

SOMMAIRE

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ARTICLES PUBLIÉS OU IN PRESS

In Silico Assessment of the Impact of 2019 Novel Coronavirus (2019-nCoV) Genomic Variation on Published Real-Time Quantitative Polymerase Chain Reaction Detection Assays | Chin Med J (Engl)

2020 Mar 26 [Online ahead of print] In Silico Assessment of the Impact of 2019 Novel Coronavirus (2019-nCoV) Genomic Variation on Published Real-Time Quantitative Polymerase Chain Reaction Detection Assays

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Fan H, Zhang XL, Zhang YW, Huang Y, Teng Y, Guo Y, et al.

[Lien original](#)

Brief Report of the First Cured 2019-nCoV Pneumonia Patient in West China Hospital | European journal of clinical microbiology & infectious diseases

2020 Mar 27 [Online ahead of print] Brief Report of the First Cured 2019-nCoV Pneumonia Patient in West China Hospital

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Chen EQ, Wang LC, Tang GM, Yang Y, Wang MJ, Deng R, et al.

[Lien original](#)

2019 Novel Coronavirus and Awareness | Chin Med Assoc

2020 Mar 18 [Online ahead of print] 2019 Novel Coronavirus and Awareness

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Joob B, Wiwanitkit V.

[Lien original](#)

A Genomic Perspective on the Origin and Emergence of SARS-CoV-2 | Cell

The ongoing pandemic of a new human coronavirus, SARS-CoV-2, has generated enormous global concern. We and others in China were involved in the initial genome sequencing of the virus. Herein, we describe what genomic data reveal about the emergence of SARS-CoV-2.

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Zhang YZ, Holmes EC.

[Lien original](#)

A Survey of 434 Clinical Trials About Coronavirus Disease 2019 in China | J Med Virol.

2020 Mar 27 [Online ahead of print] A Survey of 434 Clinical Trials About Coronavirus Disease 2019 in China

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Leng Z, Yin D, Zhao Z, Yan M, Yang Y, He X, et al.

[Lien original](#)

Alcohol Consumption in the Covid-19 Era | Minerva Gastroenterologica e Dietologica

2020 Mar 27 [Online ahead of print] Alcohol Consumption in the Covid-19 Era

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Testino G, Pellicano R.

[Lien original](#)

Are Certain Drugs Associated With Enhanced Mortality in COVID-19? | QJM: An International Journal of Medicine

Prevalent comorbidities for the development of severe pneumonia requiring intensive care unit treatment, acute respiratory distress syndrome (ARDS), and death from Coronavirus disease 2019 (COVID-19) include hypertension, diabetes and cardiovascular disease. We posit that drugs commonly used in the treatment of those comorbidities may actually increase the risk of severe pneumonia, ARDS and mortality in the setting of COVID-19;

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Goldstein MR, Poland GA, Graeber CW.

[Lien original](#)

Asymptomatic and Human-to-Human Transmission of SARS-CoV-2 in a 2-Family Cluster, Xuzhou, China | Emerging Infectious Disease journal

We report epidemiologic, laboratory, and clinical findings for 7 patients with 2019 novel coronavirus disease in a 2-family cluster. Our study confirms asymptomatic and human-to-human transmission through close contacts in familial and hospital settings. These findings might also serve as a practical reference for clinical diagnosis and medical treatment.

[cdc.gov \(e-date: 30/03/2020\)](#)

Chunyang L, Fang J, Liang W, Liping W, Jungui H, Mingjia D, et al.

[Lien original](#)

Can Companion Animals Become Infected With Covid-19? | Vet Rec.

2020 Mar 28 Can Companion Animals Become Infected With Covid-19?

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Almendros A.

[Lien original](#)

Characterization of Spike Glycoprotein of SARS-CoV-2 on Virus Entry and Its Immune Cross-Reactivity With SARS-CoV | Nat Commun.

2020 Mar 27 Characterization of Spike Glycoprotein of SARS-CoV-2 on Virus Entry and Its Immune Cross-Reactivity With SARS-CoV

Since 2002, beta coronaviruses (CoV) have caused three zoonotic outbreaks, SARS-CoV in 2002-2003, MERS-CoV in 2012, and the newly emerged SARS-CoV-2 in late 2019. However, little is currently known about the biology of SARS-CoV-2. Here, using SARS-CoV-2 S protein pseudovirus system, we confirm that human angiotensin converting enzyme 2 (hACE2) is the receptor

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Ou X, Liu Y, Lei X, Li P, Mi D, Ren L, et al.

[Lien original](#)

Clinical Analysis of Pregnant Women With 2019 Novel Coronavirus Pneumonia | J Med Virol.

Objective: To evaluate the pregnant women infected with coronavirus disease 2019 (COVID-19) and provide help for clinical prevention and treatment.

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Chen S, Liao E, Shao Y.

[Lien original](#)

Clinical and CT Features of Early-Stage Patients With COVID-19: A Retrospective Analysis of Imported Cases in Shanghai, China | Eur Respir J.

Since December 2019, some patients with novel corona virus infectious disease (COVID-19) emerged in Wuhan, Hubei, China [Research letter]

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Yang S, Shi Y, Lu H, Xu J, Li F, Qian Z, et al.

[Lien original](#)

Consensus Guidelines for Managing the Airway in Patients With COVID-19 | Anaesthesia

Severe acute respiratory syndrome-corona virus-2 (SARS-CoV-2), which causes coronavirus disease 2019 (COVID-19), is highly contagious. Airway management of patients with COVID-19 is high risk to staff and patients. We aimed to develop principles for airway management of patients with COVID-19 to encourage safe, accurate and swift performance.

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Cook TM, El-Boghdady K, McGuire B, McNarry AF, Patel A, Higgs A.

[Lien original](#)

Coronavirus and a Greener Future | British dental journal

[Editorial]

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Hancocks Obe S.

[Lien original](#)

Coronavirus Disease 2019 (COVID-19) Outbreak: Could Pigs Be Vectors for Human Infections? | Xenotransplantation

2020 Mar 28 [Online ahead of print] No abstract available

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Opriessnig T, Huang YW.

[Lien original](#)

Coronavirus Uses as Binding Site in Humans Angiotensin-Converting Enzyme 2 Functional Receptor That Is Involved in Arterial Blood Pressure Control and Fibrotic Response to Damage and Is a Drug Target in

Cardiovascular Disease. Is This Just a Phylogenetic Coincidence? | J Med Virol.

