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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- British Society for Antimicrobial Chemotherapy - 2
- Royal College of General Practitioners - 2

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- Journal of Clinical Virology - 8
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- New England Journal of Medicine - Current Issue - 3
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COVID-19 related research

COVID-19 infection

Maurizio Pompili: Suicide prevention at the time of covid-19
10 Sep 2020
Due to the covid-19 pandemic, Italy has registered an incredibly high number of deaths related to the virus. The outbreak in the northern regions of the country had a higher [...] More... The post Maurizio Pompili: Suicide prevention at the time of covid-19 appeared first on The BMJ.

An Inactivated Virus Candidate Vaccine to Prevent COVID-19
08 Sep 2020
The global struggle against coronavirus disease 2019 (COVID-19) is now in its eighth month since the pandemic virus, severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), first emerged. The severe economic, personal, and psychological adverse effects of shutdowns and social distancing make these effective preventive measures challenging to sustain long-term Developed in conjunction with the @cochrane collab Community and based on @WHO guidance, these Special Collections assemble Cochrane Reviews in key topic areas relating to the prevention and treatment of #COVID19: buff.ly/34VyEnQ

Infection-related guidance

British Association for Sexual Health and HIV

The new guidelines for Epididymo-orchitis have been published. Please navigate to the Current Guidelines section.
11 Sep 2020

British Medical Association

Doctors can be vulnerable too – shielding under strain
10 Sep 2020
Some doctors needing to shield themselves or others from COVID-19 are now finding themselves pressured to return to an unsafe workplace. Tim Tonkin finds out how they're being supported

Outsourced and undermined: the COVID-19 windfall for private providers
08 Sep 2020
The private sector has been the winner in the Government's response to COVID-19 in England – but why, given the growing and predictable litany of mistakes it has made? Peter Blackburn reports
British Society for Antimicrobial Chemotherapy

**BSAC open letter published by the Daily Telegraph**
09 Sep 2020
The post BSAC open letter published by the Daily Telegraph appeared first on British Society for Antimicrobial Chemotherapy.

**Antibiotics are failing – could phage therapy hold the key to stopping antibiotic resistant superbugs?**
08 Sep 2020
The post Antibiotics are failing – could phage therapy hold the key to stopping antibiotic resistant superbugs? appeared first on British Society for Antimicrobial Chemotherapy.

Royal College of General Practitioners

**New data highlights GPs’ significant role in tackling COVID-19 throughout pandemic**
08 Sep 2020
Responding to new research from Queen Mary University of London, published in the British Journal of General Practice, Professor Martin Marshall, Chair of the Royal College of GPs said: “This data shows the significant role GPs and our teams have played in tackling COVID-19 and delivering care to patients during the pandemic – and how the virus has impacted on all parts of the health and care

**New ways of working but GP practices still open, protecting and caring**
07 Sep 2020
GP practices are still open to treat patients, provide advice and issue prescriptions and GPs want anyone who has a health concern to feel reassured that they will be able to get an appointment and see a GP if necessary

Infection-related journals

**American Journal of Medical Quality: Current issue**

**Safety of Alcohol-Based Hand Sanitizers in Behavioral Health Facilities**
11 Sep 2020
American Journal of Medical Quality, Ahead of Print.

**Investigation on Using Smartphones to Obtain Treatment Decisions for Thyroid Cancer Patients Before Surgery**
11 Sep 2020
American Journal of Medical Quality, Ahead of Print.

**Community-Based Production of Quality Face Masks for Personal Protection During the COVID-19 Pandemic**
11 Sep 2020
American Journal of Medical Quality, Ahead of Print. The authors developed a process to produce a reliably fitting face mask from materials that were immediately available to health care workers, to reduce the risk of infection

**An Integrated Model to Accelerate Patient Satisfaction Improvement**
11 Sep 2020
American Journal of Medical Quality, Ahead of Print. Patient satisfaction is gaining traction in the strategic direction and daily operations of hospital executives. The financial penalty/incentive tied to patient satisfaction scores creates a burning platform to accelerate progress
Practical Tips for Ambulatory Care in COVID-19: Lessons Learned in a New York Health System
09 Sep 2020
American Journal of Medical Quality, Ahead of Print. Although significant attention has been allocated to hospital management of COVID-19 patients during this pandemic, less discussed is the management of ambulatory patients. This has resulted in a challenge for ambulatory care providers in the management of COVID-19, particularly in areas with high disease prevalence.

Clinical Infectious Diseases - Advance Access

12 Sep 2020
AbstractBackgroundThe availability of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) serologic testing has rapidly increased. Current assays use a variety of technologies, measure different classes of immunoglobulin or immunoglobulin combinations and detect antibodies directed against different portions of the virus.

All-cause mortality due to bacteraemia during a 60-day non-physician healthcare worker strike
12 Sep 2020
AbstractThis study explored all-cause mortality of bacteraemia diagnosed during a 60-day non-physician healthcare worker strike in 2008. A significant change, with 5.0% (95% CI 1.2-8.7%, p<0.01) absolute risk increase, was seen in 90-day mortality during the strike (n=598) compared with the rest of the study period 2000-2015 (n=75 647).

DNA Methylation and Immune Cell Markers Demonstrate Evidence of Accelerated Aging in Patients with Chronic HBV or HCV, with or without HIV Co-Infection
11 Sep 2020
AbstractBackgroundSeveral chronic diseases have been shown to accelerate biological aging. We investigated age acceleration and the association between peripheral blood DNA methylation (DNAm) and immune cell markers in patients chronically infected with the hepatitis B virus (HBV) or the hepatitis C virus (HCV) with and without human immunodeficiency virus (HIV) co-infection.

Central nervous system safety during brief analytic treatment interruption of antiretroviral therapy within four HIV remission trials: an observational study in acutely treated people living with HIV
11 Sep 2020
AbstractBackgroundThe central nervous system (CNS) is a likely reservoir of HIV, vulnerable to viral rebound, inflammation, and clinical changes upon stopping antiretroviral therapy (ART). It is critical to evaluate the CNS safety of studies using analytic treatment interruption (ATI) to assess HIV remission.

Higher Completion Rates with Self-administered Once-weekly Isoniazid-Rifapentine versus Daily Rifampin in Adults with Latent Tuberculosis
11 Sep 2020
AbstractBackgroundTreatment of latent tuberculosis infection (LTBI) is important for tuberculosis (TB) prevention, and short course rifamycin-based therapies are preferred. Once-weekly isoniazid-rifapentine by self-administered therapy (3HP-SAT) has never been compared with four months of daily rifampin (4R).

Antibiotic Overuse after Hospital Discharge: A Multi-Hospital Cohort Study
11 Sep 2020
AbstractBackground Antibiotics are commonly prescribed to patients as they leave the hospital. We aimed to create a comprehensive metric to characterize antibiotic overuse after discharge among hospitalized patients treated for pneumonia or urinary tract infection (UTI) and determine whether overuse varied across hospitals and conditions.

Social Disadvantage, Politics, and SARS-CoV-2 Trends: A County-Level Analysis of United States Data
11 Sep 2020
AbstractBackground Understanding the epidemiology of SARS-CoV-2 is essential for public health control efforts. Social, demographic, and political characteristics at the US county level might be associated with changes in SARS-CoV-2 case incidence.

