Infection Current Awareness Update 06/11/2023
06/11/2023

Welcome to the weekly Infection Current Awareness Update (ICAU), produced by UKHSA 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.

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Infection-related guidance

Royal College of Physicians

A round-up of activity at Med+ 2023

01 Nov 2023

Hundreds of people attended the Royal College of Physician’s London home this week and more than 1,000 tuned in online for one of the key events in the RCP conference calendar, Med+.

Infection-related journals

American Journal of Infection Control

Impact of doxycycline on Clostridioides difficile infection in patients hospitalized with community-acquired pneumonia

01 Nov 2023

Antibiotic use is a significant risk factor associated with Clostridioides difficile (C difficile) infection (CDI). Community-acquired pneumonia (CAP) is a common infection leading to
hospital admission and the use of antibiotics that are highly associated with CDI. It has been proposed that doxycycline, a tetracycline antibiotic, may be protective against CDI.

Clinical Infectious Diseases - Advance Access

Clinical Laboratory Experiences During the Coronavirus Disease 2019 Pandemic
02 Nov 2023
Treatment Outcomes in Multidrug-Resistant Tuberculosis During Pregnancy
01 Nov 2023
False-Reactive Fourth-Generation Human Immunodeficiency Virus Testing in Cancer Patients
01 Nov 2023
Early oral antibiotic switch in Staphylococcus aureus bacteraemia: The Staphylococcus aureus Network Adaptive Platform (SNAP) Trial Early Oral Switch Protocol
31 Oct 2023
Give Penicillin or Ceftriaxone: Neurosyphilis Does Not Deal in Absolutes
17 Oct 2023

Clinical Microbiology and Infection

Alternative therapies against Mycobacterium abscessus infections
05 Nov 2023
Publication date: Available online 4 November 2023Source: Clinical Microbiology and InfectionAuthor(s): Ivana Palucci, Giovanni Delogu
‘The Effect of Antibiotic Therapy for Clostridioides difficile Infection on Mortality and Other Patient-Relevant Outcomes’ – Author’s reply
03 Nov 2023
Publication date: Available online 2 November 2023Source: Clinical Microbiology and InfectionAuthor(s): Stabholz Yoav, Paul Mical
Are we neglecting MERS-CoV during COVID-19 pandemic: A need for refocusing on surveillance of the deadly MERS-CoV infection
03 Nov 2023
Publication date: Available online 2 November 2023Source: Clinical Microbiology and InfectionAuthor(s): Mallhi Tauqeer, Khan Yusra Habib, Salman Muhammad, Butt Muhammad Hammad
Point-of-care ultrasound for tuberculosis and HIV – revisiting the FASH protocol and its differential diagnoses
Neonatal sepsis: a complex high-impact global health challenge urgently requiring prioritisation

Synthesizing pathogen- and infection-specific estimates of the burden of antimicrobial resistance in Europe for health-technology assessment: gaps, heterogeneity, and bias

‘Prevalence of human immunodeficiency virus, syphilis, and hepatitis B and C virus infections in pregnant women: a systematic review and meta-analysis’ – Author’s reply

Tuberculosis prevention: current strategies and future directions

Analytical interference with most current commercial HIV molecular assays in patients treated by idecabtagene vicleucel, a recently approved lentivirus-based chimeric antigen receptor T-cells (CAR T-cells) therapy

Sore throat-related infections – Lessons learnt from non-pharmacological interventions and non-COVID-19 infections

Choosing the right outcomes in infectious diseases clinical research – Putting patients front and centre
Clinical Microbiology Reviews - Current Issue

MicroRNAs in infectious diseases: potential diagnostic biomarkers and therapeutic targets
01 Nov 2023
Clinical Microbiology Reviews, Ahead of Print.

Current Opinion in Microbiology

Innovative and potential treatments for fungal central nervous system infections
31 Oct 2023
Publication date: December 2023Source: Current Opinion in Microbiology, Volume 76Author(s): Marta Reguera-Gomez, Michael R Dores, Luis R Martinez

Environmental adaptation and diversification of bacterial two-component systems
31 Oct 2023
Publication date: December 2023Source: Current Opinion in Microbiology, Volume 76Author(s): Adrián F Alvarez, Dimitris Georgellis

Cell cycle-regulated ApiAP2s and parasite development: the Toxoplasma paradigm
31 Oct 2023
Publication date: December 2023Source: Current Opinion in Microbiology, Volume 76Author(s): Kourosh Zarringhalam, Sida Ye, Jingjing Lou, Yasaman Rezvani, Marc-Jan Gubbels

The multifaceted roles of Myb domain–containing proteins in apicomplexan parasites
31 Oct 2023
Publication date: December 2023Source: Current Opinion in Microbiology, Volume 76Author(s): Dominic Schwarz, Sebastian Lourido

Crosstalk between (p)ppGpp and other nucleotide second messengers
31 Oct 2023
Publication date: December 2023Source: Current Opinion in Microbiology, Volume 76Author(s): Danny K Fung, Aude E Trinquier, Jue D Wang

Diagnostic Microbiology and Infectious Disease
Preparing for laboratory automation and consolidation – establishing the validity of pediatric-like low-volume urine samples in boric-acid containing tubes

05 Nov 2023

Publication date: Available online 3 November 2023Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Or Kriger, Natasha Belausov, Shiraz Gefen-Halevi, Nadezda Savieva, Sharon Amit

Secondary Klebsiella pneumoniae infection in patients with COVID-19: A systematic review

03 Nov 2023

Publication date: Available online 2 November 2023Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Maryam Koupaei, Arezoo Asadi, Marzie Mahdizade Ari, Zahra Sadat Seyyedi, Fahimeh Mohammadi, Roghayeh Afifi rad, Roya Ghanavati, Nahid Rezaei, Atieh Darbandi, Faramarz Masjedian

Comparison of the MeltPro TB Assay and Whole-genome Sequencing Assay for Rapid Molecular Diagnosis of Drug Resistant Tuberculosis in Guangdong province

03 Nov 2023

Publication date: Available online 2 November 2023Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): Meiling Yu, Chenchen Zhang, Liuyue Xu, Kehao Peng, Haoqing Qiu, Wenji Zhuo, Yuchuan Zhao, Zhuhua Wu, Xunxun Chen, Yanmei Chen, Qinghua Liao, Yinna Huang, Wenjing Wei

Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and lateral flow immunochromatography for rapid identification of β-lactamase-gene-harboring Enterobacterales in urine specimens: Performance and cost-benefit analyses

30 Oct 2023

Publication date: Available online 30 October 2023Source: Diagnostic Microbiology and Infectious DiseaseAuthor(s): David Sánchez, Ignacio Torres, Carmelo Padrón, Estela Giménez, Javier Colomina, Diego Carretero, Javier Buesa, David Navarro, Eliseo Albert

Emerging Infectious Diseases Journal - ahead of print

Work Attendance with Acute Respiratory Illness Before and During COVID-19 Pandemic, United States, 2018–2022

02 Nov 2023

F. Ahmed et al.


31 Oct 2023

K. Guidoum et al.

Microfilaremic Dirofilaria repens Infection in Patient from Serbia

31 Oct 2023

S. Tasić-Otasevic et al.
Systemic Erysipelas Outbreak among Free-Ranging Bottlenose Dolphins, San Diego, California, USA, 2022
31 Oct 2023
K. Danil et al.