2020 Mar 26 [Online ahead of print] I read with great interest the paper published ahead-of-print in the Journal of Medical Virology by Liu et al on comparisons of the spike sequences between severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and SARS-CoV, bat SARS-like CoV, and other coronaviruses, supporting the fact that snakes, pangolins, also turtles may act as potential intermediate hosts that transmit SARS-CoV-2 to humans. [Letter to the Editor]

pubmed.ncbi.nlm.nih.gov (e-date: 29/03/2020)

Ciulla MM.

[Lien original](#)

COVID-19 Drives New Threat to Bats in China | Science

2020 Mar 27 COVID-19 Drives New Threat to Bats in China [Letter]

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Zhao H.

[Lien original](#)

COVID-19 Global Pandemic: Options for Management of Gynecologic Cancers | International journal of gynecological cancer

2020 Mar 27 [Online ahead of print] COVID-19 Global Pandemic: Options for Management of Gynecologic Cancers [Editorial]

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Ramirez PT, Chiva L, Eriksson AGZ, Frumovitz M, Fagotti A, Gonzalez Martin A, et al.

[Lien original](#)

COVID-19 in a Long-Term Care Facility - King County, Washington, February 27-March 9, 2020 | MMWR Morb Mortal Wkly Rep.

Introduction of COVID-19 into a long-term residential care facility in Washington resulted in cases among 81 residents, 34 staff members, and 14 visitors; 23 persons died. Limitations in effective infection control and prevention and staff members working in multiple facilities contributed to intra- and interfacility spread.

pubmed.ncbi.nlm.nih.gov (e-date: 29/03/2020)

McMichael TM, Clark S, Pogosjans S, Kay M, Lewis J, Baer A, et al.

[Lien original](#)

COVID-19 in the Pediatric Population | Dermatologic therapy.

2020 Mar 27 [Online ahead of print] COVID-19 in the Pediatric Population [Letter to the Editor]

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Abdelmaksoud A, Kroumpouzou G, Jafferany M, Lotti T, Sadoughifar R, Goldust M.

[Lien original](#)

COVID-19 Outbreak and Inflammatory Bowel Disease Management: A Questionnaire Survey From Realistic Practice | Journal of Crohn's & colitis

"Under the special condition over the last 2 months, we adopted new methods of communication for follow up such as mobile communication applications, distance text consultation, hotline and telehealth. Also, we referred patients with severe active IBD to local specialists through our professional network. In the last two months, we sent out questionnaires to our patients through emails, mobile communication applications and text message (approved by Ethics Committee of Peking Union Medical College Hospital) to monitor patient's progress. We received 125 effective responses in total."

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Bai X, Yang H, Qian J.

[Lien original](#)

COVID-19 Outbreak and Surgical Practice: Unexpected Fatality in Perioperative Period | Ann Surg.

Little is known about surgical practice in the initial phase of coronavirus disease 2019 (COVID-19) global crisis. This is a retrospective case series of 4 surgical patients (cholecystectomy, hernia repair, gastric bypass, and hysterectomy) who developed perioperative complications

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Aminian A, Safari S, Razeghian-Jahromi A, Ghorbani M, Delaney CP.

[Lien original](#)

COVID-19 Positive Test Result From Private Hospital Laboratory, Neglecting on Reporting and Problem on National Infection Control | Infect Control Hosp Epidemiol.

2020 Mar 27 [Online ahead of print] COVID-19 Positive Test Result From Private Hospital Laboratory, Neglecting on Reporting and Problem on National Infection Control

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

Sriwijitalai W, Wiwanitkit V.

[Lien original](#)

Detection of Serum Immunoglobulin M and Immunoglobulin G Antibodies in 2019-novel Coronavirus Infected Cases From Different Stages| Chin Med J (Engl).

2020 Mar 26 [Online ahead of print] Detection of Serum Immunoglobulin M and Immunoglobulin G Antibodies in 2019-novel Coronavirus Infected Cases From Different Stages

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

Diabetes Patients With COVID-19 Need Better Care | Metabolism

2020 Mar 24 [Online ahead of print] Diabetes Patients With COVID-19 Need Better Care

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

Does Hand Hygiene Reduce SARS-CoV-2 Transmission? | Graefes Arch Clin Exp Ophthalmol.

2020 Mar 27 [Online ahead of print] Does Hand Hygiene Reduce SARS-CoV-2 Transmission?

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

Early in the Epidemic: Impact of Preprints on Global Discourse About COVID-19 Transmissibility | Lancet Glob Health

2020 Mar 24 [Online ahead of print] Early in the Epidemic: Impact of Preprints on Global Discourse About COVID-19 Transmissibility

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

Epidemiology of Covid-19. Reply | New England journal of medicine

2020 Mar 27 [Online ahead of print] Epidemiology of Covid-19. Reply

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

Facing Up to the Uncertainties of COVID-19 | Nat Hum Behav.

2020 Mar 27 [Online ahead of print] Facing Up to the Uncertainties of COVID-19

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

Familial Cluster of COVID-19 Infection From an Asymptomatic | Crit Care.

2020 Mar 27 Familial Cluster of COVID-19 Infection From an Asymptomatic

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Featuring COVID-19 Cases via Screening Symptomatic Patients With Epidemiologic Link During Flu Season in a Medical Center of Central Taiwan | J Microbiol Immunol Infect.

2020 Mar 13 [Online ahead of print] Featuring COVID-19 Cases via Screening Symptomatic Patients With Epidemiologic Link During Flu Season in a Medical Center of Central Taiwan

Background: Coronavirus disease 2019 (COVID-19), caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), was first reported in Wuhan, Hubei province, China has now rapidly spread over 50 countries. For the prevention

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

High-Resolution Computed Tomography Manifestations of 5 Pediatric Patients With 2019 Novel Coronavirus | Journal of computer assisted tomography

2020 Mar 25 [Online ahead of print] High-Resolution Computed Tomography Manifestations of 5 Pediatric Patients With 2019 Novel Coronavirus

We present clinical and chest computed tomography (CT) features of 5 cases of pediatric patients with 2019 novel coronavirus. Two patients had fever and dry cough, whereas the rest of 3 patients were asymptomatic. Three patients had unilateral ground glass opacities with or without consolidation in the subpleural region on

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Liu M, Song Z, Xiao K.

[Lien original](#)

How Behavioural Science Data Helps Mitigate the COVID-19 Crisis | Nat Hum Behav.

2020 Mar 27 [Online ahead of print] How Behavioural Science Data Helps Mitigate the COVID-19 Crisis

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Initial Clinical Impressions of the Critical Care of COVID-19 Patients in Seattle, New York City, and Chicago | Anesthesia and analgesia.

