
Infection Current Awareness Update – 01/08/2022

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.

Please note: UKHSA 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](#).

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. For further information on Athens accounts please visit [here](#). If you are not eligible to access our library services, then you may want to approach your [local NHS library service](#).

We do not accept responsibility for the availability or reliability of the items of content included in this alert and their inclusion is not an endorsement of any views that may be expressed.

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COVID-19 related research

COVID-19 infection

[Update Alert 8: Masks for Prevention of Respiratory Virus Infections, Including SARS-CoV-2, in Health Care and Community Settings](#)

25 Jul 2022

Annals of Internal Medicine, Ahead of Print.

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Infection-related guidance

European Centre for Disease Prevention and Control

[Hepatitis B - Annual Epidemiological Report for 2020](#)

28 Jul 2022

For 2020, 29 EU/EEA Member States reported 14 428 cases of hepatitis B virus (HBV) infection.

Excluding the five countries that only reported acute cases, the number of cases (14 137)

corresponds to a crude rate of 4.2 cases per 100 000 population.

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Infectious Diseases Society of America

RT [@CarlosdelRio7](#): [.@CDCDirector](#) has issued this "Dear Colleague" letter to clinicians who may encounter patients with #MonkeyPox to remind them that pain is emerging as a major issue with this infection, and to provide some basic tools for managing it.<https://t.co/5JJgtQnFZu> [@IDSAInfo](#) [@HIVMA](#)

28 Jul 2022

RT [@CarlosdelRio7](#): [.@CDCDirector](#) has issued this "Dear Colleague" letter to clinicians who may encounter patients with #MonkeyPox to remind them that pain is emerging as a major issue with this infection, and to provide some basic tools for managing

it.<https://www.idsociety.org/globalassets/hivma/dear-colleague---monkeypox.pdf> [@IDSAInfo](#)

[@HIVMA](#)

RT [@OFIDJournal](#): [Health Care Workers' Sick Leave due to COVID-19 Vaccination in Context With SARS-CoV-2 Infection and Quarantine—A Multicenter Cross-Sectional Survey Open Access](#) <https://t.co/kp8m3TAGao>
<https://t.co/jN17CFnY33>

25 Jul 2022

RT [@OFIDJournal](#): [Health Care Workers' Sick Leave due to COVID-19 Vaccination in Context With SARS-CoV-2 Infection and Quarantine—A Multicenter Cross-Sectional Survey Open Access](#)

<https://bit.ly/3ojlKs7>

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Infection-related journals

Impact of vaccination and the omicron variant on COVID-19 severity in pregnant women

31 Jul 2022

Since the emergence of coronavirus disease 2019 (COVID-19) in February 2020, the number of pregnant women infected with the virus and delivering by cesarean section has been steadily increasing in South Korea

Determinants of nurse's and personal support worker's adherence to facial protective equipment in a community setting during the COVID-19 pandemic in Ontario, Canada: A pilot study

30 Jul 2022

Appropriate and consistent facial protective equipment (FPE) use is critical for preventing respiratory illness transmission. Little is known about FPE adherence by home care providers. The purpose of this study is to adapt an existing facial protection questionnaire and use it to develop an initial understanding of factors influencing home care providers' adherence to FPE during the COVID-19

Detection of SARS-CoV-2 in exhaled air using non-invasive embedded strips in masks

28 Jul 2022

SARS-CoV-2 emerged in 2019 and has since spread worldwide, resulting in millions of infections and deaths. Early in the pandemic, diagnostic testing was extremely limited, and only available for those with symptoms as it was predicted that one had to be symptomatic to be infected

Of masks and methylene blue—The use of methylene blue photochemical treatment to decontaminate surgical masks contaminated with a tenacious small nonenveloped norovirus

28 Jul 2022

In the context of the ongoing severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) pandemic, the supply of personal protective equipment (PPE) remains under strain. Re-use of typically single-use only face coverings such as surgical face masks (SMs) and filtering facepiece respirators (FFRs) has been recommended

Methylene blue in combination with sunlight as a low cost and effective disinfection method for coronavirus-contaminated PPE

28 Jul 2022

COVID-19 has not only highlighted the unpreparedness of the world to handle a global pandemic, but it has also unmasked the inequity of resources available.¹⁻³ A major issue from the beginning of the pandemic has been the availability of personal protective equipment (PPE), including surgical masks and respirators,¹⁻³ which still remains problematic in the same areas of the world where vaccines

The use of drones for the delivery of diagnostic test kits and medical supplies to remote First Nations communities during Covid-19

28 Jul 2022

The COVID-19 pandemic has highlighted multiple gaps in health care systems across the globe. Supply chain issues have caused global shortages of essential supplies, such as personal protective equipment (PPE) and testing supplies.¹ Timely access to COVID-19 testing and vaccination have likewise defined communities' ability to prevent, detect, and respond to the pandemic's spread

Methylene blue applied to N95 respirators and medical masks for SARS-CoV-2 decontamination: What is the likelihood of inhaling methylene blue?

