS-CoV-2 virus continually lead to worldwide human infections and deaths. It is currently no specific viral protein targeted therapeutics yet. Viral nucleocapsid protein

www.biorxiv.org *(e-date: 08/03/2020)*
Lien original

In silico study of the spike protein from SARS-CoV-2 interaction with ACE2: similarity with SARS-CoV, hot-spot analysis and effect of the receptor polymorphism

In silico study of the spike protein from SARS-CoV-2 interaction with ACE2: similarity with SARS-CoV, hot-spot analysis and effect of the receptor polymorphism

The spread of the COVID-19 caused by the SARS-CoV-2 outbreak has been growing since its first identification in December 2019. The publishing of the first SARS-CoV-2 genome made a valuable source of data to study the details about its

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Lien original

Novel Immunoglobulin Domain Proteins Provide Insights into Evolution and Pathogenesis Mechanisms of SARS-Related Coronaviruses

A novel coronavirus (SARS-CoV-2) is the causative agent of an emergent severe respiratory disease (COVID-19) in humans that is threatening to result in a global health crisis. By using genomic, sequence, structural and evolutionary

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Lien original

LY6E impairs coronavirus fusion and confers immune control of viral disease

LY6E impairs coronavirus fusion and confers immune control of viral disease

Zoonotic coronaviruses (CoVs) are significant threats to global health, as exemplified by the recent emergence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Host

immune responses to CoV are complex and regulated in part through antiviral interferons. However, the interferon-stimulated gene products that inhibit CoV are not well characterized

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Lien original

Cryo-electron microscopy structure of the SADS-CoV spike glycoprotein provides insights into an evolution of unique coronavirus spike proteins

Cryo-electron microscopy structure of the SADS-CoV spike glycoprotein provides insights into an evolution of unique coronavirus spike proteins
The outbreak of a novel betacoronavirus (SARS-CoV-2) has aroused great public health concern. As a new coronavirus which was responsible for a large-scale outbreak of fatal disease in piglets in China, swine acute diarrhea syndrome coronavirus (SADS-CoV) originated

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Lien original

Direct RNA sequencing and early evolution of SARS-CoV-2

Direct RNA sequencing and early evolution of SARS-CoV-2
The rapid sharing of sequence information as seen throughout the current SARS-CoV-2 epidemic, represents an inflection point for genomic epidemiology. Here we describe aspects of coronavirus evolutionary genetics revealed from these data, and provide the first direct RNA sequence of FoNt3

www.biorxiv.org *(e-date: 08/03/2020)*
Lien original

COVID-19 early warning score: a multi-parameter screening tool to identify highly suspected patients

COVID-19 early warning score: a multi-parameter screening tool to identify highly suspected patients
BACKGROUND Corona Virus Disease 2019 (COVID-19) is spreading worldwide. Effective screening for patients is important to limit the epidemic. However, some defects make the currently applied diagnosis methods are still not very ideal for early warning

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Lien original

Amplicon based MinION sequencing of SARS-CoV-2 and metagenomic characterisation of nasopharyngeal swabs from patients with COVID-19

Amplicon based MinION sequencing of SARS-CoV-2 and metagenomic characterisation of nasopharyngeal swabs from patients with COVID-19
COVID-19 is a complex disease phenotype where the underlying microbiome could influence morbidity and mortality. Amplicon and metagenomic MinION based sequencing was used to rapidly (within 8 hours) identify

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Lien original

CORONAVIRUS IN PREGNANCY AND DELIVERY: RAPID REVIEW AND EXPERT CONSENSUS

CORONAVIRUS IN PREGNANCY AND DELIVERY: RAPID REVIEW AND EXPERT CONSENSUS
by SARS and MERS, the case fatality rate appeared higher in women affected in pregnancy compared with non-pregnant women. We conducted a rapid, review to guide management of women affected by COVID -19 during pregnancy and developed interim practice guidance with the RCOG and RCPCH to inform maternity and neonatal service planning METHODS Searches were conducted in PubMed and MedRxiv to identify primary

Role of temperature and humidity in the modulation of the doubling time of COVID-19 cases

Role of temperature and humidity in the modulation of the doubling time of COVID-19 cases
COVID-19 is having a great impact on public health, mortality and economy worldwide, in spite of the efforts to prevent its epidemy. The SARS-CoV-2 genome is different from that of MERS-CoV and SARS-CoV, although

Estimating the scale of COVID-19 Epidemic in the United States: Simulations Based on Air Traffic directly from Wuhan, China

Estimating the scale of COVID-19 Epidemic in the United States: Simulations Based on Air Traffic directly from Wuhan, China
Introduction: Coronavirus Disease 2019 (COVID-19) infection has been characterized by rapid spread and unusually large case clusters. It is important to have an estimate of the current state of COVID-19 epidemic in the U.S. to develop

The prevalence and influencing factors for anxiety in medical workers fighting COVID-19 in China: A cross-sectional survey

The prevalence and influencing factors for anxiety in medical workers fighting COVID-19 in China: A cross-sectional survey
Abstract: Background: The COVID-19 outbreak caused by the SARS-Cov-2 virus has been sustained in China since December 2019, and could become a pandemic if we do not contain it. The mental health of frontline medical staff is a concern. In

Acute Myocardial Injury of Patients with Coronavirus Disease 2019

Acute Myocardial Injury of Patients with Coronavirus Disease 2019
Background: Since the outbreak of the Coronavirus Disease 2019 (COVID-19) in China, respiratory manifestations of the disease have been observed. However, as a fatal comorbidity, acute myocardial injury (AMI) in COVID-19 patients has not been previously

