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.

COVID-19 related research
• COVID-19 infection - 1

Infection-related guidance
• British Society for Antimicrobial Chemotherapy - 1
• European Centre for Disease Prevention and Control - 3
• Infectious Diseases Society of America - 5

Infection-related journals
• American Journal of Infection Control - 11
• American Journal of Medical Quality: Current issue - 4
• Clinical Microbiology and Infection - 19
• Current Opinion in Virology - 1
• Diagnostic Microbiology and Infectious Disease - 2
• Emerging Infectious Diseases Journal - ahead of print - 9
• Eurosurveillance latest updates - 6
• Hepatology - 2
• Infection - 2
• Infection Control & Hospital Epidemiology - FirstView Article - 4
• International Journal of Infectious Diseases - 18
• Journal of Clinical Virology - 2
• Journal of Hospital Infection - 9
• Journal of Infection - 10
• Journal of Infection Prevention - 5
• Journal of Infectious Diseases - 11
• Journal of Microbiology, Immunology and Infection - 2
• Morbidity and Mortality Weekly Report (MMWR) - 10
• Nature Reviews Microbiology - Current Issue - 7
• New England Journal of Medicine - Current Issue - 6
• Scandinavian Journal of Infectious Diseases: Table of Contents - 2

NIS Affiliation
• PubMed: NIS affiliation - 13
COVID-19 related research

COVID-19 infection

In a new risk-benefit analysis, researchers estimate that for every one excess death due to #COVID19 acquired during routine vaccination clinic visits, 84 deaths in children could be prevented by sustaining routine childhood #immunisation in Africa thelancet.com/journals/langl...
18 Jul 2020

Infection-related guidance

British Society for Antimicrobial Chemotherapy

NICE guideline (CG54) Urinary tract infection in under 16s: diagnosis and management
20 Jul 2020
The post NICE guideline (CG54) Urinary tract infection in under 16s: diagnosis and management appeared first on British Society for Antimicrobial Chemotherapy.

European Centre for Disease Prevention and Control

Chlamydia infection - Annual Epidemiological Report for 2018
24 Jul 2020
For 2018, 26 EU/EEA Member States reported 406 406 confirmed cases of chlamydia infection.

Legionnaires’ disease - Annual Epidemiological Report for 2018
23 Jul 2020
Legionnaires’ disease remains an uncommon and mainly sporadic respiratory infection with an overall notification rate of 2.2 per 100 000 for the EU/EEA in 2018.

Hepatitis B - Annual Epidemiological Report for 2018
22 Jul 2020
For 2018, 30 EU/EEA Member States reported 24 588 cases of hepatitis B virus (HBV) infection. When the five countries that only reported acute cases are excluded, the number of cases is 24 034, which corresponds to a crude rate of 6.0 cases per 100 000 population.

Infectious Diseases Society of America

If convalescent plasma is effective for treatment of mild infection, then perhaps vaccine research could be accelerated w/ challenge studies. That is, vaccinate some people & then expose them to the virus on purpose.
22 Jul 2020
If convalescent plasma is effective for treatment of mild infection, then perhaps vaccine...
If they end up getting the infection, they could be rescued with plasma. Without an effective therapy no one would really do those kinds of studies.

22 Jul 2020

If they end up getting the infection, they could be rescued with plasma. Without an effective option for prevention & treatment of infection.

Finding out about plasma can be an end in and of itself- potentially providing a therapeutic option for prevention & treatment of infection.

22 Jul 2020

option for prevention & treatment of infection.

When 2 hair stylists were confirmed to have COVID-19, none of the 139 customers they served while sick showed signs of infection. The salon’s adherence to a mask policy appears to have made the difference, says @CDCgov. @SciSpeaksBlog reports: bit.ly/3hnZfji #WearAMask

22 Jul 2020

the 139 customers they served while sick showed signs of infection. The salon's adherence to a mask

Incredibly excited and humbled that our study evaluating the impact of checkpoint inhibitor immunotherapy on infection risk in patients with advanced lung cancer is now online @IDSAInfo @OUPMedicine @MDAndersonNews academic.oup.com/cid/cid/articl...

22 Jul 2020

checkpoint inhibitor immunotherapy on infection risk in patients with advanced lung cancer is now online

Infection-related journals

American Journal of Infection Control

Table of Contents

26 Jul 2020

Editorial Board

26 Jul 2020

Information for Readers

26 Jul 2020

Erratum

26 Jul 2020


APIC Masthead

26 Jul 2020

Information for Authors

26 Jul 2020

Additional medical costs associated with ventilator-associated pneumonia in an intensive care unit in Japan

25 Jul 2020

Additional medical costs associated with ventilator-associated pneumonia in an intensive care unit in Japan

Although various preventable measures have been introduced, ventilator-associated pneumonia (VAP) remains one of the most important nosocomial infections in the world today.1 VAP accounts for 25% of infections in the ICU 2 and occurs in approximately 10% of ventilator patients
Practice and exploration of infection prevention and control measures based on risk management of surgical patients during the epidemic of Corona Virus Disease 2019 (COVID-19)
20 Jul 2020
In December 2019, an outbreak of SARS-CoV-2 infection that causes COVID-19 occurred in Wuhan, Hubei Province, China. With the spread of the epidemic, cases have spread to other regions of China and abroad.2

Recruitment and Hiring Practices in United States Infection Prevention and Control Departments: Results of a National Survey
20 Jul 2020
Infection prevention is a profession that requires highly specified skills and clinical experience. Infection Preventionists (IPs) direct interventions that protect patients from healthcare-associated infections across clinical and community settings. To enhance the hiring and recruitment of diverse IPs, it is key to understand current recruitment and hiring practices.