Neurotropic Highly Pathogenic Avian Influenza A(H5N1) Virus in Red Foxes, Northern Germany
31 Oct 2023
C. Baechlein et al.

Human Lobomycosis Caused by Paracoccidioides (Lacazia) lobo, Panama, 2022
31 Oct 2023
J. A. Suárez et al.

OXA-48–Producing Uropathogenic Escherichia coli Sequence Type 127, the Netherlands, 2015–2022
31 Oct 2023
M. Mulder et al.

Mass Mortality of Sea Lions Caused by Highly Pathogenic Avian Influenza A(H5N1) Virus
30 Oct 2023
V. Gamarra-Toledo et al.

European Journal of Clinical Microbiology & Infectious Diseases

Sapovirus infection as another cause of persistent viral diarrhea: case series and review of the literature
04 Nov 2023

Abstract Human sapovirus (HuSaV) is a common cause of gastroenteritis worldwide and is responsible for approximately 4% of acute gastroenteritis episodes in Europe. As reported with norovirus, patients with immunocompromised states are at increased risk of developing HuSaV infection, which can lead to persistent diarrhea and chronic viral shedding in some individuals.

Bacteraemia caused by non-faecalis and non-faecium Enterococcus species—a retrospective study of incidence, focus of infection, and prognosis
03 Nov 2023

Abstract Background/aim Enterococcus faecalis and Enterococcus faecium cause human infections including bacteraemia and infective endocarditis (IE). Only few studies describing non-faecalis and non-faecium Enterococcus (NFE) infections have been conducted. We aimed to describe the incidence, prognosis, and focus of infection of bacteraemia with NFE.

Detection of Trichomonas vaginalis by Allplex™ STI Essential Assay (Seegene) in clinical samples from the Brazilian public health system users
02 Nov 2023
Abstract The failures in Trichomonas vaginalis (TV) infection diagnosis leave more than half of cases unidentified. In this report, urine and vaginal discharge samples were analyzed by wet mount, culture examination, and real-time PCR by Allplex™ (Seegene®) kit, in a population assisted by the Brazilian Public Health System. From 747 samples, 2

Impact of posaconazole prophylaxis and antifungal treatment on BAL GM performance in hematology malignancy patients with febrile neutropenia: a real life experience

01 Nov 2023

Abstract Background Diagnostic accuracy of galactomannan measurements is highly variable depending on the study population, diagnostic procedures, and treatment procedures. We aimed to evaluate the effect of posaconazole prophylaxis and empiric antifungal treatment upon diagnostic accuracy of GM measurements in bronchoalveolar lavage (BAL), bronchial lavage (BL), and serum in hematological

Rapid detection of cefiderocol susceptibility/resistance in Acinetobacter baumannii

01 Nov 2023

Abstract Purpose Due to its ability to disseminate worldwide and its multiple resistance trait, Acinetobacter baumannii is becoming a threat for public health worldwide. Cefiderocol (FDC) is a promising broad-spectrum cephalosporin recently approved for treating Gram-negative infection

Amino acid substitutions in the region between RpoB clusters II and III on rifampin susceptibility in Haemophilus influenzae

31 Oct 2023

Abstract Background Rifampin is a potent chemoprophylactic antibiotic for Haemophilus influenzae infection, and the resistance rate in H. influenzae is low. In this study, we assessed rifampin resistance-related genetic variations in H. influenzae. Methods Rifampin susceptibility testing and whole-genome sequencing were performed in 51 H. influenzae isolates

Co-regulation of biofilm formation and antimicrobial resistance in Acinetobacter baumannii: from mechanisms to therapeutic strategies

28 Oct 2023

Abstract In recent years, multidrug-resistant Acinetobacter baumannii has emerged globally as a major threat to the healthcare system. It is now listed by the World Health Organization as a priority one for the need of new therapeutic agents. A. baumannii has the capacity to develop robust biofilms on biotic and abiotic surfaces

Production of OXA-48 carbapenemase acts as an independent risk factor for poor outcome in Klebsiella pneumoniae infection

27 Oct 2023

Abstract Purpose To know whether the production of OXA-48 carbapenemase exerts an independent impact on the outcome of Klebsiella pneumoniae infection, once adjusted by clinical syndrome and baseline risk factors. Methods We performed a case-cohort study including 117 infectious episodes due to OXA-48-producing K

Increased recognition of Q fever aortitis as a chronic manifestation of Q fever in tropical North Queensland, Australia

26 Oct 2023

Abstract Aortitis is a life-threatening, manifestation of chronic Q fever. We report a series of 5 patients with Q fever aortitis who have presented to our hospital in tropical Australia since
2019. All diagnoses were confirmed with polymerase chain reaction (PCR) testing of aortic tissue

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Eurosurveillance latest updates

PCR testing of traced contacts for SARS-CoV-2 in England, January to July 2021
02 Nov 2023
Background The NHS Test and Trace (NHSTT) programme was established in May 2020 in England to deliver SARS-CoV-2 testing and contact tracing in order to identify infected individuals and reduce COVID-19 spread. To further control transmission, people identified as contacts were asked to self-isolate for 10 days and test only if they became symptomatic.

Outbreak of Corynebacterium diphtheriae among asylum seekers in Belgium in 2022: operational challenges and lessons learnt
02 Nov 2023
Since 2022, European countries have been facing an outbreak of mainly cutaneous diphtheria caused by toxigenic Corynebacterium diphtheriae among asylum seekers. In Belgium, between 1 March and 31 December 2022, 25 cases of toxigenic C. diphtheriae infection were confirmed among asylum seekers, mostly among young males from Afghanistan.

Outbreaks of autochthonous Dengue in Lazio region, Italy, August to September 2023: preliminary investigation
02 Nov 2023
Between August and September 2023, three distinct autochthonous dengue virus transmission events occurred in Lazio, Italy, with the main event in Rome. The events involved three different dengue serotypes. No link with previous imported cases was identified. Here we describe the epidemiological and phylogenetic analysis of the first autochthonous cases and the implemented control actions.

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Infection

Blood T cell phenotypes correlate with fatigue severity in post-acute sequelae of COVID-19
04 Nov 2023
Abstract Purpose Post-acute sequelae of COVID-19 (PASC) affect approximately 10% of convalescent patients. The spectrum of symptoms is broad and heterogeneous with fatigue being the most often reported sequela. Easily accessible blood biomarkers to determine PASC severity are lacking. Thus, our study aimed to correlate immune phenotypes with PASC across the severity spectrum of COVID-19.