Evaluating the secondary transmission pattern and epidemic prediction of the COVID-19 in metropolitan areas of China

Evaluating the secondary transmission pattern and epidemic prediction of the COVID-19 in metropolitan areas of China
Understanding the transmission dynamics of COVID-19 is crucial for evaluating the spread pattern of it, especially in metropolitan areas of China which may cause secondary outbreaks outside Wuhan, the center of the new coronavirus disease outbreak. We used

A data-driven assessment of early travel restrictions related to the spreading of the novel COVID-19 within mainland China

A data-driven assessment of early travel restrictions related to the spreading of the novel COVID-19 within mainland China

Two months after it was firstly reported, the novel coronavirus disease COVID-19 has already spread worldwide. However, the vast majority of reported infections have occurred in China. To assess the effect of early travel restrictions adopted by the health authorities

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Lien original

Transmission of corona virus disease 2019 during the incubation period may lead to a quarantine loophole

Background: The ongoing outbreak of novel corona virus disease 2019 (COVID-19) in Wuhan, China, is arousing international concern. This study evaluated whether and when the infected but asymptomatic cases during the incubation period could infect others. Methods: We collected

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Lien original

Emotional responses and coping strategies of nurses and nursing college students during COVID-19 outbreak

Emotional responses and coping strategies of nurses and nursing college students during COVID-19 outbreak
Background: Affected by a Corona Virus Disease 2019 (COVID-19) outbreak, Since December 2019, there have been more than 76,000 cases of COVID-19 in China, causing more than 3,000 medical staff infections. Due to COVID-19 spreads quickly, is highly contagious, and can

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Lien original

Estimating the generation interval for COVID-19 based on symptom onset data

Estimating the generation interval for COVID-19 based on symptom onset data
Background: Estimating key infectious disease parameters from the COVID-19 outbreak is quintessential for modelling studies and guiding intervention strategies. Whereas different estimates for the incubation period distribution and the serial interval distribution have been

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Lien original

Appealing for Efficient, Well Organized Clinical Trials on COVID-19

Appealing for Efficient, Well Organized Clinical Trials on COVID-19
The rapid emergence of clinical trials on COVID-19 stimulated a wave of discussion in scientific community. We reviewed the characteristics of interventional trials from Chinese Clinical Trial Registration (ChiCTR) and ClinicalTrials.gov. A total of

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Lien original

Isolation and characterization of SARS-CoV-2 from the first US COVID-19 patient

Isolation and characterization of SARS-CoV-2 from the first US COVID-19 patient
The etiologic agent of the outbreak of pneumonia in Wuhan China in January-2020, was identified as severe acute respiratory syndrome associated coronavirus 2 (SARS-CoV-2) . The first US patient was diagnosed by the State of Washington and the US Centers for Disease Control and Prevention on January 20, 2020. We isolated virus from nasopharyngeal and oropharyngeal

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Lien original

The within-host viral kinetics of SARS-CoV-2

The within-host viral kinetics of SARS-CoV-2
In this work, we use a within-host viral dynamic model to describe the SARS-CoV-2 kinetics in the host. Chest radiograph score data are used to estimate the parameters of that model. Our result shows that the basic reproductive number of SARS-CoV-2 in host growth is around 3.79. Using

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Exuberant elevation of IP-10, MCP-3 and IL-1ra during SARS-CoV-2 infection is associated with disease severity and fatal outcome

Exuberant elevation of IP-10, MCP-3 and IL-1ra during SARS-CoV-2 infection is associated with disease severity and fatal outcome
The outbreak of Coronavirus Disease 2019 (COVID-19) caused by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) emerged in Wuhan, December 2019, and continuously poses a serious threat to public health. Our previous study has

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Restoration of leukomonocyte counts is associated with viral clearance in COVID-19 hospitalized patients

Restoration of leukomonocyte counts is associated with viral clearance in COVID-19 hospitalized patients
Background: Viral clearance is one important indicator for the recovery of SARS-CoV-2 infected patients. Suboptimal T and B cell responses can delay viral clearance in MERS and SARS patients. The role of leukomonocytes in viral clearance of COVID-19 patients is not yet well defined.Methods

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Lien original

How does the outbreak of 2019-nCoV spread in mainland China? A retrospective analysis of the dynamic transmission routes

How does the outbreak of 2019-nCoV spread in mainland China? A retrospective analysis of the dynamic transmission routes
The fourth outbreak of the Coronaviruses, known as the 2019-nCoV, has occurred in Wuhan city of Hubei province in China in December 2019. We propose a time-varying sparse vector autoregressive (VAR) model to retrospectively analyze and visualize the dyamic transmission

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Lien original

68 Consecutive patients assessed for COVID-19 infection; experience from a UK regional infectious disease unit

68 Consecutive patients assessed for COVID-19 infection; experience from a UK regional infectious disease unit
Clinical assessment of possible infection with SARS-CoV-2, the novel coronavirus responsible for the outbreak of COVID-19 respiratory illness, has been a major activity of infectious diseases services in the UK and elsewhere since the first report of cases in December

www.medrxiv.org *(e-date: 07/03/2020)*
Lien original

ddPCR: a more sensitive and accurate tool for SARS-CoV-2 detection in low viral load specimens

ddPCR: a more sensitive and accurate tool for SARS-CoV-2 detection in low viral load specimens

Background: Real-Time PCR (RT-PCR) is widely used as the gold standard for clinical detection of SARS-CoV-2. However, due to the low viral load in patient throat and the limitation of RT-PCR, significant numbers of false negative reports are inevitable, which should not be ignored. Methods: We explored the

Epidemiologic Characteristics of COVID-19 in Guizhou, China

Epidemiologic Characteristics of COVID-19 in Guizhou, China
At the end of 2019, a coronavirus disease 2019 (COVID-19) outbroke in Wuhan, China, and spread to Guizhou province on January of 2020. To acquire the epidemiologic characteristics of COVID-19 in Guizhou, China, we collected data on 162 laboratory

Close contacts and household transmission of SARS-CoV-2 in China: a content analysis based on local Heath Commissions' public disclosures.