Examining instruments used to measure knowledge of catheter-associated urinary tract infection prevention in healthcare workers: a systematic review
20 Jul 2020
Catheter-associated urinary tract infection (CAUTI) is the most frequently occurring healthcare associated infection (HAI) among hospitalised patients. Adequate knowledge of CAUTI in healthcare workers supports effective prevention and control of the infection. This systematic review assesses instruments used to assess knowledge of CAUTI prevention in healthcare workers to inform future research.

Developing and Implementing an Infection Prevention and Control Program for a COVID-19 Alternative Care Site in Philadelphia, PA
19 Jul 2020
On January 21, 2020, the first case of laboratory-confirmed infection due to the novel virus severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in the United States was identified in Seattle, Washington. Six weeks later, in early March, the first person in Pennsylvania was diagnosed with coronavirus disease-19 (COVID-19) disease.

American Journal of Medical Quality: Current issue

Patient Safety Culture and Practice at a Super-Specialty Hospital in India
21 Jul 2020
American Journal of Medical Quality, Ahead of Print.

Annotated Bibliography: An Update to “Understanding Ambulatory Care Practices in the Context of Patient Safety and Quality Improvement”
21 Jul 2020
American Journal of Medical Quality, Ahead of Print. The aim of this article is to summarize and interpret the current literature on patient quality and safety measures in the ambulatory setting. The authors reviewed the MEDLINE database from 2016 to the present for articles on patient quality and safety measures in the ambulatory setting.

Leadership and a True Culture of Patient Safety
20 Jul 2020
American Journal of Medical Quality, Ahead of Print.
Are Rates of Methicillin-Resistant Staphylococcus aureus and Clostridioides difficile Associated With Quality and Clinical Outcomes in US Acute Care Hospitals?
20 Jul 2020
American Journal of Medical Quality, Ahead of Print. The purpose of this study was to examine the association between rates of methicillin-resistant Staphylococcus aureus (MRSA)/Clostridioides difficile and quality and clinical outcomes in US acute care hospitals

Clinical Microbiology and Infection

Evaluation of a fully automated RUO prototype version of the BD KiestraTM IdentifA/SusceptA system
26 Jul 2020
Publication date: Available online 25 July 2020Source: Clinical Microbiology and InfectionAuthor(s): James W. Snyder, Gina K. Thomson, Stacy Heckman, Kira Jamros, Sameh AbdelGhani, Kenneth S. Thomson

Two simultaneous cases of disseminated infections with Campylobacter fetus - Clinical characteristics and molecular comparison
26 Jul 2020
Publication date: Available online 24 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Ana Durovic, Helena M.B. Seth Smith, Vladimira Hinic, Mario Kurz, Nina Khanna, Adrian Egli

Adoption of the updated CLSI fluoroquinolones breakpoints for Gram-negative bacteria in microbiology laboratories
26 Jul 2020
Publication date: Available online 24 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Maroun M. Sfeir

Are empiric aminoglycosides Really safe for the kidney?
26 Jul 2020
Publication date: Available online 24 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Alexander Lawandi, Todd C. Lee

Metatranscriptomic assessment of burn wound infection clearance
24 Jul 2020
Publication date: Available online 24 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Teija Ojala, Andrew Lindford, Kirsi Savijoki, Heli Lagus, Jenni Tommila, Alan Medlar, Pentti Kuusela, Pekka Varmanen, Liisa Holm, Jyrki Vuola, Esko Kankuri, Matti Kankainen

CT lung lesions as predictors of early death or ICU admission in COVID-19 patients
24 Jul 2020
Publication date: Available online 24 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Yvon Ruch, Charlotte Kaeuffer, Mickael Ohana, Aissam Labani, Thibaut Fabacher, Pascal Bilbault, Sabrina Kepka, Morgane Solis, Valentin Greigert, Nicolas Lefebvre, Yves Hansmann, François Danion

In the name of common sense: EUCAST breakpoints and potential pitfalls
24 Jul 2020
Publication date: Available online 23 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Sylvain Meylan, Benoit Guery

Personal protective equipment protecting healthcare workers in the Chinese epicenter of COVID-19
24 Jul 2020
Publication date: Available online 23 July 2020Source: Clinical Microbiology and InfectionAuthor(s): Yi Zhao, Wenhua Liang, Yan Luo, Ying Chen, Peng Liang, Ran Zhong, Allan Chen, Jianxing He