Structural vulnerability to COVID-19 among Latinx communities in the United States
11 Sep 2020
COVID-19 Latinx structural risk factors

A randomized, placebo-controlled, double-blind pilot study of single-dose humanized anti-IL5 antibody (reslizumab) for the reduction of eosinophilia following diethylcarbamazine treatment of Loa loa infection
10 Sep 2020
AbstractBackground Diethylcarbamazine citrate (DEC) treatment of loiasis is complicated by adverse reactions that are correlated with the number of circulating microfilariae (mf). The cause of these reactions is unknown, but they are accompanied by a dramatic interleukin-5 (IL-5)-dependent increase in eosinophilia and evidence of eosinophil activation.

Immunomodulatory Therapy for the Management of Loiasis
10 Sep 2020
Management of drug toxicity in M. avium complex pulmonary disease – an expert panel survey
10 Sep 2020
AbstractAdverse events are frequent in NTM pulmonary disease treatment, but evidence to support their management is scarce. An expert panel survey on management of adverse events shows consistent opinions on management of hepatotoxicity, ocular toxicity, ototoxicity, tinnitus and GI upset. These opinions can provide assistance in individual patient management decisions.

3D Printed Alternative to the Standard Synthetic Flocked Nasopharyngeal Swabs Used for COVID-19 testing
10 Sep 2020
AbstractBackground Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19, can be detected in respiratory samples by Real-time Reverse Transcriptase (RT)-PCR or other molecular methods. Accessibility of diagnostic testing for COVID-19 has been limited by intermittent shortages of supplies required for testing, including flocked nasopharyngeal (FLNP) swabs.

The presence of (1→3)-β-D-Glucan as prognostic marker in patients post major abdominal surgery
10 Sep 2020
AbstractBackground While the serological detection of (1→3)-β-Glucan (BDG) can indicate invasive fungal disease (IFD), false positivity occurs. Nevertheless, the presence of BDG can still be recognised by the host’s innate immune system and persistent BDG antigenaemia, in the absence of IFD, can result in deleterious pro-inflammatory immune responses.

Heaping the Pelion of Vancomycin on the Ossa of MRSA: Back to Basics in Clinical Care and Guidelines
09 Sep 2020
09 Sep 2020
AbstractBackground The expansion of the U.S. opioid epidemic has led to significant increases in infections such as infective endocarditis (IE), which is tied to injection behaviors.
We aimed to estimate the population-level IE mortality among people who inject opioids and compare the risk of IE death against the risks of death from other causes.

**Methods**

We developed a microsimulation model of the

**Sub-optimal Intermittent Preventive Treatment in pregnancy (IPTp)** is associated with an increased risk of submicroscopic P. falciparum infection in pregnant women: a prospective cohort study in Benin.

**Abstract**

Background Harmful maternal and neonatal health outcomes result from malaria in pregnancy, the prevention of which primarily relies on intermittent preventive treatment with sulfadoxine-pyrimethamine (IPTp-SP). WHO recommends IPTp-SP in sub-Saharan Africa, but implementation is highly heterogeneous and often sub-optimal in terms of the number of doses and their timing.

**Microbial-disease correlation: time to focus on post-Koch's criteria?**

**Characteristics, Comorbidities, and Outcomes in a Multicenter Registry of Patients with HIV and Coronavirus Disease-19**

**Methodological and reporting quality of non-inferiority randomized controlled trials comparing antibiotic therapies: a systematic review**

**Reply to Satoshi Kitaura et al**

**Suptavumab for the Prevention of Medically Attended Respiratory Syncytial Virus Infection in Preterm Infants**

**Ceftobiprole Compared With Vancomycin Plus Aztreonam in the Treatment of Acute Bacterial Skin and Skin Structure Infections: Results of a Phase 3, Randomized, Double-blind Trial (TARGET)**

**Detection of SARS-CoV-2 RNA in Blood of Patients with COVID-19: What Does It Mean?**

**COVID-19 Prevalence among People Experiencing Homelessness and Homelessness Service Staff during Early Community Transmission in Atlanta, Georgia, April–May 2020**
facility-wide testing events for PEH living sheltered and unsheltered and homelessness service staff in Atlanta, Georgia

Economic Evaluation of Screening Interventions for Drug Induced Liver Injury
08 Sep 2020
Abstract Background HIV/AIDS and TB continue to be a significant global burden, disproportionately affecting low- and middle-income countries (LMICs). While much progress has been made in treating these epidemics, this has led to a rise in liver complications, as patients on ARTs and anti-TBs are at an increased risk of drug-induced liver injury (DILI)

Comparison of A(H3N2) neutralizing antibody responses elicited by 2018-2019 season quadrivalent influenza vaccines derived from eggs, cells, and recombinant hemagglutinin
08 Sep 2020
Abstract Background Low vaccine effectiveness against A(H3N2) influenza in seasons with little antigenic drift has been attributed to substitutions in hemagglutinin (HA) acquired during vaccine virus propagation in eggs

Decreasing High Risk Exposures for Healthcare-workers through Universal Masking and Universal SARS-CoV-2 Testing upon entry to a Tertiary Care Facility
08 Sep 2020
Abstract We describe the impact of universal masking and universal testing at admission on high risk exposures to SARS-CoV-2 for healthcare workers. Universal masking decreased the rate per patient day of high risk exposures by 68%, and universal testing further decreased those exposures by 77%.

Sustained responses of neutralizing antibodies against MERS-CoV in recovered patients and their therapeutic applicability
08 Sep 2020
Abstract Background Zoonotic coronaviruses have emerged as a global threat by causing fatal respiratory infections. Given the lack of specific antiviral therapies, application of human convalescent plasma retaining neutralizing activity could be a viable therapeutic option that can bridge this gap

Vancomycin Advanced Therapeutic Drug Monitoring: An Exercise in Futility or Virtuous Endeavor to Improve Drug Efficacy and Safety?
08 Sep 2020
Abstract Vancomycin is commonly prescribed to hospitalized patients. Decades of pharmacokinetic/pharmacodynamic research culminated in recommendations for area-under-the-curve to minimum inhibitory concentration (AUC/MIC) monitoring to optimize vancomycin exposure and minimize toxicity in the revised 2020 guidelines

CARING at IDWeek: Parental Accommodations and Gender Equity
08 Sep 2020
Abstract Despite increasing parity in the infectious disease workforce, gender inequity persists in our clinical specialty. Inadequate accommodations for young parents at national conferences like IDWeek contribute to these inequities by disproportionately excluding young women from career advancement opportunities

Corrigendum
07 Sep 2020

Characteristics of Ebola Virus Disease Survivor Blood and Semen in Liberia: Serology and RT-PCR
07 Sep 2020
Abstract Introduction Ebola virus (EBOV), species Zaire ebolavirus, may persist in the semen of male survivors of Ebola Virus Disease (EVD). We conducted a study of male survivors of the 2014-2016 EVD outbreak in Liberia and evaluated their immune responses to EBOV
A double-bind and randomized trial to evaluate Miltefosine and topical GM-CSF in the treatment of cutaneous leishmaniasis caused by Leishmania braziliensis in Brazil

Abstract

Background

The treatment of cutaneous leishmaniasis (CL) in Brazil by pentavalent antimony (Sb v) is associated with a high rate of failure. Oral miltefosine in monotherapy has proven high efficacy in CL caused by L. braziliensis with a cure rate of 75%

Common pediatric respiratory infectious diseases may serve as an early predictor for SARS-CoV-2 new wave of infections

Reconsidering assumptions of adolescent and young adult SARS-CoV-2 transmission dynamics

Abstract

Evidence regarding the important role of adolescents and young adults (AYA) in accelerating and sustaining coronavirus disease 2019 (COVID-19) outbreaks is growing. Furthermore, data suggest two known factors that contribute to high severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) transmissibility—presymptomatic transmission and asymptomatic case presentations—may be amplified.