Impaired immune responses and prolonged viral replication in lung allograft recipients infected with SARS-CoV-2 in the early phase after transplantation
03 Nov 2023
Abstract Purpose Lung transplant recipients are at increased risk of severe disease following infection with severe acute respiratory syndrome coronavirus type 2 (SARS-CoV-2) due to high-dose immunosuppressive drugs and the lung is the main organ affected by Coronavirus disease 2019 (COVID-19)

Viral lumbosacral radiculitis (Elsberg syndrome) in Denmark
02 Nov 2023
Abstract Purpose To describe clinical features and outcomes of viral lumbosacral radiculitis (Elsberg syndrome). Methods Nationwide population-based cohort study of all adults hospitalised for viral lumbosacral radiculitis at departments of infectious diseases in Denmark from 2015 to 2020

Antibiotic use in pediatric acute care hospitals: an analysis of antibiotic consumption data from Germany, 2013–2020
02 Nov 2023
Abstract Background Antimicrobial stewardship (AMS) programs are effective tools for improving antibiotic prescription quality. Their implementation requires the regular surveillance of antibiotic consumption at the patient and institutional level. Our study captured and analyzed antibiotic consumption density (ACD) for hospitalized pediatric patients

Helicobacter pylori and oral–gut microbiome: clinical implications
02 Nov 2023
Abstract More than half of the world’s population are colonized with H. pylori; however, the prevalence varies geographically with the highest incidence in Africa. H. pylori is probably a commensal organism that has been associated with the development of gastritis, ulcers, and gastric cancer. H

Limited protection of pneumococcal vaccines against emergent Streptococcus pneumoniae serotype 14/ST876 strains
02 Nov 2023
Abstract Purpose Streptococcus pneumoniae (Spn) is a major cause of child death. We investigated the epidemiology of S. pneumoniae in a pediatric fever clinic and explored the genomics basis of the limited vaccine response of serotype 14 strains worldwide. Methods Febrile disease and pneumonia were diagnosed following criteria from the WHO at the end of 2019 at a tertiary children’s hospital

Trends, clinical characteristics, antimicrobial susceptibility patterns, and outcomes of Campylobacter bacteraemia: a multicentre retrospective study
01 Nov 2023
Abstract Purpose We aimed to explore the clinical characteristics of Campylobacter bacteraemia and identify the trends, risk factors for mortality, and antimicrobial susceptibility patterns from clinical samples. Methods This retrospective cohort study included patients confirmed to have Campylobacter bacteraemia from seven hospitals between January 2010 and June 2021

IgG antibody levels against the SARS-CoV-2 spike protein in mother–child dyads after COVID-19 vaccination
28 Oct 2023
Abstract Purpose We aimed to assess IgG antibodies against the SARS-CoV-2 spike protein (anti-SARS-CoV-2 S IgG) in vaccinated mothers and their infants at delivery and 2–3
months of age. Methods We conducted a prospective study on mothers who received at least one dose of the COVID-19 vaccine (Pfizer-BNT162b2, Moderna mRNA-1273, or Oxford-AstraZeneca ChAdOx1-S) during pregnancy and on their Coinfections and antimicrobial treatment in a cohort of falciparum malaria in a non-endemic country: a 10-year experience
27 Oct 2023
Abstract Introduction Falciparum malaria remains one of the deadliest infectious diseases worldwide. In Germany, it is mainly an imported infection among travellers. Rates of coinfection are often unknown, and a clinical rationale for the beneficial use of calculated antibiotic therapy in patients with malaria and suspected coinfection is lacking

Rate and predictors of blood culture positivity after antibiotic administration: a prospective single-center study
27 Oct 2023
Abstract Purpose Blood culture obtainment prior to antibiotic administration, in patients with suspected infection, is considered the best practice in international guidelines. However, there is little data regarding the effect of a single dose of antibiotics on blood culture sterilization

Ceftazidime–avibactam versus polymyxins in treating patients with carbapenem-resistant Enterobacteriaceae infections: a systematic review and meta-analysis
25 Oct 2023
Abstract Objective Carbapenem-resistant Enterobacteriaceae (CRE) pose a significant threat to human health and have emerged as a major public health concern. We aimed to compare the efficacy and the safety of ceftazidime–avibactam (CAZ–AVI) and polymyxin in the treatment of CRE infections

Hemophagocytic lymphohistiocytosis—how common and how severe is it as a complication of malaria? Retrospective case series and review of the literature
24 Oct 2023
Abstract Background Infection-associated secondary hemophagocytic lymphohistiocytosis (sHLH) is a potentially life-threatening hyperinflammatory condition caused by various infectious diseases. Malaria has rarely been described as trigger. The aim of this study is to collect data on frequency, clinical spectrum, and outcome of sHLH induced by malaria

Sex differences in infective endocarditis: a Danish nationwide study
24 Oct 2023
Abstract Purpose Sex differences in infective endocarditis (IE) are reported, but patient characteristics are sparse and conflicting findings on the association between sex and short-term outcomes demand further research. We aimed to characterize sex differences in IE in terms of patient characteristics, frailty, microbiology, socioeconomic status, management and outcome on a nationwide scale
Long-term Prognosis at 1.5 years after Infection with Wild-type strain of SARS-CoV-2 and Alpha, Delta, as well as Omicron Variants

30 Oct 2023

Expression of Concern for Adékambi et al., ‘Amoebal Coculture of “Mycobacterium massiliense” sp. nov. from the Sputum of a Patient with Hemoptoic Pneumonia’

31 Oct 2023

Expression of Concern for Xu and Raoult, “Production of Monoclonal Antibodies against Rickettsia massiliae and Their Use in Antigenic and Epidemiological Studies”

31 Oct 2023

Expression of Concern for Fenollar et al., “Bartonella vinsonii subsp. arupensis as an Agent of Blood Culture-Negative Endocarditis in a Human”

31 Oct 2023

Expression of Concern for Yu et al., “Production of Monoclonal Antibodies to Tropheryma whipplei and Identification of Recognized Epitopes by Two-Dimensional Electrophoresis and Mass Spectrometry”

31 Oct 2023

Expression of Concern for Renesto et al., “Use of rpoB Gene Analysis for Detection and Identification of Bartonella Species”

31 Oct 2023

Multi-center clinical evaluation of the Panther Fusion SARS-CoV-2/Flu A/B/RSV assay in nasopharyngeal swab specimens from symptomatic individuals

30 Oct 2023
Lophomonas as a respiratory pathogen—jumping the gun
30 Oct 2023

Evaluation of the Cepheid 3-gene host response blood test for tuberculosis diagnosis and treatment response monitoring in a primary-level clinic in rural China
30 Oct 2023

Role of MALDI-TOF mass spectrometry and molecular typing methods in an outbreak investigation of a Pseudomonas stutzeri acute endophthalmitis post phacoemulsification
31 Oct 2023

Post cataract infectious endophthalmitis has been reported often from India [1] However, in most of these outbreaks, the isolates were not typed by any molecular method to confirm the genetic identity or the source of the outbreak

Effectiveness of BNT162b2 mRNA vaccine third doses and previous infection in protecting against SARS-CoV-2 infections during the Delta and Omicron variant waves; the UK SIREN cohort study September 2021 to February 2022
03 Nov 2023

Third doses of COVID-19 vaccines were widely deployed following primary vaccine course waning and emergence of the Omicron-variant. We investigated protection from third-dose vaccines and previous infection against SARS-CoV-2 infection during Delta-variant and Omicron-variant (BA.1 & BA.2) waves in our frequently PCR-tested cohort of healthcare-workers
Did Saint Leonard suffer from Madura foot at the time of death? Infectious disease diagnosis by paleoproteotyping
30 Oct 2023
Leonard was one of the most renowned saints during the Western Middle Ages. His biography, written in the 11th century, reports that he was a noble man converted to Christianity by Saint Remi, in 496, therefore at the same time as Clovis, one of the oldest kings of France

Memory B cells anticipate SARS-CoV-2 variants through somatic hypermutation
30 Oct 2023
Dear editor,

