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
• European Centre for Disease Prevention and Control - 1
• Infectious Diseases Society of America - 1
• Royal College of Physicians - 1

Infection-related journals
• American Journal of Infection Control - 5
• Clinical Infectious Diseases - Advance Access - 14
• Clinical Infectious Diseases - Current Issue - 19
• Clinical Microbiology and Infection - 8
• Clinical Microbiology Reviews - Current Issue - 2
• Current Opinion in Microbiology - 2
• Current Opinion in Virology - 1
• Diagnostic Microbiology and Infectious Disease - 6
• Emerging Infectious Diseases Journal - ahead of print - 18
• European Journal of Clinical Microbiology & Infectious Diseases - 8
• Eurosurveillance latest updates - 4
• Infection - 3
• Infection Control & Hospital Epidemiology - FirstView Article - 8
• Infection Control & Hospital Epidemiology - Current Issue - 5
• International Journal of Infectious Diseases - 19
• Journal of Clinical Microbiology - 7
• Journal of Clinical Virology - 5
• Journal of Hospital Infection - 1
• Journal of Infection - 5
• Journal of Microbiology, Immunology and Infection - 1
• Journal of Virology Current Issue - 10
• Journal of Virology: Articles Published Ahead of Print - 2
• Lancet - 3
• Microbiology and Molecular Biology Reviews: Current Issue - 1
• Morbidity and Mortality Weekly Report (MMWR) - 6
COVID-19 related research

COVID-19 infection

Update Alert 6: Masks for Prevention of Respiratory Virus Infections, Including SARS-CoV-2, in Health Care and Community Settings
13 Jul 2021
Annals of Internal Medicine, Ahead of Print.

Infection-related guidance

European Centre for Disease Prevention and Control

Influenza virus characterisation - Summary Europe, June 2021
14 Jul 2021
This is the eighth report for the 2020-2021 influenza season. As at week 24/2021, only 934 influenza detections across the World Health Organization (WHO) European Region had been reported to TESSy.

Infectious Diseases Society of America

US daily COVID-19 infection rates doubled in past three weeks, data show: https://t.co/9M93frFLKP
14 Jul 2021
US daily COVID-19 infection rates doubled in past three weeks, data show: https://cnb.cx/2T9CBSm

Royal College of Physicians

Doctors believe in ME
15 Jul 2021
In a follow up to her 2019 blog post, Dr Nina Muirhead discusses a recent surge in clinical interest in myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS).

Infection-related journals

American Journal of Infection Control
Intention to COVID-19 vaccination and associated factors among health care workers: A systematic review and meta-analysis of cross-sectional studies
14 Jul 2021
Coronavirus disease 2019 (COVID-19) is a serious and lethal contagious disease caused by infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), which is mainly transmitted from human to human through respiratory droplets. The clinical picture of COVID-19 is dominated by the presence of fever, fatigue, cough, headache, diarrhea, hemoptysis and dyspnea.

Evaluation of Optimal Treatment for Urinary Tract Infections in Outpatient Clinics at an Academic Medical Center: Opportunities for Antimicrobial Stewardship
14 Jul 2021
Inappropriate prescribing of antibiotics is an important modifiable risk factor for antibiotic resistance. Outpatient prescriptions consist of 60% of all antibiotic use in the United States, with approximately 30% being inappropriately prescribed. Despite being poor empiric therapy for Escherichia coli and numerous U.S.

Outbreak of NDM-1-producing Klebsiella pneumoniae in the intensive care unit during the COVID-19 pandemic: another nightmare
14 Jul 2021
Since management of coronavirus disease-2019 (COVID-19) patients required improved infection prevention with personal protective equipment (PPE) wearing and rigorous environment cleansing and disinfection, strengthened hospital infection control could be expected. Surprisingly, between mid-March and mid-May 2021, during the third COVID-19 pandemic wave in Paris region.

URINARY CATHETER ALLEVIATION NAVIGATOR PROTOCOL (UCANP): OVERVIEW OF PROTOCOL AND REVIEW OF INITIAL EXPERIENCE
14 Jul 2021
Given the associated morbidity, mortality, and financial consequences of catheter associated urinary tract infections (CAUTIs), efforts should be made to mitigate the risk. We sought to describe, and report results for a post-catheter removal bladder management protocol focused on decreasing catheter reinsertion, catheter days, and overall CAUTI risk.

Treatment with Dry Hydrogen Peroxide Accelerates the Decay of Severe Acute Syndrome Coronavirus-2 on Non-porous Hard Surfaces
14 Jul 2021
The ongoing pandemic of coronavirus disease 2019 (COVID-19) has led to unprecedented disease burden and economic losses worldwide. In addition to the exposure to respiratory droplets from infected individuals, contaminated environments have also been suggested to play a role in the spread of SARS-CoV-2.

Clinical Infectious Diseases - Advance Access

The Value of Medical Registries and Observational Studies Early in Pandemics: The COVID-19 Experience
16 Jul 2021
Abstract: Whereas randomized clinical trials remain the gold standard for evaluating new therapies for infections, we argue that registries and observational studies early in the Covid-19 pandemic provided invaluable understanding of the natural history and preliminary data on risk factors and possible treatments.

Clinical improvement, outcomes, antiviral activity, and costs associated with early treatment with remdesivir for patients with COVID-19
15 Jul 2021
Abstract

Background Evidence remains inconclusive on any significant benefits of remdesivir in mild-to-moderate COVID-19 patients. This study explored the disease progression, various clinical outcomes, changes in viral load, and costs associated with early remdesivir treatment among COVID-19 patients.

Candidemia and Severe COVID-19 – Which Risk Factors are Modifiable?

15 Jul 2021

Anogenital HPV Infection, Seroprevalence, and Risk Factors for HPV Seropositivity Among Sexually Active Men Enrolled in a Global HPV Vaccine Trial

15 Jul 2021

Abstract

Background In men, human papillomavirus (HPV)-related cancer incidence is rising, but data regarding male HPV infection and seroprevalence are available from only a few countries. Methods This analysis of a global HPV vaccine trial evaluated baseline data from 1399 HIV-negative heterosexual men (HM) and men who have sex with men (MSM).

Congenital human cytomegalovirus infection is associated with decreased transplacental IgG transfer efficiency due to maternal hypergammaglobulinemia

14 Jul 2021

Abstract

Background Placentally-transferred maternal IgG protects against pathogens in early life, yet vertically-transmitted infections can interfere with transplacental IgG transfer. Although human cytomegalovirus (HCMV) is the most common placentally-transmitted viral infection worldwide, the impact of congenital HCMV (cCMV) infection on transplacental IgG transfer has been underexplored.

