Welcome to the weekly Infection Current Awareness Update (ICAU), produced by PHE Knowledge and Library Services. The purpose of this update is to provide you with the latest, best evidence about infection, to help you make informed decisions.

Please note: PHE KLS has set up a separate COVID-19 Daily Alert of latest research. If you would like to receive this, please email libraries@phe.gov.uk. In addition to this, a page of resources about the coronavirus is available here.

If you have any queries, please contact us at libraries@phe.gov.uk, and if you would like to request a literature search, please use the Knowledge and Library Services Enquiries Portal (PHE staff only).

Please note that not all the articles and resources referred to in this alert are freely available. Some articles may require an Athens username and password, and for PHE and NHS staff, these can be obtained here. If you do not work for PHE or the NHS, you may want to approach your local health library service to discuss how you may have access to library services.

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COVID-19 related research

COVID-19 infection

NEW—#COVID19 combination prevention requires attention to structural drivers Correspondence from Kent Buse et al hubs.ly/H0tQcdb0
19 Aug 2020

NEW #LancetVoice : How can 40% of dementia cases be prevented? Our Editors speak to @Gill_Livingston, followed by a discussion with Saskia Osendarp (@OsendpNutrition) about how #COVID19 could undo two decades of work on child #malnutrition hubs.ly/H0tQbNf0
19 Aug 2020

Time for Universal Masking and Prevention of Transmission of SARS-CoV-2
18 Aug 2020
In this issue of JAMA, Wang et al present evidence that universal masking of health care workers (HCWs) and patients can help reduce transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infections

[Comment] EU guidance impedes humanitarian action to prevent COVID-19 in Syria
02 Jul 2020
At the Global Vaccine Summit on June 4, 2020, UK Prime Minister Boris Johnson called for a united front from all nations. He described the need for a NATO-style alliance to defend humanity from the common enemy of COVID-19. This type of statement has become a familiar cry of multiple Western leaders. It is also a message that is undermined by the actions of many of those same politicians.
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Infection-related guidance

British Society for Antimicrobial Chemotherapy

How can we ensure the pharma industry protects the supply of essential medicines during the COVID-19 pandemic and beyond?
20 Aug 2020
The post How can we ensure the pharma industry protects the supply of essential medicines during the COVID-19 pandemic and beyond? appeared first on British Society for Antimicrobial Chemotherapy.
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Infectious Diseases Society of America

A new study in @JPediatr shows that children who present for care with SARS-CoV-2 infection, including those with no symptoms, have high nasopharyngeal viral loads. bit.ly/2Yjeu2Y
22 Aug 2020

The rate of COVID-19 infection among American Indian and Alaska Native (AI/AN) populations was 3.5 times higher than it was for whites, new findings from @CDCgov reveal. bit.ly/31ghijs
20 Aug 2020

IDSA on Twitter: “The rate of COVID-19 infection among American Indian and Alaska Native (AI/AN)
Infection-related journals

American Journal of Infection Control

Evaluation of disinfection procedures in a designated hospital for COVID-19
22 Aug 2020
Coronavirus disease 2019 (COVID-19), which is caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), has globally spread and been declared as a pandemic by the World Health Organization (WHO) on March 11th, 2020. COVID-19 has been spreading fast because people are generally susceptible

Erratum
22 Aug 2020
In the article “Efficacy of Covert Closed-Circuit Television Monitoring of the Hand Hygiene Compliance of Health Care Workers Caring for Patients Infected with Multidrug-Resistant Organisms in an Intensive Care Unit.” by Ilana Livshiz-Riven, et al. in the May issue of the American Journal of Infection Control (2020;48(5):517-21) Tomer Ziv-Baran's affiliation was incorrectly cited.

Effectiveness of Dry Hydrogen Peroxide on Reducing Environmental Microbial Bioburden Risk in a Pediatric Oncology Intensive Care Unit
20 Aug 2020
Routine manual cleaning and disinfection of the healthcare environment is often suboptimal. Residual contamination poses an infection risk, particularly for immunocompromised patients. This study evaluates the efficacy of dry hydrogen peroxide (DHP) on microbial surface contamination in a pediatric oncology intensive care unit (ICU).

Asymptomatic carriers of COVID-19 in a confined adult community population in Quebec: a cross-sectional study
20 Aug 2020
As of August 9th, nearly 20 million individuals contracted COVID-19 and about 720,000 died [1]. The United States counts for one fourth of these cases. SARS-CoV-2 transmission occurs principally through respiratory droplets or direct contact [2]

Prolonged Persistence of PCR-detectable Virus During an Outbreak of SARS-CoV-2 in an Inpatient Geriatric Psychiatry Unit in King County, Washington
19 Aug 2020
Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), a novel coronavirus causing coronavirus disease 2019 (COVID-19), was initially described in Wuhan, China in late 2019 (1). Infection with SARS-CoV-2 typically causes fever, cough, and shortness of breath, although the clinical spectrum can vary from asymptomatic carriage to critical illness (2-6)

Successful implementation of the CDC recommendations during the care of two patients with Candida auris in in-patient rehabilitation and intensive care settings
19 Aug 2020
Candida auris presents a unique challenge to practitioners and infection control teams worldwide because of its virulence, alarming resistance profile, environmental fitness, and risk of nosocomial transmission. We describe two cases of Candida auris infection managed with the CDC recommendations with no evidence of in-hospital transmission.

Novel Outpatient Antibiotic Prescribing Report of Respiratory Infections in a Pediatric Health System’s Emergency Departments and Urgent Care Clinics
19 Aug 2020
Over 85% of human antibiotic use worldwide occurs in outpatient settings including emergency departments (EDs) and urgent care clinics (UCC)s.1 The most common diagnoses leading to outpatient antibiotic prescriptions are undoubtedly acute respiratory conditions

Inactivation of SARS-CoV-2 by commercially available alcohol-based hand sanitizers
Frequent hand hygiene is one of the steps recommended by the Centers for Disease Control and Prevention (CDC) to help prevent illness during the COVID-19 pandemic. For the general public, the recommendation is to use soap and water and, if water is unavailable, a hand sanitizer containing at least 60% alcohol.

Harnessing implementation science to optimize harm prevention in critically ill children: a pilot study of bedside nurse CLABSI bundle performance in the pediatric intensive care unit

Preventable patient harm is an epidemic in the United States—a projected 200,000-400,000 Americans experience premature death due to medical error each year.1 Hospitalized children are no less vulnerable, with an estimated adverse event rate in children's hospitals of 40 per 100 discharges, half of which were deemed preventable in a 2015 investigation.2

The Impact of COVID-19 Pandemic on Hand Hygiene Performance in Hospitals.