Journal of Infectious Diseases

Improving Tuberculosis Vaccine Trial Efficiency: A Tough Nut to Crack
03 Nov 2023
Helen McShane The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Pages 1147–1149, https://doi.org/10.1093/infdis/jiad360 Extract View article

An Aspiration to Radically Shorten Phase 3 Tuberculosis Vaccine Trials
03 Nov 2023
Philip C Hill and others The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Pages 1150–1153, https://doi.org/10.1093/infdis/jiad356 A new tuberculosis vaccine is urgent but licensure requires clinical trials that take many years

Serum Metabolomic Profiles for Distinguishing Lung Cancer From Pulmonary Tuberculosis: Identification of Rapid and Noninvasive Biomarker
03 Nov 2023
Siyu Chen and others The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Pages 1154–1165, https://doi.org/10.1093/infdis/jiad175 Untargeted and targeted metabolomic analysis was performed to describe the metabolomic profile of LC and PTB. A key biomarker, phenylalanylphenylalanine, was identified

Time Required for Nanopore Whole-Genome Sequencing of Neisseria gonorrhoeae for Identification of Phylogenetic Relationships
03 Nov 2023
Laura T Phillips and others The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Pages 1179–1188, https://doi.org/10.1093/infdis/jiad170 Early versions of nanopore technology demonstrate that very short sequencing times can accurately identify closely related Neisseria gonorrhoeae strains and key AMR markers, from cultured isolates, indicating promise as a real-time

Sociodemographic Variables Can Guide Prioritized Testing Strategies for Epidemic Control in Resource-Limited Contexts
03 Nov 2023
In empirical social networks from rural Madagascar, epidemic simulations show that targeted testing guided by sociodemographic characteristics controls epidemics as effectively as targeted testing guided by known social network.

Age Patterns of HSV-2 Incidence and Prevalence in Two Ugandan Communities: A Catalytic Incidence Model Applied to Population-Based Seroprevalence Data

Prevalence of HSV-2 is high in south-central Uganda, particularly among women, fishing communities, and people with HIV. HSV-2 acquisition peaks in late adolescence.

Hepatitis B e Antigen-Negative Single Hepatocyte Analysis Shows Transcriptional Silencing and Slow Decay of Infected Cells With Treatment

Characterization of HBV viral forms in single hepatocytes from HBeAg-negative chronic hepatitis B demonstrates that during nucleos(t)ide analogue treatment, (1) slow decay of infected hepatocytes requires >100 years of therapy to eradicate HBV.

Stability and Inactivation of Monkeypox Virus on Inanimate Surfaces

The spread of nonzoonotic monkeypox virus (MPXV) infections necessitates the reevaluation of hygiene measures.

Superior Boosting of Neutralizing Titers Against Omicron SARS-CoV-2 Variants by Heterologous SCB-2019 Vaccine vs a Homologous Booster in CoronaVac-Primed Adults

We compared heterologous boosting with SCB-2019 recombinant protein vaccine with homologous boosting in adults primed with 2–3 doses of CoronaVac vaccine.

HIV-Positive Liver Transplant Does not Alter the Latent Viral Reservoir in Recipients With Antiretroviral Therapy-Suppressed HIV

We evaluated whether receiving a liver transplant might lead to a change in the HIV latent viral reservoir (LVR). There were no differences in LVR between recipients with HIV who received a liver from a donor with or without HIV.

Genomic Heterogeneity of Cryptosporidium parvum Isolates From Children in Bangladesh: Implications for Parasite Biology and Human Infection

Genome sequencing reveals distinct patterns of genetic diversity among C. parvum isolates from children in Bangladesh, highlighting the complexity of Cryptosporidium infections and their potential impact on public health.
A genomic analysis of C. parvum isolated from Bangladeshi infants and reanalysis of sequences from the United Kingdom were performed.

The Human Blood Fluke, Schistosoma mansoni, Harbors Bacteria Throughout the Parasite’s Life Cycle

Quantitative PCR-Based Diagnosis and Follow-up of Chagas Disease Primary Infection After Solid Organ Transplant: A Multicentre Study

Cotreatment With Clofazimine and Rapamycin Eliminates Drug-Resistant Tuberculosis by Inducing Polyfunctional Central Memory T-Cell Responses

BK Polyomavirus Diversity After Hematopoietic Stem Cell Transplantation

Intrinsic and Effective Severity of Coronavirus Disease 2019 Cases Infected With the Ancestral Strain and Omicron BA.2 Variant in Hong Kong

T-Cell Immunity Against Severe Acute Respiratory Syndrome Coronavirus 2 Measured by an Interferon-γ Release Assay Is Strongly Associated With Patient Outcomes in Vaccinated Persons Hospitalized With Delta or Omicron Variants
SARS-CoV-2 measured by interferon-γ release assay (IGRA) was strongly associated with patient outcomes

Viral Resistance Analyses From the Remdesivir Phase 3 Adaptive COVID-19 Treatment Trial-1 (ACTT-1)

03 Nov 2023

Charlotte Hedskog and others The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Pages 1263–1273, https://doi.org/10.1093/infdis/jiad270 In participants with COVID-19 enrolled in a phase 3 clinical trial of remdesivir, similar rates of emergent amino acid substitutions were observed for remdesivir and placebo

Impact of Obefazimod on Viral Persistence, Inflammation, and Immune Activation in People With Human Immunodeficiency Virus on Suppressive Antiretroviral Therapy

03 Nov 2023

Silvia Bernal and others The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Pages 1280–1291, https://doi.org/10.1093/infdis/jiad251 This study evaluates the impact of obefazimod, a molecule that interferes with RNA biogenesis, on reducing chronic immune activation and inflammation in people with HIV on suppressive antiretroviral therapy as well as its potential role in

Correction to: Persistence of Immunogenicity of a Purified Inactivated Zika Virus Vaccine Candidate in Healthy Adults: 2 Years of Follow-up Compared With Natural Infection

03 Nov 2023

The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Page 1309, https://doi.org/10.1093/infdis/jiad375 Extract View article

Correction to: Evidence of Residual Ongoing Viral Replication in Chronic Hepatitis B Patients Successfully Treated With Nucleos(t)ide Analogues

03 Nov 2023

The Journal of Infectious Diseases, Volume 228, Issue 9, 1 November 2023, Page 1310, https://doi.org/10.1093/infdis/jiad376 Extract View article

Effects of 2 and 3 Vaccinations With the Bivalent Human Papillomavirus (HPV) Vaccine on the Prevalence and Load of HPV in Clearing and Persistent Infections in Young Women

02 Nov 2023

Kahren van Eer and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1012–1022, https://doi.org/10.1093/infdis/jiad080 Three doses of the bivalent human papillomavirus (HPV) vaccine targeting HPV-16/18 decreased the prevalence and viral load of vaccine types and several nonvaccine types in women

Global Type-Specific Genital Human Papillomavirus Prevalence in Men, by Sexual Orientation: A Systematic Review and Meta-Analysis

02 Nov 2023

Johannes M A Kusters and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1023–1032, https://doi.org/10.1093/infdis/jiad109 Genital HPV is common among men, with HPV-6 and HPV-16 being most common for the external genitals and urethra. No difference is observed for men who have sex with men and men who have sex with women

Impact of Imprinted Immunity Induced by mRNA Vaccination in an Experimental Animal Model
The emergence of SARS-CoV-2 Omicron XBB subvariants raises vaccine effectiveness concerns.