2020 Mar 25 [Online ahead of print] Initial Clinical Impressions of the Critical Care of COVID-19 Patients in Seattle, New York City, and Chicago

the first recognition of a cluster of novel respiratory viral infections in China in late December, 2019, intensivists in the United States have watched with growing concern as infections with the SARS-CoV-2 virus-now named Coronavirus disease of 2019 (COVID-19) -have spread to hospitals in the United States (US). Because COVID-19 is extremely transmissible and can progress to a severe form of respiratory failure

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Initial Experience of an Emergency Department in Shenzhen in Responding to the Emerging Wuhan Coronavirus Pneumonia | Annals of emergency medicine.

Initial Experience of an Emergency Department in Shenzhen in Responding to the Emerging Wuhan Coronavirus Pneumonia

Learning From History: Coronavirus Outbreaks in the Past | Dermatologic therapy

2020 Mar 28 [Online ahead of print] Learning From History: Coronavirus Outbreaks in the Past
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Minimally Invasive Surgery and the Novel Coronavirus Outbreak: Lessons Learned in China and Italy | Ann Surg.

2020 Mar 26 [Online ahead of print] Minimally Invasive Surgery and the Novel Coronavirus Outbreak: Lessons Learned in China and Italy
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Neuraxial Procedures in COVID-19 Positive Parturients: A Review of Current Reports | Anesthesia and analgesia

2020 Mar 26 [Online ahead of print] Neuraxial Procedures in COVID-19 Positive Parturients: A Review of Current Reports
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

No time for dilemma: mass gatherings must be suspended | The Lancet

[Correspondence] The coronavirus disease 2019 (COVID-19) pandemic places unprecedented pressure on societies and health-care systems around the world. This first pandemic of the 21st century demands internationally unified, cogent, and
The main public health preventive advice focuses on hand hygiene and social distancing. The latter is impossible to enforce at mass gatherings. We found the Comment by Brian McCloskey and colleagues, advocating formal risk assessments with a view to permitting mass gatherings in the time of COVID-19, puzzling at the very least.
thelancet.com (e-date: 30/03/2020)
[Lien original](#)

Non-steroidal anti-inflammatory drugs and covid-19 | BMJ

[Editorials] Emerging evidence suggests that the most serious complications of covid-19 are sepsis and cardiovascular or respiratory complications. They occur predominantly in elderly people and those with underlying health conditions.¹ Does use of non-steroidal anti-inflammatory drugs
www.bmj.com (e-date: 30/03/2020)
[Lien original](#)

Older Clinicians and the Surge in Novel Coronavirus Disease 2019 (COVID-19) | JAMA | JAMA Network

The recent report of 2 critically ill emergency physicians infected by the novel coronavirus disease 2019 (COVID-19) is a sobering reminder of the vulnerability of the nation's health care workforce.
jamanetwork.com (e-date: 30/03/2020)
[Lien original](#)

Optimizing the Trade-off Between Learning and Doing in a Pandemic | JAMA | JAMA Network

The world is united regarding the goal of ending the coronavirus disease 2019 (COVID-19) pandemic but not the strategy to achieve that goal. One stark example is the debate over whether

to prescribe available therapies, such as quinine-based antimalarial drugs
jamanetwork.com (e-date: 30/03/2020)
[Lien original](#)

Organ-protective Effect of Angiotensin-converting Enzyme 2 and Its Effect on the Prognosis of COVID-19 | J Med Virol

This article reviews the correlation between ACE2 and severe risk factors for COVID-19 and the possible mechanisms. Angiotensin-converting enzyme 2 (ACE2) is a crucial component of the renin-angiotensin system (RAS). The classical RAS ACE-Ang II-AT1R regulatory axis and the ACE2-Ang1-7

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Papa Giovanni XXIII Bergamo Hospital at the Time of the COVID-19 Outbreak: Letter From the Warfront | International journal of laboratory hematology

2020 Mar 28 [Online ahead of print] Papa Giovanni XXIII Bergamo Hospital at the Time of the COVID-19 Outbreak: Letter From the Warfront

In early December 2019, the 2019 novel coronavirus (COVID-19) was identified as the agent responsible for the first pneumonia cases of unknown origin in Wuhan, the capital of the Hubei region in China. The virus has been identified as a novel enveloped

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Physical Exercise as Therapy to Fight Against the Mental and Physical Consequences of COVID-19 Quarantine: Special Focus in Older People | Prog Cardiovasc Dis

2020 Mar 24 [Online ahead of print] Physical Exercise as Therapy to Fight Against the Mental and Physical Consequences of COVID-19 Quarantine: Special Focus in Older People

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Possible Method for the Production of a Covid-19 Vaccine | Vet Rec

2020 Mar 28 Possible Method for the Production of a Covid-19 Vaccine

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Posttraumatic Stress Symptoms and Attitude Toward Crisis Mental Health Services Among Clinically Stable Patients With COVID-19 in China | Psychological medicine

2020 Mar 27 [Online ahead of print] Posttraumatic Stress Symptoms and Attitude Toward Crisis Mental Health Services Among Clinically Stable Patients With COVID-19 in China

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Practical Considerations in the Anaesthetic Management of Patients During a COVID-19 Epidemic | Anaesthesia

We read with interest the excellent Association guidelines [1] for the anaesthetic management of patients during a COVID-19 outbreak. We concur with these guidelines, which are not dissimilar to our hospital's protocols since Singapore reported its first case of COVID-19 on 23 January 2020. To date, there have been 226 confirmed

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Quantitative Detection and Viral Load Analysis of SARS-CoV-2 in Infected Patients | Clinical Infectious Diseases

Background: Coronavirus disease 2019 (COVID-19) has become a public health emergency. The widely used reverse transcription PCR (RT-PCR) method has limitations for clinical diagnosis and treatment.

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Race to Find COVID-19 Treatments Accelerates | Science

2020 Mar 27 Race to Find COVID-19 Treatments Accelerates

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Reflections on Nursing Ingenuity During the COVID-19 Pandemic | The Journal of neuroscience nursing

This reflections article provides insight toward nursing innovations to reduce the overuse of personal protective equipment while maintaining a safe environment for staff taking care of COVID-19 patients. The secondary aim of this paper to capitalize on recent advances in mass electronic communication through social media to encourage nurses across the globe to share their knowledge and expertise

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

SARS-CoV-2 and HIV

2020 Mar 27 [Online ahead of print] To the Editor

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

SARS-CoV-2 Infection in a Pediatric Department in Milan: A Logistic Rather Than a Clinical Emergency | Pediatr Infect Dis J.

2020 Mar 25 [Online ahead of print] SARS-CoV-2 Infection in a Pediatric Department in Milan: A Logistic Rather Than a Clinical Emergency

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Sars-Cov-2: Underestimated Damage to Nervous System | Travel Med Infect Dis.