28 Jul 2022

By 2020, the coronavirus disease 2019 (COVID-19) pandemic created a global shortage of personal protective equipment (PPE) including N95 respirators and medical masks (MMs). What were once authorized for single use, the masks were now being recommended for reuse based on the World Health Organization (WHO) Rational Use of PPE guidelines and various national regulatory and health agencies

Inactivation strategies for SARS-CoV-2 on surgical masks using light-activated chemical dyes

28 Jul 2022

The rapid spread of the coronavirus disease 2019 (COVID-19) pandemic caused by the severe acute respiratory coronavirus virus 2 (SARS-CoV-2) has occurred at such a swift pace that it has crippled worldwide supply chains and has most critically resulted in acute shortages of personal protective equipment (PPE) for healthcare personnel (HCP) and the general public

APIC Masthead

28 Jul 2022

Information for Authors

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Information for Readers

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Considering context: Adaptive elements of a simulation program to improve primary care safety during the COVID-19 pandemic in Alberta, Canada

28 Jul 2022

Worldwide, primary care (PC) clinicians and the care they deliver have proved to be critical in health system responses to the COVID-19 pandemic.^{1,2} Specifically, PC clinicians have brought their expertise and trusting relationships with patients to the community management of: respiratory diseases³; “long COVID” sequelae⁴; and vaccination counselling and delivery

A mixed methods study on effectiveness and appropriateness of face shield use as COVID-19 PPE in middle income countries

28 Jul 2022

Face shields (sometimes called visors) were used extensively during the COVID-19 pandemic, either in conjunction with a face mask or other face covering, or increasingly as an alternative to such face protection

Personal protective equipment implementation in healthcare: A scoping review

28 Jul 2022

Health care-associated infections (HCAIs) continue to cause morbidity and mortality in most countries,¹ despite increases in control.² In low- and middle-income countries (LMICs) HCAI may be 20-fold higher than in high-income countries.^{3,4} The current situation has raised awareness about the need for preventive measures for patients and health workers (HWs).^{5–7}

Exploring inactivation of SARS-CoV-2, MERS-CoV, Ebola, Lassa, and Nipah viruses on N95 and KN95 respirator material using photoactivated methylene blue to enable reuse

28 Jul 2022

The coronavirus disease 2019 (COVID-19) pandemic has placed a major burden on health care systems around the world. One major challenge that exacerbated this health crisis was scarcity of personal protective equipment (PPE), including N95 respirators

Wearing a white coat in theory class during medical school, is it justified? reply to development and validation of the knowledge, attitude and practice questionnaire (LAUNDERKAP) regarding white coat use among medical students during clinical practice

28 Jul 2022

Recently we have gone through an article regarding the use of white lab coats during the clinical practice class. The author developed the knowledge, attitude, and practice (KAP) questionnaire and distributed it to the medical students of Malaysia.¹ That was a good article and a good study in view of infection control

Personal protective equipment research and innovation in the context of the World Health Organization COVID-19 R&D Blueprint program

28 Jul 2022

In February 2020, in response to the coronavirus disease 2019 (COVID-19) pandemic, the World Health Organization (WHO) organized a Global Forum on Research and Innovation for COVID-19 (ie, Global Research Forum), which highlighted the importance of fostering research and innovation in

the area of infection prevention and control (IPC), including rational and appropriate use of well-designed

Quantification of diurnal variation in “glove hygiene” compliance in COVID ICUs: an exploratory study

28 Jul 2022

Hand hygiene (HH) is recognized as one of the main evaluation points for improvement by ‘WHO Clean Care is safer Care’¹. HH compliance (HHC) monitoring is often done in the daytime due to logistic reasons. HHC decreases during evening and night shifts²⁻⁴; however, documentation of the same and the extent of variation are scarce

Influenza Vaccination for Hospital Employees: A 3-year Success-Story of a Flu-Pod Drive-Thru at a Veterans Affairs Medical Center

28 Jul 2022

Annual influenza vaccination is recommended for all health-care personnel by the Healthcare Infection Control Practices Advisory Committee and Advisory Committee on Immunization Practices.¹ Several barriers to vaccination have been previously identified. In a recent meta-analysis of surveys in healthcare workers, “lack of time” among other etiologies was blamed by 33% of responders².