Rapid Antigen and Antibody Microfluidic Immunofluorescence Assays Compared to Culture, PCR, and Laboratory Reference Tests: Performance in a Longitudinal Cohort

Genetic Profiling of Plasmodium ovale wallikeri Relapses With Microsatellite Markers and Whole-Genome Sequencing

Using a novel set of 8 highly polymorphic microsatellite markers and whole-genome sequencing, we provide the first genetic evidence of relapses in Plasmodium ovale wallikeri.

Antibody to Plasmodium falciparum Variant Surface Antigens, var Gene Transcription, and ABO Blood Group in Children With Severe or Uncomplicated Malaria

In children from Papua New Guinea with severe or uncomplicated malaria, antibody recognition of homologous but not heterologous isolates was boosted in convalescence and showed variations with ABO blood group.

Natural Clearance of Chlamydia trachomatis Infection Is Associated With Distinct Differences in Cervicovaginal Metabolites

Comparing women who naturally cleared urogenital chlamydia or had persisting infection, differences in the cervicovaginal metabolome were identified.

The Type VI Secretion System Contributes to the Invasiveness of Liver Abscess Caused by Klebsiella pneumoniae

The type VI secretion system is an important virulence factor of liver abscess--associated Klebsiella pneumoniae and involved in the pathogenic process of invasive K pneumoniae liver abscess.

Genome-Wide Association Studies of Diarrhea Frequency and Duration in the First Year of Life in Bangladeshi Infants
Rebecca M Munday and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 979–989, https://doi.org/10.1093/infdis/jiad068 In comparisons of infants with no diarrhea to those with either extreme frequency or duration, infants carrying a specific genetic variant (rs2827548) in a noncoding RNA on chromosome 21 were nearly 70% less likely to have extreme 

**Association of Asthma Risk Alleles With Acute Respiratory Tract Infections and Wheezing Illnesses in Young Children**

02 Nov 2023

Ville Forsström and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 990–998, https://doi.org/10.1093/infdis/jiad075 Previously identified asthma risk alleles were associated with an increased rate of acute respiratory infections in early childhood

**Reduced Respiratory Syncytial Virus Load, Symptoms, and Infections: A Human Challenge Trial of MVA-BN-RSV Vaccine**

02 Nov 2023

Elke Jordan and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 999–1011, https://doi.org/10.1093/infdis/jiad108 In a randomized human challenge trial of a poxvirus-vectored vaccine encoding internal and external respiratory syncytial virus (RSV) proteins versus placebo, MVA-BN-RSV vaccination resulted in lower viral load and symptom scores, fewer confirmed

**Breakthrough SARS-CoV-2 Infections in the PROVENT Prevention Trial Were Not Associated With AZD7442 (Tixagevimab/Cilgavimab) Resistant Variants**

02 Nov 2023

Kevin M Tuffy and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1055–1059, https://doi.org/10.1093/infdis/jiad210 Symptomatic COVID-19 breakthrough cases in the PROVENT preexposure prophylaxis trial were not due to resistance-associated substitutions in AZD7442 (tixagevimab/cilgavimab) binding sites or lack of AZD7442 exposure

**Increased Peripheral Inflammation Is Associated With Structural Brain Changes and Reduced Blood Flow in People With Virologically Controlled HIV**

02 Nov 2023

Tricia H Burdo and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1071–1079, https://doi.org/10.1093/infdis/jiad229 Abstract View article Supplementary data

**Elevated Levels of Interleukin-1β and Interleukin-10 Are Associated With Faster Lung Function Decline in People With Well-Treated Human Immunodeficiency Virus**

02 Nov 2023

Rebekka F Thudium and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1080–1088, https://doi.org/10.1093/infdis/jiad233 Elevated IL-1β and IL-10 are independently associated with faster lung function decline in people with well-treated HIV, suggesting that dysregulated systemic inflammation may play a role in the pathogenesis of chronic lung diseases in

**Shigella Serotypes Associated With Carriage in Humans Establish Persistent Infection in Zebrafish**

02 Nov 2023
Vincenzo Torraca and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1108–1118, https://doi.org/10.1093/infdis/jiad326 Torraca et al use the zebrafish model to study Shigella persistent infection

Detection of Human Papillomavirus DNA, E6/E7 Messenger RNA, and p16INK4a in Lung Cancer: A Systematic Review and Meta-analysis
02 Nov 2023

Xiaoxuan Li and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1137–1145, https://doi.org/10.1093/infdis/jiad295 Human papillomavirus (HPV) DNA positivity of lung cancer varied significantly by pathological type and geographic region

The Joys of Research and Mentorship: Personal Observations Over Six Decades
02 Nov 2023

Martin S Hirsch The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 975–978, https://doi.org/10.1093/infdis/jiad139 Extract View article

Molnupiravir Use and 30-Day Hospitalizations or Death in a Previously Uninfected Nonhospitalized High-risk Population With COVID-19
02 Nov 2023

Adeel A Butt and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1033–1041, https://doi.org/10.1093/infdis/jiad195 In previously uninfected, nonhospitalized, high-risk persons with COVID-19, molnupiravir use is not associated with a significant reduction in hospitalization or death within 30 days of COVID-19 diagnosis

Seroprofiling of Antibodies Against Endemic Human Coronaviruses and Severe Acute Respiratory Syndrome Coronavirus 2 in a Human Immunodeficiency Virus Cohort in Lesotho: Correlates of Antibody Response and Seropositivity
02 Nov 2023

Jennifer A Brown and others The Journal of Infectious Diseases, Volume 228, Issue 8, 15 October 2023, Pages 1042–1054, https://doi.org/10.1093/infdis/jiad197 In a human immunodeficiency virus cohort in Lesotho, sex, age, and body weight were associated with serological responses to endemic human coronaviruses (HCoVs) and severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

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Journal of Medical Microbiology

MARGINAL NOTES, October 2023. It’s about the phenotype
02 Nov 2023

In vitro activity of tubercidin against Mycobacterium tuberculosis and nontuberculosis Mycobacteria
01 Nov 2023

Tubercidin is an adenosine analogue that has been shown to exhibit good activity against some tumours and parasites. In this study, the in vitro activity of tubercidin was evaluated against Mycobacterium tuberculosis (Mtb) and nontuberculosis Mycobacteria (NTM)
Evaluation of anti-biofilm effect of antimicrobial sonodynamic therapy-based periodontal ligament stem cell-derived exosome-loaded kojic acid on Enterococcus faecalis biofilm

01 Nov 2023

Introduction. Antimicrobial sonodynamic therapy (aSDT) is an approach that uses ultrasound waves (UWs) and a sonosensitizer to generate reactive oxygen species (ROS) to damage microbial cells in biofilms. Using nano-carriers, such as exosomes (Exos), to deliver the sonosensitizer can potentially enhance the effectiveness of aSDT.