Evolution of viral quasispecies during SARS-CoV-2 infection
24 Jul 2020
Viable SARS-CoV-2 in various specimens from COVID-19 patients
23 Jul 2020
Publication date: Available online 23 July 2020Source: Clinical Microbiology and Infection
Author(s): Hye Won Jeong, Se-Mi Kim, Hee-Sung Kim, Young-Il Kim, Jun Hyoun Kim, Jun Yeon Cho, Sun-hyung Kim, Hyeran Kang, Seong-Gyu Kim, Su-Jin Park, Eun-Ha Kim, Young Ki Choi
Isavuconazole is highly active in vitro against Candida species isolates but shows trailing effect
23 Jul 2020
Publication date: Available online 23 July 2020Source: Clinical Microbiology and Infection
Author(s): Laura Judith Marcos-Zambrano, Ana Gómez, Carlos Sánchez-Carrillo, Emilio Bouza, Patricia Muñoz, Pilar Escribano, Jesús Guinea
Bacterial co-infection and secondary infection in patients with COVID-19: a living rapid review and meta-analysis
23 Jul 2020
Publication date: Available online 22 July 2020Source: Clinical Microbiology and Infection
Author(s): Bradley J. Langford, Miranda So, Sumit Raybarden, Valerie Leung, Duncan Westwood, Derek R. MacFadden, Jean-Paul R. Soucy, Nick Daneman
Celebrating Eid-ul-Adha in the era of COVID-19 pandemic in Pakistan: potential threats and precautionary measures
23 Jul 2020
Publication date: Available online 23 July 2020Source: Clinical Microbiology and Infection
Author(s): Tauqeer Hussain Mallhi, Yusra Habib Khan, Nasser Hadal Alotaibi, Abdulaziz Ibrahim Alzarea, Nida Tanveer, Amjad Khan
Post-COVID-19 chronic symptoms: a post-infectious entity?
23 Jul 2020
Publication date: Available online 23 July 2020Source: Clinical Microbiology and Infection
Author(s): Benjamin Davido, Sophie Seang, Roland Tubiana, Pierre de Truchis
Corrigendum to ‘Isavuconazole is highly active in vitro against Candida species isolates but shows trailing effect’ Clinical Microbiology and Infection, Volume 24, Issue 12 (December 2018) Pages 1343.e1-1343.e4
21 Jul 2020
Publication date: Available online 21 July 2020Source: Clinical Microbiology and Infection
Author(s): L.J. Marcos-Zambrano, A. Gómez, C. Sánchez-Carrillo, E. Bouza, P. Muñoz, P. Escribano, J. Guinea
One Health: a multifaceted concept combining diverse approaches to prevent and control antimicrobial resistance
20 Jul 2020
Publication date: Available online 20 July 2020Source: Clinical Microbiology and Infection
Author(s): Luca Guardabassi, Patrick Butaye, David H. Dockrell, J. Ross Fitzgerald, Ed J. Kuijper, the ESCMID Study Group for Veterinary Microbiology (ESGVM), ESCMID Study Group for Host and Microbiota Interaction (ESGHAMI)
Attributable mortality of antibiotic resistance in Gram-negative infections in the Netherlands: a parallel matched cohort study
20 Jul 2020
Publication date: Available online 19 July 2020Source: Clinical Microbiology and Infection
Non-invasive saliva specimens for the diagnosis of COVID-19: caution in mild outpatient cohorts with low prevalence
20 Jul 2020
Publication date: Available online 18 July 2020Source: Clinical Microbiology and Infection
Author(s): Keira Skolimowska, Michael Rayment, Rachael Jones, Pinglawathee Madona, Luke SP. Moore, Paul Randell

Low prevalence of active COVID-19 in Slovenia: a nationwide population study on a probability-based sample
20 Jul 2020
Publication date: Available online 18 July 2020Source: Clinical Microbiology and Infection
Author(s): Polona Maver Vodičar, Anja Oštrbenk Valenčak, Blaž Zupan, Tatjana Avšič Županc, Slavko Kurdić, Miša Korva, Miroslav Petrovec, Janez Dernšar, Nataša Knap, Erik Štrumbelj, Vasja Vehovar, Mario Poljak

Current Opinion in Virology
Reverse genetics approaches for the development of mammarenavirus live-attenuated vaccines
26 Jul 2020
Publication date: October 2020Source: Current Opinion in Virology, Volume 44
Author(s): Chengjin Ye, Juan C de la Torre, Luis Martinez-Sobrido

Diagnostic Microbiology and Infectious Disease
Predicting β-lactam resistance using whole genome sequencing in Klebsiella pneumoniae: The challenge of β-lactamase inhibitors
26 Jul 2020
Publication date: Available online 25 July 2020Source: Diagnostic Microbiology and Infectious Disease
Author(s): Andrea M. Hujer, S. Wesley Long, Randall J. Olsen, Magdalena A. Taracila, Laura J. Rojas, James M. Musser, Robert A. Bonomo

SARS-CoV-2 IgG antibody responses in New York City
21 Jul 2020
Publication date: Available online 21 July 2020Source: Diagnostic Microbiology and Infectious Disease
Author(s): Josh Reifer, Nosson Hayum, Benzion Heszkel, Ikey Klagsbald, Vincent A. Streva

Emerging Infectious Diseases Journal - ahead of print
Disparate Effects of Invasive Group A Streptococcus on Native Americans
22 Jul 2020
R. M. Close and J. B. McAuley

Heterogeneity of Dengue Illness in Community-Based Prospective Study, Iquitos, Peru
22 Jul 2020
W. H. Elson et al.