Evaluating Vaccine Efficacy Against SARS-CoV-2 Infection

14 Jul 2021

Abstract

Although interim results from several large placebo-controlled phase 3 trials demonstrated high vaccine efficacy (VE) against symptomatic COVID-19, it is unknown how effective the vaccines are in preventing people from becoming asymptptomatically infected and potentially spreading the virus unwittingly.

Treatment effect measures for culture conversion endpoints in phase IIb tuberculosis treatment trials

13 Jul 2021

Abstract

Phase IIb trials of tuberculosis therapy rely on early biomarkers of treatment effect. Despite limited predictive ability for clinical outcomes, culture conversion, the event in which an individual previously culture positive for Mycobacterium tuberculosis yields a negative culture after initiating treatment, is a commonly used endpoint.

Mother To Infant Transmission Of Hepatitis B Virus In The Face Of Neonatal Immunisation Is Not Necessarily Primary Vaccine Failure

12 Jul 2021

Abstract

Background Surveillance programmes undertaken in infants born to hepatitis B virus (HBV) infected mothers provide an opportunity to analyse virological markers from the neonate and early infancy. These data inform on mechanisms of HBV transmission and how available interventions can be better utilised for control of HBV infections arising at the mother/child interface.

Patient access in fourteen high-income countries to new antibacterials approved by the FDA, EMA, PMDA, or Health Canada, 2010-2020

12 Jul 2021

Abstract

Background Inaccessibility of medicines in low- and middle-income countries (LMICs) is a frequent challenge. Yet it is typically assumed that high-income countries have complete access to the full arsenal of medicines.

Why two studies using the same probiotic may have come up with different outcomes

10 Jul 2021
Sequential Dengue and Covid-19. A case of viral Dr. Jekyll or Mr. Hyde?
10 Jul 2021

Fecal SARS-CoV-2 RNA is associated with decreased COVID-19 survival
10 Jul 2021

Abstract: The clinical significance of SARS-CoV-2 RNA in stool remains uncertain. We found that extrapulmonary dissemination of infection to the gastrointestinal (GI) tract, assessed by the presence of SARS-CoV-2 RNA in stool, is associated with decreased COVID-19 survival. Measurement of SARS-CoV-2 RNA in stool may have utility for clinical risk assessment.

Reducing influenza virus transmission: the value of antiviral treatment
10 Jul 2021

Abstract: Prompt antiviral treatment has the potential to reduce influenza virus transmission to close contacts, but rigorous data on the magnitude of treatment effects on transmission are limited. Animal model data indicate that rapid reductions in viral replication following antiviral treatment reduce the risk of transmission.

SARS-CoV-2 cumulative incidence, United States, August-December 2020
10 Jul 2021

Abstract: Background: Reported COVID-19 cases underestimate SARS-CoV-2 infections. We conducted a national probability survey of US households to estimate the cumulative incidence adjusted for antibody waning. Methods: From August-December 2020, a multistage random sample of US addresses were mailed a survey and materials to self-collect nasal swabs and dried blood spots.

Clinical Infectious Diseases - Current Issue

Changes in Seasonal Respiratory Illnesses in the United States During the Coronavirus Disease 2019 (COVID-19) Pandemic
15 Jul 2021

Abstract: Background: Respiratory tract infections are common, often seasonal, and caused by multiple pathogens. We assessed whether seasonal respiratory illness patterns changed during the COVID-19 pandemic.

Risk Factors for Illness Severity Among Pregnant Women With Confirmed Severe Acute Respiratory Syndrome Coronavirus 2 Infection—Surveillance for Emerging Threats to Mothers and Babies Network, 22 State, Local, and Territorial Health Departments, 29 March 2020–5 March 2021
15 Jul 2021

Abstract: Background: Pregnant women with coronavirus disease 2019 (COVID-19) are at increased risk for severe illness compared with nonpregnant women. Data to assess risk factors for illness severity among pregnant women with COVID-19 are limited.

Coronavirus Disease 2019 (COVID-19) Mitigation Efforts and Testing During an In-Person Training Event—Uganda, 12–29 October 2020
15 Jul 2021

Abstract: Large public-health training events may result in severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) transmission. Universal SARS-CoV-2 testing during trainings for the Uganda Population-based HIV Impact Assessment identified 28 of 475 (5.9%) individuals with coronavirus disease 2019 (COVID-19) among attendees; most (89.3%) were asymptomatic.

Late Conditions Diagnosed 1–4 Months Following an Initial Coronavirus Disease 2019 (COVID-19) Encounter: A Matched-Cohort Study Using
Inpatient and Outpatient Administrative Data—United States, 1 March–30 June 2020
15 Jul 2021
Abstract
Background
Late sequelae of COVID-19 have been reported; however, few studies have investigated the time course or incidence of late new COVID-19–related health conditions (post-COVID conditions) after COVID-19 diagnosis. Studies distinguishing post-COVID conditions from late conditions caused by other etiologies are lacking.

A Comparison of Less Invasive Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Diagnostic Specimens in Nursing Home Residents—Arkansas, June–August 2020
15 Jul 2021
Abstract
Background
Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) testing remains essential for early identification and clinical management of cases. We compared the diagnostic performance of 3 specimen types for characterizing SARS-CoV-2 in infected nursing home residents.

Detection of Severe Acute Respiratory Syndrome Coronavirus 2 on Self-Collected Saliva or Anterior Nasal Specimens Compared With Healthcare Personnel–Collected Nasopharyngeal Specimens
15 Jul 2021
Abstract
Background
Nasopharyngeal specimens (NPS) are commonly used for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) testing but can be uncomfortable for patients. Self-collected saliva specimens (SS) or anterior nasal specimens (ANS) for SARS-CoV-2 detection are less invasive, but the sensitivity of these specimen types has not been thoroughly evaluated.

Delayed Tuberculosis Diagnoses During the Coronavirus Disease 2019 (COVID-19) Pandemic in 2020—King County, Washington
15 Jul 2021
In 2020, a total of 92 tuberculosis (TB) cases were reported in Seattle and King County, Washington, 5% fewer than the median of 97 (range = 94 –132) reported during the same period 2015–2019 and 30% fewer than 132 cases reported in 2019. Interviews and chart reviews were completed as part of a public health investigation.

Investigation of a Suspect Severe Acute Respiratory Syndrome Coronavirus-2 and Influenza A Mixed Outbreak: Lessons Learned for Long-Term Care Facilities Nationwide
15 Jul 2021
Abstract
A suspected outbreak of influenza A and severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) at a long-term care facility in Los Angeles County was, months later, determined to not involve influenza.