2020 Mar 24 [Online ahead of print] Sars-Cov-2: Underestimated Damage to Nervous System

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Seven Tips to Manage Your Mental Health and Well-Being During the COVID-19 Outbreak | Nature

2020 Mar 26 [Online ahead of print] Seven Tips to Manage Your Mental Health and Well-Being During the COVID-19 Outbreak

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Should Scientists Infect Healthy People With the Coronavirus to Test Vaccines? | Nature

2020 Mar 26 [Online ahead of print] Should Scientists Infect Healthy People With the Coronavirus to Test Vaccines?

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Simulation as a Tool for Assessing and Evolving Your Current Personal Protective Equipment: Lessons Learned During the Coronavirus Disease (COVID-19) Pandemic | Can J Anaesth.

2020 Mar 27 [Online ahead of print] Simulation as a Tool for Assessing and Evolving Your Current Personal Protective Equipment: Lessons Learned During the Coronavirus Disease (COVID-19) Pandemic

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Sound Science Before Quick Judgement Regarding RAS Blockade in COVID-19 | Clin J Am Soc Nephrol.

There has been much speculation in journals as well as social and traditional media about a link between popularly used classes of drugs that inhibit the renin-angiotensin system (RAS) and novel coronavirus (severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2]) infection or coronavirus disease 2019 (COVID-19) disease severity

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Special Attention to Nurses' Protection During the COVID-19 Epidemic | Crit Care.

2020 Mar 27 Special Attention to Nurses' Protection During the COVID-19 Epidemic

As of March 8, 2020, the novel coronavirus disease 2019 (COVID-19) had caused 80,815 human infections and 3073 deaths in China, including more than 3000 infections among medical staff.

Guangdong Second Provincial General Hospital (Guangzhou, Guangdong)

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Spotlight on Jails: COVID-19 Mitigation Policies Needed Now | Clinical Infectious Diseases.

2020 Mar 28 [Online ahead of print] Spotlight on Jails: COVID-19 Mitigation Policies Needed Now

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Strange Days | Medical education

As people around the globe grapple with the COVID-19 pandemic it is difficult to know what to write in this space. Given publication lags, academic periodicals like Medical Education are a terrible place for "news" at the best of times. Our recently started

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Strategies for the Prevention and Management of Coronavirus Disease 2019 | Eur Respir J.

Early protection, early identification, early diagnosis, and early isolation are crucial to combat with Covid-19 outbreaks

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

The Host's Angiotensin-Converting Enzyme Polymorphism May Explain Epidemiological Findings in COVID-19 Infections | Clin Chim Acta.

2020 Mar 24 [Online ahead of print] The Host's Angiotensin-Converting Enzyme Polymorphism May Explain Epidemiological Findings in COVID-19 Infections

Keywords: COVID-19; angiotensin-converting enzyme; polymorphism.

The Impact of COVID-19 on Radiology Trainees | Radiology

2020 Mar 27 [Online ahead of print] The Impact of COVID-19 on Radiology Trainees

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

The Italian COVID-19 Outbreak: Experiences and Recommendations From Clinical Practice | Anaesthesia

Novel coronavirus 2019 is a single-stranded, ribonucleic acid virus that has led to an international pandemic of coronavirus disease 2019 (COVID-19). Clinical data from the Chinese outbreak have been reported, but experiences

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

The Looming Pandemic of COVID-19: What Therapeutic Options Do We Have Now? | J Chin Med Assoc

2020 Mar 26 [Online ahead of print] The Looming Pandemic of COVID-19: What Therapeutic Options Do We Have Now?

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Therapeutic Opportunities to Manage COVID-19/SARS-CoV-2 Infection: Present and Future | Indian J Ophthalmol.

A severe form of respiratory disease - COVID-19, caused by SARS-CoV-2 infection, has evolved into a pandemic resulting in significant morbidity and mortality. The unabated spread of the disease is due to lack of vaccine and effective therapeutic agents

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Use of in Situ Simulation to Evaluate the Operational Readiness of a High Consequence Infectious Disease Intensive Care Unit | Anaesthesia

On 30 January 2020, the World Health Organization declared that the outbreak of a coronavirus disease-2019 (COVID-19) was a Public Health Emergency of International Concern. The WHO guidance states that patients with COVID-19 should be managed by staff wearing appropriate personal protective equipment

Keywords: COVID-19; coronavirus; intensive care medicine; simulation.

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

With COVID-19, Modeling Takes on Life and Death Importance | Science

2020 Mar 27 With COVID-19, Modeling Takes on Life and Death Importance

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Is Pakistan Prepared to Tackle the Coronavirus Epidemic? | Drugs & therapy perspectives

2020 Mar 20 [Online ahead of print] Is Pakistan Prepared to Tackle the Coronavirus Epidemic?

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Clinical Features and Obstetric and Neonatal Outcomes of Pregnant Patients With COVID-19 in Wuhan, China: A Retrospective, Single-Centre,

Descriptive Study | Lancet Infect Dis.

Background: In December, 2019, coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) emerged in Wuhan, China. The number of affected pregnant women is increasing, but scarce information is available about
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

Could Sars-coronavirus-2 Trigger Autoimmune and/or Autoinflammatory Mechanisms in Genetically Predisposed Subjects? | Autoimmun Rev.

2020 Mar 24 [Online ahead of print] Could Sars-coronavirus-2 Trigger Autoimmune and/or Autoinflammatory Mechanisms in Genetically Predisposed Subjects?
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

The Italian Health System and the COVID-19 Challenge | The Lancet Public health

2020 Mar 25 [Online ahead of print] The Italian Health System and the COVID-19 Challenge
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

The Role of CT in Case Ascertainment and Management of COVID-19 Pneumonia in the UK: Insights From High-Incidence Regions | Lancet Respir Med

2020 Mar 25 [Online ahead of print] The Role of CT in Case Ascertainment and Management of COVID-19 Pneumonia in the UK: Insights From High-Incidence Regions
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

[Sommaire](#)

ARTICLES EN CHINOIS (résumé en anglais)

[Follow-up Testing of Viral Nucleic Acid in Discharged Patients With Moderate Type of 2019 Coronavirus Disease (COVID-19)]

2020 May 25 [Follow-up Testing of Viral Nucleic Acid in Discharged Patients With Moderate Type of 2019 Coronavirus Disease (COVID-19)]
Objective: To investigate the clinical outcome of patients with moderate type of corona virus disease 2019 (COVID-19) after discharge by retesting viral nucleic acid.
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

[Challenges to Prevent and Control the Outbreak of Novel Coronavirus Pneumonia (COVID-19)]