Hypothesis/Gap Statement

Genomic analyses of Bacteroides fragilis: subdivisions I and II represent distinct species

01 Nov 2023

Introduction. Bacteroides fragilis is a Gram-negative anaerobe that is a member of the human gastrointestinal microbiota and is frequently found as an extra-intestinal opportunistic pathogen. B. fragilis comprises two distinct groups – divisions I and II – characterized by the presence/absence of genes [cepA and ccrA (cfiA), respectively] that confer resistance to β-lactam antibiotics by

Performance of targeted next-generation sequencing in the detection of respiratory pathogens and antimicrobial resistance genes for children

01 Nov 2023

Introduction. Respiratory tract infection, which is associated with high morbidity and mortality, occurs frequently in children. At present, the main diagnostic method is culture. However, the low pathogen detection rate of the culture approach prevents timely and accurate diagnosis

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Shan Wang, Chao Lv, Min Li, Li-Kuang Chen, Xiao-Kui Guo, Gang Li, Ying-Hua Xu, Yong-Zhang Zhu

Risk Factors and Mortality of SARS-CoV-2 Reinfection During the Omicron Era in Taiwan: a Nationwide Population-Based Cohort Study
03 Nov 2023
Publication date: Available online 3 November 2023Source: Journal of Microbiology, Immunology and InfectionAuthor(s): Yi-Hsuan Chen, Cheng-Yi Lee, Hao-Yuan Cheng, Chiu-Mei Chen, Yu-Neng Cheuh, Chia-Lin Lee, Hung-Wei Kuo

When a Neisseria meningitidis PCR limitation contributes to an immunological disease diagnosis
30 Oct 2023
Publication date: Available online 30 October 2023Source: Journal of Microbiology, Immunology and InfectionAuthor(s): Claire Duployez, Caroline Loïez, Frédéric Wallet, Laure Marceau, Myriam Simon, Ala-Eddine Deghmane, Muhamed-Kheir Taha, Anne Vachée

Journal of Virology Current Issue

Toward the understanding of DSG2 and CD46 interaction with HAdV-11 fiber, a super-complex analysis
03 Nov 2023
Journal of Virology, Ahead of Print.

The bipartite promoter of Orthonairovirus hazaraense large segment
02 Nov 2023
Journal of Virology, Ahead of Print.

Characterization of non-neutralizing human monoclonal antibodies that target the M1 and NP of influenza A viruses
02 Nov 2023
Journal of Virology, Ahead of Print.

Adenovirus E1B-55K controls SUMO-dependent degradation of antiviral cellular restriction factors
02 Nov 2023
Journal of Virology, Ahead of Print.

Clade 2.3.4.4 H5 chimeric cold-adapted attenuated influenza vaccines induced cross-reactive protection in mice and ferrets
02 Nov 2023
Journal of Virology, Ahead of Print.

Hypoxia and HIF-1α promote lytic de novo KSHV infection
01 Nov 2023
Journal of Virology, Ahead of Print.
miR-155 facilitates the synergistic replication between avian leukosis virus subgroup J and reticuloendotheliosis virus by targeting a dual pathway

01 Nov 2023
Journal of Virology, Ahead of Print.

Microbiota do not restrict rotavirus infection of colon

31 Oct 2023
Journal of Virology, Ahead of Print.

Identification of host dependency factors involved in SARS-CoV-2 replication organelle formation through proteomics and ultrastructural analysis

31 Oct 2023
Journal of Virology, Ahead of Print.

HIV-1 Tat commandeers nuclear export of Rev-viral RNA complex by controlling hnRNPA2-mediated splicing

31 Oct 2023
Journal of Virology, Ahead of Print.

Complete genome reconstruction of the global and European regional dispersal history of the lumpy skin disease virus

31 Oct 2023
Journal of Virology, Ahead of Print.

Vaccine-induced antibody Fc-effector functions in humans immunized with a combination Ad26.RSV.preF/RSV preF protein vaccine

30 Oct 2023
Journal of Virology, Ahead of Print.

African swine fever virus B175L inhibits the type I interferon pathway by targeting STING and 2′3′-cGAMP

30 Oct 2023
Journal of Virology, Ahead of Print.

Alphavirus-induced transcriptional and translational shutoffs play major roles in blocking the formation of stress granules

30 Oct 2023
Journal of Virology, Ahead of Print.

The expression and function of HSV ICP47 and its promoter in mice

30 Oct 2023
Journal of Virology, Ahead of Print.

Protein kinase Cdc7 supports viral replication by phosphorylating Avibirnavirus VP3 protein

30 Oct 2023
Journal of Virology, Ahead of Print.

3′UTR of ALV-J can affect viral replication through promoting transcription and mRNA nuclear export
30 Oct 2023
Journal of Virology, Ahead of Print.

Microbiology and Molecular Biology Reviews: Current Issue

Clearing the air: unraveling past and guiding future research in atmospheric chemosynthesis
01 Nov 2023
Microbiology and Molecular Biology Reviews, Ahead of Print.

Morbidity and Mortality Weekly Report (MMWR)

Tobacco Product Use Among U.S. Middle and High School Students - National Youth Tobacco Survey, 2023
02 Nov 2023
This report describes findings from the 2023 National Youth Tobacco Survey (NYTS) and compares those results to the 2022 NYTS.

Erratum: Vol. 72, No. 42
02 Nov 2023
Erratum for MMWR Vol 72, No. 42

02 Nov 2023
This report describes tuberculosis-related practices among health care providers in the United States.

Vaccination Coverage by Age 24 Months Among Children Born in 2019 and 2020 - National Immunization Survey-Child, United States, 2020-2022
02 Nov 2023
This report describes vaccination coverage and disparities in coverage by age 24 months among children born in 2019 and 2020.

QuickStats: Percentage of Adults Who Used the Internet in the Past 12 Months to Communicate with a Doctor or Doctor's Office, by Urbanization Level - National Health Interview Survey, United States, July-December 2022
02 Nov 2023
This report describes the percentage of adults who used the internet in the past 12 months to communicate with a doctor or doctor's office.

RECOMMENDATIONS AND REPORTS: CDC Recommendations for Hepatitis C Testing Among Perinatally Exposed Infants and Children - United States, 2023

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31 Oct 2023

CDC reports on CDC recommendations for hepatitis C testing among perinatally exposed infants and children in the United States in 2023.

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New England Journal of Medicine - Current Issue

Association of SARS-CoV-2 Infection during Early Weeks of Gestation with Situs Inversus

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Monoclonal antibodies for the prevention of Plasmodium falciparum malaria: a multi-target approach?

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Clinical outcomes and immunological features of COVID-19 patients receiving B-cell depletion therapy during the Omicron era

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Sexually Transmitted Infection Online First

Treatment failure in scabies: a single-centre 5-year retrospective review

02 Nov 2023

In 2017, the WHO formally designated scabies a neglected tropical disease. The prevalence of scabies is estimated to be >200 million cases worldwide. A UK study using data from the Health Information Network estimated the prevalence of scabies to be 2.27–2.81 per 1000

Implementation preferences for the management of sexually transmitted infections in the South African health system: a discrete choice experiment

02 Nov 2023

Objectives Despite strengthening HIV prevention with the introduction of pre-exposure prophylaxis (PrEP), STI services have remained relatively unchanged and the standard of
We used a discrete choice experiment to investigate service users’ preferences for the diagnosis and treatment of STIs in South Africa.

National Institute for Health and Clinical Excellence (NICE) news

NICE launches first modular update to its methods and processes

30 Oct 2023

The first modular update to NICE’s health technology evaluations manual is now live. This update follows a consultation held earlier on two changes to its manual: Incorporating NICE’s proportionate approach to technology appraisals into the manual. A revised approach to updating technology appraisal recommendations for COVID-19 medicines.