Coronavirus Disease 2019 (COVID-19) Outbreaks at 2 Construction Sites—New York City, October–November 2020
15 Jul 2021
Abstract
During 23 October–16 November 2020, the New York City Department of Health and Mental Hygiene investigated coronavirus disease 2019 (COVID-19) outbreaks at 2 construction sites. Challenges in adhering to the New York State Department of Health “Interim COVID-19 Guidance for Construction” were reported.

Influenza Vaccination in Health Centers During the Coronavirus Disease 2019 Pandemic—United States, 7–27 November 2020
15 Jul 2021
Abstract
Background
Influenza vaccination is the most effective way to prevent influenza and influenza-associated complications including those leading to hospitalization. Resources otherwise used for influenza could support caring for patients with coronavirus disease 2019 (COVID-19).

Evidence, Experience, Expertise, and the US Coronavirus Disease 2019 Public Health Response
15 Jul 2021
Abstract

The U.S. Centers for Disease Control and Prevention (CDC), state, tribal, and local health departments assess available and promising interventions and individual and population health outcomes when crafting public health recommendations. This supplement provides a snapshot of some of the science, experience, and expertise supporting the COVID-19 response.

**Widespread Severe Acute Respiratory Syndrome Coronavirus 2 Transmission Among Attendees at a Large Motorcycle Rally and their Contacts, 30 US Jurisdictions, August–September, 2020**

15 Jul 2021

Abstract

The 2020 Sturgis motorcycle rally resulted in widespread transmission of severe acute respiratory syndrome coronavirus 2 across the United States. At least 649 coronavirus disease 2019 cases were identified, including secondary and tertiary spread to close contacts.

**Adverse Pregnancy Outcomes, Maternal Complications, and Severe Illness Among US Delivery Hospitalizations With and Without a Coronavirus Disease 2019 (COVID-19) Diagnosis**

15 Jul 2021

Abstract

Background

Evidence on risk for adverse outcomes from coronavirus disease 2019 (COVID-19) among pregnant women is still emerging. We examined the association between COVID-19 at delivery and adverse pregnancy outcomes, maternal complications, and severe illness, and whether these associations differ by race/ethnicity, and describe discharge status by COVID-19 diagnosis and maternal race/ethnicity.


15 Jul 2021

Abstract

Background

Because of the increased risk for severe coronavirus disease 2019 (COVID-19), the Advisory Committee on Immunization Practices (ACIP) initially prioritized COVID-19 vaccination for persons in long-term care facilities (LTCF), persons aged ≥65 years, and persons aged 16–64 years with high-risk medical conditions when there is limited vaccine supply.

**Results of a Shortened Quarantine Protocol on a Midwestern College Campus**

15 Jul 2021

Abstract

A shortened quarantine protocol after severe acute respiratory syndrome coronavirus 2 exposure was implemented on a college campus. We assessed data on exposures, symptoms, and tests in 1152 unvaccinated individuals released from quarantine on day 7. A shortened quarantine period for asymptomatic individuals testing negative can be implemented with low risk.

**Severe Acute Respiratory Syndrome Coronavirus 2 Transmission in Intercollegiate Athletics Not Fully Mitigated With Daily Antigen Testing**

15 Jul 2021

Abstract

Background

High-frequency, rapid-turnaround severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) testing continues to be proposed as a way of efficiently identifying and mitigating transmission in congregate settings.

**Performance of Repeat BinaxNOW Severe Acute Respiratory Syndrome Coronavirus 2 Antigen Testing in a Community Setting, Wisconsin, November 2020–December 2020**

15 Jul 2021

Abstract

Repeating the BinaxNOW antigen test for severe acute respiratory syndrome coronavirus 2 using 2 groups of readers within 30 minutes resulted in high concordance (98.9%) in 2110 encounters. Same-day repeat antigen testing did not significantly improve test sensitivity (77.2% to 81.4%) while specificity remained high (99.6%).
Changes in Emergency Medical Services Before and During the COVID-19 Pandemic in the United States, January 2018–December 2020
15 Jul 2021
Abstract
Background As a result of the continuing surge of coronavirus disease 2019 (COVID-19), many patients have delayed or missed routine screening and preventive services. Medical conditions, such as coronary heart disease, mental health issues, and substance use disorder, may be identified later, leading to increases in patient morbidity and mortality.

Building a Virtual Global Knowledge Network During the Coronavirus Disease 2019 Pandemic: The Infection Prevention and Control Global Webinar Series
15 Jul 2021
Abstract
Background The coronavirus disease 2019 (COVID-19) pandemic has been an unprecedented global health challenge. Traditional modes of knowledge dissemination have not been feasible. A rapid solution was needed to share guidance and implementation examples within the global infection prevention and control (IPC) community.

Clinical Microbiology and Infection

Duration of SARS-CoV-2 viral culture Positivity among different specimen types
16 Jul 2021
Publication date: Available online 16 July 2021
Source: Clinical Microbiology and Infection
Author(s): N. Kojima, C. Mores, N. Farsai, J.D. Klausner

Predicting critical illness on initial diagnosis of COVID-19 based on easily-obtained clinical variables: development and validation of the PRIORITY model
15 Jul 2021
Publication date: Available online 15 July 2021
Source: Clinical Microbiology and Infection
Author(s): Miguel Martinez-Lacalzada, Adrián Viteri-NoéI, Luis Manzano, Martin Fabregate, Manuel Rubio-Rivas, Sara Luis Garcia, Francisco Arnalich Fernández, José Luis Beato Pérez, Juan Antonio Vargas Núñez, Elpidio Calvo Manuel, Alexia Constanza Espiño Álvarez, Santiago J

Antimicrobials are EFFECTIVE for treatment of uncomplicated urinary infection
14 Jul 2021
Publication date: Available online 14 July 2021
Source: Clinical Microbiology and Infection
Author(s): Nicolle Lindsay

A systematic review of Mycobacterium leprae DNA gyrase mutations and their impact on fluoroquinolone resistance
13 Jul 2021
Publication date: Available online 13 July 2021
Source: Clinical Microbiology and Infection
Author(s): Aurélie Chauffour, Florence Morel, Florence Reibel, Stéphanie Petrella, Claudine Mayer, Emmanuelelle Cambau, Alexandra Aubry

Effectiveness of mRNA-BNT162b2, mRNA-1273, and ChAdOx1 nCoV-19 vaccines against COVID-19 in health care workers: an observational study using surveillance data
13 Jul 2021
Publication date: Available online 13 July 2021
Source: Clinical Microbiology and Infection
Author(s): Christophe Paris, Sophie Perrin, Stephanie Hamonic, Baptiste Bourget, Clémence Roué, Olivier Brassard, Emilie Tadié, Vincent Gicquel, François Bénédict, Vincent Thibault, Ronan Garlantézec, Pierre Tattevin
Current in-hospital management for patients with tuberculosis in a high-income country: a retrospective cohort study
13 Jul 2021
Publication date: Available online 13 July 2021Source: Clinical Microbiology and InfectionAuthor(s): Akane Takamatsu, Yasuhiro Kano, Yasuaki Tagashira, Teruo Kirikae, Hitoshi Honda