Polyclonal Burkholderia cepacia Complex Outbreak in Peritoneal Dialysis Patients Caused by Contaminated Aqueous Chlorhexidine
22 Jul 2020
S. Wong et al.
Incidence and Seroprevalence of Avian Influenza in a Cohort of Backyard Poultry Growers, Egypt, August 2015–March 2019
22 Jul 2020
M. R. Gomaa et al.

Saprochaete clavata Outbreak Infecting Cancer Center through Dishwasher
22 Jul 2020
E. Menu et al.

Costs Associated with Nontuberculous Mycobacteria Infection, Ontario, Canada, 2001–2012
22 Jul 2020
L. C. Ramsay et al.

Impact of Social Distancing Measures on Coronavirus Disease Healthcare Demand, Central Texas, USA
21 Jul 2020
X. Wang et al.

The Curious Case of the Cephalopod Parasites
19 Jul 2020
B. Breedlove

Tuberculosis in Internationally Displaced Children Resettling in Harris County, Texas, USA, 2010–2015
17 Jul 2020
G. S. Lamb et al.

Eurosurveillance latest updates

Authors’ response: Estimating the generation interval for COVID-19 based on symptom onset data
23 Jul 2020

Job vacancies at the European Centre for Disease Prevention and Control (ECDC)
23 Jul 2020

Transmission of viral hepatitis through blood transfusion in Sweden, 1968 to 2012
23 Jul 2020

Introduction Viral hepatitis remains a significant threat to transfusion safety, although largely mitigated by donor screening. Aim Our objective was to estimate the past and present burden of transfusion transmission of all types of viral hepatitis (A to E) and to find undiagnosed infections with hepatitis C virus (HCV).

A large COVID-19 outbreak in a high school 10 days after schools’ reopening, Israel, May 2020
23 Jul 2020

On 13 March 2020, Israel’s government declared closure of all schools. Schools fully reopened on 17 May 2020. Ten days later, a major outbreak of coronavirus disease (COVID-19) occurred in a high school. The first case was registered on 26 May, the second on 27 May. They were not epidemiologically linked. Testing of the complete school community revealed 153 students (attack rate: 13

Letter to the editor: Generation interval for COVID-19 based on symptom onset data
23 Jul 2020

Authors’ correction for Euro Surveill. 2020;25(18)
23 Jul 2020
Asymptomatic patients as a source of COVID-19 infections: A systematic review and meta-analysis

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Andreas Kronbichler, Daniela Kresse, So Jung Yoon, Keum Hwa Lee, Maria Effenberger, Jae Il Shin

Influence of pneumococcal vaccination on the hospitalization of healthy pediatric patients due to typical Community-Acquired Pneumonia

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Ana Isabel Valdivielso Martínez, Jose Miguel Ramos Fernández, Javier Pérez Frías, David Moreno Pérez

All Hands on Deck: A synchronized whole-of-world approach for COVID-19 mitigation

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Shahul H. Ebrahim, Jiatong Zhuo, Ernesto Gozzer, Qanta A. Ahmed, Rubina Imtiaz, Yusuf Ahmed, Seydou Doumbia, N.M. Mujeeb Rahman, Habida Elachola, A. Wilder-Smith, Ziad A. Memish

Coronavirus outbreak in Nigeria: Burden and socio-medical response during the first 100 days

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Jimoh Amzat, Kafayat Aminu, Victor I. Kolo, Ayodele A. Akinyele, Janet A. Ogundairo, Maryann C. Danjibo

Time to sputum culture conversion and its associated factors among multidrug-resistant tuberculosis patients in Eastern Africa: A systematic review and meta-analysis

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Moges Agazhe Assemie, Muluneh Alene, Pamilla Petrucka, Cheru Tesema Leshargie, Daniel Bekele Ketema

Occurrence of Acute Pulmonary Embolism in COVID-19—A case series

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Davide Fiore Bavaro, Mariacristina Poliseno, Arnaldo Scardapane, Alessandra Belati, Nicolò De Gennaro, Amato Antonio Stabile Ianora, Giacchino Angarano, Annalisia Saracino

Candida sepsis from local infection in a patient with a urostomy on SGLT2 inhibitor therapy

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Ralph Wendt, Diana Schmerler, Charlotte Müller-Hechler, Christian Weichold, Diana Craatz, Joachim Beige

Long-distance truck drivers and the increasing risk of COVID-19 spread in Uganda

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Francis Bajunirwe, Jonathan Izudi, Stephen Asiimwe

COVID-19 in Italy: Considerations on official data

Publication date: September 2020
Source: International Journal of Infectious Diseases, Volume 98
Author(s): Ziad A. Memish
Nocturnal oxygen therapy as an option for early COVID-19
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Gino Sartor, Marco Del Riccio, Irene Dal Poz, Paolo Bonanni, Guglielmo Bonaccorsi