Hand hygiene is considered an important measure to prevent the transmission of pathogens in healthcare facilities,1 and it is proven that improving hand hygiene compliance significantly reduces healthcare-acquired infections.2-4 Accordingly, hand hygiene has been recommended as an important strategy to help prevent the spread of COVID-19 in hospitals.5
We analyzed the impact of a hospital tap water avoidance protocol on respiratory isolation of nontuberculous mycobacteria (NTM). After protocol implementation, hospital-onset episodes of respiratory NTM isolation on high risk units decreased from 41.0 to 9.9 episodes per 10,000 patient-days (incidence rate ratio, 0.24; 95% confidence interval, 0.17-0.34; P<0.0001).

Impact of the Centers for Medicare and Medicaid Services Sepsis Core Measure on Antibiotic Use
22 Aug 2020

AbstractBackgroundThe Centers for Medicare and Medicaid Services (CMS) implemented a core measure sepsis (SEP-1) bundle in 2015. One element was initiation of broad-spectrum antibiotics within 3 hours of diagnosis. The policy has the potential to increase antibiotic use and Clostridioides difficile infection (CDI).

Inoculation age of Bacillus Calmette-Guérin Tokyo-172 strain and vaccine-related adverse reactions in Taiwan birth cohort of 2012–2017
22 Aug 2020

AbstractBackgroundIn Taiwan, the inoculation of Bacillus Calmette-Guérin (BCG) Tokyo-172 strain vaccine was postponed from 24 hours after birth to 5–8 months of age from 2016. We reviewed BCG-induced adverse reactions reported to Vaccine Injury Compensation Program (VICP) to identify differences between early and delayed BCG inoculation.

Mutations in an aquaglyceroporin as a proven marker of antimony clinical resistance in the parasite Leishmania donovani
22 Aug 2020

AbstractBackgroundAntimonial drugs have long been the mainstay to treat visceral leishmaniasis. Their use has been discontinued in the Indian subcontinent because of drug resistance, but they are still clinically useful elsewhere. The goal of this study was to find markers of antimony resistance in Leishmania donovani clinical isolates and validate experimentally their role in resistance.

Burden of Hypertension, Diabetes, Cardiovascular, and Lung Disease Among Women Living with HIV in the United States
22 Aug 2020

How Do Presenting Symptoms and Outcomes Differ by Race/Ethnicity Among Hospitalized Patients with COVID-19 Infection? Experience in Massachusetts
22 Aug 2020

AbstractBackgroundPopulation-based literature suggest SARS-CoV-2 infection may disproportionately affect racial/ethnic minorities; however, patient-level observations of hospitalization outcomes by race/ethnicity are limited. The aim of this study was to characterize COVID-19-associated morbidity and in-hospital mortality by race/ethnicity.

Quantity metrics and proxy indicators to estimate the volume and appropriateness of antibiotics prescribed in French nursing homes: a cross-sectional observational study based on 2018 reimbursement data
21 Aug 2020

AbstractBackgroundAntibiotic resistance is an increasing threat to public health globally. Indicators on antibiotic prescribing are required to guide antibiotic stewardship interventions in nursing homes. However, such indicators are not available in the literature.

Attributable length of stay, mortality risk and costs of bacterial healthcare-associated infections in Australia: a retrospective case-cohort study.
21 Aug 2020

AbstractBackgroundUnbiased estimates of the health and economic impact of healthcare-associated infections (HAIs) are scarce and focus largely on patients with bloodstream infection (BSI). We sought to estimate the hospital length of stay (LOS), mortality and costs of HAIs and the differential effect on patients with an antimicrobial resistance (AMR) infection.

SARS-CoV-2 Community Transmission disproportionately affects Latinx population during Shelter-in-Place in San Francisco
21 Aug 2020

AbstractBackgroundThere is urgent need to understand the dynamics and risk factors driving ongoing SARS-CoV-2 transmission during shelter-in-place mandates. MethodsWe offered SARS-CoV-2 reverse transcription-PCR and antibody (Abbott ARCHITECT IgG) testing, regardless of
symptoms, to all residents (≥4 years) and workers in a San Francisco census tract (population: 5,174) at outdoor,

Empiric Antibacterial Therapy and Community-onset Bacterial Co-infection in Patients Hospitalized with COVID-19: A Multi-Hospital Cohort Study
21 Aug 2020
AbstractBackgroundAntibacterials may be initiated out of concern for bacterial co-infection in patients with COVID-19. We determined prevalence and predictors of empiric antibacterial therapy and community-onset bacterial co-infections in hospitalized patients with COVID-19

Evaluating the Efficacy of Therapies in COVID-19 Patients
20 Aug 2020
AbstractThere is a proliferation of clinical trials worldwide to find effective therapies for patients diagnosed with novel coronavirus disease-2019 (COVID-19). The endpoints that are currently used to evaluate the efficacy of therapeutic agents against COVID-19 are focused on clinical status at a particular day or on time to a specific change of clinical status

Reply to Calvin Pan
20 Aug 2020
Pharmacokinetic and safety study of co-administration of albendazole, diethylcarbamazine, Ivermectin and azithromycin for the integrated treatment of Neglected Tropical Diseases
20 Aug 2020
AbstractBackground Pharmacokinetic data are a pre-requisite to integrated implementation of large-scale mass drug administration (MDA) for neglected tropical diseases (NTDs). We investigated the safety and drug interactions of a combination of azithromycin (AZI) targeting yaws and trachoma, with the newly approved ivermectin, albendazole, diethylcarbamazine (IDA) regime for Lymphatic Filariasis

Prophylactic negative-pressure wound therapy prevents surgical site infection in abdominal surgery: an updated systematic review and meta-analysis of randomized controlled trials and observational studies
20 Aug 2020
AbstractBackgroundPrevention of surgical site infection (SSI) is a public health challenge. Our objective was to determine if pNPWT allows preventing SSI after laparotomy.MethodsMEDLINE, Embase and Web of Science were searched on the 06.10.2019 for original studies reporting the incidences of SSI in patients undergoing open abdominal surgery with and without pNPWT

Randomized Phase 2 Study of VT-1161 for the Treatment of Acute Vulvovaginal Candidiasis
20 Aug 2020
AbstractBackgroundAcute vulvovaginal candidiasis (VVC) is common among women, but current azole antifungal treatments are often associated with safety and resistance issues. VT-1161 (otesaconazole) is an oral agent with increased selectivity for fungal CYP51. This Phase 2 clinical study evaluated the efficacy and safety of VT-1161 versus fluconazole in subjects with moderate-to-severe acute VVC

Comparison of a Novel Rapid Lateral Flow Assay to Enzyme Immunoassay Results for Early Diagnosis of Coccidioidomycosis
20 Aug 2020
AbstractBackgroundCoccidioidomycosis (CM) is a common cause of community acquired pneumonia (CAP) where CM is endemic. Manifestations include self-limited pulmonary infection, chronic fibrocavitary pulmonary disease, and disseminated coccidioidomycosis (DCM)

The role of earlier use of immunoprophylaxis in preventing mother to child transmission of hepatitis B
20 Aug 2020
Using Whole Genome Sequencing to Determine the Timing of Secondary Tuberculosis in British Columbia, Canada
19 Aug 2020
AbstractCombined with epidemiological data, whole-genome sequencing (WGS) can help better resolve individual tuberculosis (TB) transmission events to a degree not possible with traditional
genotyping. Here, we combine WGS data with patient-level data to calculate the timing of secondary TB amongst contacts of people diagnosed with active TB in BC, Canada.