Carbapenem-Resistant enterobacteriales in individuals with and without health care risk factors —Emerging infections program, United States, 2012-2015

27 Jul 2022

Carbapenem-resistant Enterobacteriales (CRE) are typically associated with health care settings and are the focus of targeted infection-control interventions because of CRE's capacity to cause difficult-to-treat infections and to spread rapidly

Assessment of best-selling respirators and masks: Do we have acceptable respiratory protection for the next pandemic?

25 Jul 2022

Public health was jeopardized when SARS-CoV-2 spread through the United States (U.S.) because inefficient respiratory protection masks were used as respirators¹. Healthcare professionals depend on respirators to treat patients without risking disease transmission

Investigating Particulate Production in The Operating Suite Following the Use of Waterless Alcohol Based Dry Scrub Versus Traditional Hand Washing and Drying with Commonly Used Surgical Towels: An Experimental Study.

24 Jul 2022

Surgical Site Infections (SSIs) are a significant issue that persists throughout operating suites worldwide. Despite global medical advancements, SSIs still cause substantial morbidity along with a significant cost burden in the United States that is estimated to be upwards of \$10 billion annually¹. The incidence of SSIs in surgical procedures is estimated to be 1

Nosocomial COVID-19 at a comprehensive cancer center during the first year of the pandemic: lessons learned

24 Jul 2022

The spread of coronavirus disease 2019 (COVID-19) in health care settings endangers patients with cancer. As knowledge of the transmission of COVID-19 emerged, strategies for preventing nosocomial COVID-19 were updated. We describe our early experience with nosocomial respiratory viral infections (RVIs) at a cancer center in the first year of the pandemic (March 2020-March 2021).

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Clinical Infectious Diseases - Advance Access

Antimicrobial Prescribing in the Telehealth Setting: Framework for stewardship during a period of rapid acceleration within primary care

30 Jul 2022

Empiric versus pre-emptive antifungal strategy in high-risk neutropenic patients on fluconazole prophylaxis: a randomized trial of the European organization for Research and Treatment of cancer (EORTC 65091)

30 Jul 2022

Tenofovir Disoproxil Fumarate/Emtricitabine and Baricitinib for Patients at High Risk of Severe COVID-19: The PANCOVID Randomized Clinical Trial

30 Jul 2022

Stool interleukin-1 β differentiates Clostridioides difficile infection from asymptomatic carriage and non-C.difficile infection diarrhea

30 Jul 2022

A Papuloulcerative Rash in an Immunocompetent Child

29 Jul 2022

Association between AZD7442 (tixagevimab-cilgavimab) administration and SARS-CoV-2 infection, hospitalization and mortality

29 Jul 2022

Antivirals with Activity Against Monkeypox: A Clinically Oriented Review

29 Jul 2022

High human T cell leukaemia virus type 1c proviral loads are associated with diabetes and chronic kidney disease: results of a cross-sectional community survey in central Australia

29 Jul 2022

Menopausal hormone therapy and subclinical cardiovascular disease in women with and without HIV

29 Jul 2022

Metabolic-related outcomes after switching from tenofovir disoproxil fumarate to tenofovir alafenamide in adults with HIV: a multicenter prospective cohort study.

29 Jul 2022

Pneumonia, meningitis, and septicaemia in adults and older children in rural Gambia: eight years of population-based surveillance

29 Jul 2022

Efficacy of Doxycycline for Mild-to-moderate Community-acquired Pneumonia in Adults: A Systematic Review and Meta-analysis of Randomized Controlled Trials

29 Jul 2022

Hepatitis C virus infection preceding an outbreak of HIV among persons who inject drugs— Kanawha County, West Virginia, 2019–2021

29 Jul 2022

Longitudinal Immune Response to Three Doses of mRNA Vaccine Against COVID-19 in Pediatric Patients Receiving Chemotherapy for Cancer

28 Jul 2022

STATIN USE MAY BE ASSOCIATED WITH A LOWER RISK OF INVASIVE ASPERGILLOSIS IN LUNG TRANSPLANT RECIPIENTS

28 Jul 2022

Transfusion-Transmitted Cache Valley Virus Infection in a Kidney Transplant Recipient with Meningoencephalitis