Close contacts and household transmission of SARS-CoV-2 in China: a content analysis based on local Heath Commissions' public disclosures.

Age-dependent risks of Incidence and Mortality of COVID-19 in Hubei Province and Other Parts of China

Age-dependent risks of Incidence and Mortality of COVID-19 in Hubei Province and Other Parts of China
New coronavirus SARS-CoV-2 poses a big challenge for global public health in early 2020. Coronavirus Disease 2019 (COVID-19) caused by the virus rapidly spreads all over the world and takes thousands of lives in just two months

Clinical features and outcomes of 221 patients with COVID-19 in Wuhan, China

Clinical features and outcomes of 221 patients with COVID-19 in Wuhan, China
Rationale: In late December 2019, an outbreak of acute respiratory illness, now officially named as COVID-19, or coronavirus disease 2019, emerged in Wuhan, China, now spreading across the whole country and world. More data were needed to understand the clinical characteristics of the disease. Objectives: To study

Clinical and Laboratory Profiles of 75 Hospitalized Patients with Novel Coronavirus Disease 2019 in Hefei, China

Clinical and Laboratory Profiles of 75 Hospitalized Patients with Novel Coronavirus Disease 2019 in Hefei, China
The outbreak of the novel coronavirus disease 2019 (COVID-19) infection began in December 2019 in Wuhan, and rapidly spread to many provinces in China. The number of cases has increased markedly in Anhui, but information on the clinical characteristics

The potential role of IL-6 in monitoring coronavirus disease 2019.

The potential role of IL-6 in monitoring coronavirus disease 2019.
Abstract. Background: The outbreak of coronavirus disease 2019 (COVID-19) in Wuhan City,

China spreads rapidly since December, 2019. Most patients show mild symptoms, but some of them develop into severe disease. There is currently no specific medication

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Risk estimation and prediction by modeling the transmission of the novel coronavirus (COVID-19) in mainland China excluding Hubei province

Risk estimation and prediction by modeling the transmission of the novel coronavirus (COVID-19) in mainland China excluding Hubei province
Background: In December 2019, an outbreak of novel coronavirus disease (COVID-19) emerged in Wuhan, China and has swiftly spread to other parts of China and a number of oversea countries. Our aim is to evaluate the effectiveness of the evolution of interventions and

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Lien original

Preliminary epidemiological analysis on children and adolescents with novel coronavirus disease 2019 outside Hubei Province, China: an observational study utilizing crowdsourced data

Preliminary epidemiological analysis on children and adolescents with novel coronavirus disease 2019 outside Hubei Province, China: an observational study utilizing crowdsourced data
Background: The outbreak of coronavirus disease 2019 (COVID-19) continues to expand across the world. Though both the number of cases and mortality rate in children and adolescents is reported to be low in comparison to adults, limited data

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Lien original

Clinical Features of Patients Infected with the 2019 Novel Coronavirus (COVID-19) in Shanghai, China

Clinical Features of Patients Infected with the 2019 Novel Coronavirus (COVID-19) in Shanghai, China
Background: Since mid-December 2019, a cluster of pneumonia-like diseases caused by a novel coronavirus, now designated COVID-19 by the WHO, emerged in Wuhan city and rapidly spread throughout China. Here we identify the clinical characteristics of COVID-19 in a cohort of patients in Shanghai. Methods: Cases

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The serial interval of COVID-19 from publicly reported confirmed cases

The serial interval of COVID-19 from publicly reported confirmed cases
As a novel coronavirus (COVID-19) continues to emerge throughout China and threaten the globe, its transmission characteristics remain uncertain. Here, we analyze the serial intervals-the time period between the onset of symptoms

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Estimating the Asymptomatic Proportion of 2019 Novel Coronavirus onboard the Princess Cruises Ship, 2020

Estimating the Asymptomatic Proportion of 2019 Novel Coronavirus onboard the Princess Cruises Ship, 2020
The potential infectiousness of asymptomatic COVID-19 cases together with a substantial fraction of asymptomatic infections among all infections, have been highlighted in clinical studies. We conducted statistical modeling analysis to derive the delay-adjusted

Epidemiological and clinical features of 291 cases with coronavirus disease 2019 in areas adjacent to Hubei, China: a double-center observational study

Epidemiological and clinical features of 291 cases with coronavirus disease 2019 in areas adjacent to Hubei, China: a double-center observational study

Abstract Background: The clinical outcomes of COVID-19 patients in Hubei and other areas are different. We aim to investigate the epidemiological and clinical characteristics of patient with COVID-19 in Hunan which is adjacent to Hubei. Methods: In this double

Evolving Epidemiology and Impact of Non-pharmaceutical Interventions on the Outbreak of Coronavirus Disease 2019 in Wuhan, China

Evolving Epidemiology and Impact of Non-pharmaceutical Interventions on the Outbreak of Coronavirus Disease 2019 in Wuhan, China

BACKGROUND We described the epidemiological features of the coronavirus disease 2019 (Covid-19) outbreak, and evaluated the impact of non-pharmaceutical interventions on the epidemic in Wuhan, China. METHODS Individual-level data on 25,961 laboratory-confirmed Covid-19 cases

Transmission and clinical characteristics of coronavirus disease 2019 in 104 outside-Wuhan patients, China

Transmission and clinical characteristics of coronavirus disease 2019 in 104 outside-Wuhan patients, China

Background: Cases with coronavirus disease 2019 (COVID-19) emigrated from Wuhan escalated the risk of spreading in other cities. This report focused on the outside-Wuhan patients to assess the transmission and clinical characteristics of

Evaluation of the incidence of COVID-19 and of the efficacy of contention measures in Spain: a data-driven approach.