Prevalence of SARS-CoV-2 asymptomatic infections in two large academic health systems in Wisconsin
19 Aug 2020
AbstractSARS-CoV-2 asymptomatic infections may play a critical role in disease transmission. We aim to determine the prevalence of asymptomatic SARS-CoV-2 infection at two hospital systems in two counties in Wisconsin. The SARS-CoV-2 prevalence was 1% or lower at both systems despite the higher incidence of COVID-19 in Milwaukee county

The challenge of managing COVID-19 associated pulmonary aspergillosis
18 Aug 2020
Epidemiological, virological and serological features of COVID-19 cases in people living with HIV in Wuhan City: A population-based cohort study
17 Aug 2020
AbstractBackgroundWe aimed to describe the epidemiological, virological and serological features of coronavirus disease 2019 (COVID-19) cases in people living with HIV (PLWH). Methods This population-based cohort study identified all COVID-19 cases among the whole PLWH in Wuhan city, China, by April 16, 2020

Epidemiology, outcomes and associated factors of COVID-19 RT-PCR confirmed cases in the San Pedro Sula Metropolitan Area, Honduras
17 Aug 2020
AbstractBackgroundThe SARS-CoV-2 pandemic has caused substantial morbidity and mortality worldwide. Few reports exist in Latin America, a current epicenter of transmission. Here, we aim to describe the epidemiology and outcomes associated with COVID-19 in Honduras

Immunosuppressive Agents and Infectious Risk in Transplantation: Managing the “Net State of Immunosuppression”
17 Aug 2020
AbstractSuccessful solid organ transplantation reflects meticulous attention to the details of immunosuppression, balancing risks for graft rejection against risks for infection. The ‘net state of immune suppression’ is a conceptual framework of all factors contributing to infectious risk

Clostridioides difficile infection in cancer and immunocompromised patients: Relevance of a two-step diagnostic algorithm and infecting ribotypes on clinical outcomes
17 Aug 2020
AbstractBackgroundPatients with cancer are particularly vulnerable to Clostridioides difficile infection (CDI). Guidelines recommend a two-step diagnostic algorithm to differentiate carriers from CDI; however, there is limited data for this approach while including other confounding risk factors for diarrhea such as radiation, cytotoxic chemotherapy and adoptive cell based therapies

Highly sensitive quantification of plasma SARS-CoV-2 RNA shields light on its potential clinical value
17 Aug 2020
AbstractBackgroundCoronavirus disease 2019 (COVID-19) is a global public health problem that has already caused more than 662,000 deaths worldwide. Although the clinical manifestations of COVID-19 are dominated by respiratory symptoms, some patients present other severe damage such as cardiovascular, renal and liver injury or/and multiple organ failure, suggesting a spread of the SARS-CoV-2 in

Coronavirus 2019 (COVID-19) Infections Among Healthcare Workers, Los Angeles County, February - May 2020
17 Aug 2020
AbstractAcross the world, healthcare workers (HCW) are at a greater risk of infection by the novel coronavirus 2019 (COVID-19) due to the nature of their work. The Los Angeles County Department of Public Health (LAC DPH) set out to understand the impact of COVID-19 on healthcare facilities and HCWs by tracking and analyzing data from case-patient interviews of HCWs

Implications of COVI-19 antibody dynamics for immunity and convalescent plasma therapy
17 Aug 2020
Powassan Virus Encephalitis Following Brief Attachment of Connecticut Deer Ticks
16 Aug 2020

Abstract

Background Powassan virus (POWV) is a tick-transmitted pathogen that may cause severe encephalitis; experimentally, it can be transmitted within just 15 minutes following a tick bite. The deer tick virus subtype of POWV (DTV) is transmitted by the deer tick and is the likely cause of the increase in the number of POWV cases reported in the U.S.

Clinical Infectious Diseases - Current Issue

Ulcerative Plaques on the Groin and Scrotum of a 67-Year-Old Man
21 Aug 2020

A 67-year-old retired man with a past medical history of hypertension and benign prostate hyperplasia presented with a 3-month history of painful erythematous patches over the groin and scrotum. On physical examination, diffused ulcerative erythematous patches were distributed over the scrotum and inguinal area (Figure 1).

In the Literature
21 Aug 2020

Clinical Microbiology and Infection

Ultra-rapid flow cytometry assay for colistin MIC determination in Enterobacterales, Pseudomonas aeruginosa and Acinetobacter baumannii
23 Aug 2020

The cultivable microbiota of the human distal ileum
23 Aug 2020

Evaluation of 'TBDetect' sputum microscopy kit for improved detection of Mycobacterium tuberculosis: a multi-centric validation study
23 Aug 2020

More than loss of taste and smell: burning watering eyes in coronavirus disease 19 (COVID-19)
21 Aug 2020

CMI plans to support early career researchers
20 Aug 2020

National dissemination of EUCAST guidelines is a shared responsibility
20 Aug 2020
Current Opinion in Microbiology

The antiviral activities of TRIM proteins
21 Aug 2020
Publication date: February 2021Source: Current Opinion in Microbiology, Volume 59Author(s): Lennart Koepke, Michaela U Gack, Konstantin MJ Sparrer

It’s all in your head: antifungal immunity in the brain
20 Aug 2020
Publication date: December 2020Source: Current Opinion in Microbiology, Volume 58Author(s): Brendan D Snarr, Rebecca A Drummond, Michail S Lionakis

Engineered bacteria to report gut function: technologies and implementation
20 Aug 2020
Publication date: February 2021Source: Current Opinion in Microbiology, Volume 59Author(s): Tanmay Tanna, Raghavendra Ramachanderan, Randall J Platt

PANoptosis in microbial infection
20 Aug 2020
Publication date: February 2021Source: Current Opinion in Microbiology, Volume 59Author(s): David E Place, SangJoon Lee, Thirumala-Devi Kanneganti

Current Opinion in Virology

23 Aug 2020
Publication date: Available online 23 August 2020Source: Current Opinion in VirologyAuthor(s): Peter Palukaitis, Ju-Yeon Yoon

Diagnostic Microbiology and Infectious Disease

Performance of a multiplex polymerase chain reaction panel for identifying bacterial pathogens causing pneumonia in critically ill patients with COVID-19
21 Aug 2020
Publication date: Available online 21 August 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): François Caméléna, Anne-Clotilde Moy, Emmanuel Dudoignon, Thibaut Poncin, Benjamin Deniau, Lucie Guillemet, Jérôme Le Goff, Mélissa Budoo, Mourad Benyamina, Maïté Chaussard, Maxime Coutrot, Matthieu Lafaurie, Benoît Plaud, Alexandre Mebazaa, François Depret, Béatrice Berçot