27 Jul 2022

Ultrashort course antibiotics for suspected pneumonia with preserved oxygenation

27 Jul 2022

Pharyngeal Chlamydia trachomatis in Men Who Have Sex With Men in an HIV Pre-Exposure Prophylaxis Program in Hanoi, Vietnam

27 Jul 2022

Pharmacokinetics of ribavirin in the treatment of Lassa fever: An observational clinical study at the Irrua Specialist Teaching Hospital, Edo State, Nigeria

26 Jul 2022

Risk factors for Nontuberculous Mycobacteria Infections in Solid Organ Transplant recipients: a multinational case-control study

26 Jul 2022

Antibiotic treatment duration for community-acquired pneumonia in children in high-income countries – GRADE issues

25 Jul 2022

Reply to Li, et al.

25 Jul 2022

The Timeliness of Point of Care Viral Load Results Improves HIV Monitoring in Nigeria

24 Jul 2022

Retrospective multicentric study comparing infectious and non-infectious aortitis

06 Jul 2022

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Current Opinion in Virology

Viral–host interactions during splicing and nuclear export of influenza virus mRNAs

29 Jul 2022

Publication date: August 2022 Source: Current Opinion in Virology, Volume 55 Author(s): Matthew Esparza, Prasanna Bhat, Beatriz MA Fontoura

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Diagnostic Microbiology and Infectious Disease

Evaluation of the Boson Rapid Ag Test vs RT–PCR for use as a self–testing platform

31 Jul 2022

Publication date: Available online 29 July 2022 Source: Diagnostic Microbiology and Infectious Disease Author(s): Michail Leventopoulos, Vassiliki Michou, Miltiadis Papadimitropoulos, Evangelia Vourva, Nikolaos George Manias, Harilaos Panagiotis Kavvadas, Dimitris Nikolopoulos, Vassilis Tsilivakos, Georgios Georgoulas

Analysis of the FAST™ System for expedited identification and antimicrobial susceptibility testing of bloodborne pathogens

31 Jul 2022

Publication date: Available online 30 July 2022 Source: Diagnostic Microbiology and Infectious Disease Author(s): Peiting Kuo, Khriisa LeCrone, Megan Chiu, Susan Realegeno, David T. Pride

Pathogens susceptible to tetracycline are also susceptible to omadacycline: Tetracycline as a one-sided surrogate to predict omadacycline susceptible pathogens

28 Jul 2022

Publication date: Available online 28 July 2022 Source: Diagnostic Microbiology and Infectious Disease Author(s): Alisa W. Serio, Tiffany R. Keepers, Kelly Wright, Diane Anastasiou

Different virulence genetic context of multidrug-resistant CTX-M- and KPC-producing *Klebsiella pneumoniae* isolated from cerebrospinal fluid

28 Jul 2022

Publication date: Available online 28 July 2022 Source: Diagnostic Microbiology and Infectious Disease Author(s): Anelise Stella Ballaben, Renata Galetti, Joseane Cristina Ferreira, Mario Henrique Paziani, Marcia Regina von Zeska Kress, Doroti de Oliveira Garcia, Paulo da Silva, Yohei Doi, Ana Lucia Costa Darini, Leonardo Neves Andrade

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Emerging Infectious Diseases Journal - ahead of print

Rapid Adaptation of Established High-Throughput Molecular Testing Infrastructure for Monkeypox Virus Detection

29 Jul 2022

D. Nörz et al.

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European Journal of Clinical Microbiology & Infectious Diseases

Real-world effectiveness of casirivimab plus indevimab in a dedicated ambulatory unit created for patients with early COVID-19 during a massive delta variant wave

27 Jul 2022

Abstract Only limited real-life data are available on the effects of neutralizing monoclonal antibodies in high-risk patients who have early COVID-19 and do not require supplemental oxygen. We prospectively studied 217 patients infected by the delta variant who received casirivimab plus indevimab in a dedicated ambulatory unit created during our 4th COVID wave

Transition between Mycobacterium tuberculosis and nontuberculous mycobacteria in recurrent “tuberculosis” patients

26 Jul 2022

Abstract Recurrence of tuberculosis (TB) is still a key issue in the control of tuberculosis. The presence of nontuberculous mycobacteria (NTM) complicates the diagnosis of recurrent TB due to similarity in clinical presentation. Herein, we have used molecular genotyping methods to identify mycobacteria species, and analyzed the characteristics of patients with transition between MTB and NTM