Viral populations of SARS-CoV-2 in upper respiratory tract, placenta, amniotic fluid and umbilical cord support viral replication in placenta
12 Jul 2021
Publication date: Available online 11 July 2021Source: Clinical Microbiology and InfectionAuthor(s): Maria Piñana, Josep F. Abril, Cristina Andrés, Aroa Silgado, Alexandra Navarro, Anna Suy, Elena Sulleiro, Tomás Pumarola, Josep Quer, Andrés Antón

Training and assessment of medical specialists in clinical microbiology and Infectious Diseases in europe
12 Jul 2021
Publication date: Available online 11 July 2021Source: Clinical Microbiology and InfectionAuthor(s): Nick J. Beeching, Hilpi Rautelin, Jean-Paul Stahl, Truls M. Leegaard

Clinical Microbiology Reviews - Current Issue

Erratum for Ramasamy and Subbian, “Critical Determinants of Cytokine Storm and Type I Interferon Response in COVID-19 Pathogenesis”
14 Jul 2021
Clinical Microbiology Reviews, Ahead of Print.

Interplay between Candida albicans and Lactic Acid Bacteria in the Gastrointestinal Tract: Impact on Colonization Resistance, Microbial Carriage, Opportunistic Infection, and Host Immunity
14 Jul 2021
Clinical Microbiology Reviews, Ahead of Print.

Current Opinion in Microbiology

Group 3 innate lymphoid cells mediate host defense against attaching and effacing pathogens
16 Jul 2021
Publication date: October 2021Source: Current Opinion in Microbiology, Volume 63Author(s): Angélique Jarade, James P Di Santo, Nicolas Serafini

Editorial Board
13 Jul 2021
Publication date: August 2021Source: Current Opinion in Microbiology, Volume 62Author(s):

Current Opinion in Virology

COVID-19, the first pandemic in the post-genomic era
13 Jul 2021
Publication date: Available online 13 July 2021Source: Current Opinion in VirologyAuthor(s): Lucy van Dorp, Charlotte J Houldcroft, Damien Richard, François Balloux
Diagnostic Microbiology and Infectious Disease

Evaluation of automated antigen detection test for detection of SARS-CoV-2
18 Jul 2021
Publication date: Available online 16 July 2021
Source: Diagnostic Microbiology and Infectious Disease
Author(s): Gannon CK Mak, Stephen SY Lau, Kitty KY Wong, Nancy LS Chow, CS Lau, Ken HL Ng, Edman TK Lam, Rick Jason CW Chan, Dominic NC Tsang

Real-time Next-Generation Sequencing on Shell-vial Culture to contribute to diagnosis of lymphatic tuberculosis: a case report.
18 Jul 2021
Publication date: Available online 17 July 2021
Source: Diagnostic Microbiology and Infectious Disease
Author(s): Madjid Morsli, Marc Faltot, Hélène Astier, Erwan Le Dault, Bernard Chaudier, Eric Garnotel, Sophie Alexandra Baron, Michel Drancourt

Comparison of 4 commercial enzyme immunoassays for serology testing of human parvovirus B19 infection
16 Jul 2021
Publication date: Available online 16 July 2021
Source: Diagnostic Microbiology and Infectious Disease
Author(s): Tim Van den Abeele, Marie-Luce Delforge, An Boel, Marijke Reynders, Elizaveta Padalko

Diagnostic pre-screening method based on N-gene dropout or delay to increase feasibility of SARS-CoV-2 VOC B.1.1.7 detection
16 Jul 2021
Publication date: Available online 16 July 2021
Source: Diagnostic Microbiology and Infectious Disease
Author(s): Juan Manuel Sánchez-Calvo, Juan Carlos Alados Arboledas, Luis Ros Vidal, José Luis de Francisco, María Dolores López Prieto

Testing individual and pooled saliva samples for sars-cov-2 nucleic acid: a prospective study
15 Jul 2021
Publication date: Available online 15 July 2021
Source: Diagnostic Microbiology and Infectious Disease
Author(s): M. Migueres, C. Vellas, F. Abravanel, I. Da Silva, C. Dimeglio, V. Ferrer, S. Raymond, JM. Mansuy, J. Izopet

Modifications of antifungal susceptibility testing as suggested by CLSI document M27-A4: proposal for using different culture medium and buffer
15 Jul 2021
Publication date: Available online 15 July 2021
Source: Diagnostic Microbiology and Infectious Disease
Author(s): Edinaira Sulany Oliveira de Sousa, Silviane Bezerra Pinheiro, Ana Cláudia Alves Cortez, Kátia Santana Cruz, Érica Simplicio de Souza, Marcia de Souza Carvalho Melhem, Hagen Frickmann, João Vicente Braga de Sousa

Emerging Infectious Diseases Journal - ahead of print

Parasitic Disease Surveillance, Mississippi, USA
15 Jul 2021
R. S. Bradbury et al.

Screening for Q Fever in Patients Undergoing Transcatheter Aortic Valve Implantation, Israel, June 2018–May 2020
15 Jul 2021
N. Ghanem-Zoubi et al.