Call for Action: Racial Disparities in Clinical Research

Reply to Pandita, et al

Efficacy and safety of sofosbuvir/velpatasvir/voxilaprevir for HCV NS5A-inhibitor experienced patients with difficult to cure characteristics

Abstract

Background

In clinical trials, HCV salvage treatment with Sofosbuvir/Velpatasvir/Voxilaprevir (SOF/VEL/VOX) achieved an SVR12 rate of >95% in NS5A-experienced participants. Lower SVR12 rates have been reported in real-world studies, particularly for genotype (GT)3 infection and cirrhosis. We determined the efficacy and safety of SOF/VEL/VOX in a large real-world cohort.

George Washington’s Recurrent Health Problems and Fatal Infection Reexamined

Abstract

George Washington’s medical history has been recounted so many times and with such consistency that it seems that nothing new remains to be said about the panoply of disorders which plagued him during his life. The same can be said for the particular one which carried him off at age 67.

Impact of Social Distancing and Travel Restrictions on non-COVID-19 Respiratory Hospital Admissions in Young Children in Rural Alaska

Abstract

Hospitalizations due to non-COVID-19 respiratory illnesses decreased dramatically after social distancing was implemented in a high-risk population in rural Alaska. Our data from the past ten respiratory seasons show that this decline is unprecedented. This demonstrates the potential secondary benefits of implementing social distancing and travel restrictions on respiratory illnesses.

Déjà vu all over again: retreatment of HCV DAA failures- same satisfactory results, same unanswered questions

Abstract

SARS-CoV-2 RNA in plasma is associated with ICU admission and mortality in patients hospitalized with COVID-19

Abstract

The clinical significance of SARS-CoV-2 RNA in the circulation is unknown. In this prospective cohort study, we detected viral RNA in the plasma of 58/123 (47%) patients hospitalized with COVID-19. RNA was detected more frequently, and levels were higher, in patients who were admitted to the ICU and/or died.
Combination Therapy for MRSA Bacteremia: Beauty Remains in the Eye of the Beholder.
05 Sep 2020
COVID-19 and HIV spotlight the U.S. imperative for permanent affordable housing
05 Sep 2020
Abstract Job loss and evictions tied to the COVID-19 pandemic are expected to significantly increase homelessness in the coming months. Reciprocally, homelessness and the many vulnerabilities that inevitably accompany it are driving COVID-19 outbreaks in U.S. shelters and other congregate living situations
Symptomatic SARS-CoV-2 reinfection by a phylogenetically distinct strain
05 Sep 2020
Invasive Fungal Disease complicating COVID-19: when it rains it pours
05 Sep 2020
COVID-associated pulmonary aspergillosisCAPACandidaAspergillusgalactomannanbeta-D-glucan

Clinical Infectious Diseases - Current Issue

A Veterinarian From Vermont Presenting With a Painful Right Index Finger Following a Needlestick Injury That Occurred While Caring for a Dog
12 Sep 2020
A 56-year-old female veterinarian in Vermont presented with swelling and pain of the medial aspect of her right index finger. Three weeks prior to presentation, the patient suffered a needlestick injury from a 21-gauge needle to the medial aspect of her distal right index finger that occurred after aspirating fluid from a subcutaneous cystic mass of a dog

In The Literature
12 Sep 2020
Therapeutic Monitoring of Vancomycin for Serious Methicillin-resistant Staphylococcus aureus Infections: A Revised Consensus Guideline and Review by the American Society of Health-system Pharmacists, the Infectious Diseases Society of America, the Pediatric Infectious Diseases Society, and the Society of Infectious Diseases Pharmacists
13 Jul 2020
Abstract Recent clinical data on vancomycin pharmacokinetics and pharmacodynamics suggest a reevaluation of current dosing and monitoring recommendations. The previous 2009 vancomycin consensus guidelines recommend trough monitoring as a surrogate marker for the target area under the curve over 24 hours to minimum inhibitory concentration (AUC/MIC)

Clinical Microbiology and Infection

Factors associated with local invasion in infective endocarditis: a nested case-control study
10 Sep 2020
Publication date: Available online 9 September 2020Source: Clinical Microbiology and InfectionAuthor(s): Abarna Ramanathan, James C. Witten, Steven M. Gordon, Brian P. Griffin, Gosta B. Pettersson, Nabin K. Shrestha
Co-seasonality and co-detection of respiratory viruses and bacteraemia in children: a retrospective analysis

10 Sep 2020

Publication date: Available online 10 September 2020
Source: Clinical Microbiology and Infection
Author(s): Young June Choe, Sangshin Park, Ian C. Michelow

Immunization registry as a digital assessment tool during outbreaks

10 Sep 2020

Publication date: Available online 10 September 2020
Source: Clinical Microbiology and Infection
Author(s): Chen Stein-Zamir, Avi Israeli, Itamar Grotto

When two for the price of one isn’t a bargain: Estimating prevalence and microbiology of bacterial co-infections in patients with COVID-19

10 Sep 2020

Publication date: Available online 9 September 2020
Source: Clinical Microbiology and Infection
Author(s): J.T. Thaden, S.A. Maskarinec

Detection and infectivity potential of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) environmental contamination in isolation units and quarantine facilities

10 Sep 2020

Publication date: Available online 10 September 2020
Source: Clinical Microbiology and Infection
Author(s): Amir Ben-Shmuel, Tal Brosh-Nissimov, Itai Glinert, Eldad Bar-David, Assa Sittner, Reut Poni, Regev Cohen, Hagit Achdout, Hadas Tamir, Yfat Yahalom-Ronen, Boaz Politi, Sharon Melamed, Einat Vitner, Lilach Cherry, Ofir Israeli, Adi Beth-Din, Nir Paran, Tomer Israely, Shmuel Yitzhaki, Haim levy

Antibiotics versus no therapy in kidney transplant recipients with asymptomatic bacteriuria (BiRT): a pragmatic, multicentre, randomised controlled trial

10 Sep 2020

Publication date: Available online 10 September 2020
Source: Clinical Microbiology and Infection
Author(s): Julien Coussement, Nassim Kamar, Marie Matignon, Laurent Weekers, Anne Scemla, Magali Giral, Judith Racapé, Éric Alamartine, Laurent Mesnard, Mireille Kianda, Lidia Ghisdal, Concetta Catalano, Emine N. Broeders, Olivier Denis, Karl M