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Eurosurveillance latest updates

High antimicrobial resistance in urinary tract infections in male outpatients in routine laboratory data, Germany, 2015 to 2020

28 Jul 2022

Background Evidence on the distribution of bacteria and therapy recommendations in male outpatients with urinary tract infections (UTI) remains insufficient. Aim We aimed to report frequency distributions and antimicrobial resistance (AMR) of bacteria causing UTI in men and to identify risk factors for resistance of Escherichia coli against trimethoprim (TMP) and ciprofloxacin (CIP)

Estimation of COVID-19 vaccine effectiveness against hospitalisation in individuals aged ≥ 65 years using electronic health registries; a pilot study in four EU/EEA countries, October 2021 to March 2022

28 Jul 2022

By employing a common protocol and data from electronic health registries in Denmark, Navarre (Spain), Norway and Portugal, we estimated vaccine effectiveness (VE) against hospitalisation due to COVID-19 in individuals aged ≥ 65 years old, without previous documented infection, between October 2021 and March 2022

COVID-19 vaccination and BA.1 breakthrough infection induce neutralising antibodies which are less efficient against BA.4 and BA.5 Omicron variants, Israel, March to June 2022

28 Jul 2022

This work evaluated neutralising antibody titres against wild type (WT) SARS-CoV-2 and four Omicron variants (BA.1, BA.2, BA.4 and BA.5) in healthcare workers who had breakthrough BA.1 infection. Omicron breakthrough infection in individuals vaccinated three or four times before infection resulted in increased neutralising antibodies against the WT virus

Job vacancy at ECDC

28 Jul 2022

Length of stay in Denmark before HIV diagnosis and linkage to care: a population-based study of migrants living with HIV, Denmark, 1995 to 2020

28 Jul 2022

Background Migrants face an increased risk of HIV infection and late presentation for HIV care. Aim To examine delays in HIV diagnosis, linkage to care (LTC), and risk of late presentation for migrants living with HIV in Denmark

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Hepatology

How many steps to a feasible mouse model of hepatitis B virus infection?

24 Jul 2022

Hepatology, Accepted Article.

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Infection

Low risk of bacterial co-infection, opportunistic diseases, and persistent immunosuppression in people living with HIV and COVID-19

31 Jul 2022

Abstract Purpose SARS-CoV-2 infection produces lymphopenia and CD4+ T-cell decrease, which could lead to a higher risk of bacterial co-infection or impair immunological evolution in people living with HIV (PLWH). Methods We investigated the rate of co-infection and superinfection, and the evolution of CD4+ count and CD4+/CD8+ ratio, in hospitalized PLWH with COVID-19

Clinical characteristics and the diagnostic role of molecular tests in musculoskeletal infections caused by nontuberculous Mycobacterium: a single-center experience

31 Jul 2022

Abstract Purpose We retrospectively investigated NTM musculoskeletal infections to understand the clinical characteristics as well as the diagnostic performance of molecular tests as a useful supplementary test. Methods A retrospective cohort study was conducted from January 2016 to December 2019

Variation in the seasonality of the respiratory syncytial virus during the COVID-19 pandemic

29 Jul 2022

Abstract Background The COVID-19 pandemic has caused a variation in the circulation of common respiratory viruses. Our objective was to analyse the epidemiology of respiratory syncytial virus (RSV) bronchiolitis admissions during the COVID-19 pandemic in comparison with previous epidemic seasons

SARS-CoV-2 infection: a hurricane that does not ignore chronic hepatitis

29 Jul 2022

Abstract Background The COVID-19 pandemic significantly compromised screening, laboratory controls, clinical surveillance and treatment of chronic hepatitis patients and worsened their outcome, as evidenced by its significant correlation with advanced cirrhosis, liver decompensation and mortality

Correction: Clinical course of Coronavirus Disease-19 in patients with haematological malignancies is characterized by a longer time to respiratory deterioration compared to non-haematological ones: results from a case–control study

28 Jul 2022

Non-HIV-related comorbidities and uncontrolled HIV replication are independent factors increasing the odds of hospitalization due to COVID-19 among HIV-positive patients in Poland

27 Jul 2022

Abstract Purpose Immunocompromised patients are postulated to be at elevated risk of unfavorable outcomes of COVID-19. The exact effect of HIV infection on the course of COVID-19 remains to be

elucidated. The aim of the study was to describe the epidemiological and clinical aspects of SARS-CoV-2 infection in HIV-infected individuals