Balamuthia mandrillaris Encephalitis in a Child: Case Report and Literature Review
21 Aug 2020
Publication date: Available online 21 August 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Zhaoshi Yi, Jianmin Zhong, Huaping Wu, Xiaoyan Li, Yong Chen, Hui Chen, Yu Yang, Xiongying Yu

Stability of MERS-CoV RNA on spin columns of RNA extraction kit at room temperature
21 Aug 2020
Publication date: Available online 21 August 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Nermeen M.A. Abdallah, Ali M. Zaki, Shimaa A. Abdel-Salam
Evaluation of the performance of SARS-CoV-2 serological tools and their positioning in COVID-19 diagnostic strategies

21 Aug 2020
Publication date: Available online 21 August 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Aurelie Velay, Floriane Gallais, Ilies Benotmane, Marie Josée Wendling, François Danion, Olivier Collange, Jérôme De Sèze, Catherine Schmidt-Mutter, Francis Schneider, Pascal Bilbault, Ferhat Meziani, Samira Fafi-Kremer

A multiplex polymerase chain reaction assay for antibiotic stewardship in suspected pneumonia

17 Aug 2020
Publication date: Available online 16 August 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Chiagozie Pickens, Richard G. Wunderink, Chao Qi, Haritha Mopuru, Helen Donnelly, Kimberly Powell, Matthew D Sims

Evaluation of a novel chromogenic medium for Candida spp. identification and comparison with CHROMagar™ Candida for the detection of Candida auris in surveillance samples

17 Aug 2020
Publication date: Available online 16 August 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Juan V. Mulet Bayona, Carme Salvador García, Nuria Tormo Palop, Concepción Gimeno Cardona

Emerging Infectious Diseases Journal - ahead of print

Epidemiology of COVID-19 Outbreak on Cruise Ship Quarantined at Yokohama, Japan, February 2020

21 Aug 2020

Asymptomatic Transmission of SARS-CoV-2 on Evacuation Flight

21 Aug 2020
S. Bae et al.

Characterization and Source Investigation of Multidrug-Resistant Salmonella Anatum from a Sustained Outbreak, Taiwan

18 Aug 2020
Y. Feng et al.

Q Fever Osteoarticular Infection in Children

18 Aug 2020
H. Dabaja-Younis et al.

Eurosurveillance latest updates

Accounting for indirect protection in the benefit–risk ratio estimation of rotavirus vaccination in children under the age of 5 years, France, 2018

20 Aug 2020
Background Rotavirus is a major cause of severe gastroenteritis in children worldwide. The disease burden has been substantially reduced in countries where rotavirus vaccines are used. Given the risk of vaccine-induced intussusception, the benefit–risk balance of rotavirus vaccination has been assessed in several countries, however mostly without considering indirect protection effects

Three infection clusters related with potential pre-symptomatic transmission of coronavirus disease (COVID-19), Shanghai, China, January to February 2020

20 Aug 2020
We report three clusters related with potential pre-symptomatic transmission of coronavirus disease (COVID-19) between January and February 2020 in Shanghai, China. Investigators interviewed suspected COVID-19 cases to collect epidemiological information, including demographic...
characteristics, illness onset, hospital visits, close contacts, activities’ trajectories between 14 days before illness

**Do changes in STEC diagnostics mislead interpretation of disease surveillance data in Switzerland? Time trends in positivity, 2007 to 2016**

20 Aug 2020

Background Laboratory-confirmed cases of Shiga toxin-producing Escherichia coli (STEC) have been notifiable to the National Notification System for Infectious Diseases in Switzerland since 1999. Since 2015, a large increase in case numbers has been observed

Authors’ correction for Euro Surveill. 2020;25(32)

20 Aug 2020

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**Infection**

**A highly specific and sensitive serological assay detects SARS-CoV-2 antibody levels in COVID-19 patients that correlate with neutralization**

21 Aug 2020

Abstract Objective The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) pandemic challenges national health systems and the global economy. Monitoring of infection rates and seroprevalence can guide public health measures to combat the pandemic. This depends on reliable tests on active and former infections

**Renal profile of chronic hepatitis C patients with sofosbuvir-based therapy**

20 Aug 2020

Abstract Purpose The impact of SOF-based therapy on renal functions is quite controversial in clinical practice. Therefore, we aimed to evaluate the serial changes of renal indices during SOF-based therapy in CHC patients with normal kidney function or mild renal impairment

**The epidemiological burden of and overall distribution of chronic comorbidities in coronavirus disease-2019 among 202,005 infected patients: evidence from a systematic review and meta-analysis**

19 Aug 2020

Abstract Purpose The main purpose of this study was to examine the overall distribution of chronic comorbidities in coronavirus disease-19 (COVID-19) infected populations and the risk of the underlying burden of disease in terms of the case fatality ratio (CFR). Methods We carried out a systematic review and meta-analysis of studies on COVID-19 patients published before 10th April 2020

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**Infection Control & Hospital Epidemiology - FirstView Article**

**Cluster randomized trial of an antibiotic time-out led by a team-based pharmacist**

20 Aug 2020

Published online by Cambridge University Press:

**Improved empiric antibiotic prescribing for acute cystitis with use of local urinary antibiogram and clinical decision support system**

19 Aug 2020

Published online by Cambridge University Press:

**Laboratory-based study of novel antimicrobial cold spray coatings to combat surface microbial contamination**

19 Aug 2020

Published online by Cambridge University Press:

**Low seroprevalence of SARS-CoV-2 infection among healthcare workers of the largest children hospital in Milan during the pandemic wave**

06 Aug 2020

Published online by Cambridge University Press:
When should a patient with prior COVID-19 infection be placed in isolation precautions if readmitted months later?

06 Aug 2020
Published online by Cambridge University Press:

“It’s like fighting a war with rocks”: Nursing home healthcare workers’ experiences during the COVID-19 pandemic

05 Aug 2020
Published online by Cambridge University Press:

Seroprevalence of SARS-CoV-2 antibodies in healthcare workers at a London NHS Trust

04 Aug 2020
Published online by Cambridge University Press:

Deactivation of SARS-CoV-2 with pulsed-xenon ultraviolet light: Implications for environmental COVID-19 control

03 Aug 2020
Published online by Cambridge University Press:

We must rigorously follow basic infection control procedures to protect our healthcare workers from SARS-CoV-2

03 Aug 2020
Published online by Cambridge University Press:

Lack of nosocomial transmission to exposed inpatients and coworkers in an investigation of five SARS-CoV-2–infected healthcare workers

03 Aug 2020
Published online by Cambridge University Press:

RE: Universal SARS-CoV-2 testing on admission to the labor and delivery unit: Low prevalence among asymptomatic obstetric patients

30 Jul 2020
Published online by Cambridge University Press:

How to keep patients and staff safe from accidental SARS-CoV-2 exposure in the emergency room: Lessons from South Korea’s explosive COVID-19 outbreak