Impact of convalescent and nonimmune plasma on mortality of patients with COVID-19. A potential role for antithrombin

10 Sep 2020

Publication date: Available online 9 September 2020
Source: Clinical Microbiology and Infection
Author(s): Carmine Gazzaruso, Cinzia Valenti, Adriana Coppola, Pietro Gallotti

Sample pooling for SARS-COV-2 RT-PCR screening

10 Sep 2020

Publication date: Available online 10 September 2020
Source: Clinical Microbiology and Infection
Author(s): Adolfo de Salazar, Antonio Aguilar, Rocio Trastoy, Ana Fuentes, Juan Carlos Alados, Manuel Causse, Juan Carlos Galán, Antonio Moreno, Matilde Trigo, Mercedes Pérez-Ruiz, Carolina Roldán, Ma José Pena, Samuel Bernal, Esther Serrano-Conde, Gema Barbeito, Eva Torres, Cristina Riazzo, Jose Luis

How to: perform antifungal susceptibility testing of microconidia-forming dermatophytes following the new reference EUCAST method E.Def 11.0, exemplified by Trichophyton

09 Sep 2020

Publication date: Available online 8 September 2020
Source: Clinical Microbiology and Infection
Factors associated with asymptomatic infection in health-care workers with SARS-CoV-2 infection in Wuhan, China: a multi-center retrospective cohort study
08 Sep 2020
Publication date: Available online 7 September 2020Source: Clinical Microbiology and InfectionAuthor(s): Shuai Zhang, Mengfei Guo, Feng Wu, Nian Xiong, Yanling Ma, Zhihui Wang, Limin Duan, Lan Chen, Haixia Ouyang, Yang Jin

Compliance with personal protective equipment to protect healthcare workers during COVID-19: ancillary workers count too
07 Sep 2020
Publication date: Available online 6 September 2020Source: Clinical Microbiology and InfectionAuthor(s): Liang En Wee, Jean Xiang Ying, Sim, Edwin Philip Conceicao, May Kyawt Aung, Ian Mathias Ng, Moi Lin Ling

Detection of SARS-CoV-2 in nasopharynx according to clinical phenotype of affected patients
07 Sep 2020
Publication date: Available online 6 September 2020Source: Clinical Microbiology and InfectionAuthor(s): Francesca Valent, Antonio Di Chiara

Diagnostic Microbiology and Infectious Disease

Validation of SARS CoV-2 detection by real time PCR in matched pooled and deconvoluted clinical samples before and after nucleic acid extraction: A study in tertiary care hospital of North India
13 Sep 2020
Publication date: Available online 12 September 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Komal Chhikara, Poonam Kanta, Arnab Ghosh, Rishi Chetanya Prakash, Kapil Goyal, Mini P Singh

In vitro activity of ceftolozane-tazobactam and ceftazidime-avibactam against Pseudomonas aeruginosa isolated from patients with cystic fibrosis
11 Sep 2020
Publication date: Available online 11 September 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Patrick J. Nolan, Raksha Jain, Leah Cohen, James D. Finklea, Tiffeny T. Smith

Pooling samples: A testing option for SARS-CoV-2 during a supply shortage
11 Sep 2020
Publication date: Available online 11 September 2020Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Hossein Salimnia, Robert Mitchell, Angela Gundel, Alicia Cambell, Fadi Gammou, Teena Chopra, Marilynn Fairfax

Emerging Infectious Diseases Journal - ahead of print

Saliva Alternative to Upper Respiratory Swabs for SARS-CoV-2 Diagnosis
11 Sep 2020
R. L. Byrne et al.

Early Insights from Statistical and Mathematical Modeling of Key Epidemiologic Parameters of COVID-19
11 Sep 2020
M. Biggerstaff et al.
COVID-19 Outbreak Associated with Air Conditioning in Restaurant, Guangzhou, China, 2020
11 Sep 2020
A. M. Rule

Worldwide Effects of Coronavirus Disease Pandemic on Tuberculosis Services, January–April 2020
11 Sep 2020
G. Migliori et al.

09 Sep 2020
L. Byrne et al.

The Last Plague or Before the Graying
09 Sep 2020
R. O. Valdisseri

Seoul Orthohantavirus in Wild Black Rats, Senegal, 2012–2013
09 Sep 2020
M. M. Diagne et al.

The Mosquito: A Human History of Our Deadliest Predator
09 Sep 2020
T. Snyder

Multicenter Prevelance Study Comparing Molecular and Toxin Assays for Clostridioides difficile Surveillance, Swtizerland
09 Sep 2020
A. F. Widmer et al.

Etymologia: Mimivirus
09 Sep 2020
C. Partin

All Bookshelves Are Magical
09 Sep 2020
B. Breedlove

Human Adenovirus B7d–Associated Urethritis after Suspected Sexual Transmission, Japan
07 Sep 2020
N. Hanaoka et al.

07 Sep 2020
C. E. Sanderson et al.

Inappropriate Administration of Rabies Postexposure Prophylaxis, Cook County, Illinois, USA
07 Sep 2020
H. D. Steinberg et al.

Macrolide-Resistant Bordetella pertussis, Vietnam, 2016–2017
07 Sep 2020
K. Kamachi et al.

Effectiveness of 23-Valent Pneumococcal Polysaccharide Vaccine against Invasive Pneumococcal Disease in Adults, Japan, 2013–2017
07 Sep 2020
R. Shimbashi et al.

Q Fever Endocarditis and a New Genotype of Coxiella burnetii, Greece
07 Sep 2020
I. Karageorgou et al.
High Prevalence of Rickettsia raoultii and Associated Pathogens in Canine Ticks, South Korea
07 Sep 2020
M. Seo et al.

Polyester Vascular Graft Material and Risk for Intracavitary Thoracic Vascular Graft Infection
07 Sep 2020
T. A. Schweizer et al.

European Journal of Clinical Microbiology & Infectious Diseases

The Allplex 2019-nCoV (Seegene) assay: which performances are for SARS-CoV-2 infection diagnosis?
13 Sep 2020
Abstract Several commercial assays for SARS-CoV-2 RT-PCR are available but few of them were assessed. We evaluate the Allplex 2019-nCoV (Seegene) assay using 41 nasopharyngeal samples. The rates of agreement were 92.7% and 100% with the GeneFinder COVID-19 plus (Eliotech) and the diagnosis of the infectious disease specialist respectively. Four samples display a Ct < 22

Children account for a small proportion of diagnoses of SARS-CoV-2 infection and do not exhibit greater viral loads than adults
13 Sep 2020
Abstract Previous reports have suggested that children are less affected than adults by SARS-CoV-2. We analyzed SARS-CoV-2 diagnoses between February 27, 2020, and March 14, 2020, and mortality among positive patients in Marseille university hospitals. Of 4050 tested individuals, 228 were positive. Deaths occurred in 2/99 documented cases (both > 85 year-old). Children were majorly asymptomatic