Correction to: Surgery and outcome of infective endocarditis in octogenarians: prospective data from the ESC EORP EURO-ENDO registry

26 Jul 2022

Investigating causes and risk factors of pre-chemotherapy viremia in acute lymphoblastic leukemia pediatric patients

25 Jul 2022

Abstract Background Leukemia patients are immune-compromised even before starting chemotherapy because the malignant cells invade the bone marrow and destroy WBC precursors. Leukemic patients are more susceptible to infection by a wide range of microorganisms. Viral infections and reactivations are common and may result in severe complications

Post-COVID-19 condition is not only a question of persistent symptoms: structured screening including health-related quality of life reveals two separate clusters of post-COVID

22 Jul 2022

Abstract Purpose Some patients experience long-term sequelae after infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). However, despite a present post-COVID condition, defined as “any symptom lasting longer than 12 weeks,” only a subset of patients search for medical help and therapy

The association between bacteria and outcome and the influence of sampling method, in people with a diabetic foot infection

22 Jul 2022

Abstract Purpose Different bacteria lead to diverse diabetic foot infections (DFIs), and some bacteria probably lead to higher amputation and mortality risks. We assessed mortality and amputation risk in relation to bacterial profiles in people DFI and investigated the role of sampling method

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International Journal of Infectious Diseases

Cytomegalovirus viremia as a risk factor for mortality in HIV-associated cryptococcal and tuberculous meningitis

31 Jul 2022

Publication date: September 2022 **Source:** International Journal of Infectious Diseases, Volume 122 **Author(s):** Caleb P. Skipper, Katherine Huppler Hullsiek, Fiona V. Cresswell, Kiiza K. Tadeo, Michael Okirwoth, Mark Blackstad, Nelmary Hernandez-Alvarado, Claudia Fernández-Alarcón, Stewart Walukaga, Emily Martyn, Jayne Ellis, Kenneth Ssebambulidde, Lillian Tugume, Edwin Nuwagira, Joshua Rhein, David B

Failure to account for population size introduces spurious correlation for almost all diseases at a country level

31 Jul 2022

Publication date: September 2022 **Source:** International Journal of Infectious Diseases, Volume 122 **Author(s):** K.A. Sheldrick

Short and long-term immune changes in different severity groups of COVID-19 disease

31 Jul 2022

Publication date: September 2022 **Source:** International Journal of Infectious Diseases, Volume 122 **Author(s):** Khuloud Al Maamari, Ibrahim Al Busaidi, Mahmood Al Kindi, Fahad Zadjali, Fatma BaAlawi, Wijesinghe Anesta, Kawthar Al Amri, Wafa Albalushi, Hamed Al Balushi, Ayman Al Amri, Mahmood Aljufaili, Mujahid Al-Busaidi, Zakariya Al Muharrmi, Abdullah Balkhair, Nafila Al Riyami, Zahraa Ghanim, Jalila

The effect of ivermectin on the viral load and culture viability in early treatment of nonhospitalized patients with mild COVID-19 – a double-blind, randomized placebo-controlled trial

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Asaf Biber, Geva Harmelin, Dana Lev, Li Ram, Amit Shaham, Itai Nemet, Limor Kliker, Oran Erster, Michal Mandelboim, Eli Schwartz

U-shaped association between abnormal serum uric acid levels and COVID-19 severity: reports from the Japan COVID-19 Task Force

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Takahiro Fukushima, Shotaro Chubachi, Ho Namkoong, Shiro Otake, Kensuke Nakagawara, Hiromu Tanaka, Ho Lee, Atsuhiko Morita, Mayuko Watase, Tatsuya Kusumoto, Katsunori Masaki, Hirofumi Kamata, Makoto Ishii, Naoki Hasegawa, Norihiro Harada, Tetsuya Ueda, Soichiro Ueda, Takashi Ishiguro, Ken

A case of immune complex type hemolytic anemia induced by initial micafungin administration

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Hiroto Ishii, Tomohiko Sato, Miyuki Ishibashi, Hiroki Yokoyama, Takeshi Saito, Tetsunori Tasaki, Shingo Yano

SARS-CoV-2 Reinfection Rate and Outcomes in Saudi Arabia: A National Retrospective Study