30 Jul 2020
Published online by Cambridge University Press:

Decontamination and reuse of surgical masks and N95 filtering facepiece respirators during the COVID-19 pandemic: A systematic review

30 Jul 2020
Published online by Cambridge University Press:

International Journal of Infectious Diseases

Therapeutic plasma exchange in adults with severe COVID-19 infection

23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Faryal Khamis, Ibrahim Al-Zakwani, Sabria Al Hashmi, Samata Al Dowaiki, Maher Al Bahrani, Nenad Pandak, Huda Al Khallil, Ziad Memish

The protective effect of pneumococcal vaccination on cardiovascular disease in adults: A systematic review and meta-analysis

23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Fawziah Marra, Angel Zhang, Emma Gillman, Katherine Bessai, Kamalpreet Parhar, Nirma Khatri Vadlamudi
Effectiveness of trivalent inactivated influenza vaccines in children during 2017–2018 season in Korea: Comparison of test-negative analysis by rapid and RT-PCR influenza tests
23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Young Joo Sohn, Jae Hong Choi, Youn Young Choi, Young June Choe, Kyungmin Kim, Ye Kyung Kim, Bin Ahn, Seung Ha Song, Mi Seon Han, Ji Young Park, Joon Kee Lee, Eun Hwa Choi

Phylogenetic dating analysis of HTLV-1 from Chile suggests transmissions events related to ancient migrations and contemporary expansion
23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Louise Zanella, Ismael Riquelme, Maria Elena Reyes, Maria Jose Tapia, Soledad Reyes, Barbara Mora, Tamara Viscarria, Juan Carlos S Roa, Carmen Ill, Priscilla Brebi

Efficacy of a combination of HBV RNA and HBeAg in predicting HBeAg seroconversion in patients treated with entecavir for 144 weeks
23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Xiaomei Wang, Zhongfeng Wang, Xiumei Chi, Ruihong Wu, Qinglong Jin, Hongqin Xu, Xiuzhu Gao, Lei Yu, Yuping Chen, Jia Shang, Longgen Liu, Shuqin Zhang, Yongfang Jiang, Mingxiang Zhang, Qiaoxia Tong, Lunli Zhang, Youwen Tan, Anlin Ma, Shuangsuo Dang, Bin Xu

Sensitivity of different RT-qPCR solutions for SARS-CoV-2 detection
23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Julia Alcoba-Florez, Helena Gil-Campesino, Diego García-Martínez de Artola, Rafaela González-Montelongo, Agustín Valenzuela-Fernández, Laura Ciuffreda, Carlos Flores

Molecular characteristics and in vitro susceptibility to bedaquiline of Mycobacterium tuberculosis isolates circulating in Shaanxi, China
23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Jian Yang, Yu Pang, Tianhua Zhang, Xiaoping Xian, Yan Li, Rui Wang, Panting Wang, Meng Zhang, Junyang Wang

Schistosoma japonicum-infected sentinel mice: Surveillance and spatial point pattern analysis in Hubei province, China, 2010–2018
23 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Yanyan Chen, Si Liu, Xiaowei Shan, Hui Wang, Bo Li, Junjing Yang, Lingfeng Dai, Jianbing Liu, Guo Li

Management of intra-abdominal-infections: 2017 World Society of Emergency Surgery guidelines summary focused on remote areas and low-income nations
21 Aug 2020

Impact of the localization on disease course and clinical management in spondylodiscitis
21 Aug 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Martin Stangenberg, Malte Mohme, Klaus Christian Mende, Darius Maximilian Thiesen, Theresa Krätzig, Benjamin Schoof, Sven Oliver Eicker, Marc Dreimann

A sound approach: Hydroxychloroquine reduces mortality in severe COVID-19
21 Aug 2020
Detecting the presence of bacteria in low-volume preoperative aspirated synovial fluid by metagenomic next-generation sequencing

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99

Neisseria meningitidis inside neutrophils, revealing properdin deficiency

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Xinyu Fang, Yuanqing Cai, Tengbin Shi, Zida Huang, Chongjing Zhang, Wenbo Li, Chaofan Zhang, Bin Yang, Wenming Zhang, Zhenpeng Guan

Using droplet digital PCR in the detection of Mycobacterium tuberculosis DNA in FFPE samples

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Ziyang Cao, Wei Wu, Hailing Wei, Caixia Gao, Liping Zhang, Chunyan Wu, Likun Hou

Clarifying the record on hydroxychloroquine for the treatment of patients hospitalized with COVID-19

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Benjamin Gillet, Nicolas Joram, Véronique Frémeaux Bacchi, Caroline Thomas, Marie C. Béné, Soraya Wuillère

Isolation and phylogenetic analysis of SARS-CoV-2 variants collected in Russia during the COVID-19 outbreak

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Liubov Kozlovskaya, Anastasia Piniaeva, Georgy Ignatyev, Alexey Selivanov, Anna Shishova, Anastasia Koupak, Ilia Gordevychuk, Yuri Ivan, Anastasia Berestovskaya, Egor Prokhortchouk, Denis Protsenko, Mikhail Rychev, Aydar Ishmukhametov

Hospital-based surveillance for Japanese encephalitis in Bangladesh, 2007–2016: Implications for introduction of immunization

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Kishor Kumar Paul, Hossain M.S. Sazzad, Mahmudur Rahman, Sharmin Sultana, M. Jahangir Hussain, Jeremy P. Ledermann, Paul Burns, Michael S. Friedman, Meerjady S. Fflora, Marc Fischer, Susan Hills, Stephen P. Luby, Emily S. Gurley

Comorbidities and the risk of severe or fatal outcomes associated with coronavirus disease 2019: A systematic review and meta-analysis

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Yue Zhou, Qing Yang, Jingwei Chi, Bingzi Dong, Wenshan Lv, Liyan Shen, Yangang Wang

Seroprevalence of hepatitis B and hepatitis C among blood donors in Sierra Leone: A multi-year retrospective study

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Francesca Tognon, Stephen Sevalie, Joseph Gassim, John Sesay, Katrina Hann, Mohamed Sheku, Emily Bearse, Francesco Di Gennaro, Claudia Marotta, Giampiero Pellizzer, Giovanni Putoto, Marta Lado, Molly F. Franke, Yusupha Dibba, Sahr Gevao, Fenella Beynon, Annelies W. Mesman

Fifty years of Tuberculous meningitis: The new face of an old enemy

Publication date: October 2020
Source: International Journal of Infectious Diseases, Volume 99
Author(s): Eli S. Rosenberg, David R. Holtgrave, Tomoko Udo
Was school closure effective in mitigating coronavirus disease 2019 (COVID-19)? Time series analysis using Bayesian inference

Effectiveness of hydroxychloroquine in COVID-19 disease: A done and dusted deal?