Evaluation of the incidence of COVID-19 and of the efficacy of contention measures in Spain: a data-driven approach.

Our society is currently experiencing an unprecedented challenge, managing and containing an outbreak of a new coronavirus disease known as COVID-19. While China - were the outbreak started - seems to have been able to contain the growth of the epidemic, different outbreaks are nowadays being detected in multiple countries

The impact of social distancing and epicenter lockdown on the COVID-19 epidemic in mainland China: A data-driven SEIQR model study

The impact of social distancing and epicenter lockdown on the COVID-19 epidemic in mainland China: A data-driven SEIQR model study

The outbreak of coronavirus disease 2019 (COVID-19) which originated in Wuhan, China, constitutes a public health emergency of international concern with a very high risk of spread and impact at the global level. We developed data

The effect of human mobility and control measures on the COVID-19 epidemic in China

The effect of human mobility and control measures on the COVID-19 epidemic in China

Moritz U.G. Kraemer , Chia-Hung Yang , Bernardo Gutierrez , Chieh-Hsi Wu , Brennan Klein , David M. Pigott , open COVID-19 data working group , Louis du Plessis , Nuno R Faria , Ruoran Li , William P. Hanage , John S Brownstein , Maylis Layan , Alessandro Vespignani , Huaiyu Tian , Christopher Dye , Simon Cauchemez , Oliver

www.medrxiv.org (e-date: 07/03/2020)
Lien original

SOCRATES: An online tool leveraging a social contact data sharing initiative to assess mitigation strategies for COVID-19

SOCRATES: An online tool leveraging a social contact data sharing initiative to assess mitigation strategies for COVID-19

Objective: Establishing a social contact data sharing initiative and an online tool to assess mitigation strategies for COVID-19. Results: Using our online tool and the available social contact data, we illustrate that social distancing could have a considerable impact on reducing transmission for COVID-19. The effect itself depends

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Transmission interval estimates suggest pre-symptomatic spread of COVID-19

Transmission interval estimates suggest pre-symptomatic spread of COVID-19

Background: As the COVID-19 epidemic is spreading, incoming data allows us to quantify values of key variables that determine the transmission and the effort required to control the epidemic. We determine the incubation period

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Estimation of COVID-19 outbreak size in Italy based on international case exportations

Estimation of COVID-19 outbreak size in Italy based on international case exportations

Italy is currently experiencing an epidemic of COVID-19 which emerged in the Lombardy region . During the interval between February 25-29, 2020, we identified 46 cases of COVID-19 reported in 21 countries in Europe, Africa, North America, and South America

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Effect of non-pharmaceutical interventions for containing the COVID-19 outbreak: an observational and modelling study

Effect of non-pharmaceutical interventions for containing the COVID-19 outbreak: an observational and modelling study

Background The COVID-19 outbreak containment strategies in China based on non-pharmaceutical interventions (NPIs) appear to be effective. Quantitative research is still needed however to assess the efficacy of different candidate

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Estimating the burden of United States workers exposed to infection or disease: a key factor in containing risk of COVID-19 infection

Estimating the burden of United States workers exposed to infection or disease: a key factor in containing risk of COVID-19 infection

Introduction: With the global spread of COVID-19, there is a compelling public health interest

in quantifying who is at increased risk of disease. Occupational characteristics, such as interfacing with the public and being in close quarters with other

www.medrxiv.org (e-date: 07/03/2020)
Lien original

The timing of one-shot interventions for epidemic control

The apparent early success in China's large-scale intervention to control the COVID-19 epidemic has led to interest in whether other countries can replicate it as well as concerns about a resurgence of the epidemic if or when China relaxes the interventions. In this paper we look at the

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Candidate targets for immune responses to 2019-Novel Coronavirus (nCoV): sequence homology- and bioinformatic-based predictions

Candidate targets for immune responses to 2019-Novel Coronavirus (nCoV): sequence homology- and bioinformatic-based predictions
Effective countermeasures against the recent emergence and rapid expansion of the 2019-Novel Coronavirus (2019-nCoV) require the development of data and tools to understand and monitor viral spread and immune responses. However, little information about the targets of immune responses to 2019-nCoV is

www.biorxiv.org (e-date: 06/03/2020)
Lien original

The Essential Facts of Wuhan Novel Coronavirus Outbreak in China and Epitope-based Vaccine Designing against COVID-19

The Essential Facts of Wuhan Novel Coronavirus Outbreak in China and Epitope-based Vaccine Designing against COVID-19
Wuhan Novel Coronavirus disease (COVID-19) outbreak has become a global outbreak which has raised the concern of scientific community to design and discover a definitive cure against this deadly virus which has caused deaths

www.biorxiv.org (e-date: 06/03/2020)
Lien original

The SARS-CoV-2 receptor ACE2 expression of maternal-fetal interface and fetal organs by single cell transcriptome study

The SARS-CoV-2 receptor ACE2 expression of maternal-fetal interface and fetal organs by single cell transcriptome study
The new type of pneumonia caused by the SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2) has been declared as a global public health concern by WHO. Thousands of human infections have been diagnosed in China along with many other countries, which

www.biorxiv.org (e-date: 06/03/2020)
Lien original

Functional pangenome analysis suggests inhibition of the protein E as a readily available therapy for COVID-2019.