Endogenous Endophthalmitis Caused by ST66-K2 Hypervirulent Klebsiella pneumoniae, United States
15 Jul 2021
E. Kamau et al.
<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>African Horse Sickness Virus Serotype 1 on Horse Farm, Thailand, 2020</td>
<td>15 Jul 21</td>
<td>N. Bunpapong et al.</td>
</tr>
<tr>
<td>Replication in Human Intestinal Enteroids of Infectious Norovirus from Vomit Samples</td>
<td>15 Jul 21</td>
<td>M. Hagbom et al.</td>
</tr>
<tr>
<td>Post–13-Valent Pneumococcal Conjugate Vaccine Dynamics in Young Children</td>
<td>15 Jul 21</td>
<td>C. Levy et al.</td>
</tr>
<tr>
<td>Estimate of Burden and Direct Healthcare Cost of Infectious Waterborne Disease in the United States</td>
<td>15 Jul 21</td>
<td>S. DeFlorio-Barker et al.</td>
</tr>
<tr>
<td>Genomic Detection of Schmallenberg Virus, Israel</td>
<td>15 Jul 21</td>
<td>A. Behar et al.</td>
</tr>
<tr>
<td>SARS-CoV-2 Wastewater Surveillance for Public Health Action</td>
<td>15 Jul 21</td>
<td>J. S. McClary-Gutierrez et al.</td>
</tr>
<tr>
<td>Plague Transmission from Corpses and Carcasses</td>
<td>14 Jul 21</td>
<td>S. Jullien et al.</td>
</tr>
<tr>
<td>Comparison of Lyme Disease in the United States and Europe</td>
<td>14 Jul 21</td>
<td>A. R. Marques et al.</td>
</tr>
<tr>
<td>Fungemia and Other Fungal Infections Associated with Use of Saccharomyces boulardii Probiotic Supplements</td>
<td>14 Jul 21</td>
<td>J. Rannikko et al.</td>
</tr>
<tr>
<td>Epidemiology and Spatial Emergence of Anaplasmosis, New York, USA, 2010–2018</td>
<td>14 Jul 21</td>
<td>A. Russell et al.</td>
</tr>
<tr>
<td>Spatial, Ecologic, and Clinical Epidemiology of Community-Onset, Ceftriaxone-Resistant Enterobacteriaceae, Cook County, Illinois, USA</td>
<td>13 Jul 21</td>
<td>V. Sardá et al.</td>
</tr>
<tr>
<td>Modeling Immune Evasion and Vaccine Limitations by Targeted Nasopharyngeal Bordetella pertussis Inoculation in Mice</td>
<td>13 Jul 21</td>
<td>I. Soumana et al.</td>
</tr>
<tr>
<td>Spotted Fever Group Rickettsioses in Israel, 2010–2019</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
European Journal of Clinical Microbiology & Infectious Diseases

19 Jul 2021  
Abstract The emergence of carbapenem-resistant (CR) Escherichia coli obliges an assessment of such strains' molecular epidemiology. Accordingly, we characterized in detail a globally distributed collection of CR E. coli isolates, then explored for associations between geographical origin and bacterial traits, and between different bacterial traits

Correction to: Diagnostic performance of four SARS-CoV-2 antibody assays in patients with COVID-19 or with bacterial and non-SARS-CoV-2 viral respiratory infections  
16 Jul 2021

Impact of a 4-year antimicrobial stewardship program implemented in a Greek tertiary hospital  
15 Jul 2021  
Abstract This study aimed to investigate the effects of a 4-year antibiotic stewardship program (ASP) in a tertiary hospital. We monitored data for 2015 (pre-intervention) and 2016–2019 (post-intervention) about antibiotic consumption (DDD/100 bed days), Clostridioides difficile infections (CDIs), resistance rates, length of stay (LOS), and annual antibiotic costs

Development of a loop-mediated isothermal amplification assay for the rapid detection of six common respiratory viruses  
15 Jul 2021  
Abstract Due to the highly contagious and spreads quickly of respiratory infectious diseases (ADR), the availability of rapid, sensitive, and reliable diagnostic methods is essential for disease control

Population-based surveillance of Enterobacter cloacae complex causing blood stream infections in a centralized Canadian region  
14 Jul 2021  
Abstract Active population-based surveillance determined clinical factors, susceptibility patterns, incidence rates (IR), and genomics among Enterobacter cloacae complex (n = 154) causing blood stream infections in a centralized Canadian region (2015–2017). The annual population IR was 1.2/100,000 (95% CI 0.9–16) in 2015, 1.4/100,000 (95% CI 1.1–1.9) in 2016, and 1.5/100,000 (95% CI 1.2–2

The prevalence and mortality of cryptococcal meningitis in patients with autoimmune diseases: a systematic review and meta-analysis  
14 Jul 2021

Prognosis of rash and chilblain-like lesions among outpatients with COVID-19: a large cohort study  
13 Jul 2021  
Abstract In a large regional observational cohort study of adult (≥ 18 years), outpatients with COVID-19, prevalence, characteristics, and outcome of patients with rash and/or chilblain-like lesions (CCL), compared with population without cutaneous features, were studied. In total, 28,957 outpatients were included; the prevalence of rash and CCL were 9.5% and 3.7%, respectively
The MOBILISE study: utilisation of ambulatory pumps in the inpatient setting to administer continuous antibiotic infusions—a randomised controlled trial
13 Jul 2021
Abstract In the inpatient setting, antibiotics are generally administered via bedside pumps with multiple daily dosing. Utilisation of a continuous antibiotic infusion (CAI) instead might have patient and nursing satisfaction, workflow efficiencies and infection control benefits. We aimed to study the utilisation of CAI in the inpatient setting for routine antibiotic administration

Eurosurveillance latest updates

Efficacy and effectiveness of COVID-19 vaccines against SARS-CoV-2 infection: interim results of a living systematic review, 1 January to 14 May 2021
15 Jul 2021
Evidence on COVID-19 vaccine efficacy/effectiveness (VE) in preventing asymptomatic SARS-CoV-2 infections is needed to guide public health recommendations for vaccinated people. We report interim results of a living systematic review. We identified a total of 30 studies that investigated VE against symptomatic and/or asymptomatic infection

Impact of non-pharmaceutical interventions against COVID-19 in Europe in 2020: a quasi-experimental non-equivalent group and time series design study
15 Jul 2021
Introduction The current pandemic of coronavirus disease (COVID-19) is unparalleled in recent history as are the social distancing interventions that have led to a considerable halt on the economic and social life of so many countries. Aim We aimed to generate empirical evidence about which social distancing measures had the most impact in reducing case counts and mortality

Rapid spread of the SARS-CoV-2 Delta variant in some French regions, June 2021
15 Jul 2021
We analysed 9,030 variant-specific RT-PCR tests performed on SARS-CoV-2-positive samples collected in France between 31 May and 21 June 2021. This analysis revealed rapid growth of the Delta variant in three of the 13 metropolitan French regions and estimated a +79% (95% confidence interval: 52–110%) transmission advantage compared with the Alpha variant

Real-world data shows increased reactogenicity in adults after heterologous compared to homologous prime-boost COVID-19 vaccination, March–June 2021, England
15 Jul 2021
Adults receiving heterologous COVID-19 immunisation with mRNA (Comirnaty) or adenoviral-vector (Vaxzevria) vaccines had higher reactogenicity rates and sought medical attention more often after two doses than homologous schedules. Reactogenicity was higher among ≤ 50 than > 50 year-olds, women and those with prior symptomatic/confirmed COVID-19

Infection

Systematic review and meta-analysis of the proportion and associated mortality of polymicrobial (vs monomicrobial) pulmonary and bloodstream infections by Acinetobacter baumannii complex
14 Jul 2021
Abstract Background Differentiating Acinetobacter baumannii complex (ABC) infection from colonization remains difficult and further complicated in polymicrobial infections. Purpose To assess the frequency of polymicrobial ABC infections and associated mortality. We hypothesized a lower mortality in polymicrobial infections if ABC isolation reflects colonization in some polymicrobial infections.