Advancing COVID-19 vaccines – avoiding different regulatory standards for different vaccines and need for open and transparent data sharing

Problems with the analysis in “Treatment with Hydroxychloroquine, Azithromycin, and Combination in Patients Hospitalized with COVID-19”

Dengue fever as an emerging disease in Afghanistan: Epidemiology of the first reported cases

Early administration of interleukin-6 inhibitors for patients with severe COVID-19 disease is associated with decreased intubation, reduced mortality, and increased discharge

Acute onset olfactory/taste disorders are associated with a high viral burden in mild or asymptomatic SARS-CoV-2 infections

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Journal of Clinical Virology

Coronavirus discovery by metagenomic sequencing: a tool for pandemic preparedness

Assessing oligonucleotide designs from early lab developed PCR diagnostic tests for SARS-CoV-2 using the PCR_strainer pipeline
Cytokine biomarkers associated with clinical cases of acute flaccid myelitis
18 Aug 2020

Detection of Ebola virus from skin ulcers after clearance of viremia
17 Aug 2020

Journal of Hospital Infection

22 Aug 2020

Transmission of Coronavirus Disease 2019 (COVID-19) in healthcare settings has significant implications for patients and healthcare workers, can amplify local outbreaks, and place additional burden on already stretched resources. Risk of missed or late diagnosis of COVID-19 was high during the United Kingdom’s initial ‘containment phase’, because of strict criteria for testing.

Microwave- and Heat-Based Decontamination of N95 Filtering Facepiece Respirators: A Systematic Review
21 Aug 2020

In pandemics such as COVID-19, shortages of personal protective equipment are common. One solution may be to decontaminate equipment such as facemasks for reuse.

Laundering single use gowns in the event of critical shortage: Experience of a UK Acute Trust
21 Aug 2020

The COVID-19 pandemic resulted in unprecedented global use of personal protective equipment (PPE) to protect health care workers (HCW). In the UK gowns were recommended for all patient care until the infection was downgraded from a high consequence infectious disease (HCID) by Public Health England (PHE) on 19th March 2020 [1]; subsequently gowns were advised as ‘airborne PPE’ for aerosol.

Environmental contamination in the isolation rooms of COVID-19 patients with severe pneumonia requiring mechanical ventilation or high-flow oxygen therapy
20 Aug 2020

Identifying the extent of environmental contamination of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is essential for infection control and prevention. The extent of environmental contamination has not been fully investigated in the context of severe coronavirus disease (COVID-19) patients.

Transmission of infection from non-isolated patients with COVID-19 to health care workers
19 Aug 2020

Insufficiently protected health care workers (HCWs) defined as high-risk contacts of patients with COVID-19 are routinely quarantined. This study evaluated transmission of infection from a symptomatic patient with COVID-19 to 60 HCWs exposed ≤2 m for ≥15 minutes, or during aerosol generating procedures.

It’s a trap! The development of a versatile drain biofilm model and its susceptibility to disinfection
19 Aug 2020

Pathogens in drain biofilms pose a significant hospital acquired infection risk. Yet, the evidence of product effectiveness in controlling drain biofilm and pathogen dissemination are scarce. A novel in vitro biofilm model was developed to address the need for a robust, reproducible and simple testing methodology for disinfection efficacy against a complex drain biofilm.
Exceptionally high COVID-19 viral load and very long duration of shedding in a young pauci-symptomatic child with autism resident in an Italian nursing home

22 Aug 2020

Few studies so far have focused on the duration of COVID-19 detection in asymptomatic or pauci-symptomatic subjects (1,2). In asymptomatic adults, the median time from the first positive test to the first of two consecutive negative tests ranges between 7 to 23 days. Only two case-report studies have concerned children, with a detectable virus for 10 days (3) and for 17 days (4).

Internet-based remote consultation facilitates the medical care of patients with chronic skin diseases during COVID-19 pandemic

21 Aug 2020

As a pandemic emergency, the ongoing coronavirus disease 2019 (COVID-19) has globally affected people in different population and greatly disrupts their social lives. Several measures have been carried out by many countries to prevent the transmission of this disease, including testing and treatment of COVID-19 patients, quarantine of suspected individuals, contact tracing, gathering

Detection of PB2 627K mutation in two highly pathogenic isolates of the H7N9 subtype influenza A virus from chickens in northern China

20 Aug 2020

PB2 E627K mutation of influenza A virus has been considered relevant to increased mammalian virulence and adaptation. In H7N9, the substitution is naturally confined to most human isolates and few low pathogenic avian isolates. However, we isolated two highly pathogenic H7N9 variants harboring PB2 627K from chickens in northern China.

Dear the Editor,

18 Aug 2020

Kunutsor SK et al. have written to this journal regarding elevated admission levels of markers of liver injury (alanine aminotransferase and aspartate aminotransferase, gamma-glutamyltransferase, alkaline phosphatase and total bilirubin) may be associated with progression to severe disease or death in COVID-19

Randomized study of antiseptic application technique in healthy volunteers before vascular access insertion (TApAS trial)

18 Aug 2020

In 2015 in the National Healthcare Safety Network report, 0.3% of patients in acute care unit in the United States of America have central catheter-related bloodstream infections (CRBIs) with an incidence of 1.2 CRBIs/1,000 Central Venous Catheter (CVC) days (1). In European countries, the incidence for 1,000 CVC-days range from 1.12 to 4.2 with associated costs estimated from €35.9 to €163

Dear Editor,

18 Aug 2020

Since December 2019, some hospitals in Wuhan City, Hubei Province, have successively found multiple cases of unexplained pneumonia which have now been confirmed as a new type of acute respiratory infection caused by a coronavirus infection

Journal of Infectious Diseases

Mycobacterium avium Complex: Addressing Gaps in Diagnosis and Management

20 Aug 2020

Abstract Nontuberculous mycobacteria (NTM) are ubiquitous in the environment and an important cause of disease. The most common species causing pulmonary disease are members of Mycobacterium avium complex (MAC). MAC pulmonary disease (MAC-PD) can be chronic, debilitating, costly, and associated with a high mortality

Journal of Microbiology, Immunology and Infection

23 Aug 2020
Publication date: Available online 21 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Yu-Hsiang Chung, Tsong-Yih Ou, Shao-Jung Li, Min-Kai Chuang, Te-I Chang

Plasma procalcitonin levels remain low at the onset of gram-positive bacteremia regardless of severity or the presence of shock: A retrospective analysis of patients with detailed clinical characteristics

21 Aug 2020
Publication date: Available online 20 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Yusuke Koizumi, Daisuke Sakanashi, Tomoko Ohno, Akiko Nakamura, Takaaki Kishino, Hideo Kato, Nobuhiro Asai, Masaya Watarai, Kenta Murotani, Yuka Yamagishi, Hiroyuki Suematsu, Hiroshige Mikamo

Clinical manifestations and radiological features by chest computed tomographic findings of a novel coronavirus disease-19 pneumonia among 92 Japanese people

20 Aug 2020
Publication date: Available online 20 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Nobuhiro Asai, Daisuke Sakanashi, Akiko Nakamura, Takaaki Kishino, Hideo Kato, Mao Hagihara, Nobuhiro Asai, Masaya Watarai, Kenta Murotani, Yuka Yamagishi, Hiroshige Mikamo

The fragility of humoral immunity as a physiological safety marker for healthcare workers to return after COVID-19 convalescence

20 Aug 2020
Publication date: Available online 20 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Vânia Lúcia da Silva, Vanessa Cordeiro Dias, Aripuanã Sakurada AranhaWatanabe, Alessandra Barbosa Ferreira Machado, Aline Oliveira Furtado, Cláudio Galuppo Diniz

De-isolation criterion of real-time PCR test in patients with COVID-19: two or three consecutive negative nasal swabs?