Corrigendum to “Positive effects of COVID-19 control measures on pneumonia prevention” [Int J Infect Dis 96 (July) (2020) 548–549]
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Chongxing Shen, Xiaofeng Yue, Jianwu Wang, Chunmeng Shi, Weibing Li

COVID-19 and routine childhood immunization in Africa: Leveraging systems thinking and implementation science to improve immunization system performance
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Abdu A. Adamu, Rabiu I. Jalo, Desire Habonimana, Charles S. Wiysonge

Paromomycin: A potential dual targeted drug effectively inhibits both spike (S1) and main protease of COVID-19
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Asma Tariq, Rana Muhammad Mateen, Muhammad Sohail Afzal, Mahjabeen Saleem

Recombinant human thrombopoietin in critically ill patients with sepsis-associated thrombocytopenia: A clinical study
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Yu Liu, Gang Jin, Jingjing Sun, Xue Wang, Litao Guo

Relationship between chest CT manifestations and immune response in COVID-19 patients
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Susu He, Chao Zhou, Dongqing Lu, Haihua Yang, Hailing Xu, Guixian Wu, Weijia Pan, Rui Zhu, HaiJian Jia, Xinni Tang, Xi Chen, Xiaomai Wu

Increased risk of hepatotoxicity and temporary drug withdrawal during treatment of active tuberculosis in pregnant women
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Josefine Beck-Friis, Marie Studahl, Aylin Yilmaz, Rune Andersson, Elisabet Lönnermark

Spatiotemporal dynamics of the COVID-19 pandemic in the State of Kuwait
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Moh A. Alkhamsis, Sarah Al Youha, Mohammad M. Khajah, Nour Ben Haider, Sumayah Alhardan, Ahmad Nabeel, Sulaiman Al Mazeedi, Salman K. Al-Sabah

Onset of valganciclovir resistance in two infants with congenital cytomegalovirus infection
Publication date: September 2020Source: International Journal of Infectious Diseases, Volume 98Author(s): Francesca Garofoli, Giuseppina Lombardi, Micol Angelini, Giulia Campanini, Maurizio Zavattoni, Fausto Baldanti
The D614G substitution in the S gene and clinical information for patients with COVID-19 detected in Hong Kong
24 Jul 2020

Clinical evaluation of five different automated SARS-CoV-2 serology assays in a cohort of hospitalized COVID-19 patients
20 Jul 2020

Cost burden of Clostridioides difficile infection to the health service: A retrospective cohort study in Scotland
24 Jul 2020

Clostridioides difficile infection (CDI) is associated with high healthcare demands and related costs.

Catheter-Associated Bloodstream Infections (CA-BSI) in Adults with Cancer: A Prospective Randomised Controlled Trial
23 Jul 2020

A common complication of central venous access devices (CVADs) is catheter-associated bloodstream infection (CA-BSI). We previously demonstrated that insertion of CVADs on the right side was associated with increased risk of CA-BSI, and hypothesized that this related to the predominance of right-handedness in the patient population, resulting in greater movement and bacterial contamination.

Impact of an infection control service in a university psychiatric hospital: Significantly lowering healthcare-associated infections during 18 years of surveillance
21 Jul 2020

Healthcare-associated infections (HAI) lead to high morbidity and mortality. Data for HAIs in psychiatric hospitals are scarce, and not deriving from long-term surveillance.

Airborne particle dispersion around the feet of surgical staff while walking in and out of a bio-clean operating theatre
20 Jul 2020

Bacterial contamination by airborne particles is one of the most important factors in the pathogenesis of surgical-site infections.

Toilet drain water as a potential source of hospital room-to-room transmission of carbapenemase-producing Klebsiella pneumoniae
20 Jul 2020

Carbapenemase-producing Enterobacteriales (CPE) have rapidly emerged in Europe, being responsible for nosocomial outbreaks.

SARS-CoV-2 infection among healthcare workers in a hospital in Madrid, Spain
20 Jul 2020

The aim of this study was to describe the epidemiological and clinical characteristics of COVID-19 among healthcare workers (HCWs) between February 24th to April 30th, 2020 in a hospital in Madrid, Spain.

Nosocomial COVID-19 infection: examining the risk of mortality. The COPE-Nosocomial study (COVID in Older PEople).
20 Jul 2020
Hospital admissions for non-COVID-19 pathology have significantly reduced. It is believed that this may be due to public anxiety about acquiring COVID-19 infection in hospital and the subsequent risk of mortality.

Costs of healthcare-associated infections (HAI) to the Brazilian public Unified Health System (SUS) in a tertiary-care teaching hospital: a matched case-control study
18 Jul 2020

Little is known on the economic burden of healthcare-associated infection (HAI) in Brazil.

Decontaminating N95 and SN95 masks with Ultraviolet Germicidal Irradiation (UVGI) does not impair mask efficacy and safety: A Systematic Review
17 Jul 2020

Inadequate supply of filtering facepiece respirators (FFR) for healthcare workers during a pandemic such as the novel coronavirus outbreak (SARS-CoV-2) is a serious public health issue.