The spread of the novel coronavirus (SARS-CoV-2) has triggered a global emergency, that demands urgent solutions for detection and therapy to prevent escalating health, social and economic impacts. The spike protein (S) of this virus enables

www.biorxiv.org (e-date: 06/03/2020)
Lien original

Partial RdRp sequences offer a robust method for Coronavirus subgenus classification

Partial RdRp sequences offer a robust method for Coronavirus subgenus classification of subgenus based on partial sequence data, or for sequences that are divergent from the designated holotype reference genomes. Here, we describe the genetic variation of a partial region of the coronavirus RNA-dependent RNA polymerase (RdRp), which is one of the most used partial sequence loci for both detection and classification of coronaviruses in molecular epidemiology. We infer Bayesian phylogenies

www.biorxiv.org (e-date: 06/03/2020)
Lien original

Serological detection of 2019-nCoV respond to the epidemic: A useful complement to nucleic acid testing

Serological detection of 2019-nCoV respond to the epidemic: A useful complement to nucleic acid testing

Background Pneumonia caused by 2019 novel coronavirus (2019-nCoV) was first reported in Wuhan, Hubei Province, China in December 2019. Then it has been reported in more than 20 countries and regions overseas rapidly. More than eighty thousand cases have

www.medrxiv.org (e-date: 06/03/2020)
Lien original

Human Kidney is a Target for Novel Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection

Human Kidney is a Target for Novel Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection

BACKGROUND The coronavirus disease 2019 (COVID-19) is a newly emerged infection from the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Apart from the respiratory system, it is unclear whether SARS-CoV-2 can also directly

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Lien original

Psychological impact of the coronavirus disease 2019 (COVID-19) outbreak on healthcare workers in China

Psychological impact of the coronavirus disease 2019 (COVID-19) outbreak on healthcare workers in China

Introduction Since the outbreak of coronavirus disease 2019 (COVID-19), more than 3000 (including clinical diagnosis) healthcare workers (HCWs) have been infected with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in China. This study is aimed

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Lien original

Case fatality risk of novel coronavirus diseases 2019 in China

Case fatality risk of novel coronavirus diseases 2019 in China

Objective The outbreak of novel coronavirus disease 2019 (COVID-19) imposed a substantial health burden in mainland China and remains a global epidemic threat. Our objectives are to assess the case fatality risk (CFR) among COVID-19 patients detected

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Clinical characteristics of 101 non-surviving hospitalized patients with COVID-19: A single center, retrospective study

Clinical characteristics of 101 non-surviving hospitalized patients with COVID-19: A single center, retrospective study

ABSTRACT OBJECTIVE To study the clinical characteristics of non-surviving hospitalized patients with confirmed COVID-19 in Wuhan, China, and tracked the causes of the death. DESIGN Retrospective case series. SETTING Two campus of Renmin Hospital of Wuhan University in Wuhan, China, and is responsible for the treatments

Prediction of New Coronavirus Infection Based on a Modified SEIR Model

Prediction of New Coronavirus Infection Based on a Modified SEIR Model
BACKGROUND The outbreak of the new coronavirus infection in Wuhan City, Hubei
Province in December 2019, poses a huge threat to China and even global public health
security. Respiratory droplets and contact transmission are the main routes of transmission

Immunodepletion with Hypoxemia: A Potential High Risk Subtype of Coronavirus Disease 2019

Immunodepletion with Hypoxemia: A Potential High Risk Subtype of Coronavirus Disease
2019
and discuss the relationship between hypoxemia severity and immune cell levels, and the
changes of gut microbes of COVID-2019 patient. Methods This is a retrospective study from
3 patients with 2019-nCoV infection admitted to Renmin Hospital of Wuhan University, a
COVID-2019 designated hospital in Wuhan, from January 31 to February 6, 2020. All patients
were diagnosed and classified based on the Diagnosis

Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: a modelling analysis based on overseas cases and air travel data

Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: a
modelling analysis based on overseas cases and air travel data
As of 1 March 2020, Iran has reported 987 COVID-19 cases and including 54 associated
deaths. At least six neighboring countries (Bahrain, Iraq, Kuwait, Oman, Afghanistan and
Pakistan) have reported imported COVID-19 cases from Iran. We used air travel

Caution: The clinical characteristics of COVID-19 patients at admission are changing

Caution: The clinical characteristics of COVID-19 patients at admission are changing
Background With the emergence of 4rd generation transmission, the prevention and
treatment of the novel coronavirus disease 2019 (COVID-19) has entered a new period. We
aimed to report several changes in the clinical characteristics at admission of patients with
COVID-19. Methods Clinical records and laboratory results

Adjusted age-specific case fatality ratio during the COVID-19 epidemic in Hubei, China, January and February 2020

Adjusted age-specific case fatality ratio during the COVID-19 epidemic in Hubei, China,
January and February 2020
The coronavirus disease 2019 (COVID-19) epidemic that originated in Wuhan, China has
spread to more than 60 countries. We estimated the age-specific case fatality ratio (CFR) by
fitting a transmission model to data from

Preliminary estimating the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea from 31 January to 1 March 2020

Preliminary estimating the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea from 31 January to 1 March 2020