Bacterial infections in critically ill patients with SARS-2-COVID-19 infection: results of a prospective observational multicenter study
14 Jul 2021
Abstract Purpose To investigate the prevalence, incidence and characteristics of bacterial infections and their impact on outcome in critically ill patients infected with COVID-19. Methods We conducted a prospective observational study in eight Italian ICUs from February to May 2020; data were collected through an interactive electronic database.

Influence of microbiological diagnosis on the clinical course of spondylodiscitis
12 Jul 2021
Abstract Purpose This study sought to recognize differences in clinical disease manifestations of spondylodiscitis depending on the causative bacterial species. Methods We performed an evaluation of all spondylodiscitis cases in our clinic from 2013–2018. 211 patients were included, in whom a causative bacterial pathogen was identified in 80.6% (170/211).

Infection Control & Hospital Epidemiology - FirstView Article

Pediatric antimicrobial stewardship practices at discharge: A national survey
16 Jul 2021
Published online by Cambridge University Press:

Surveillance practices and air-sampling strategies to address healthcare-associated invasive mold infections in Society for Healthcare Epidemiology of America (SHEA) Research Network hospitals—United States, 2020
16 Jul 2021
Published online by Cambridge University Press:

Comparison of metrics used to track central-line–associated bloodstream infections (CLABSIs) and catheter-associated urinary tract infections (CAUTIs) across a regional network
16 Jul 2021
Published online by Cambridge University Press:

Intranasal octenidine for methicillin-resistant Staphylococcus aureus (MRSA) carriers and universal octenidine bathing reduced MRSA acquisition in an acute-care general ward
16 Jul 2021
Published online by Cambridge University Press:

Population-based surveillance of medical tourism among US residents from 11 states and territories: Findings from the Behavioral Risk Factor Surveillance System
15 Jul 2021
Published online by Cambridge University Press:

Effectiveness of appropriate antibiotic prophylaxis for transurethral resection of the prostate in the era of antibiotic resistance
15 Jul 2021
Published online by Cambridge University Press:
Outbreak of Burkholderia contaminans endophthalmitis traced to a clinic ventilation system
12 Jul 2021
Published online by Cambridge University Press:

The use of antibody tests to determine level of immunity against coronavirus disease 2019 (COVID-19) after vaccination: A recent trend in India
05 Jul 2021
Published online by Cambridge University Press:

Infection Control & Hospital Epidemiology - Current Issue

ICE volume 42 issue 7 Cover and Back matter
15 Jul 2021
ICE volume 42 issue 7 Cover and Front matter
15 Jul 2021
Rapid diagnostic testing for antimicrobial stewardship: Utility in Asia Pacific
15 Jun 2021
Rapid diagnostic testing (RDT) can provide prompt, accurate identification of infectious organisms and be a key component of antimicrobial stewardship (AMS) programs. However, their use is less widespread in Asia Pacific than western countries. Cost can be prohibitive, particularly in less resource-replete settings

Patient notification about suspected hospital-associated outbreaks of invasive mold infections: Considerations for public health and hospital personnel
10 Jun 2021
A common type of fungal disease investigation involves hospital-associated clusters of invasive mold infections (IMIs), which typically occur among immunocompromised patients. Responding to IMI clusters can be challenging for public health and hospital personnel for several reasons such as difficulty of confirming the existence of an outbreak, difficulty of determining source

Need of the hour: Dental stewardship
14 May 2021

International Journal of Infectious Diseases

Nocardia infection causing non-healing surgical wounds: A case series from Bangladesh
16 Jul 2021
Publication date: Available online 16 July 2021Source: International Journal of Infectious DiseasesAuthor(s): Afzalunnessa Binte, Samira Afroz, Asif Mujtaba Mahmud, Tasmiah Selim, Taskina Akhter, Tamanna Sultana, Sadia Taskeen

Seroprevalence of viral hepatitis B and C in two populations: blood donors and patients with suspected hepatic cirrhosis in Kwilu province, Democratic Republic of Congo
16 Jul 2021
Publication date: Available online 15 July 2021Source: International Journal of Infectious DiseasesAuthor(s): Junior Mudji, Justice Malala, Yves Horsmans
Propensity-Score Analysis Reveals that Sex is Not a Prognosis Factor for Mortality in Intensive Care Unit-Admitted Patients with Septic Bacteremia
16 Jul 2021
Publication date: Available online 16 July 2021Source: International Journal of Infectious Diseases
Author(s): Manuel Ponce-Alonso, Borja M. Fernández-Félix, Ana Halperin, Mario Rodríguez-Dominguez, Ana M Sánchez-Díaz, Rafael Cantón, Alfonso Muriel, Javier Zamora, Rosa del Campo

Immunity against seasonal human coronavirus OC43 mitigates fatal deterioration of COVID-19
15 Jul 2021
Publication date: Available online 14 July 2021Source: International Journal of Infectious Diseases
Author(s): Tomoyuki YAMAGUCHI, Toshie SHINAGAWA, Hisanobu KOBATA, Hidemitsu NAKAGAWA

Prospective cohort study of children exposed to Hepatitis C virus through a pregnancy screening program
15 Jul 2021
Publication date: Available online 14 July 2021Source: International Journal of Infectious Diseases
Author(s): Raquel Borges Pinto, Ana Regina L. Ramos, Leidy Tovar Padua, Emma Jane Swayne, Mary Catherine Cambou, Maristela Fiorini, Marineide Melo, Breno Riegel Santos, Ivete Cristina Teixeira Cantí, Mara Liane Rieck Silveira, Maria Inês Gonzalez Solari, Juliana Ferraz de Correa, Kara Chew, Ivana

SARS-CoV-2 seroprevalence and associated factors in Manaus, Brazil: baseline results from the DETECTCoV-19 cohort study
15 Jul 2021
Publication date: Available online 14 July 2021Source: International Journal of Infectious Diseases
Author(s): Pritesh Lalwani, Bárbara Batista Salgado, Ivanildo Vieira Pereira Filho, Danielle Severino Sena da Silva, Thiago Barros do Nascimento de Morais, Maíra Ferreira Jordão, Aguyda Rayany Cavalcante Barbosa, Isabelle Bezerra Cordeiro, Júlio Nino de Souza Neto, Enedina Nogueira de Assunção,

Tocilizumab and Systemic Corticosteroids in the Management of COVID-19 Patients: A Systematic Review and Meta-Analysis
15 Jul 2021
Publication date: Available online 14 July 2021Source: International Journal of Infectious Diseases
Author(s): Hadeel Alkofide, Abdullah Almohaizeie, Sara Almuhaini, Bashayer Aloitaibi, Khalid M. Alkharfy