20 Aug 2020
Publication date: Available online 20 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Ling-Shan Syue, Yuan-Pin Hung, Chia-Wen Li I, Chin-Shiang Tsai, Po-Lin Chen, Ming-Chi Li, Nan-Yao Lee, Wen-Chien Ko

Olfactory disorder in patients infected with SARS-CoV-2

20 Aug 2020
Publication date: Available online 20 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Yung-Feng Yen, Hsin-Hao Lai, Shang-Yih Chan, Vincent Yi-Fong Su, Ting-Fang Chiu, Chiao-Yu Huang, Chia-Chun Hung, Tzu-Ling Kuo, Ya-Ling Lee, Dachen Chu

Low immunoglobulin G level is associated with poor outcomes in patients with sepsis and septic shock

20 Aug 2020
Publication date: Available online 20 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Masayuki Akatsuka, Hiroomi Tatsumi, Tomoko Sonoda, Yoshiki Masuda

Coronavirus disease associated Immune thrombocytopenia: causation or correlation?

19 Aug 2020
Publication date: Available online 18 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Simona Pascolini, Alessandro Granito, Luigi Muratori, Marco Lenzi, Paolo Muratori

Clinical characteristics and outcomes of culture-negative versus culture-positive osteomyelitis in children treated at a tertiary hospital in central Taiwan

18 Aug 2020
Publication date: Available online 18 August 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Iuan-An Chen, Hsiao-Chuan Lin, Hsiu-Mei Wei, Yu-Lung Hsu, Huan-Cheng Lai, Yan Yi Low, Yu-Ting Chiu, Chien-Chung Kuo, Kao-Pin Hwang
Allergic rhinitis as a key factor for the development of gastroesophageal reflux disease in children
18 Aug 2020
Publication date: Available online 18 August 2020Source: Journal of Microbiology, Immunology and InfectionAuthor(s): Ming-Chu Feng, Yi-Giien Tsai, Yu-Han Chang, Chao-Hung Kuo, Yi-Ching Lin, Chih-Hsing Hung

Coinfections among COVID-19 patients: A Need for Combination Therapy?
18 Aug 2020
Publication date: Available online 18 August 2020Source: Journal of Microbiology, Immunology and InfectionAuthor(s): Resat Ozaras, Ozgur Arslan, Rasim Cirpin, Habibe Duman

Deep sequencing reveals multiclonality and new discrete typing units of Trypanosoma cruzi in rodents from the southern United States
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Henry Pronovost, Anna C. Peterson, Bruno Ghersi Chavez, Michael J. Blum, Eric Dumonteil, Claudia P. Herrera

Immune response to purified protein derivative in infants from helminth-sensitized mothers — A cases series
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Erica de Souza Fernandes, Wheverton Ricardo Correia do Nascimento, Patrícia Alves dos Santos, Cassia Gisele de Oliveira Nóbrega, Virginia Barros Lorena, Constança Simões Barbosa, Décio Medeiros, Silvia Wanick Sarinho, Vlaudênia Maria Assis Costa, Valdênia Maria Oliveira de Souza

Immune response to asymptomatic infections by Entamoeba histolytica and other enteric pathogens in pregnant women and their infants in a high HIV burdened setting in Zimbabwe
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Agness Farai Nhidza, Thajasvarie Naicker, Babill Stray-Pedersen, Tawanda Jonathan Chisango, Edson Panganayi Sibanda, Aziah Ismail, Tsitsi Bandason, Curtis Makaza, Kerina Duri, Takafira Mduluza

An unusual community-acquired invasive and multi systemic infection due to ExoU-harboring Pseudomonas aeruginosa strain: Clinical disease and microbiological characteristics
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Alexandre Elabbadi, Stéphane Pont, Charlotte Verdet, Patrick Plésiat, François Cretin, Guillaume Voiriot, Muriel Fartoukh, Michel Djibré

Rapid and semi-quantitative colorimetric loop-mediated isothermal amplification detection of ASFV via HSV color model transformation
17 Aug 2020
Publication date: Available online 16 August 2020Source: Journal of Microbiology, Immunology and InfectionAuthor(s): Ling-Shan Yu, Sheng-Yeh Chou, Hsing-Yu Wu, Yu-Cheng Chen, Yen-Hsu Chen

Effect of multi-ethnicity and ancestry on prevalence of allergic disease
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Jin Tack Kim, Hwan Soo Kim, Yoon Hong Chun, Jong-seo Yoon, Hyun Hee Kim

Temporal-spatial expressions of interleukin-4, interleukin-10, and interleukin-13 in the brains of C57BL/6 and BALB/c mice infected with Angiostrongylus cantonensis: An immunohistochemical study
17 Aug 2020
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Increased age and proton pump inhibitors are associated with severe Clostridium difficile infections in children
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Tu-Hsuan Chang, Wei-Yun Hsu, Tzu-I. Yang, Chun-Yi Lu, Po-Ren Hsueh, Jong-Min Chen, Ping-Ing Lee, Li-Min Huang, Luan-Yin Chang

Changes in epidemiology and antimicrobial susceptibility of nontyphoid Salmonella in children in southern Taiwan, 1997–2016
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Hsiao-Yu Lo, Fu-Ping Lai, Yao-Jong Yang

Characterization of Salmonella resistance to bile during biofilm formation
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Real-world effectiveness of direct-acting antiviral agents for chronic hepatitis C in Taiwan: Real-world data
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Galectin-9-like from Angiostrongylus cantonensis young adult worms modulates eosinophil chemotaxis in vitro
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Characterization of microRNA profile in IgE-mediated mouse BMMCs degranulation
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Yanhong Li, Jie Liu, Jiaojiao Zhang, Wenjin Zhang, Zhengli Wu

High correlation between human rhinovirus type C and children with asthma exacerbations in Taiwan
17 Aug 2020
Publication date: August 2020Source: Journal of Microbiology, Immunology and Infection, Volume 53, Issue 4Author(s): Yu-Tsun Su, Yen-Ting Lin, Ching-Chi Yang, Shang-Shyue Tsai, Jiu-Yao Wang, Ya-Ling Huang, Ting-I. Lin, Tsun-Mei Lin, Yu-Cheng Tsai, Hong-Ren Yu, Ching-Chung Tsai, Ming-Chun Yang

Lancet

[Comment] In sepsis-induced heart failure, extracorporeal membrane oxygenation can provide support
21 Aug 2020
Sepsis is defined as a life-threatening organ dysfunction caused by a dysregulated host response to infection.1 Septic shock occurs when serum lactate is elevated and vasopressor medication is required despite adequate fluid resuscitation.2 Many cardiovascular features of septic shock exist, including tachycardia, alterations in vascular tone, and reduced ventricular function

Morbidity and Mortality Weekly Report (MMWR)

EARLY RELEASE: Limited Secondary Transmission of SARS-CoV-2 in Child Care Programs - Rhode Island, June 1-July 31, 2020
This report describes investigations of any reported COVID-19 case in a child or adult present at child care programs and mitigation efforts in Rhode Island during June 1-July 31, 2020.