UKHSA affiliated authors

Understanding the leading indicators of hospital admissions from COVID-19 across successive waves in the UK

04 Nov 2023

Author Names: Mellor J., Overton C.E., Fyles M., Chawner L., Baxter J., Baird T., Ward T.
Database Source: Embase Weekly Updates
Journal Title: Epidemiology and Infection
Article Title: Understanding the leading indicators of hospital admissions from COVID-19 across successive waves in the UK
Year: 2023
Issue: Volume: 151
Abstract: Following the end of Meningococcal disease in the Middle East: A report from the Global Meningococcal Initiative

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Surveillance of Mpox Cases Attending Sexual Health Services in England (SOMASS): design, implementation and initial findings from the SOMASS data collection tool, 2022

04 Nov 2023
Reporting England's progress towards the ambitions in the UK action plan for antimicrobial resistance: the English surveillance programme for antimicrobial utilisation and resistance (ESPAUR)
04 Nov 2023

Paediatric acute hepatitis of unknown aetiology: a national investigation and adenoviraemia case-control study in the UK
04 Nov 2023

Whole-genome sequencing reveals widespread presence of Staphylococcus capitis NRCS-A clone in neonatal units across the United Kingdom
04 Nov 2023

Effectiveness of the adjuvanted Sanofi/GSK (VidPrevtyn Beta) and Pfizer-BioNTech (Comirnaty Original/Omicron BA.4-5) bivalent vaccines against hospitalisation amongst adults aged 75 years and older in England, estimated using a test-negative case control study design
04 Nov 2023

Understanding adherence to self-isolation in the first phase of the COVID-19 pandemic in England: a cross-sectional mixed-methods study
04 Nov 2023
BMC public health Article Title: Understanding adherence to self-isolation in the first phase of the COVID-19 pandemic in England: a cross-sectional

Recovery of Complete Genome Sequences of Crimean-Congo Haemorrhagic Fever Virus (CCHFV) Directly from Clinical Samples: A Comparative Study Between Targeted Enrichment and Metagenomic Approaches

04 Nov 2023


Adverse health outcomes among people who inject drugs who engaged in recent sex work: findings from a national survey

04 Nov 2023


Haemolytic uraemic syndrome in children England, Wales, Northern Ireland, and Ireland: A prospective cohort study

04 Nov 2023


National public health response to an outbreak of toxigenic Corynebacterium diphtheriae among asylum seekers in England, 2022: a descriptive epidemiological study

04 Nov 2023


Comparison of surveillance systems for monitoring COVID-19 in England: a retrospective observational study

04 Nov 2023


How demographic factors matter for antimicrobial resistance - quantification of the patterns and impact of variation in prevalence of resistance by age and sex
04 Nov 2023
Author Names: Waterlow N.R., Cooper B.S., Robotham J.V., Knight G.M. Database Source: Embase Preprint Journal Title: medRxiv, ENG Article Title: How demographic factors matter for antimicrobial resistance - quantification of the patterns and impact of variation in prevalence of resistance by age and sex Year: 2023 Issue: Volume: Abstract: Background Antibiotic usage, contact with high 

Comparison of metagenomic and targeted methods for sequencing human pathogenic viruses from wastewater

04 Nov 2023

Adjusting expected deaths for mortality displacement during the COVID-19 pandemic: a model based counterfactual approach at the level of individuals

04 Nov 2023

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Author Names: Williams O.M., Hamilton F., Brindle R. Database Source: Embase Weekly Updates Journal Title: Open Forum Infectious Diseases Article Title: The Natural History of Antibiotic-Treated Lower Limb Cellulitis: Analysis of Data Extracted From a Multicenter Clinical Trial Year: 2023 Issue: 10 Volume: 10 Abstract: Background: Although cellulitis is a relatively common skin

04 Nov 2023
Author Names: Cadar D. Database Source: Embase Daily Updates Journal Title: The Lancet Healthy Longevity Article Title: The impact of the COVID-19 pandemic on cognitive decline Year: 2023 Issue: 11 Volume: 4 Abstract:

Ethnobotanical Investigation of Plants Used for Respiratory Tract Infections in Pirot District (Southeastern Serbia)

04 Nov 2023
Author Names: Markovic M.S., Pljevljakusic D.S., Matejic J.S., Rakonjac L.B., Nikolic B.M., Djokic M.M., Stankov Jovanovic V.P. Database Source: Embase Weekly Updates Journal Title: Journal of Herbal Medicine, Journal of Herbal Medicine Article Title: Ethnobotanical Investigation of Plants Used for Respiratory Tract Infections in Pirot District (Southeastern Serbia) Year: 2023 Issue:

Parent-reported child's close contact with non-household family members and their well-being during the COVID-19 pandemic: A cross-sectional survey
A molnupiravir-associated mutational signature in global SARS-CoV-2 genomes

Adapting COVID-19 research infrastructure to capture Influenza and Respiratory Syncytial Virus alongside SARS-CoV-2 in UK healthcare workers Winter 2022/23 and beyond: protocol for a pragmatic sub-study

Spore-FP1 tuberculosis mucosal vaccine candidate is highly protective in guinea pigs but fails to improve on BCG-conferred protection in non-human primates

Antibody correlates of protection against Delta infection after vaccination: A nested case-control within the UK-based SIREN study

Vaccine effectiveness against hospitalisation estimated using a test-negative case-control study design, and comparative odds of hospital admission and severe outcomes with COVID-19 sub-lineages BQ.1, CH.1.1. and XBB.1.5 in England
Evaluating the impact on health outcomes of an event that resulted in a delay in contact tracing of COVID-19 cases in England, September 2020: an observational study

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Duration of protection of ancestral-strain monovalent vaccines and effectiveness of bivalent BA.1 boosters against COVID-19 hospitalisation in England: a test-negative case-control study

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IV BCG Vaccination and Aerosol BCG Revaccination Induce Mycobacteria-Responsive gammadelta T Cells Associated with Protective Efficacy against M. tb Challenge

04 Nov 2023

Author Names: Morrison A.L., Sarfas C., Sibley L., Williams J., Mabbutt A., Dennis M.J., Lawrence S., White A.D., Bodman-Smith M., Sharpe S.A.

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Barriers and facilitators for surgical site infection surveillance for adult cardiac surgery in a high-income setting: an in-depth exploration

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Retrospective evaluation of real-time estimates of global COVID-19 transmission trends and mortality forecasts

04 Nov 2023


Factors associated with COVID-19 vaccine uptake in adolescents: A national cross-sectional study, August 2021-January 2022, England

04 Nov 2023


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19 vaccine uptake in adolescents: A national cross-sectional study, August 2021-January 2022, England

English headteacher perspectives on school responses to protect student and staff mental wellbeing in the later stages of the COVID-19 pandemic

04 Nov 2023


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Journal Title: Health Education Journal

Article Title: English headteacher perspectives on school responses to protect student and staff mental wellbeing in the later stages of the COVID-19 pandemic

ZnO tetrapod morphology influence on UV sensing properties

04 Nov 2023

Author Names: Ilickas M., Mardosaite R., Cesano F., Cravanzola S., Barolo C., Scarano D., Viscardi G., Rackauskas S.