Molecular epidemiology and drug susceptibility profiles of Mycobacterium tuberculosis complex isolates from Northern Ghana
15 Jul 2021
Publication date: Available online 14 July 2021Source: International Journal of Infectious Diseases

Analysis of SARS-CoV-2 RT-qPCR Ct values vis-à-vis anti-SARS-CoV-2 antibodies from a high incidence region
15 Jul 2021
Publication date: Available online 14 July 2021Source: International Journal of Infectious Diseases
Author(s): Robert Markewitz, Antje Torge, Klaus-Peter Wandinger, Daniela Pauli, Justina Dargvaniene, André Franke, Luis Bujanda, José María Marimón, Jesus M. Banales, María A. Gutierrez-Stampa, Beatriz Nafria, Ralf Junker

Long-term clinical follow up of patients suffering from moderate to severe COVID-19 infection: A monocentric prospective observational cohort study
15 Jul 2021
Long-term weight gain after initiating combination antiretroviral therapy in treatment-naïve Asian people living with human immunodeficiency virus

High variability in model performance of Google relative search volume in spatially clustered COVID-19 areas of the United States

Assessment of Interferon Gamma-Induced Protein 10 mRNA Release Assay for Detection of Latent Tuberculosis Infection in Egyptian Pediatric Household Contacts

Proteinuria in Hantavirus Cardiopulmonary Syndrome: a frequent finding linked to mortality

Monoclonal Antibody Therapy in a Vaccine Breakthrough SARS-CoV-2 Hospitalized Delta (B.1.617.2) Variant Case

Autochthonous leprosy in Europe: a case report and literature review

Reduction in COVID-19 prevalence in health care workers in a university hospital in southern Brazil after the start of vaccination.

Age significantly influences the sensitivity of SARS-CoV-2 rapid antibody assays
High seroprevalence for SARS-CoV-2 infection in South America, but still not enough for herd immunity!

12 Jul 2021

Journal of Clinical Microbiology

Performance of the Abbott SARS-CoV-2 IgG II Quantitative antibody assay including the new Variants of Concern (VOC 202012/V1 (UK) and VOC 202012/V2 (South Africa)): And first steps towards global harmonization of COVID-19 antibody methods

14 Jul 2021

Real World Evaluation of the Impact of Implementation of the VIRTUO Blood Culture System in a Tertiary Care Hospital

14 Jul 2021

Practical agar-based disk-diffusion tests using sulfamoyl heteroarylcarnboxylic acids for identification of subclass B1 metallo-β-lactamase-producing Enterobacteriales

14 Jul 2021


14 Jul 2021

EARLY LABORATORY DIAGNOSIS OF COVID-19 BY ANTIGEN DETECTION IN BLOOD SAMPLES OF THE SARS-COV-2 NUCLEOCAPSID PROTEIN

14 Jul 2021

"Blood Culture Utilization in the Hospital Setting: A Call for Diagnostic Stewardship".

14 Jul 2021

Considerations from the College of American Pathologists for implementation of an assay for SARS-CoV-2 testing after a change in regulatory status

14 Jul 2021

Journal of Clinical Virology

Performance of five rapid serological tests in mild-diseased subjects using finger prick blood for exposure assessment to SARS-CoV-2

16 Jul 2021
SARS-CoV-2 Serology: Validation of High-Throughput Chemiluminescent Immunoassay (CLIA) Platforms and a Field Study in British Columbia
16 Jul 2021
Emerging SARS-CoV-2 variant B.1.1.7 reduces neutralisation activity of antibodies against wild-type SARS-CoV-2
16 Jul 2021
Universal Polymerase Chain Reaction Screening for Severe Acute Respiratory Syndrome Coronavirus 2 in Asymptomatic Patients Before Hospital Admission in Tokyo, Japan
15 Jul 2021
Fifteen Years of the Proficiency Testing Program for HIV-1 Viral Load Testing Laboratories in China, 2005-2019
14 Jul 2021

Journal of Hospital Infection
Accuracy of hospital-based surveillance systems for surgical site infection after adult spine surgery: A Bayesian latent class analysis
14 Jul 2021
Surgical site infections (SSIs) of the spine are morbid and costly complications. An accurate surveillance system is required to properly describe the disease burden and the impact of interventions that mitigate SSI risk

Journal of Infection
Low incidence rate of diarrhoea in COVID-19 patients is due to integrin
15 Jul 2021
Coronavirus disease-19 (COVID-19), which was caused by Severe Acute Respiratory Syndrome-related Coronavirus 2 (SARS-CoV-2), has been a global pandemic. The first key step of SARS-CoV-2 entry is attachment and binding to cell receptor angiotensin-converting enzyme 2 (ACE2) by spike protein (S)(1). Integrin family consists of 18 α and 8 β subunits, which form tens of transmembrane heterodimers
Is diffusion of SARS-CoV-2 variants of concern associated with different symptoms?
15 Jul 2021
Although the spread of coronavirus disease 2019 (COVID-19) seems to be slowing down in many countries as consequence of widespread vaccination, the gradual accumulation of non-synonymous mutations within the genome of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has lead to appearance of variants of concern (VOCs), characterized by greater infectivity and/or potential of immune
Accuracy of Rapid Point-of-Care Antibody Test in patients with suspected or confirmed COVID-19
14 Jul 2021
We read with interest the article about use of lateral flow antigen detection tests to triage patients presenting to hospital to detect asymptomatic COVID-191. In low-income countries, where most of the population is unvaccinated, and patients often present late, point-of-care rapid antibody tests could also contribute to diagnosis of COVID-19
Procalcitonin use for the screening of bacterial infections in pregnant women in the emergency ward: a prospective study
13 Jul 2021
We read with great interest the article by Velly and colleagues which aimed at defining the best combination of biomarkers for the diagnosis of infection and sepsis in the emergency room. They report that the combination of IL6, procalcitonin and HLA-DR was optimal to predict sepsis in their emergency room population. However, this study did not include pregnancy women.