2020 Mar 28 [Online ahead of print] [Challenges to Prevent and Control the Outbreak of Novel Coronavirus Pneumonia (COVID-19)]
An outbreak of severe pneumonia of unknown cause was reported in December 2019 in Wuhan, Hubei Province, China. The infectious virus was soon identified and named as 2019 novel coronavirus (2019-nCoV). The name of the coronavirus infectious disease (COVID-19) was given by WHO on 11 February 2020. It has so far caused about 118 000 cases in 114 countries including China and was characterized
pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)
[Lien original](#)

[Clinical and Coagulation Characteristics of 7 Patients With Critical COVID-2019 Pneumonia and Acro-Ischemia]

Objective: To investigate the clinical and coagulation characteristics of the critical Coronavirus disease 2019 (COVID-19) patients with acro-ischemia in the intensive care unit (ICU). Methods: The retrospective study included 7 critical COVID-19 patients with acro-ischemia in a single center in Wuhan

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

[Management of a Colon Cancer Patient Infected With Corona Virus Disease 2019]

Objective: To explore the feasibility of surgical treatment for cancer patients complicated with corona virus disease 2019 (COVID-19).

Methods: The management and clinical outcome of a sigmoid cancer patient with COVID-19 were analyzed.

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

[Sommaire](#)

ARTICLES EN ALLEMAND (résumé en anglais)

[Dealing With Psychological Distress by Healthcare Professionals During the COVID-19 Pandemia]

2020 Mar 27 [Online ahead of print] [Dealing With Psychological Distress by Healthcare Professionals During the COVID-19 Pandemia]

Background: In the current COVID-19 pandemia, health workers from all professions are facing great challenges in coping with the crisis. In this situation health professionals are confronted with specific stressors and risks not only for the physical but also for the mental health.

[pubmed.ncbi.nlm.nih.gov \(e-date: 30/03/2020\)](#)

[Lien original](#)

[Sommaire](#)

PREPRINTS

A considerable proportion of individuals with asymptomatic SARS-CoV-2 infection in Tibetan population

A considerable proportion of individuals with asymptomatic SARS-CoV-2 infection in Tibetan population

Severe acute respiratory syndrome coronavirus 2 (SARS-Cov-2) quickly became a major epidemic threat in the whole China. We analysed SARS-Cov-2 infected cases from Tibetan Autonomous Prefecture, and noted divergent characteristics of these Tibetans infected

[www.medrxiv.org \(e-date: 31/03/2020\)](#)

[Lien original](#)

A COVID-19 Infection Risk Model for Frontline Health Care Workers

A COVID-19 Infection Risk Model for Frontline Health Care Workers

The number of confirmed COVID-19 cases admitted in hospitals is continuously increasing in the Philippines. Frontline health care workers are faced with imminent risks of getting infected. In this study, we formulate a theoretical model

A Genomic Survey of SARS-CoV-2 Reveals Multiple Introductions into Northern California without a Predominant Lineage

A Genomic Survey of SARS-CoV-2 Reveals Multiple Introductions into Northern California without a Predominant Lineage

The COVID-19 pandemic caused by the novel coronavirus SARS-CoV-2 has spread globally, resulting in >300,000 reported cases worldwide as of March 21st, 2020. Here we investigate the genetic diversity and genomic epidemiology

www.medrxiv.org (e-date: 31/03/2020)
[Lien original](#)

A mathematical model of COVID-19 transmission between frontliners and the general public

A mathematical model of COVID-19 transmission between frontliners and the general public

The number of COVID-19 cases is continuously increasing in different countries (as of March 2020) including the Philippines. It is estimated that the basic reproductive number of COVID-19 is around 1.5 to 4. The basic reproductive

www.medrxiv.org (e-date: 30/03/2020)
[Lien original](#)

A model to estimate regional demand for COVID-19 related hospitalizations

A model to estimate regional demand for COVID-19 related hospitalizations

COVID-19 has quickly become a global pandemic that threatens to overwhelm hospital facilities throughout the United States. In order to aid community and hospital leaders, we created an interactive, quantitative

www.medrxiv.org (e-date: 30/03/2020)
[Lien original](#)

A modified SEIR model to predict the COVID-19 outbreak in Spain: simulating control scenarios and multi-scale epidemics

A modified SEIR model to predict the COVID-19 outbreak in Spain: simulating control scenarios and multi-scale epidemics

After the spread of SARS-CoV-2 epidemic out of China, evolution in the pandemic worldwide shows dramatic differences among countries. In Europe, the situation of Italy first and later Spain has generated great concern, and despite

www.medrxiv.org (e-date: 30/03/2020)
[Lien original](#)

A Multi-hospital Study in Wuhan, China: Protective Effects of Non-menopause and Female Hormones on SARS-CoV-2 infection

A Multi-hospital Study in Wuhan, China : Protective Effects of Non-menopause and Female Hormones on SARS-CoV-2 infection

Objective To determine the correlation between menstruation status/sex hormones and prognosis of COVID-19, and to identify potential protective factors for female patients. Design, Setting, and Participants A cross-sectional study of COVID-19 patients who were hospitalized at Tongji and Mobile Cabin Hospitals

www.medrxiv.org (e-date: 31/03/2020)
[Lien original](#)

A prospect on the use of antiviral drugs to control local outbreaks of COVID-19

A prospect on the use of antiviral drugs to control local outbreaks of COVID-19

Background: Current outbreaks of COVID-19 are threatening the health care systems of several countries around the world. Control measures, based on isolation and quarantine, have been shown to decrease and delay the burden of the ongoing epidemic

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Causal empirical estimates suggest COVID-19 transmission rates are highly seasonal

Causal empirical estimates suggest COVID-19 transmission rates are highly seasonal

Nearly every country is now combating the 2019 novel coronavirus (COVID-19). It has been hypothesized that if COVID-19 exhibits seasonality, changing temperatures in the coming months will shift transmission patterns around the world. Such projections, however, require

www.medrxiv.org (e-date: 31/03/2020)

[Lien original](#)

Changing transmission dynamics of COVID-19 in China: a nationwide population-based piecewise mathematical modelling study

Changing transmission dynamics of COVID-19 in China: a nationwide population-based piecewise mathematical modelling study

Background: The first case of COVID-19 atypical pneumonia was reported in Wuhan, China on December 1, 2019. Since then, at least 33 other countries have been affected and there is a possibility of a global outbreak. A tremendous amount of

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Clear plastic drapes may be effective at limiting aerosolization and droplet spray during extubation: implications for COVID-19

Clear plastic drapes may be effective at limiting aerosolization and droplet spray during extubation: implications for COVID-19

is a limited resource and often requires providers to be adaptive and resourceful in a crisis. The inexpensive and simple method of using clear drapes during extubation (and possibly intubation) of COVID-19 patients may be considered by frontline HCPs and infection control specialists as an additional precaution. Modifications of the clear plastics can be adapted for surgical procedures that may be AGMPs