The novel coronavirus disease 2019 (COVID-19) outbreak in Republic of Korea has caused 3736 cases and 18 deaths by 1 March 2020. We modeled the transmission process in Republic of Korea with a stochastic model and estimated

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Lien original

Modelling-based evaluation of the effect of quarantine control by the Chinese government in the coronavirus disease 2019 outbreak

Modelling-based evaluation of the effect of quarantine control by the Chinese government in the coronavirus disease 2019 outbreak

The novel coronavirus disease 2019 (COVID-19) epidemic, which was first identified in Wuhan, China in December 2019 has rapidly spread all over China and across the world. By the end of February 2020, the epidemic outside Hubei

www.medrxiv.org (e-date: 06/03/2020)
Lien original

Validity of Wrist and Forehead Temperature in Temperature Screening in the General Population During the Outbreak of 2019 Novel Coronavirus: a prospective real-world study

Validity of Wrist and Forehead Temperature in Temperature Screening in the General Population During the Outbreak of 2019 Novel Coronavirus: a prospective real-world study Aims: Temperature screening is important in the population during the outbreak of 2019 Novel Coronavirus (COVID-19). This study aimed to compare the accuracy and precision of wrist and forehead temperature with tympanic temperature under different circumstances. Methods: We performed a prospective observational

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Lien original

How to differentiate COVID-19 pneumonia from heart failure with computed tomography at initial medical contact during epidemic period

How to differentiate COVID-19 pneumonia from heart failure with computed tomography at initial medical contact during epidemic period

OBJECTIVES To compare chest CT findings in heart failure with those of Corona Virus Disease 2019 (COVID-19) pneumonia. BACKGROUND During epidemic period, chest computed tomography (CT) has been highly recommended for screening patients with suspected COVID-19. However, the comparison of CT imaging between heart

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Lien original

Study of the mental health status of medical personnel dealing with new coronavirus pneumonia

Study of the mental health status of medical personnel dealing with new coronavirus pneumonia

education on mental health. Methods: A self-report inventory, the Symptom Checklist-90 (SCL-90), was used to investigate the mental health status of 548 medical personnel dealing with the new coronavirus pneumonia in eight provinces and cities of China. Results: The overall mean SCL-90 score and mean values of factors (somatization, obsessive-compulsive, anxiety, phobic anxiety, and psychoticism) of

www.medrxiv.org (e-date: 06/03/2020)
Lien original

Nanopore target sequencing for accurate and comprehensive detection of SARS-CoV-2 and other respiratory viruses

Nanopore target sequencing for accurate and comprehensive detection of SARS-CoV-2 and other respiratory viruses

The ongoing novel coronavirus pneumonia COVID-19 outbreak in Wuhan, China, has engendered numerous cases of infection and death. COVID-19 diagnosis relies upon nucleic acid detection; however, current recommended methods exhibit high

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Clinical features and outcomes of 221 patients with COVID-19 in Wuhan, China

Clinical features and outcomes of 221 patients with COVID-19 in Wuhan, China

Rationale: In late December 2019, an outbreak of acute respiratory illness, now officially named as COVID-19, or coronavirus disease 2019, emerged in Wuhan, China, now spreading across the whole country and world. More data were needed to understand the clinical characteristics of the disease. Objectives: To study

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Evaluation of the incidence of COVID-19 and of the efficacy of contention measures in Spain: a data-driven approach.

Evaluation of the incidence of COVID-19 and of the efficacy of contention measures in Spain: a data-driven approach.

Our society is currently experiencing an unprecedented challenge, managing and containing an outbreak of a new coronavirus disease known as COVID-19. While China - were the outbreak started - seems to have been able to contain the growth of the epidemic, different outbreaks are nowadays being detected in multiple countries

www.medrxiv.org (e-date: 07/03/2020)
Lien original

Substrate specificity profiling of SARS-CoV-2 Mpro protease provides basis for anti-COVID-19 drug design

Substrate specificity profiling of SARS-CoV-2 Mpro protease provides basis for anti-COVID-19 drug design

In December 2019, the first cases of a novel coronavirus infection were diagnosed in Wuhan, China. Due to international travel and human-to-human transmission, the virus spread rapidly inside and outside of China. Currently, there is no effective antiviral

www.biorxiv.org (e-date: 09/03/2020)
Lien original

AI-aided design of novel targeted covalent inhibitors against SARS-CoV-2

AI-aided design of novel targeted covalent inhibitors against SARS-CoV-2

The focused drug repurposing of known approved drugs (such as lopinavir/ritonavir) has been reported failed for curing SARS-CoV-2 infected patients. It is urgent to generate new chemical entities against this virus. As a key enzyme in the life-cycle of coronavirus, the 3C-like main protease (3CLpro or Mpro) is the most attractive for

www.biorxiv.org (e-date: 09/03/2020)
Lien original

An Effective CTL Peptide Vaccine for Ebola Zaire Based on Survivors' CD8+ Targeting of a Particular Nucleocapsid Protein Epitope with Potential Implications for COVID-19 Vaccine Design

An Effective CTL Peptide Vaccine for Ebola Zaire Based on Survivors' CD8+ Targeting of a Particular Nucleocapsid Protein Epitope with Potential Implications for COVID-19 Vaccine Design
is enough to confer immunity in mice. Our work suggests that a peptide vaccine based on CD8+ T-cell immunity in EBOV survivors is conceptually sound and feasible. Nucleocapsid proteins within COVID-19 contain multiple class I epitopes with predicted HLA restrictions consistent with broad population coverage. A similar approach to a CTL vaccine design may be possible for that virus.