Journal of Infection

Immunological detection of serum antibodies in pediatric medical workers exposed to varying levels of SARS-CoV-2
25 Jul 2020

Since the initial reports of COVID-19 disease outbreak in Wuhan, China, it has continued to spread rapidly with cases identified in virtually all countries, worldwide. The population is generally susceptible to SARS-CoV-2, including children and pregnant women, and medical staffs are a high-risk population for this disease. In this journal, Chen et al.

Differential Toll like receptor expression in cystic fibrosis patients' airways during rhinovirus infection
23 Jul 2020

Chronic lung disease remains the primary cause of mortality in cystic fibrosis (CF). The classic bacteria implicated in CF pathology, Pseudomonas aeruginosa and Staphylococcus aureus, by colonizing airway epithelial, activate innate response through toll-like receptors (TLRs) [1,2]

Metabolic characterization of tuberculous meningitis in a South African paediatric population using 1H-NMR metabolomics
23 Jul 2020

Tuberculous meningitis (TBM) – a disease caused by Mycobacterium tuberculosis (M. tb) – is a chronic form of bacterial meningitis, the most severe manifestation of tuberculosis (TB), and associated with substantial morbidity and mortality. The paediatric population in communities with a high TB burden, such as those in the Western Cape province of South Africa, are at a high risk of TBM.

Changes in the hospital admission profile of COVID-19 positive patients at a central London trust
23 Jul 2020

There is currently no WHO approved method for counting and coding deaths attributable to COVID-19. Since the start of the pandemic, Public Health England have counted all deaths from individuals who have tested positive for SARS-CoV-2 at any time as being attributable to COVID-19, which has resulted in recent debate.

Prevalence and Clinical Characterization of Cancer Patients with Asymptomatic SARS-CoV-2 Infection History
22 Jul 2020

We read with the interest the recent paper by Minotti and colleagues who described a systematic review of literature about immunosuppressive status affecting children and adults in SARS-CoV-2 infection, which reported patients with cancer may have milder forms of COVID19 infection.
Persistent infection with hepatitis B virus (HBV) represents a global public health problem because HBV is one of the main causes of chronic hepatitis, cirrhosis and hepatocellular carcinoma (HCC). The World Health Organization estimates that 257 million people approximately are chronically HBV infected worldwide, and that the number of deaths is close to 887000 per year.

**USEFULNESS OF SALIVA SAMPLES FOR DETECTING SARS-CoV-2 RNA AMONG LIVER DISEASE PATIENTS**

In a recent article in the Journal, Azzi and colleagues (1) evaluated saliva samples of 25 COVID-19 patients by real time RT-PCR. In this study, all individuals had severe or very severe infection. All of them had SARS CoV-2 detected in saliva samples and there is no information regarding the presence of liver diseases.

Influenza-like illness is associated with high pneumococcal carriage density in Malawian children.

Pneumococcal carriage is a prerequisite for disease and an important step for transmission. In Malawi, pneumococcus is known to be the major cause of meningitis and second cause of bacteraemia and community acquired pneumonia 1–5

**Letter in Response to ‘Modelling SARS-COV2 Spread in London: Approaches to Lift the Lockdown’ Local Experience, National Questions. How Local is Local Enough?**

We read with interest the modelling work of Goscé et al, ‘Modelling SARS-COV2 Spread in London: Approaches to Lift the Lockdown’, recently published in the Journal of Infection.1 This work highlights the importance of understanding transmission dynamics at a city and ‘district’ (borough) level in planning interventions to control the spread of COVID-19

**Differential immune activation profile of SARS-CoV-2 and SARS-CoV infection in human lung and intestinal cells: implications for treatment with IFN-β and IFN inducer**

Screening of the clinical specimens from COVID-19 patients showed large quantities of viral shedding in respiratory secretions and stool, which indicate that the respiratory and intestinal tract were primary target organs of SARS-CoV-2 infection. However, detailed characterization of the virus-host interplay in infected human lung and intestinal epithelial cells was lacking.
hospital-wide Daily Interdisciplinary Safety Huddle (DISH) with infection control and device components

**An invasive group A streptococcal infection outbreak: a community nursing experience**

*21 Jul 2020*  
*Journal of Infection Prevention, Ahead of Print.* Invasive group A streptococcus (iGAS) can cause serious infections. Between January and July 2018, seven patients, living in the same geographical area and receiving district nursing care for wound management, were identified with iGAS. Further microbiological analysis of the cases identified the iGAS cases were the same type, emm 94

**Effectiveness of a simple intervention for prevention of catheter-associated urinary tract infections on a medical hospital unit**

*20 Jul 2020*  
*Journal of Infection Prevention, Ahead of Print.* Background: Urinary tract infections (UTI) are one of the most common hospital-acquired infections with 80% as a result of urinary catheterisation. Aim/Objective: This study examined the impact of a simple intervention consisting of a daily chart reminder in patients with indwelling urinary catheters (IUC) on the duration of catheter use and the