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Climate effect on COVID-19 spread rate: an online surveillance tool

Climate effect on COVID-19 spread rate: an online surveillance tool

Background: COVID-19 outbreak poses an unprecedented challenge for societies, healthcare organizations and economies. In the present analysis we coupled climate data with COVID-19 spread rates worldwide, and in a single country

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[Lien original](#)

Clinical and Paraclinical Characteristics of COVID-19 patients: A systematic review and meta-analysis

Clinical and Paraclinical Characteristics of COVID-19 patients: A systematic review and meta-analysis

Introduction: Recently, a new strain of coronaviruses, which originated from Wuhan City, Hubei Province, China has been identified. According to the high prevalence of new coronavirus, further investigation on the clinical and paraclinical features of this disease seems essential. Hence, we carried out this systematic review and meta-analysis to figure out the unknown features. Methods

Clinical characteristics associated with COVID-19 severity in California

Clinical characteristics associated with COVID-19 severity in California

Given the rapidly progressing COVID-19 pandemic, this report on a US cohort of 54 COVID-19 patients from Stanford Hospital and data regarding risk factors for severe disease obtained at initial clinical presentation is of high importance and

www.medrxiv.org (e-date: 31/03/2020)

[Lien original](#)

Clinical characteristics of the recovered COVID-19 patients with re-detectable positive RNA test

Clinical characteristics of the recovered COVID-19 patients with re-detectable positive RNA test

Background It has been reported that several cases recovered from COVID-19 tested positive for SARS-CoV-2 after discharge (re-detectable positive, RP), however the clinical characteristics, significance and potential cause of RP patients remained elusive. Methods A total of 262

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Comparative Genomic Analysis of Rapidly Evolving SARS CoV-2 Viruses Reveal Mosaic Pattern of Phylogeographical Distribution

Comparative Genomic Analysis of Rapidly Evolving SARS CoV-2 Viruses Reveal Mosaic Pattern of Phylogeographical Distribution

The Coronavirus disease -19 (COVID19) that started in Wuhan, China in December 2019 has spread worldwide emerging as a global pandemic. The severe respiratory pneumonia caused by the novel SARS-CoV-2 has so far claimed

www.biorxiv.org (e-date: 30/03/2020)

[Lien original](#)

Correlation between hypophosphatemia and the severity of Corona Virus Disease 2019 patients

Objective: Retrospectively analyze the clinical data of Corona Virus Disease 2019 (COVID-19) patients and explore the value of serum phosphorus level in evaluating the severity and prognosis of the disease. Methods: COVID-19 patients transferred from the first emergency ward of Taiyuan fourth

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

COVID-19 Modelling: the Effects of Social Distancing

COVID-19 Modelling: the Effects of Social Distancing

The purpose of this article is to reach all those who find it difficult to become well informed about the repercussions of a lockdown strategy to tackle the COVID-19 pandemic and to spark discussion and thought. Here we use simple stochastic simulations to evaluate different approaches taken to tackle the crisis, along with the efficiency they will hold and the number

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COVID-19: Projecting the impact in Rohingya refugee camps and beyond

COVID-19: Projecting the impact in Rohingya refugee camps and beyond

Background: COVID-19 could have even more dire consequences among refugees living in camps than in general populations. Bangladesh has confirmed COVID-19 cases and hosts almost 1 million Rohingya refugees from Myanmar with

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Disposable N95 Masks Pass Qualitative Fit-Test But Have Decreased Filtration Efficiency after Cobalt-60 Gamma Irradiation

The current COVID-19 pandemic has led to a dramatic shortage of masks and other personal protective equipment (PPE) in hospitals around the globe. One component of PPE that is in particular demand are disposable N95 face

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Dynamic Modeling to Identify Mitigation Strategies for Covid-19 Pandemic

Dynamic Modeling to Identify Mitigation Strategies for Covid-19 Pandemic

strategies. The model consists of a set of simple differential equations considering the population size, reported and unreported infections, reported and unreported recoveries and the number of Covid-19-inflicted deaths. For simplification, we assume that Covid-19 survivors are immune (e.g. mutations are not considered) and that the virus can only be passed on by persons with undetected infections. While

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Elementary time-delay dynamics of COVID-19 disease

Elementary time-delay dynamics of COVID-19 disease

An elementary model of COVID-19 dynamics, based on time-delay differential equations with a step-like survival function, is shown to be in good agreement with data from China and South Korea. The time-delay approach overcomes the major

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[Lien original](#)

Estimation of protection for COVID-19 in children from epidemiological information and estimate effect of policy in Japan

Estimation of protection for COVID-19 in children from epidemiological information and estimate effect of policy in Japan

Background: Incidence in children was much less than in adults during the COVID-19 outbreak. Sports and entertainment events were canceled (VEC) in Japan for two weeks during 26 February - 13 March. Most schools were closed (SC). Object: We construct a susceptible-infected-recovered

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Evaluation of Group Testing for SARS-CoV-2 RNA

Evaluation of Group Testing for SARS-CoV-2 RNA

During the current COVID-19 pandemic, testing kit and RNA extraction kit availability has become a major limiting factor in the ability to determine patient disease status and accurately quantify prevalence. Current testing strategies

www.medrxiv.org (e-date: 31/03/2020)

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Failed detection of the full-length genome of SARS-CoV-2 by ultra-deep sequencing from the recovered and discharged patients retested viral PCR positive

Failed detection of the full-length genome of SARS-CoV-2 by ultra-deep sequencing from the recovered and discharged patients retested viral PCR positive

Over 10 percent of recovered and discharged patients retested positive for SARS-CoV-2, raising a

public health concern whether they could be potential origins of infection. In this study, we found that detectable viral genome in discharged patients might only mean the presence of viral
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[Lien original](#)

Forecasting COVID-19 impact on hospital bed-days, ICU-days, ventilator-days and deaths by US state in the next 4 months

Forecasting COVID-19 impact on hospital bed-days, ICU-days, ventilator-days and deaths by US state in the next 4 months

IHME COVID-19 health service utilization forecasting team , Christopher JL Murray

www.medrxiv.org (e-date: 31/03/2020)

[Lien original](#)

General Model for COVID-19 Spreading with Consideration of Intercity Migration, Insufficient Testing and Active Intervention: Application to Study of Pandemic Progression in Japan and USA

General Model for COVID-19 Spreading with Consideration of Intercity Migration, Insufficient Testing and Active Intervention: Application to Study of Pandemic Progression in Japan and USA

A new Susceptible-Exposed-Infected-Confirmed-Removed (SEICR) model with consideration of intercity travel and active intervention is proposed for predicting the spreading progression of the 2019 New Coronavirus Disease (COVID-19). The model takes into account the known or reported number of infected cases being fewer than the actual number of infected individuals due to insufficient testing. The model integrates

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Global, Regional and National Incidence and Case-fatality rate of Novel Coronavirus (COVID-19) across 154 countries and territories: A systematic assessment of cases reported from January to March 16, 2020

Posted March 30, 2020.