www.biorxiv.org (e-date: 09/03/2020)
Lien original

A preliminary study on serological assay for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in 238 admitted hospital patients

A preliminary study on serological assay for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in 238 admitted hospital patients
Background The outbreak of the recently emerged novel corona virus disease 2019 (COVID-19) poses a challenge for public health laboratories. We aimed to evaluate the diagnostic value of serological assay for SARS-CoV-2. Methods A newly-developed ELISA assay for IgM and IgG antibodies against

www.medrxiv.org (e-date: 09/03/2020)
Lien original

Clinical presentation and virological assessment of hospitalized cases of coronavirus disease 2019 in a travel-associated transmission cluster

Clinical presentation and virological assessment of hospitalized cases of coronavirus disease 2019 in a travel-associated transmission cluster
Background: In coronavirus disease 2019 (COVID-19), current case definitions presume mainly lower respiratory tract infection. However, cases seen outside the epicenter of the epidemic may differ in their overall clinical appearance

www.medrxiv.org (e-date: 09/03/2020)
Lien original

Modeling the Comparative Impact of Individual Quarantine vs. Active Monitoring of Contacts for the Mitigation of COVID-19

Modeling the Comparative Impact of Individual Quarantine vs. Active Monitoring of Contacts for the Mitigation of COVID-19
Individual quarantine and active monitoring of contacts are core disease control strategies, particularly for emerging infectious diseases such as Coronavirus Disease 2019 (COVID-19). To estimate the comparative efficacy of these interventions to control COVID-19, we fit a stochastic branching model, comparing two sets of reported parameters for the dynamics of

www.medrxiv.org (e-date: 09/03/2020)
Lien original

Exploring diseases/traits and blood proteins causally related to expression of ACE2, the putative receptor of 2019-nCov: A Mendelian Randomization analysis

Exploring diseases/traits and blood proteins causally related to expression of ACE2, the putative receptor of 2019-nCov: A Mendelian Randomization analysis
The novel coronavirus 2019-nCoV has caused major outbreaks in many parts of the world. A better understanding of the pathophysiology of COVID-19 is urgently needed. Clinically, it is important to identify who may be susceptible

www.medrxiv.org (e-date: 09/03/2020)
Lien original

Clinical characterization and chest CT findings in laboratory-confirmed COVID-19: a systematic review and meta-analysis

Clinical characterization and chest CT findings in laboratory-confirmed COVID-19: a systematic review and meta-analysis

Background: Imagery techniques have been used as essential parts of diagnostic workup for patients suspected for 2019-nCoV infection, Multiple studies have reported the features of chest computed tomography (CT) scans among a number of 2019-nCoV patients. Method: Study Identification was carried out in databases (PubMed

www.medrxiv.org (e-date: 09/03/2020)
Lien original

Estimating the infection and case fatality ratio for COVID-19 using age-adjusted data from the outbreak on the Diamond Princess cruise ship

Estimating the infection and case fatality ratio for COVID-19 using age-adjusted data from the outbreak on the Diamond Princess cruise ship

View ORCID Profile Timothy W Russell , View ORCID Profile Joel Hellewell , View ORCID Profile Christopher I Jarvis , View ORCID Profile Kevin van-Zandvoort , View ORCID Profile Sam Abbott , View ORCID Profile Ruwan Ratnayake , CMMID nCov working group , Stefan Flasche , Rosalind M Eggo , Adam J Kucharski

www.medrxiv.org (e-date: 09/03/2020)
Lien original

The Evaluation of Sleep Disturbances for Chinese Frontline Medical Workers Under the Outbreak of COVID-19

The Evaluation of Sleep Disturbances for Chinese Frontline Medical Workers Under the Outbreak of COVID-19

Objective To evaluate sleep disturbances of Chinese frontline medical workers (fMW) under the outbreak of coronavirus disease 2019, and make a comparison with non-fMW. Methods The medical workers from multiple hospitals in Hubei Province, China, were volunteered to participate in this cross-sectional study. An online

www.medrxiv.org (e-date: 09/03/2020)
Lien original

DOCUMENTS GOUVERNEMENTAUX

Protocole ministériel préhospitalier - Prise en charge des patients susceptibles de présenter une maladie respiratoire sévère (MRS)

des urgences et de l'accès clinique Procédure MRS – Émise : le 11 décembre 2015 Mise jour : 5 mars 2020 Page 9 de 11 ANNEXE 2 : OUTIL D'ÉVALUATION POUR LES CCS, LES PR ET LES TAP COVID-19, MALADIES RESPIRATOIRES SÉVÈRES INFECTIEUSES (MRSI) ET EBOLA L'HYGIÈNE ET L'ÉTIQUETTE RESPIRATOIRES DOIVENT ÊTRE APPLIQUÉES SELON LES PROTOCOLES PARTIE 1 - TRIAGE POUR LE COVID-19 3. Est-ce qu

msss.gouv.qc.ca (e-date: 07/03/2020)
Lien original

FORMULAIRE DE DÉCLARATION DE CAS D'INFECTION - MALADIE À CORONAVIRUS (COVID-19)

FORMULAIRE DE DÉCLARATION DE CAS D'INFECTION – MALADIE À CORONAVIRUS (COVID-19)

www.canada.ca (e-date: 07/03/2020)
Lien original

FAQ for Diagnostic Tools and Virus

How do I learn more about the CDC 2019-nCoV Real-Time RT-PCR Diagnostic Panel?
www.cdc.gov (e-date: 07/03/2020)
Lien original