Changing epidemiology and resistance patterns of pathogens causing neonatal bacteremia
13 Sep 2020
Abstract To conduct a survey of the local prevalent bacteria and antibiotic resistance in a referral tertiary neonatal intensive care unit (NICU), in order to assess the efficacy of local antibiotic policies. We reviewed all positive blood and cerebrospinal fluid cultures obtained between January 2007 and December 2017 in the NICU of Schneider Children’s Medical Center of Israel

Septic shock caused by Capnocytophaga canis after a cat scratch
13 Sep 2020
Abstract Capnocytophaga canis is an uncommon cause of septic shock. Only three cases have been previously reported in the literature. In this article, we describe the case of a 70-year-old male admitted to the intensive care unit for septic shock of unknown origin. On day 2, one anaerobic bottle out of the two sets taken at admission turned positive with Gram-negative bacilli

The epidemiology of invasive meningococcal disease and the utility of vaccination in Malta
13 Sep 2020
Abstract Invasive meningococcal disease (IMD) is a vaccine-preventable devastating infection that mainly affects infants, children and adolescents. We describe the population epidemiology of IMD in Malta in order to assess the potential utility of a meningococcal vaccination programme

Letermovir for the compassionate therapeutic use of cytomegalovirus infection
11 Sep 2020
Abstract Purpose Data on the efficacy, dosing and safety of letermovir for the compassionate therapeutic use of CMV infections are limited. Methods Clinical and virological efficacy of
letermovir was assessed in a retrospective single-centre study of patients who received letermovir for the compassionate therapeutic use of CMV infections.

Gastrointestinal symptoms and the acquisition of enteric pathogens in Hajj pilgrims: a 3-year prospective cohort study
11 Sep 2020
Abstract The acquisition of enteric pathogens and risk factors for Hajj-associated diarrhea in Hajj pilgrims is poorly documented. Pilgrims from Marseille participating in the Hajj in 2016–2018 underwent successive systematic rectal swabbing before and after their travel. Carriage of the main enteric pathogens was assessed by real-time PCR.

Clinical and molecular epidemiology of vancomycin-resistant Enterococcus faecium bacteremia from an Indian tertiary hospital
10 Sep 2020
Abstract We determined the clinical and molecular epidemiology of emerging nosocomial vancomycin-resistant Enterococcus faecium (VREfm)—causing serious bloodstream infections (BSIs) and the correlations between antibiotic resistance and virulence determinants among isolates. All isolates were confirmed by molecular methods (16SrRNA and E. faecium ddl genes) and tested for disk diffusion.

How are rapid diagnostic tests for infectious diseases used in clinical practice: a global survey by the International Society of Antimicrobial Chemotherapy (ISAC)
09 Sep 2020
Abstract Novel rapid diagnostic tests (RDTs) offer huge potential to optimise clinical care and improve patient outcomes. In this study, we aim to assess the current patterns of use around the world, identify issues for successful implementation and suggest best practice advice on how to introduce new tests.

Microbiological diagnosis of suspected vertebral osteomyelitis with a focus on the yield of percutaneous needle biopsy: a 10-year cohort study
08 Sep 2020
Abstract This study aims to evaluate in patients hospitalized for vertebral osteomyelitis (VO) the effectiveness of bacteriological diagnosis and the yield of percutaneous needle biopsy (PNB) and to identify factors associated with the result of PNB. This retrospective, two-centre study was conducted between 2000 and 2009.

Molecular epidemiology and antifungal susceptibilities of Cryptococcus species isolates from HIV and non-HIV patients in Southwest China
07 Sep 2020
Abstract To investigated the molecular epidemiology and in vitro antifungal susceptibility of Cryptococcus isolates from West China Hospital from HIV and non-HIV patients between 2009 and 2015. A total of 132 C. neoformans and C. gattii were subjected to antifungal susceptibility testing by E-test method. Among the 132 isolates, 42 C. neoformans and C

Application and clinical impact of the RESIST-4 O.K.N.V. rapid diagnostic test for carbapenemase detection in blood cultures and clinical samples
07 Sep 2020
Abstract Invasive infections caused by carbapenemase-producing bacteria are associated with excess mortality. We applied a rapid diagnostic test (RDT) on clinical samples with an elevated likelihood of carbapenemase-producing bacteria and documented its impact on antibiotic treatment decisions. Among 38 patients, twelve tested positive for infections caused by carbapenemase-producing bacteria (31

Eurosurveillance latest updates
Reduced maximal aerobic capacity after COVID-19 in young adult recruits, Switzerland, May 2020
10 Sep 2020
In March 2020, we observed an outbreak of COVID-19 among a relatively homogenous group of 199 young (median age 21 years; 87% men) Swiss recruits. By comparing physical endurance before and in median 45 days after the outbreak, we found a significant decrease in predicted maximal aerobic capacity in COVID-19 convalescent but not in asymptomatically infected and SARS-CoV-2 naive recruits.

Mortality from malaria in France, 2005 to 2014
10 Sep 2020
Introduction Malaria is a notifiable disease in all European Union and European Economic Area countries except Belgium and France, where only autochthonous malaria is notifiable. Although morbidity caused by malaria has been assessed, little is known about mortality incidence. Objective Our aim was to estimate the number of imported malaria-related deaths in hospital in metropolitan France.

Assessment of biorisk management systems in high containment laboratories, 18 countries in Europe, 2016 and 2017
10 Sep 2020
Europe-wide activities to improve biosafety and biosecurity performed within the frameworks of the European Union (EU)-funded Joint Actions EMERGE and QUANDHIP led to the development of an Integrated European Checklist for Laboratory Biorisk Management (ECL).

Transmission of SARS-CoV-2 in children aged 0 to 19 years in childcare facilities and schools after their reopening in May 2020, Baden-Württemberg, Germany
10 Sep 2020
We investigated data from severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infected 0–19 year olds, who attended schools/childcare facilities, to assess their role in SARS-CoV-2 transmission after these establishments’ reopening in May 2020 in Baden-Württemberg, Germany. Child-to-child transmission in schools/childcare facilities appeared very uncommon.

First autochthonous dengue outbreak in Italy, August 2020
10 Sep 2020
In August 2020, during the coronavirus disease (COVID-19) pandemic, five locally acquired cases of dengue virus type 1 were detected in a family cluster in Vicenza Province, North-East Italy where Aedes albopictus mosquitoes are endemic. The primary case was an importation from West Sumatra, Indonesia. This is the first outbreak of autochthonous dengue reported in Italy.

Infection

Strongyloides infection manifested during immunosuppressive therapy for SARS-CoV-2 pneumonia
10 Sep 2020
Abstract Background SARS-CoV-2 pandemic has posed formidable public health and clinical challenges. The use of immunosuppressive agents, such as high dose corticosteroids and cytokine inhibitors (e.g., Tocilizumab) has been suggested to contrast the hyperinflammatory process involved in the pathogenesis of the severe disease, with conflicting evidence.