Global, Regional and National Incidence and Case-fatality rate of Novel Coronavirus (COVID-19) across 154 countries and territories: A systematic assessment of cases reported from January to March 16, 2020

View ORCID ProfileAkshaya Srikanth Bhagavathula, Jamal Rahmani, View ORCID ProfileWafa Ali Aldhaleei, View ORCID ProfileAlessandro Rovetta

doi: <https://doi.org/10.1101/2020.03.26.20044743>

Abstract

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Government Responses Matter: Predicting Covid-19 cases in US under an empirical Bayesian time series framework

Government Responses Matter: Predicting Covid-19 cases in US under an empirical Bayesian time series framework

Since the Covid-19 outbreak, researchers have been predicting how the epidemic will evolve, especially the number in each country, through using parametric extrapolations based on the history. In reality, the epidemic

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

In search for the hotspots of Disease X: A biogeographic approach to mapping the predictive risk of WHO s Blueprint Priority Diseases

Anthropization of natural habitats including climate change along with overpopulation and global

travel have been contributing to emerging infectious diseases outbreaks. The recent COVID-19 outbreak in Wuhan, highlights such threats to human health, social stability and global trade and economy. We used species distribution modelling and environmental data from satellite imagery to model

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[Lien original](#)

Inclusive Costs of NPI Measures for COVID-19 Pandemic: Three Approaches

Inclusive Costs of NPI Measures for COVID-19 Pandemic: Three Approaches

The paper evaluates total inclusive costs of three public health approaches to address the COVID-19 epidemic in the US based on epidemiological projections in Ferguson et al (2020). We calculate and add costs of lost productivity and costs of mortality measured through the value of statistical life

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[Lien original](#)

In-flight Transmission Cluster of COVID-19: A Retrospective Case Series

In-flight Transmission Cluster of COVID-19: A Retrospective Case Series

Objectives: No data were available about in-flight transmission of SARS-CoV-2. Here, we report an in-flight transmission cluster of COVID-19 and describe the clinical characteristics of these patients. Methods: After a flight, laboratory-confirmed COVID-19 was reported in 12 patients

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[Lien original](#)

In-host Modelling of COVID-19 Kinetics in Humans

In-host Modelling of COVID-19 Kinetics in Humans

COVID-19 pandemic has underlined the impact of emergent pathogens as a major threat for human health. The development of quantitative approaches to advance comprehension of the current outbreak is urgently needed

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Knowledge synthesis from 100 million biomedical documents augments the deep expression profiling of coronavirus receptors

Knowledge synthesis from 100 million biomedical documents augments the deep expression profiling of coronavirus receptors

The COVID-19 pandemic demands assimilation of all available biomedical knowledge to decode its mechanisms of pathogenicity and transmission. Despite the recent renaissance in unsupervised neural networks for decoding

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Machine Learning Approach for Confirmation of COVID-19 Cases: Positive, Negative, Death and Release

Machine Learning Approach for Confirmation of COVID-19 Cases: Positive, Negative, Death and Release

In recent days, Covid-19 coronavirus has been an immense impact on social, economic fields in the world. The objective of this study determines if it is feasible to use machine learning method to evaluate how much prediction results

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Meteorological factors and Covid-19 incidence in 310 regions across the

world

Meteorological factors and Covid-19 incidence in 310 regions across the world

In absence of empirical research data, there has been considerable speculative hypothesis on the relationship between climatic factors (such as temperature and humidity) and the incidence of Covid-19. This study analyzed the data from 311 regions across 116 countries with ≥ 1 reported case by March 12, 2020, and found that temperature, humidity, and wind speed were inversely associated with the

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Mobility traces and spreading of COVID-19

Mobility traces and spreading of COVID-19

strong support to the argument that it is never too late for complete lockdown. 2. As a rule of thumb, we would suggest complete lockdown no later than once 10% of hospital capacities available for COVID-19 are in use, and possibly much earlier. This is based on the following insights: a. Even after lockdown, the infection dynamics continues at home, leading to another tripling of the cases before the dynamics

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[Lien original](#)

Modeling the Epidemic Dynamics of COVID-19 Outbreak in Iran

Modeling the Epidemic Dynamics of COVID-19 Outbreak in Iran

The COVID-19 impact on global health and economic system has been profound and unseen since the Spanish flu of 1918-19. Iran is one of the countries that has been severely affected partly because of slow responses

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Orthogonal genome-wide screenings in bat cells identify MTHFD1 as a target of broad antiviral therapy

Bats are responsible for the zoonotic transmission of several major viral diseases including the 2003 SARS outbreak and the ongoing COVID-19 pandemic. While bat genomic sequencing studies have revealed characteristic adaptations of the innate immune system, functional genomic studies are urgently needed to provide a foundation for the molecular

www.biorxiv.org (e-date: 30/03/2020)

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Potential roles of social distancing in mitigating the spread of coronavirus disease 2019 (COVID-19) in South Korea

Potential roles of social distancing in mitigating the spread of coronavirus disease 2019 (COVID-19) in South Korea

On January 20, 2020, the first COVID-19 case was confirmed in South Korea. After a rapid outbreak, the number of incident cases has been consistently decreasing since early March; this decrease has been widely attributed to its intensive testing

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[Lien original](#)

Prediction of the time evolution of the Covid-19 Pandemic in Italy by a Gauss Error Function and Monte Carlo simulations

Prediction of the time evolution of the Covid-19 Pandemic in Italy by a Gauss Error Function and Monte Carlo simulations

In this paper are presented predictions on the evolution in time of the number of positive cases in Italy of the Covid-19 pandemic based on official data and on the use of a function of the type of a

Gauss Error Function as a Cumulative Distribution Function (CDF). We have analyzed the available data for China and Italy

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Public events and delayed flight restrictions were the turning point of the COVID-19 mitigation policy of Israel

Public events and delayed flight restrictions were the turning point of the COVID-19 mitigation policy of Israel

Background: Since its emergence the impact of COVID-19 has been profound, and the public health challenge seem to be the most serious regarding respiratory viruses since the 1918 H1N1 influenza pandemic. In the absence of effective vaccine or biomedical

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Research on the Influence of Effective Distance Between Cities on the Cross-regional Transmission of COVID-19