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Mapping the human genetic architecture of COVID-19

04 Nov 2023


Clinical Features, Immunological Characteristics, and Treatment Outcomes of Campylobacter spp. Infections in Patients With Common Variable Immunodeficiency

04 Nov 2023


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Journal Title: Journal of Allergy and Clinical Immunology: In Practice

Article Title: Clinical Features, Immunological Characteristics, and Treatment Outcomes of Campylobacter spp

Representativeness of whole-genome sequencing approaches in England: the importance for understanding inequalities associated with SARS-CoV-2 infection

04 Nov 2023


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Journal Title: Epidemiology and Infection

Article Title: Representativeness of whole-genome sequencing approaches in England: the

Evaluation of a rapid diagnostic test for measles IgM detection; Accuracy and the reliability of visual reading using sera from the measles surveillance programme in Brazil, 2015

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Comparative pathology of experimental pulmonary tuberculosis in animal models

04 Nov 2023

Author Names: Hunter L., Ruedas-Torres I., Agullo-Ros I., Rayner E., Salguero F.J. Database Source: Embase Weekly Updates Journal Title: Frontiers in Veterinary Science Article Title: Comparative pathology of experimental pulmonary tuberculosis in animal models Year: 2023 Issue: Volume: 10 Abstract: Research in human tuberculosis (TB) is limited by the availability of human tissues

National point-prevalence survey of healthcare-associated infections and antimicrobial use: UK-PAS/UKHSA joint call to action for all paediatric services

04 Nov 2023


Report of the Assay Guidance Workshop on 3-Dimensional Tissue Models for Antiviral Drug Development

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Increased reports of severe myocarditis associated with enterovirus infection in neonates, United Kingdom, 27 June 2022 to 26 April 2023

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Appropriateness of acute care antibiotic prescriptions for community-acquired infections and surgical antibiotic prophylaxis in England: Analysis of 2016 national point-prevalence survey data

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Measuring and increasing rates of self-isolation in the context of infectious diseases: A systematic review with narrative synthesis
Measuring and increasing rates of self-isolation in the context of infectious diseases: A systematic review with narrative synthesis

A Natural History of Disease Framework for Improving the Prevention, Management, and Research on Post-viral Fatigue Syndrome and Other Forms of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.

Drivers determining tuberculosis disease screening yield in four European screening programmes: a comparative analysis.

Plants of Genus Mentha: From Farm to Food Factory.

The burden and dynamics of hospital-acquired SARS-CoV-2 in England.

APOBEC3 deaminase editing in mpxov virus as evidence for sustained human transmission since at least 2016.
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Article Title: Global impact and cost-effectiveness of one-dose versus two-dose human papillomavirus vaccination schedules: a comparative modelling analysis

Metabarcoding of Hepatitis E Virus Genotype 3 and Norovirus GII from Wastewater Samples in England Using Nanopore Sequencing.
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Use of expanded Neisseria meningitidis serogroup B panels with the serum bactericidal antibody assay for the evaluation of meningococcal B vaccine effectiveness.
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Article Title: Use of expanded <ovid:i>Neisseria meningitidis</ovid:i> serogroup B panels with the serum bactericidal antibody assay for the evaluation of meningococcal B vaccine effectiveness

Ultrasensitive PCR system for HBV DNA detection: Risk stratification for occult hepatitis B virus infection in English blood donors.
03 Nov 2023
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Journal Title: Journal of Medical Virology
Article Title: Ultrasensitive PCR system for HBV DNA detection: Risk stratification for occult hepatitis B virus infection in

The impact of over ten years of HPV vaccination in England: Surveillance of type-specific HPV in young sexually active females.
02 Nov 2023
Author Names: Checchi M, Mesher D, Panwar K, Anderson A, Beddows S, Soldan K
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Vaccine Article Title: The impact of over ten years of HPV vaccination in England: Surveillance of type-specific HPV in young sexually active females

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Author Names: Rabee M, Elmogy SA, Morsy M, Lawandy S, Zahran MAH, Moustafa H

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Characterisation and development of histopathological lesions in a guinea pig model of Mycobacterium tuberculosis infection.

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Shigella Serotypes Associated With Carriage in Humans Establish Persistent Infection in Zebrafish.

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Author Names: Chaverri P, Romberg MK, Montero-Vargas M, McKemy JM, Rane KK, Balbalian CJ, Castlebury LA

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Journal Title: Plant Disease

Article Title: Phylogeographic and Phylogenomic Structure of the Quarantine Plant Pathogen Colletotrichum liripes, Including New Reports in the United States

STI testing, diagnoses and online chlamydia self-sampling among young people during the first year of the COVID-19 pandemic in England.

02 Nov 2023
Investigating rates and risk factors for hepatitis C virus reinfection in people receiving antiviral treatment in England.

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Retrospective evaluation of real-time estimates of global COVID-19 transmission trends and mortality forecasts.

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The first few cases of monkeypox infection in non-endemic countries: Correspondence.

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Guillain-Barre Syndrome Followed by Covid-19 Infection, Vaccination and Other Precipitating Factors during the Pandemic.

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Spore-FP1 tuberculosis mucosal vaccine candidate is highly protective in guinea pigs but fails to improve on BCG-conferred protection in non-human primates.

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Surveillance of Mpox Cases Attending Sexual Health Services in England (SOMASS): design, implementation and initial findings from the SOMASS data collection tool, 2022.

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Nosocomial acquisition of influenza is associated with significant morbidity and mortality: Results of a prospective observational study.

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Parent-reported child's close contact with non-household family members and their well-being during the COVID-19 pandemic: A cross-sectional survey.

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A standardised protocol for relative SARS-CoV-2 variant severity assessment, applied to Omicron BA.1 and Delta in six European countries, October 2021 to February 2022.

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Paediatric acute hepatitis of unknown aetiology: a national investigation and adenoviraemia case-control study in the UK.

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Comparative pathology of experimental pulmonary tuberculosis in animal models.
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Duration of protection of ancestral-strain monovalent vaccines and effectiveness of bivalent BA.1 boosters against COVID-19 hospitalisation in England: a test-negative case-control study.
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Author Names: Kirsebom FCM,Andrews N,Stowe J,Ramsay M,Lopez Bernal J Database Source: Ovid MEDLINE(R) Daily Update <October 31, 2023> Journal Title: The Lancet Infectious Diseases Article Title: Duration of protection of ancestral-strain monovalent vaccines and effectiveness of bivalent BA.1 boosters against COVID-19 hospitalisation in England: a test-negative case-control study

Understanding the leading indicators of hospital admissions from COVID-19 across successive waves in the UK.
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Author Names: Mellor J,Overton CE,Fyles M,Chawner L,Baxter J,Baird T,Ward T Database Source: Ovid MEDLINE(R) Daily Update <October 30, 2023> Journal Title: Epidemiology & Infection Article Title: Understanding the leading indicators of hospital admissions from COVID-19 across successive waves in the UK

IV BCG Vaccination and Aerosol BCG Revaccination Induce Mycobacteria-Responsive gammadelta T Cells Associated with Protective Efficacy against M. tb Challenge.
31 Oct 2023

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Author Names: Brainard J,Lake IR,Morbey RA,Jones NR,Elliot AJ,Hunter PR Database Source: Ovid MEDLINE(R) Daily Update <October 30, 2023> Journal Title: The lancet. Public Health Article Title: Comparison of surveillance systems for monitoring COVID-19 in England: a retrospective observational study

Representativeness of whole-genome sequencing approaches in England: the importance for understanding inequalities associated with SARS-CoV-2 infection.
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