The role of Kingella kingae in pre-school aged children with bone and joint infections
12 Jul 2021

Septic arthritis (SA) and osteomyelitis (OM) are medical emergencies with a risk for joint destruction and growth disturbance in children if not recognised and treated promptly with antibiotics. Pediatric osteoarticular infections (OAI) are most common in children under five years of age, with a distinct microbiological spectrum of disease.
Correction for Knight et al., “Epstein-Barr Virus Nuclear Antigen 3C Recruits Histone Deacetylase Activity and Associates with the Corepressors mSin3A and NCoR in Human B-Cell Lines”
12 Jul 2021

Articles of Significant Interest In This Issue
12 Jul 2021

Journal of Virology: Articles Published Ahead of Print
Peroxiredoxin 1 interacts with TBK1/IKKε and negatively regulates pseudorabies virus propagation by promoting innate imm...
14 Jul 2021
Peroxiredoxin 1 (PRDX1) is a cellular antioxidant enzyme crucial for diverse fundamental biological processes, such as autophagy, inflammation and carcinogenesis. However, molecular mechanisms underpinning its diverse roles are not well understood. Here, ...
Engineered promoter-switched viruses reveal the role of poxvirus maturation protein A26 as a negative regulator of viral...
14 Jul 2021
Vaccinia virus produces two types of virions known as single-membraned intracellular mature virus (MV) and double-membraned extracellular enveloped virus (EV). EV production peaks earlier when initial MV are further wrapped and secreted to spread ...

Lancet
[Correspondence] COVID-19: counting migrants in
16 Jul 2021
Rohini Mathur and colleagues present important data highlighting increased SARS-CoV-2 infection rates among minority ethnic people in the UK, including people reporting as South Asian and Black, yet use of these broad ethnic categories consistently fails to capture the dynamics of contemporary migration

[Comment] In-hospital complications associated with COVID-19
16 Jul 2021
As the COVID-19 pandemic persists globally an emerging challenge is the shift from acute infection to the burden of long-term consequences resulting from the disease. Although a consensus terminology has not yet been reached, the post-acute stage of COVID-19 is mostly defined as 3 or 4 weeks after symptom onset, and long or chronic COVID-19 is defined as symptoms and abnormalities persisting or

[Department of Error] Department of Error
16 Jul 2021
Haas EJ, Angulo FJ, McLaughlin JM, et al. Impact and effectiveness of mRNA BNT162b2 vaccine against SARS-CoV-2 infections and COVID-19 cases, hospitalisations, and deaths following a nationwide vaccination campaign in Israel: an observational study using national surveillance data

Microbiology and Molecular Biology Reviews: Current Issue
The Baltimore Classification of Viruses 50 Years Later: How Does It Stand in the Light of Virus Evolution?
14 Jul 2021
Microbiology and Molecular Biology Reviews, Ahead of Print.
Morbidity and Mortality Weekly Report (MMWR)

EARLY RELEASE: Heat-Related Emergency Department Visits During the Northwestern Heat Wave - United States, June 2021
16 Jul 2021
This report describes heat waves and record high temperatures in the U.S. that cause heat-related illnesses and deaths, especially in the northwest.

COVID-19 Vaccine Administration, by Race and Ethnicity - North Carolina, December 14, 2020-April 6, 2021
15 Jul 2021
This report describes COVID-19 vaccine administration by race in North Carolina.

COVID-19 Vaccination Coverage Among Insured Persons Aged ≥16 Years, by Race/Ethnicity and Other Selected Characteristics - Eight Integrated Health Care Organizations, United States, December 14, 2020-May 15, 2021
15 Jul 2021
This report describes vaccination coverage among insured people by race/ethnicity, age, and other characteristics.

Erratum: Vol. 70, No. 18
15 Jul 2021
MMWR erratum volume 70, number 18.

QuickStats: Percentage of Men and Women Aged 25-49 Years Who Spent at Least One Night in the Past 12 Months at an Alternate Location Because They Did Not Have a Permanent Place To Stay, by Type of Location - National Survey of Family Growth, United States, 2017-2019
15 Jul 2021
This report describes the percentage of women and men aged 25-49 years who spent the night in an alternate location due to no permanent place to stay.

RECOMMENDATIONS AND REPORTS: Antimicrobial Treatment and Prophylaxis of Plague: Recommendations for Naturally Acquired Infections and Bioterrorism Response
15 Jul 2021
CDC considered individual expert input while developing these guidelines, which provide recommended best practices for treatment and prophylaxis of human plague for both naturally occurring disease and following a bioterrorism attack.

Nature Reviews Microbiology - Current Issue

Targeting viral liquid–liquid phase separation
16 Jul 2021
Nature Reviews Microbiology, Published online: 16 July 2021; doi:10.1038/s41579-021-00608-6 Two recent studies provide evidence that liquid–liquid phase separation during viral replication is a target for antiviral therapy.

Sensing when to colonize
16 Jul 2021
Nature Reviews Microbiology, Published online: 16 July 2021; doi:10.1038/s41579-021-00609-5 A recent study uncovers that sensing of host amino acids in Aeromonas veronii regulates bacterial motility, enhancing gut colonization of zebrafish.

Phytophthora cuts into plant hosts
13 Jul 2021
Oomycetes use a slicing mechanism depending on polarized hyphae to invade plant hosts.

Nature Reviews Microbiology, Published online: 13 July 2021; doi:10.1038/s41579-021-00607-7

A tale of capsules, phages and plasmids
13 Jul 2021
Nature Reviews Microbiology, Published online: 13 July 2021; doi:10.1038/s41579-021-00606-8
This study shows that phage predation of Klebsiella pneumoniae is regulated by capsule type and that capsule loss promotes plasmid conjugation.

Sponge microbiomes and global change
13 Jul 2021
Nature Reviews Microbiology, Published online: 13 July 2021; doi:10.1038/s41579-021-00605-9
In marine sponges, higher microbiome diversity and maintenance of host innate immunity was associated with resilience to warming and acidification.

New England Journal of Medicine - Current Issue

Bamlanivimab plus Etesevimab in Mild or Moderate Covid-19
14 Jul 2021
New England Journal of Medicine, Ahead of Print.
Durable Humoral and Cellular Immune Responses 8 Months after Ad26.COV2.S Vaccination
14 Jul 2021
New England Journal of Medicine, Ahead of Print.
Heterologous ChAdOx1 nCoV-19 and mRNA-1273 Vaccination
14 Jul 2021
New England Journal of Medicine, Ahead of Print.

Sexually Transmitted Infection Online First

Increased risk of subsequent chlamydia infection among women not tested at the anorectal anatomical location
16 Jul 2021
Background Universal anorectal testing for Chlamydia trachomatis (chlamydia) among women is not recommended in many countries, while anorectal chlamydia infections are common. Missed anorectal infections might cause sequelae at the genital site if autoinoculation from the anorectum is possible, but evidence is limited

NIS Affiliation

PubMed: NIS affiliation
The Impact Of Direct-Acting Antivirals On Hepatitis C Viraemia Among People Who Inject Drugs In England; Real-World Data 2011-2018
16 Jul 2021
Direct-acting antiviral (DAA) therapy for anybody with viraemic HCV infection has been scaled-up in England since 2017. To assess early impacts, we investigated trends in, and factors associated with, HCV viraemia among people who inject drugs (PWID). We also examined trends in self-reported treatment access