**How to save time in surveillance without losing quality: comparison of two methods of surgical site infection surveillance in orthopaedic prosthetics in a French university hospital**

*20 Jul 2020*  
*Journal of Infection Prevention, Ahead of Print.* Surgical site infection (SSI) surveillance methods are not standardised and are often time-consuming. We compared an active method, based on orthopaedic department staff reporting suspected SSI, with a semi-automated method, based on computerised extraction of surgical revisions, after total hip and knee arthroplasty

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**Journal of Infectious Diseases**

**A Critical Analysis of the Literature on Time-to-Antibiotics in Suspected Sepsis**

*21 Jul 2020*  
*Abstract* The Surviving Sepsis Campaign recommends immediate antibiotics for all patients with suspected sepsis and septic shock, ideally within 1 hour of recognition. Immediate antibiotic treatment is lifesaving for some patients, but a substantial fraction of patients initially diagnosed with sepsis have noninfectious conditions

**Sepsis in Immunocompromised Patients Without Human Immunodeficiency Virus**

*21 Jul 2020*  
*Abstract* Sepsis remains among the most common complications from infectious diseases worldwide. The morbidity and mortality rates associated with sepsis range from 20% to 50%. The advances in care for patients with an immunocompromised status have been remarkable over the last 2 decades, but sepsis continues to be a major cause of death in this population

**Surveillance Strategies for Tracking Sepsis Incidence and Outcomes**

*21 Jul 2020*  
*Abstract* Sepsis is a leading cause of death and the target of intense efforts to improve recognition, management and outcomes. Accurate sepsis surveillance is essential to properly interpreting the impact of quality improvement initiatives, making meaningful comparisons across hospitals and geographic regions, and guiding future research and resource investments

**Immune Profiling Panel: A Proof-of-Concept Study of a New Multiplex Molecular Tool to Assess the Immune Status of Critically Ill Patients**
Abstract

Background Critical illness such as sepsis is a life-threatening syndrome defined as a dysregulated host response to infection and is characterized by patients exhibiting impaired immune response. In the field of diagnosis, a gap still remains in identifying the immune profile of critically ill patients in the intensive care unit (ICU).

Role of Rapid Diagnostics in Diagnosis and Management of Patients With Sepsis

Abstract Delayed administration of active anti-infective therapy is associated with increased rates of adverse events, mortality, and costs among sepsis patients. Inherent limitations of conventional culture identification methods and the lengthy turnaround time of antimicrobial susceptibility testing are significant barriers to the timely delivery of life-saving therapy, particularly among sepsis patients.

Considerations for Empiric Antimicrobial Therapy in Sepsis and Septic Shock in an Era of Antimicrobial Resistance

Abstract Patients with sepsis present across a spectrum of infection sites and severity of illnesses requiring complex decision making at the bedside as to when prompt antibiotics are indicated and which regimen is warranted.

Antimicrobial Treatment Duration in Sepsis and Serious Infections

Abstract Sepsis mortality has improved following advancements in early recognition and standardized management, including emphasis on early administration of appropriate antimicrobials. However, guidance regarding antimicrobial duration in sepsis is surprisingly limited.

Impact of Sepsis Mandates on Sepsis Care: Unintended Consequences

Abstract The creation of dedicated sepsis guidelines and their broad dissemination over the past 2 decades have contributed to significant improvements in sepsis care. These successes have spurred the creation of bundled care mandates by major healthcare payers, such as the Center for Medicare and Medicaid Services.

Sepsis Perspective 2020

Abstract Antimicrobial stewardship, sepsis surveillance biomarkers, Neglected Variables in the Interpretation of Serum Procalcitonin Levels in Patients With Septic Shock

Abstract The interpretation of serum procalcitonin (PCT) levels in septic patients is facilitated by reviewing the known stimuli that activate the PCT family of genes. Herein we describe 7 pathways that, alone or in combination, can increase serum PCT levels.

Optimizing Pharmacokinetics-Pharmacodynamics of Antimicrobial Management in Patients with Sepsis: A Review

Abstract Critically ill patients with sepsis or septic shock are at an increased risk of death. Early and aggressive interventions are essential for improving clinical outcomes. There are a number of therapeutic and practical challenges in the management of antimicrobials in patients with sepsis.

Journal of Microbiology, Immunology and Infection

Molecular diagnosis and therapy for cutaneous leishmaniasis of a returned traveler from Mexico

Abstract

Journal of Microbiology, Immunology and Infection
Learning about the diagnosis of Bouveret syndrome from Bouveret

Publication date: Available online 20 July 2020
Source: Journal of Microbiology, Immunology and Infection
Author(s): Pei-Hsuan Tsai, Yu-Ting Chen, Jau-Yu Liau, Miao-Hui Huang, Hong-Ming Hsu, Eng-Kean Yeong, Chien-Ching Hung

Morbidity and Mortality Weekly Report (MMWR)

EARLY RELEASE: Symptom Duration and Risk Factors for Delayed Return to Usual Health Among Outpatients with COVID-19 in a Multistate Health Care Systems Network - United States, March-June 2020

This report describes symptom duration and risk factors for delayed return to usual health among adults who had a positive outpatient test result for SARS-CoV-2 infection.