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Maram Al-Otaiby, Ines Krissaane, Ahad Al Seraihi, Jumanah Alshenaifi, Mohammad Hassan Qahtani, Thamer Aljeri, Ezzedine Zaatari, Mazen Hassanain, Abdullah Algwizani, Ahmed Albarrag, Maha Al-Mozaini, Mohammed Alabdulaali

Annular rupioid secondary syphilis confined to the face

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Tianhang Yu, Jiaozi Che, Jikai Song, Xinsuo Duan, Jie Yang

Epidemiological characteristics of Lassa fever cases in Liberia: a retrospective analysis of surveillance data, 2019–2020

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Ralph Weah Jetoh, Shruti Malik, Bode Shobayo, Fahn Taweh, Trokon Omarley Yeabah, Josiah George, Burgess Gbelee, Julius Teahton, Francis Jaryan, Momo Tegli, Chukwuma David Umeokonkwo, Jane MaCauley

Pharmacokinetics of isoniazid and rifapentine in young pediatric patients with latent tuberculosis infection

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Weeraya Phaisal, Watsamon Jantarabenjakul, Noppadol Wacharachaisurapol, Monta Tawan, Thanyawee Puthanakit, Supeeche Wittayalertpanya, Pajaree Chariyavilaskul

Xpert MTB/RIF Ultra outperformed the Xpert assay in tuberculosis lymphadenitis diagnosis: a prospective head-to-head cohort study

29 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Xia Yu, Tingting Zhang, Yaoyao Kong, Fen Wang, Lingling Dong, Ming Han, Hairong Huang

Non-invasive positive pressure ventilation to prevent respiratory complications of severe tetanus- sedation and methodological insights

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Abhijit S. Nair, Antonio M. Esquinas

Development and clinical application of a rapid and visual loop-mediated isothermal amplification test for tetM gene in Clostridioides difficile strains cultured from feces

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Minyi Lin, Zitong Li, Qianyun Lin, Pu Wang, Wei Liu, Jing Yuan, Zhongsi Hong, Ye Chen

Ceftriaxone-induced encephalopathy in a patient with a solitary kidney

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Yuya Futagi, Yuriko Ito, Junya Nakade, Arimi Fujita, Tsutomu Shimada, Misaki Yoshida, Yoshinori Takahashi, Mitsuhiro Kawano, Takumi Taniguchi, Yoshimichi Sai

Colonization of the newborn respiratory tract and its association with respiratory morbidity in the first 6 months of life: A prospective cohort study

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Anna Marie Nathan, Kai Ning Chong, Cindy Shuan Ju Teh, Shih Ying Hng, Kah Peng Eg, Jessie Anne de Bruyne, Anis Najwa Muhamad, Quraisiah Adam, Rafdzah Ahmad Zaki, Nuguelis Razali

Rhinofacial entomophthoramyiasis: an uncommon infection of the subcutaneous tissue

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Kawisara Krasaewes, Saisawat Chaiyasate, Romanee Chaiwarith

Use of broad-spectrum antibiotics in children diagnosed with multisystem inflammatory syndrome temporarily associated with SARS-CoV-2 infection in Poland: the MOIS-CoR study

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Kacper Toczyłowski, Joanna Łasecka-Zadrożna, Ilona Pałyga-Bysiecka, Kamila Maria Ludwikowska, Magdalena Okarska-Napierała, Natalia Dudek, Aneta Afelt, Catherine Suski, Miron Bartosz Kurska, Teresa Jackowska, Ernest Kuchar, Leszek Szenborn, Marta Barszcz, Elżbieta BerdejSzczot, Sebastian

Possible sex differences in latent tuberculosis infection risk among close tuberculosis contacts

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Paul Y. Wada, Allyson G. Costa, Mariana Araújo-Pereira, Beatriz Barreto-Duarte, Alexandra B. Souza, Michael S. Rocha, Marina C. Figueiredo, Megan M. Turner, Valeria C. Rolla, Afrânio L. Kritski, Marcelo Cordeiro-Santos, Bruno B. Andrade, Timothy R. Sterling, Peter F

Effectiveness of BBV152/Covaxin and AZD1222/Covishield vaccines against severe COVID-19 and B.1.617.2/Delta variant in India, 2021: a multi-centric hospital-based case-control study

27 Jul 2022

Publication date: September 2022 Source: International Journal of Infectious Diseases, Volume 122 Author(s): Tarun Bhatnagar, Sirshendu Chaudhuri, Manickam Ponnaiah, Pragya D Yadav, R Sabarinathan, Rima R Sahay, Faheem Ahmed, S Aswathy, Pankaj Bhardwaj, Anil Bilimale, M Santhosh Kumar, M