Research on the Influence of Effective Distance Between Cities on the Cross-regional Transmission of COVID-19

The COVID-19 epidemic in China has been effectively controlled. It is of great significance to study the law of cross-regional spread of the epidemic, for the prevention and control of the COVID-19 in the future in

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[Lien original](#)

Risk assessment of progression to severe conditions for patients with COVID-19 pneumonia: a single-center retrospective study

Risk assessment of progression to severe conditions for patients with COVID-19 pneumonia: a single-center retrospective study

Background: Management of high mortality risk due to significant progression requires prior assessment of time-to-progression. However, few related methods are available for COVID-19 pneumonia. Methods: We retrospectively enrolled 338 adult patients admitted to one hospital between Jan 11, 2020 to Feb 29, 2020. The final follow-up date was March 8, 2020. We compared characteristics

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SARS-CoV-2 asymptomatic and symptomatic patients and risk for transfusion transmission

SARS-CoV-2 asymptomatic and symptomatic patients and risk for transfusion transmission

Oral swabs, sputum and blood samples from 18 patients with SARS-CoV-2 infection were examined using real-time reverse transcription polymerase chain reaction (RT-PCR) testing.

Whereas oral swabs or sputum from the lower respiratory tract were tested RT-PCR positive in

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SARS-CoV-2 detection from nasopharyngeal swab samples without RNA extraction

SARS-CoV-2 detection from nasopharyngeal swab samples without RNA extraction

The ongoing COVID-19 pandemic has reached more than 200 countries and territories worldwide. Given the large requirement of SARS-CoV-2 diagnosis and considering that RNA extraction kits are in short supply, we investigated whether

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Scaling analysis of COVID-19 spreading based on Belgian hospitalization data

Scaling analysis of COVID-19 spreading based on Belgian hospitalization data

We analyze the temporal evolution of accumulated hospitalization cases due to COVID-19 in Belgium. The increase of hospitalization cases is consistent with an initial exponential phase, and a subsequent power law growth. For the latter, we estimate a power law exponent of ≈ 2.2 , which

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Short-term forecasts and long-term mitigation evaluations for the COVID-19 epidemic in Hubei Province, China

Short-term forecasts and long-term mitigation evaluations for the COVID-19 epidemic in Hubei Province, China

As an emerging infectious disease, the 2019 coronavirus disease (COVID-19) has developed into a global pandemic. During the initial spreading of the virus in China, we demonstrated the ensemble Kalman filter performed well as a short-term predictor of the daily

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[Lien original](#)

Stabilization of the coronavirus pandemic in Italy and global prospects

Stabilization of the coronavirus pandemic in Italy and global prospects

The pandemic caused by coronavirus COVID-19 are of great concern. A detailed scientific analysis of this phenomenon is still to come, but now it is urgently needed to evaluate the parameters of the disease dynamics in order to make some

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Suppression and Mitigation Strategies for Control of COVID-19 in New Zealand

Suppression and Mitigation Strategies for Control of COVID-19 in New Zealand

www.medrxiv.org (e-date: 30/03/2020)

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The psychological distress and coping styles in the early stages of the 2019 coronavirus disease (COVID-19) epidemic in the general mainland Chinese population: a web-based survey

The psychological distress and coping styles in the early stages of the 2019 coronavirus disease (COVID-19) epidemic in the general mainland Chinese population: a web-based survey

Background As the epidemic outbreak of 2019 coronavirus disease (COVID-19), general population may experience psychological distress. Evidence has suggested that negative coping styles may be related to subsequent mental illness. Therefore, we investigate the

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[Lien original](#)

Trend Analysis and Forecasting of COVID-19 outbreak in India

Trend Analysis and Forecasting of COVID-19 outbreak in India

COVID-19 is spreading really fast around the world. The current study describes the situation of the outbreak of this disease in India and predicts the number of cases expected to rise in India. The study also

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

Understand Research Hotspots Surrounding COVID-19 and Other

Coronavirus Infections Using Topic Modeling

Understand Research Hotspots Surrounding COVID-19 and Other Coronavirus Infections Using Topic Modeling

Background: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a virus that causes severe respiratory illness in humans, which eventually results in the current outbreak of novel coronavirus disease (COVID-19) around the world. The research community is interested www.medrxiv.org (e-date: 31/03/2020)

[Lien original](#)

When will the Covid-19 epidemic fade out?

When will the Covid-19 epidemic fade out?

incidence of real infectious diseases. For this purpose, we analyse a SIRS model under the framework of a small world network formulation. Using this model, we make predictions about the peak of the Covid-19 epidemic in Italy. A Gaussian fit is also performed, to make a similar prediction.

www.medrxiv.org (e-date: 30/03/2020)

[Lien original](#)

[Sommaire](#)

DOCUMENTS GOUVERNEMENTAUX

Interim Clinical Guidance for Management of Patients with Confirmed Coronavirus Disease (COVID-19) [Revisions made on March 30] | CDC

This interim guidance is for clinicians caring for patients with confirmed infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes coronavirus disease 2019 (COVID-19). CDC will update this interim guidance as more information becomes available.

cdc.gov (e-date: 31/03/2020)

US CDC

[Lien original](#)

[Sommaire](#)

NEWS & BLOGS

Covid-19: Doctors are told not to perform CPR on patients in cardiac arrest

News Covid-19: Doctors are told not to perform CPR on patients in cardiac arrest BMJ 2020 ; 368 doi: <https://doi.org/10.1136/bmj.m1282> (Published 29 March 2020) Cite this as: BMJ 2020;368:m1282

Healthcare staff in the West Midlands have been told not to start chest compressions or ventilation in patients who are in cardiac arrest if they have suspected or diagnosed covid-19 unless they are in the emergency department and staff are wearing full personal protective equipment (PPE).

www.bmj.com (e-date: 30/03/2020)

[Lien original](#)

Covid-19: 'Illogical' Lack of Testing Is Causing Healthy Staff to Self-Isolate, BMA Chief Warns

2020 Mar 27 Covid-19: "Illogical" Lack of Testing Is Causing Healthy Staff to Self-Isolate, BMA Chief Warns

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

[Lien original](#)

Coronavirus papers: Debilitated patients rally after dose of survivors' blood.
A selection of the latest research on COVID-19. A selection of the latest
research on COVID-19. | Nature.

[News]

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Lien original

COVID-19: Biomedical Research in a World Under Social-Distancing Measures | Nat Med.

2020 Mar 26 [Online ahead of print] COVID-19: Biomedical Research in a World Under Social-
Distancing Measures [News Feature]

pubmed.ncbi.nlm.nih.gov (e-date: 30/03/2020)

Arnold C.

Lien original

Sommaire

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