Comparison of four commercial SARS-CoV-2 IgG immuno-assays in RT-PCR negative patients with suspect CT findings
10 Sep 2020
Abstract A subset of patients with Covid-19 presents with negative RT-PCR screening but suspect CT findings. Using four commercially available anti-SARS-CoV-2 IgG immuno-assays, we found this subset constituted 9.2% of all consecutively admitted outpatients with Covid-19 in our hospital.
Comparison of central-line–associated bloodstream infections between central venous catheters lined by combined chlorhexidine and silver sulfadiazine versus silver ionotrophes alone: A before–after–before retrospective study
11 Sep 2020
Published online by Cambridge University Press:
Clinical impact of early reinsertion of a central venous catheter after catheter removal in patients with catheter-related bloodstream infections
09 Sep 2020
Published online by Cambridge University Press:
Direct costs and clinical impact of adenovirus genotype 8 conjunctivitis outbreak in a neonatology unit
09 Sep 2020
Published online by Cambridge University Press:
Improving the communication of hand hygiene procedures: Controlled observation, redesign, and randomized group comparisons
08 Sep 2020
Published online by Cambridge University Press:

International Journal of Infectious Diseases

Intranational differences in the case fatality rates for COVID-19 among Peruvian physicians
13 Sep 2020
Pharmacokinetics of Echinocandins in Suspected Candida Peritonitis: a Potential Risk for Resistance
13 Sep 2020
Publication date: Available online 13 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Francesca Gioia, Alicia Gomez-Lopez, Maria Elena Alvarez, Elia Gomez-García de la Pedrosa, Pilar Martín-Davila, Manuel Cuenca-Estrella, Santiago Moreno, Jesús Fortun
Performance and acceptability of self-collected human papillomavirus testing among women living with HIV
13 Sep 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Runzhi Wang, Kristen Lee, Charlotte A. Gaydos, Jean Anderson, Jean Keller, Jenell Coleman
Safeguarding gains in the Sexual and Reproductive Health and AIDS Response amidst COVID-19: The Role of African Civil Society
11 Sep 2020
Publication date: Available online 11 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Rouzeh Eghtessadi, Zindoga Mukandavire, Farirai Mutenherwa, Diego Cuadros, Godfrey Musuka
Ending the epidemic of HIV/AIDS by 2030: will there be an endgame to HIV, or an endemic HIV requiring an integrated health systems response in many countries?
11 Sep 2020
Publication date: Available online 11 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Yibeltal Assefa, Charles F. Gilks

Risk factors for non-invasive/invasive-ventilatory support in patients with COVID-19 pneumonia: a retrospective study within a multidisciplinary approach
11 Sep 2020
Publication date: Available online 11 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Lorenzo Roberto Suardi, Carlo Pallotto, Sara Esperti, Elisa Tazzoli, Filippo Baragli, Elena Salomoni, Annarita Bottu, Francesca Covai Frigieri, Maddalena Pazzi, Caterina Stera, Martina Carlucci, Raffaella Papa, Tommaso Meconi, Vittorio Pavoni, Pierluigi Blanc

COVID-19: Poor outcomes in patients with Zinc deficiency
11 Sep 2020
Publication date: Available online 10 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Dinesh Jothimani, Ezhilarasan Kailasam, Silas Danielraj, Balaji Nallathambi, Hemalatha Ramachandran, Padmini Sekar, Shruthi Manoharan, Vidyalakshmi Ramani, Gomathy Narasimhan, Ilankumaran Kaliamoorthy, Mohamed Rela

Antibody-dependent enhancement of Coronavirus
11 Sep 2020
Publication date: Available online 11 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Jieqi Wen, Yifan Cheng, Rongsong Ling, Yarong Dai, Boxuan Huang, Wenjie Huang, Siyan Zhang, Yizhou Jiang

Association of baseline white blood cell counts with tuberculosis treatment outcome: a prospective multicentered cohort study
11 Sep 2020
Publication date: Available online 10 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Carole Chedid, Eka Kokhreidze, Nestani Tukvadze, Sayera Banu, Mohammad Khaja Mafi Uddin, Samanta Biswas, Graciela Russomando, Chyntia Carolina Diaz Acosta, Rossana Arenas, Paulo P.R

HIGH PREVALENCE OF PARVOVIRUS B19 INFECTION IN PATIENTS WITH CHRONIC KIDNEY DISEASE UNDER HEMODIALYSIS: A MULTICENTER STUDY
11 Sep 2020
Publication date: Available online 11 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Daniel Rocha Alves, Barbara Barbosa Langella, Jakeline Ribeiro Barbosa, Danielle Malta Lima, Jeová Keny Baima Colares, Rita de Cassia Nasser Cubel Garcia, Marcelo Alves Pinto, Livia Melo Villar, Luciane Almeida Amado

Covid-19 Hyperinflammation and Post-Covid-19 Illness May Be Rooted in Mast Cell Activation Syndrome
11 Sep 2020
Publication date: Available online 10 September 2020Source: International Journal of Infectious DiseasesAuthor(s): Lawrence B. Afrin, Leonard B. Weinstock, Gerhard J. Molderings

A follow-up study of recovered patients with COVID-19 in Wuhan, China
10 Sep 2020
Publication date: October 2020Source: International Journal of Infectious Diseases, Volume 99Author(s): Shiuua Luo, Yanrong Guo, Xiaochun Zhang, Haibo Xu

Impact of dedicated infectious disease teamwork on the treatment and prognosis of patients with diabetic foot infection
09 Sep 2020
Clinical performance of four immunoassays for antibodies to SARS-CoV-2, including a prospective analysis for the diagnosis of COVID-19 in a real-life routine care setting
08 Sep 2020

Brief comparative evaluation of six open one-step RT-qPCR mastermixes for the detection of SARS-CoV-2 RNA using a Taqman probe
08 Sep 2020

Comparison of eight commercial, high-throughput, automated or ELISA assays detecting SARS-CoV-2 IgG or total antibody
07 Sep 2020

Comparison of the GeneFinderTM COVID-19 Plus RealAmp Kit on the sample-to-result Platform ELITe InGenius to the national reference method: an added value of N gene target detection?
07 Sep 2020

Journal of Hospital Infection

Excess mortality due to pandrug-resistant Acinetobacter baumannii infections in hospitalized patients
11 Sep 2020

Pandrug-resistant Acinetobacter baumannii (PDRAB) is increasingly being reported as a nosocomial pathogen worldwide but determining its clinical impact is challenging.

Clinical impact of pharmacist-directed antimicrobial stewardship guidance following blood culture rapid diagnostic testing
11 Sep 2020

Rapid diagnostic testing (RDT) has shown to be associated with improved clinical outcomes.

Intermittent viral shedding in respiratory samples of patients with SARS-CoV-2: observational analysis with infection control implications
10 Sep 2020

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has been a global health concern since December 2019. It was feared that intermittent positive cases may indicate a reinfection as there were a number of patients who had positive reverse-transcriptase–polymerase-chain-reaction (RT-PCR) after initial negative test [1]

Thermally bonded disinfectant for self-decontamination of fabric against SARS-CoV-2
10 Sep 2020

The coronavirus disease 2019 (COVID-19) pandemic has infected millions of people and poses a global health emergency. The disease is caused by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), from the Betacoronavirus genus. Transmission of SARS-CoV-2 takes place through close contact from person-to-person, via fomites or through inhalation of viral particles (1)

Carbapenemase-Producing Enterobacterales (CPE) in Hospital Drains in Southern Ontario, Canada
08 Sep 2020

Hospital drains may be an important reservoir for carbapenemase-producing Enterobacterales (CPE).