Evaluation of Online Risk Assessment To Identify Rabies Exposures Among Health Care Workers - Utah, 2019

This report describes the use of online risk assessment tools to help health care workers identify if they have been exposed to rabies and require postexposure prophylaxis.

Notes from the Field: Characteristics of Tetrahydrocannabinol-Containing E-cigarette, or Vaping, Products Used by Adults - Illinois, September-October 2019

This report describes an online survey conducted by the Illinois Department of Public Health to increase the amount of data available regarding the prevalence of tetrahydrocannabinol-containing e-cigarette, or vaping, product use.

Recommendations and Reports: Testing and Clinical Management of Health Care Personnel Potentially Exposed to Hepatitis C Virus - CDC Guidance, United States, 2020

This report describes updated guidance for laboratory testing and follow-up of healthcare personnel who have been potentially exposed to hepatitis C virus as well as recommended treatment of acute hepatitis C virus infection.

Estimated County-Level Prevalence of Select Underlying Medical Conditions Associated with Increased Risk of Severe COVID-19 Illness - United States, 2018

This report describes U.S. county-level prevalence estimates of select underlying medical conditions that are associated with higher risk for severe illness from COVID-19.

Identification of Substance-Exposed Newborns and Neonatal Abstinence Syndrome Using ICD-10-CM - 15 Hospitals, Massachusetts

This report describes how well International Classification of Diseases, Tenth Revision, Clinical Modification codes worked for estimating the prevalence of substance-exposed newborns and neonatal abstinence syndrome in Massachusetts.

Notes from the Field: Effects of the COVID-19 Response on Tuberculosis Prevention and Control Efforts - United States, March-April 2020

[back to top]
This report describes the importance of continuing to provide resources for tuberculosis testing during the COVID-19 pandemic.

**QuickStats:** Percentage of Adults Aged 50-75 Years Who Received Colorectal Cancer Screening, by Poverty Status and Year - National Health Interview Survey, United States, 2010 and 2018

23 Jul 2020
This report describes the percentage of adults aged 50-75 who received colorectal screening, by poverty status and year.

**EARLY RELEASE:** Population Point Prevalence of SARS-CoV-2 Infection Based on a Statewide Random Sample - Indiana, April 25-29, 2020

21 Jul 2020
This report describes random sample testing of persons aged ≥12 years in Indiana to assess the prevalence of active COVID-19 infection and SARS-CoV-2 antibodies.

**EARLY RELEASE:** Estimated Community Seroprevalence of SARS-CoV-2 Antibodies - Two Georgia Counties, April 28-May 3, 2020

21 Jul 2020
This report describes the use of serologic tests to detect the presence of SARS-CoV-2 antibodies in two counties in Georgia.

Nature Reviews Microbiology - Current Issue

**Formation and function of bacterial organelles**

24 Jul 2020
Nature Reviews Microbiology, Published online: 24 July 2020; doi:10.1038/s41579-020-0413-0 Advances in imaging techniques have revealed an unexpected abundance and diversity of organelles in bacteria. In this Review, Greening and Lithgow outline the different types of bacterial organelles and discuss common themes in their formation and function.

**Unique and common traits in mycorrhizal symbioses**

21 Jul 2020
Nature Reviews Microbiology, Published online: 21 July 2020; doi:10.1038/s41579-020-0402-3 Mycorrhizas are ubiquitous mutualistic symbioses established between plant roots and soil fungi. In this Review, Bonfante and colleagues explore the origin and evolution of mycorrhizal fungi, the diversity of their interactions with host plants and the potential of application of mycorrhizal symbioses in

**Isolation of manganese oxidizers**

20 Jul 2020
Nature Reviews Microbiology, Published online: 20 July 2020; doi:10.1038/s41579-020-0425-9 A recent study reports the cultivation of manganese-oxidizing chemolithotrophic bacteria.

**The host-associated archaeome**

20 Jul 2020
Nature Reviews Microbiology, Published online: 20 July 2020; doi:10.1038/s41579-020-0407-y The archaeal community, the archaeome, is now increasingly recognized as an important component of host-associated microbiomes

**Snatching from the host**

20 Jul 2020
Nature Reviews Microbiology, Published online: 20 July 2020; doi:10.1038/s41579-020-0423-y A recent study found that viral cap snatching generates host–virus chimeric proteins during infection.

**Can COVID-19 strike twice?**

20 Jul 2020
Nature Reviews Microbiology, Published online: 20 July 2020; doi:10.1038/s41579-020-0424-x This study suggests that primary SARS-CoV-2 exposure may protect against reinfection in rhesus macaques.
Genomics and epidemiological surveillance
20 Jul 2020
Nature Reviews Microbiology, Published online: 20 July 2020; doi:10.1038/s41579-020-0421-0 This month’s Genome Watch highlights how genomic surveillance can provide important information for identifying and tracking emerging pathogens such as SARS-CoV-2.

New England Journal of Medicine - Current Issue
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