Interim U.S. Guidance for Risk Assessment and Public Health Management of Healthcare Personnel with Potential Exposure in a Healthcare Setting to Patients with Coronavirus Disease (COVID-19)

Updating recommendations regarding HCP contact tracing, monitoring, and work restrictions in selected circumstances. These include allowances for asymptomatic HCP who have had an exposure to a COVID-19 patient to continue to work after options to improve staffing have been exhausted and in consultation with their occupational health program.
www.cdc.gov (e-date: 07/03/2020)
Lien original

Coronavirus disease 2019 (COVID-19)

been demonstrated (details to be determined) ** "Territories" include territories, areas, overseas dependencies and other jurisdictions of similar status Figure 2. Epidemic curve of confirmed COVID-19 cases reported outside of China (n=21,110), by date of report and WHO region through 07 March 2020 STRATEGIC OBJECTIVES WHO's strategic objectives for this response are to: • Interrupt human-to-human
www.who.int (e-date: 07/03/2020)
Lien original

Communicable disease threats report, 1-7 March 2020, week 10

The ECDC Communicable Disease Threats Report (CDTR) is a weekly bulletin for epidemiologists and health professionals on active public health threats. This issue covers the period from 1-7 March 2020 and includes updates on COVID-19, Ebola virus disease, polio, influenza, MERS-CoV.
www.ecdc.europa.eu (e-date: 06/03/2020)
Lien original

COVID-19: background information - GOV.UK

COVID-19: background information
Information on COVID-19 including epidemiology, virology and clinical features.
www.gov.uk (e-date: 06/03/2020)
Lien original

Coronavirus disease 2019 (COVID-19)

Working with the World Economic Forum, EPI-WIN has established networks with the key business sectors and public enterprises likely to be impacted by COVID-19 and future epidemics. These have been grouped into networks of Healthcare & Health Workers, Travel & Tourism, Food & Agriculture and International Mass Gatherings. Within each network, there are multi
www.who.int (e-date: 06/03/2020)
Lien original

DOCUMENTS DE PRÉVENTION

À propos de la maladie à coronavirus (COVID-19) [Infographie]

canada.ca (e-date: 07/03/2020)
Agence de la santé publique du Canada
Lien original

Soyez prêt (COVID-19) [Infographie]

canada.ca (e-date: 07/03/2020)
Agence de la santé publique du Canada
Lien original

NEWS & BLOGS

Covid-19: UK records first death, as world's cases exceed 100 000 | The BMJ

Read our latest coverage of the Coronavirus outbreak

www.bmj.com (e-date: 07/03/2020)
Lien original

Covid-19: GP surgeries close for two weeks after staff test positive | The BMJ

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www.bmj.com (e-date: 07/03/2020)
Lien original

Trump claims public health warnings on covid-19 are a conspiracy against him | The BMJ

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www.bmj.com (e-date: 07/03/2020)
Lien original

Covid-19: are we getting the communications right? | The BMJ

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Role of experts
Footnotes
References

www.bmj.com (e-date: 07/03/2020)
Lien original

Covid-19: Is it reasonable to ask retired doctors to return to 'duty' - The BMJ

Covid-19: Is it reasonable to ask retired doctors to return to duty
That said, refusal of treatment by patients or denial of care by medical professionals is challenging when public health is at risk, such as the covid-19 outbreak. In these circumstances, refusal represents an evident risk and poses legal or ethical questions.

blogs.bmj.com (e-date: 06/03/2020)
Lien original

Tom Jefferson: Covid 19—we live in surreal times - The BMJ

Driving home I reflected on the meaning of what I had heard. Perhaps the covid-19 epidemic started in China and perhaps it spread from there to other nations. The timing of the spread of the virus (3 months) fits with international travel norms.

blogs.bmj.com (e-date: 06/03/2020)

Some Seattle-area schools closed as more states hit with COVID-19

Some Seattle-area schools closed as more states hit with COVID-19
Late yesterday officials in the Seattle area took more steps to limit the spread of COVID-19, including closing all schools in the Northshore school district near Seattle for at least 14 days and providing online instruction for more than 23,000 students, the Seattle Times reported.

www.cidrap.umn.edu (e-date: 06/03/2020)

WHO urges whole-government COVID-19 tack as cases climb globally

WHO urges whole-government COVID-19 tack as cases climb globally
The head of the World Health Organization (WHO) today said some countries are depending on their health ministry to shoulder the battle against COVID-19 and that a whole-of-government approach is needed, as the novel coronavirus spreads to more countries and fuels hot spots across multiple continents.

www.cidrap.umn.edu (e-date: 06/03/2020)

WHO/Europe | WHO rapid response team concludes mission to Italy for COVID-19 response

WHO rapid response team concludes mission to Italy for COVID-19 response
In a broader context, Italy can be a "knowledge-generating platform" on COVID-19 within the scientific community. Another recommendation from the mission is to capitalize on the country's transparent information-sharing and academic and research capacity, to build understanding

www.euro.who.int (e-date: 06/03/2020)

Coronavirus: doctor who faced backlash from police after warning of outbreak dies

News Coronavirus: doctor who faced backlash from police after warning of outbreak dies
BMJ 2020 ; 368 doi: https://doi.org/10.1136/bmj.m528 (Published 06 February 2020) Cite this as: BMJ 2020;368:m528
Li Wenliang—a doctor from Wuhan, China, who said he was reprimanded by police for warning other doctors about novel coronavirus at the start of the outbreak—has died after being infected with 2019-nCoV.

www.bmj.com (e-date: 09/03/2020)