Does Copper treating of commonly touched surfaces reduce healthcare acquired infections? A Systematic Review and meta-analysis
08 Sep 2020

Healthcare acquired infections (HAIs) cause substantial morbidity and mortality. Copper appears to have strong antimicrobial properties under laboratory conditions.
Rapid SARS-CoV-2 Inactivation by Commonly Available Chemicals on Inanimate Surfaces
08 Sep 2020
The emergence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has become a global health concern with a total of over 7.5 million confirmed cases (as of June, 2020; [1]). Due to a lack of specific therapies, the prevention of SARS-CoV-2 spread via droplets, contaminated hands, or surfaces, represents the primary intervention

Acquisition of MDR-GNB in hospital settings: a systematic review and meta-analysis focussing on ESBL-E
08 Sep 2020
Extended-spectrum beta-lactamase producing Enterobacteriaceae (ESBL-E) and other multi-drug resistant gram-negative bacteria (MDR-GNB) have globally disseminated since their discovery in the late 20th century. Various infection prevention and control measures are in place to prevent nosocomial transmission of these organisms, but their efficacy remains disputed

Mapping hospital antimicrobial stewardship programs in the Gulf Cooperation Council States against international standards: A systematic review
07 Sep 2020
While there is evidence of implementation of antimicrobial stewardship programmes (ASP) in the Gulf Cooperation Council (GCC) States, there has been limited benchmarking and mapping to international standards and frameworks.

Journal of Infection

The association between corticosteroid uses and mortality among severe COVID-19 patients
12 Sep 2020
We read with great interest recent meta-analysis1 by Yang et al, in which they analyzed a total of 5270 patients from 15 studies and found that the use of corticosteroid treatment was associated higher mortality, longer length of stay and a higher rate of bacterial infection among patients with coronavirus infection

Clinical characteristics of 345 patients with coronavirus disease 2019 in Japan: a multicenter retrospective study
10 Sep 2020
Lu and colleagues recently reviewed mortality-related risk factors of COVID-19.1 COVID-19 was first reported in Wuhan, China, in December 2019 and subsequently spread globally, leading to a pandemic;2 as of August 25, 2020, more than 23 million people worldwide had been confirmed to have COVID-19 infections, and more than 810,000 patients had died

A possible role for GRP78 in cross vaccination against COVID-19
10 Sep 2020
We previously reported in this Journal 1 that cell-surface Glucose Regulated Protein 78 (CS-GRP78), also termed heat shock protein A5 (HSPA5), could be a possible route for SARS-CoV-2 internalization. We predicted the binding site on the spike protein of SARS-CoV-2 that can recognize CS-GRP78

Fecal Microbiota Transplantation for multidrug-resistant organism: Efficacy and Response prediction
10 Sep 2020
Over the past several decades, human gut microbes have been under constant antibiotic assault in the form of medical therapies, resulting in the deterioration of microbiomes. Alterations in gut microbiota are linked to irritable bowel syndrome, inflammatory bowel diseases, asthma, allergic diseases, cardiovascular diseases, metabolic syndrome, autoimmune diseases, and even neurological diseases
A quality improvement project to standardise decontamination procedures in a single NHS board in Scotland

Journal of Infection Prevention, Ahead of Print. Background: A project was designed to improve decontamination procedures in our hospitals. This included: improving skills with training provided within clinical areas, simplifying procedures to reduce variation and increasing access to decontamination products.

Efficacy of clarithromycin-naproxen-oseltamivir combination therapy versus oseltamivir alone in hospitalized pediatric influenza patients


Emergence of Macrolide-resistant Streptococcus pyogenes emm12 in Southern Taiwan from 2000 to 2019

Journal of Microbiology, Immunology and Infection. Publication date: Available online 12 September 2020. Source: Journal of Microbiology, Immunology and Infection. Author(s): Wei-Chun Tsai, Ching-Fen Shen, Ya-Lan Lin, Fan-Ching Shen, Pei-Jane Tsai, Shu-Ying Wang, Yee-Shin Lin, Jiunn-Jong Wu, Chia-Yu Chi, Ching-Chuan Liu.

In vitro Activity of Arbekacin Against Multidrug-Resistant Gram-Negative Bacilli


SARS-CoV-2-induced immunodysregulation and the need for higher clinical suspicion for co-infection and secondary infection in COVID-19 patients

Journal of Microbiology, Immunology and Infection. Publication date: Available online 8 September 2020. Source: Journal of Microbiology, Immunology and Infection. Author(s): Allison Parrill, Tiffany Tsao, Vinh Dong, Nguyen Tien Huy.

Valaciclovir to prevent vertical transmission of cytomegalovirus after maternal primary infection during pregnancy: a randomised, double-blind, placebo-controlled trial

Lancet. Publication date: 11 September 2020. Valaciclovir is effective in reducing the rate of fetal cytomegalovirus infection after maternal primary infection acquired early in pregnancy. Early treatment of pregnant women with primary infection might prevent termination of pregnancies or delivery of infants with congenital cytomegalovirus.

Complicated pneumonia in children
Complicated community-acquired pneumonia in a previously well child is a severe illness characterised by combinations of local complications (eg, parapneumonic effusion, empyema, necrotising pneumonia, and lung abscess) and systemic complications (eg, bacteraemia, metastatic infection, multiorgan failure, acute respiratory distress syndrome, disseminated intravascular coagulation, and, rarely).

[Comment] Secondary prevention of congenital cytomegalovirus infection
11 Sep 2020
The burden of congenital cytomegalovirus infection is an unmet public health issue. Congenital cytomegalovirus affects 0.7% of all neonates worldwide, and 15–20% of these have long-term sequelae.1 In high-income countries, around half of infected neonates are infected after maternal primary infection, and the other half after maternal non-primary infection (reactivation or reinfection)

Morbidity and Mortality Weekly Report (MMWR)

EARLY RELEASE: Transmission Dynamics of COVID-19 Outbreaks Associated with Child Care Facilities - Salt Lake City, Utah, April-July 2020
11 Sep 2020
This report describes transmission of SARS-CoV-2 among household members following exposure of 46 non-child care facility contacts linked to 12 children with COVID-19.

Prevalence of Underlying Medical Conditions Among Selected Essential Critical Infrastructure Workers - Behavioral Risk Factor Surveillance System, 31 States, 2017-2018
10 Sep 2020
This report describes the prevalence of underlying medical conditions in workers from six essential occupations and seven essential industries.

Community and Close Contact Exposures Associated with COVID-19 Among Symptomatic Adults ≥18 Years in 11 Outpatient Health Care Facilities - United States, July 2020
10 Sep 2020
This report describes close contact and community COVID-19 exposures among adults who visited outpatient health care facilities and received either a positive COVID-19 test result or negative COVID-19 test result.

Newborn Screening Practices and Alpha-Thalassemia Detection - United States, 2016
10 Sep 2020
This report describes a 2016 analysis of newborn screenings in the United States, which found that practices to detect alpha-thalassemia varied state to state.