Overdose Education and Naloxone Distribution Within Syringe Service Programs - United States, 2019

This report describes overdose education and naloxone distribution programs within syringe service programs in the United States.


This report describes how the Puerto Rico Department of Health implemented protocols for the diagnosis, management, and prevention of COVID-19 in prisons in Puerto Rico.

RECOMMENDATIONS AND REPORTS: Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices - United States, 2020-21 Influenza Season

This report describes influenza vaccination recommendations from the Advisory Committee on Immunization Practices for the 2020-21 influenza season in the United States.

SUPPLEMENTS: Condom and Contraceptive Use Among Sexually Active High School Students - Youth Risk Behavior Survey, United States, 2019

Contraceptive use among U.S. high school students

SUPPLEMENTS: Interpersonal Violence Victimization Among High School Students - Youth Risk Behavior Survey, United States, 2019

Interpersonal violence victimization among U.S. high school students

SUPPLEMENTS: Suicidal Ideation and Behaviors Among High School Students - Youth Risk Behavior Survey, United States, 2019

Youth Risk Behavior Survey findings on suicidal behaviors among high school students in the U.S.

SUPPLEMENTS: Dietary and Physical Activity Behaviors Among High School Students - Youth Risk Behavior Survey, United States, 2019

Nutrition, physical activity among U.S. high school students

National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13-17 Years - United States, 2019

This report describes national, regional, state, and local vaccination coverage among adolescents aged 13-17 years in the United States based on data CDC received from the 2019 National Immunization Survey-Teen.

Mass Testing for SARS-CoV-2 in 16 Prisons and Jails - Six Jurisdictions, United States, April-May 2020

This report describes the results of mass COVID-19 testing among incarcerated persons in prisons and jails in 16 adult correctional and detention facilities in the United States.

QuickStats: Death Rates from Stroke Among Persons Aged ≥65 Years, by Sex and Age Group - National Vital Statistics System, United States, 2018

This report describes death rates from stroke among persons aged ≥65 years by sex and age.

SUPPLEMENTS: Overview and Methods for the Youth Risk Behavior Surveillance System - United States, 2019

The Youth Risk Behavior Surveillance System is the largest U.S. public health surveillance system and collects data on health behaviors among high school students in grades 9-12.
20 Aug 2020
Lesbian, gay, and bisexual youths experience more violence victimization and report more suicide risk behaviors than heterosexual youths.

SUPPLEMENTS: Prescription Opioid Misuse and Use of Alcohol and Other Substances Among High School Students - Youth Risk Behavior Survey, United States, 2019
20 Aug 2020
Youth Risk Behavior Survey findings on Opioid and other substance use among high school students in the U.S.

SUPPLEMENTS: Tobacco Product Use Among High School Students - Youth Risk Behavior Survey, United States, 2019
20 Aug 2020
Although some forms of tobacco use have decreased among high school students, electronic vapor product use and use of any tobacco products has been increasing.

SUPPLEMENTS: Transportation Risk Behaviors Among High School Students - Youth Risk Behavior Survey, United States, 2019
20 Aug 2020
Youth Risk Behavior Survey findings on transportation risk behaviors among high school students in the U.S.

EARLY RELEASE: COVID-19 Among American Indian and Alaska Native Persons - 23 States, January 31-July 3, 2020
19 Aug 2020
This report describes the cumulative incidence of laboratory-confirmed COVID-19 among American Indian and Alaska Native persons in 23 states.

EARLY RELEASE: Racial and Ethnic Disparities Among COVID-19 Cases in Workplace Outbreaks by Industry Sector - Utah, March 6-June 5, 2020
17 Aug 2020
This report describes workplace outbreak-associated COVID-19 cases in 15 industry sectors in Utah during March 6-June 5, 2020.

Nature Reviews Microbiology - Current Issue

The population genetics of pathogenic Escherichia coli
21 Aug 2020
Nature Reviews Microbiology, Published online: 21 August 2020; doi:10.1038/s41579-020-0416-x
Escherichia coli is a commensal of the vertebrate gut as well as an opportunistic pathogen. In this Review, Denamur and colleagues explore the emergence of virulence during the evolution of E. coli, with a focus on the main ExPEC, InPEC and hybrid clones.

Illuminating the dynamics of biofilms
20 Aug 2020
Nature Reviews Microbiology, Published online: 20 August 2020; doi:10.1038/s41579-020-00439-x
This month’s Under the Lens discusses dual-view light-sheet microscopy and how its use has revealed the dynamics of bacterial biofilm development, a fundamental process found in bacteria.

Nanomaterial-based therapeutics for antibiotic-resistant bacterial infections
19 Aug 2020
Nature Reviews Microbiology, Published online: 19 August 2020; doi:10.1038/s41579-020-0420-1 In this Review, Rotello and colleagues discuss the mechanisms by which nanomaterials can be used to target antibiotic-resistant bacterial infections, highlight design elements and properties of nanomaterials that can be engineered to enhance potency, and explore recent progress and remaining challenges.

Close to home
A recent study reports that anthropogenic land use causes major changes in the diversity and taxonomic composition of reservoir hosts for pathogens, with implications for the emergence of zoonotic diseases.

**The bacteria that time forgot**

A recent study investigated the physiological status of cells isolated from ~101.5 million year old sediment of the South Pacific Gyre.

**Electrified eDNA**

This study found that extracellular DNA mediates efficient extracellular electron transfer by phenazines in Pseudomonas aeruginosa biofilms.

**Mechano-bactericidal actions of nanostructured surfaces**

Newly developed antibacterial nanostructured surfaces show excellent prospects as next-generation biomaterials.

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**New England Journal of Medicine - Current Issue**

**Telephone**

A SARS-CoV-2 mRNA Vaccine — Preliminary Report

Emerging and Reemerging Sexually Transmitted Infections

Serious Ivermectin Toxicity and Human ABCB1 Nonsense Mutations

Case 26-2020: A 60-Year-Old Woman with Altered Mental Status and Weakness on the Left Side

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Molecular characterization of carbapenem-resistant Escherichia coli and Acinetobacter baumannii in the Lao People's Democratic Republic.

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