Delay or Avoidance of Medical Care Because of COVID-19-Related Concerns - United States, June 2020
10 Sep 2020
This report describes a disruption of routine and nonemergency care during June, with 41% of adults delaying medical care because of concerns about COVID-19.

Hurricane Evacuation Laws in Eight U.S. Coastal States - December 2018
10 Sep 2020
This report describes hurricane evacuation laws in eight southern U.S. coastal states and how those laws affect safety of the people living in those regions.

Frequent Mental Distress Among Adults, by Disability Status, Disability Type, and Selected Characteristics - United States, 2018
This report describes a comparison of mental distress among adults with and without disabilities.

Infants with Congenital Disorders Identified Through Newborn Screening - United States, 2015-2017

This report describes how newborn screenings in the United States during 2015-2017 identified congenital disorders.

QuickStats: Age-Adjusted Lung Cancer Death Rates, by State - National Vital Statistics System, United States, 2018

This report describes findings from the National Center for Health Statistics on the age-adjusted lung cancer death rates in the United States during 2018.

EARLY RELEASE: E-cigarette Use Among Middle and High School Students - United States, 2020

This report describes the use of e-cigarettes, including flavored products and disposable products, among youths in the United States.

EARLY RELEASE: E-cigarette Unit Sales, by Product and Flavor Type - United States, 2014-2020

This report indicates that e-cigarette sales increased during 2014-2020, but there were fluctuations overall and by product and flavor type, which could be due to consumer preferences and accessibility.

Nature Reviews Microbiology - Current Issue

**Zika virus enhances dengue risk**
11 Sep 2020
Nature Reviews Microbiology, Published online: 11 September 2020; doi:10.1038/s41579-020-00455-x This study found that Zika virus infection enhances future risk of severe dengue disease.

**A perfect match**
11 Sep 2020
Nature Reviews Microbiology, Published online: 11 September 2020; doi:10.1038/s41579-020-00457-9 A recent study investigated bacterial–fungal symbioses and found that fungal responses to bacteria differed depending on whether the relationship was mutualistic or antagonistic.

**Controlling the nucleus from a distance**
11 Sep 2020
Nature Reviews Microbiology, Published online: 11 September 2020; doi:10.1038/s41579-020-00456-w This paper found that cytoplasmic control of intranuclear polarity by human cytomegalovirus leads to segregation of viral DNA from heterochromatin, thus promoting virus replication.

**The macrophage patrol**
10 Sep 2020
Nature Reviews Microbiology, Published online: 10 September 2020; doi:10.1038/s41579-020-00452-0 This study shows that alveolar macrophages patrol the lung to take up inhaled bacteria and that influenza virus infection can interfere with this function.

**Prospects for SARS-CoV-2 diagnostics, therapeutics and vaccines in Africa**
10 Sep 2020
Nature Reviews Microbiology, Published online: 10 September 2020; doi:10.1038/s41579-020-00441-3 The COVID-19 pandemic has prompted unparalleled progress in the
development of vaccines and therapeutics in many countries, but it has also highlighted the vulnerability of resource-limited countries in Africa

**Syntrophic pair goes all in**  
10 Sep 2020  
Nature Reviews Microbiology, Published online: 10 September 2020; doi:10.1038/s41579-020-00454-y This study suggests that two syntrophic Clostridium species can fuse and exchange cellular material, creating hybrid cells.

**The complex mosaic of H. pylori evolution**  
10 Sep 2020  
Nature Reviews Microbiology, Published online: 10 September 2020; doi:10.1038/s41579-020-00453-z A large genome dataset investigates the evolutionary history of Helicobacter pylori and its links to human migration.

**A resistant niche**  
09 Sep 2020  
Nature Reviews Microbiology, Published online: 09 September 2020; doi:10.1038/s41579-020-00447-x This study shows that Aspergillus fumigatus develops spatial hypoxic microenvironments during biofilm maturation that contribute to antifungal drug resistance.

**Genomic and fossil windows into the secret lives of the most ancient fungi**  
09 Sep 2020  
Nature Reviews Microbiology, Published online: 09 September 2020; doi:10.1038/s41579-020-0426-8 Fungi originated in a freshwater environment and their evolution accompanied the rise of algae and land plants. In this Review, Berbee and colleagues examine the fossil and genomic record of ancient fungi and the inferences we can make about their lifestyle.

New England Journal of Medicine - Current Issue

**Trained Innate Immunity, Epigenetics, and Covid-19**  
09 Sep 2020  

**Facial Masking for Covid-19 — Potential for “Variolation” as We Await a Vaccine**  
08 Sep 2020  
New England Journal of Medicine, Ahead of Print.

“**When Will We Have a Vaccine?” — Understanding Questions and Answers about Covid-19 Vaccination**  
08 Sep 2020  
New England Journal of Medicine, Ahead of Print.

Scandinavian Journal of Infectious Diseases: Table of Contents

**The prevalence and risk-factors of oral HPV DNA detection among HIV-infected men between men who have sex with men and heterosexual men**  
11 Sep 2020
Review: Diagnosis of Helicobacter pylori infection.
14 Sep 2020
Review: Diagnosis of Helicobacter pylori infection. Helicobacter. 2020 Sep;25 Suppl 1:e12735
Authors: Godbole G, Mégraud F, Bessède E Abstract New imaging techniques are still the topic of many evaluations for both the diagnosis of Helicobacter pylori gastritis and the detection of early gastric cancer

13 Sep 2020

Risk stratification of patients admitted to hospital with covid-19 using the ISARIC WHO Clinical Characterisation Protocol: development and validation of the 4C Mortality Score.
13 Sep 2020

Antimicrobial resistance in Mycoplasma genitalium sampled from the British general population.
13 Sep 2020

13 Sep 2020

Substantial prevalence of enteroparasites Cryptosporidium spp., Giardia duodenalis and Blastocystis sp. in asymptomatic schoolchildren in Madrid, Spain, November 2017 to June 2018.
13 Sep 2020
Related Articles Substantial prevalence of enteroparasites Cryptosporidium spp., Giardia duodenalis and Blastocystis sp. in asymptomatic schoolchildren in Madrid, Spain, November 2017 to June 2018. Euro Surveill

10 Sep 2020
Authors: Willis C, McLauchlin J, Aird H, Amar C, Barker C, Daliman T, Elviss N, Lai S, Sadler-Reeves L Abstract Frozen vegetables have previously been associated with outbreaks of listeriosis in both the USA and

**Heterosubtypic cross-protection correlates with cross-reactive interferon-gamma-secreting lymphocytes in the ferret model of influenza.**

10 Sep 2020

Authors: Gooch KE, Marriott AC, Ryan KA, Yeates P, Slack GS, Brown PJ, Fothergill R, Whittaker CJ, Carroll MW Abstract An effective universal vaccine for influenza will likely need to induce virus-specific T-cells,

**Determining the Origins of Human Immunodeficiency Virus Type 1 Drug-resistant Minority Variants in People Who Are Recently Infected Using Phylogenetic Reconstruction.**

10 Sep 2020


**Factors associated with adherence to self-isolation and lockdown measures in the UK: a cross-sectional survey.**

09 Sep 2020