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Journal of Infection

Robust neutralizing antibody responses after single-dose BNT162b2 vaccination at long intervals from prior SARS-CoV-2 infection and ceiling effect with repeated vaccination

31 Jul 2022

Dear editors,

Synergism of interferon-beta with antiviral drugs against SARS-CoV-2 variants

30 Jul 2022

In their recent article, Vellas et al. reported that tixagevimab-cilgavimab treatment of COVID-19 patients induces resistance mutations in SARS-CoV-2 Omicron BA.28, contributing to concerns that resistance formation may affect the efficacy of anti-SARS-CoV-2 therapies. In this context, more effective combination therapies are anticipated to reduce resistance formation⁹.

An analysis of *Neisseria meningitidis* strains causing meningococcal septic arthritis in England, and Wales: 2010-2020.

29 Jul 2022

Neisseria meningitidis, a coloniser of the nasopharynx in humans, is the cause of invasive meningococcal disease (IMD); often characterised by severe systemic infection with relatively high morbidity and mortality (1). Meningococcal strains are classified into twelve capsular groups but, in England and Wales (E&W), groups B, C, W and Y cause the majority of invasive disease (2)

Monkeypox infection among men who have sex with men: PCR testing on seminal fluids

29 Jul 2022

Dear Editor, in this journal recently J Heskin et al. described how sexual transmission is becoming predominant among new monkeypox (MPX) cases, Awan UA et al. identified as critical to achieve infection control raising public knowledge of risk factors and informing of the strategies they may take to decrease their exposure to the virus, [1, 2] and we provided an example of an atypical MPX

Childhood immunization services accessibility and utilization during the COVID-19 pandemic in Africa.

29 Jul 2022

According to the WHO, more than 30 million children under five years of age still suffer from vaccine-preventable diseases (VPDs) every year in Africa [1]. Of these, over half a million die from VPDs annually, representing approximately 58% of global VPD-related deaths [1]

Remdesivir modifies interferon response in hospitalized COVID-19 patients

29 Jul 2022

We have read with great interest the article by Lucijanac et al. that was recently published in Journal of Infection¹. In a retrospective matched case-control analysis they showed an increased occurrence of bacteremia in patients treated with remdesivir and, notably, they found no clinical benefit of remdesivir in patients with bacteremia

Characteristics of SARS-CoV-2 exhaled by COVID-19 patients

28 Jul 2022

In this Journal, Zheng and colleagues recently described high concentrations of SARS-CoV-2 virions in aerosols exhaled by patients with Omicron variant infection [1]. In this study, we analyzed the viral load progression and size distribution of SARS-CoV-2 in exhaled breath from COVID-19 patients

Peculiar Variations of the Electrostatic Potential of Spike Protein N-terminal Domain Associated with the Emergence of Successive SARS-CoV-2 Omicron Lineages

28 Jul 2022

Zeng and collaborators (1) have recently discussed the potential of the porcine tyrosine-protein kinase receptor UFO (AXL) to interact with the N-terminal domain (NTD) of the spike (S) protein of some SARS-CoV-2 Variants of Concern (VOC). Omicron (BA.1.1

Study on the clinical indications for plasma as an alternative to the bronchoalveolar lavage fluid metagenomic next-generation sequencing test to detect consistent pathogens for septic patients in intensive care units

27 Jul 2022

Sepsis is a life-threatening organ dysfunction caused by a dysregulated host response to infection¹, rapid and accurate pathogen diagnosis is essential. A recent paper by Yin and colleagues highlights the rapid and high sensitivity of plasma metagenomic next-generation sequencing (mNGS) for pathogen diagnosis in sepsis²

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Adaptation to a Multiplex Bead Assay and Seroprevalence to Rift Valley Fever N Protein: Nampula Province, Mozambique, 2013-2014

27 Jul 2022

Journal of Virology, Ahead of Print.

Host Range Expansion of Shigella Phage Sf6 Evolves through Point Mutations in the Tailspike

27 Jul 2022

Journal of Virology, Ahead of Print.

Interaction with TopBP1 Is Required for Human Papillomavirus 16 E2 Plasmid Segregation/Retention Function during Mitosis

26 Jul 2022

Journal of Virology, Ahead of Print.

Correction for Rudicell et al., "High Prevalence of Simian Immunodeficiency Virus Infection in a Community of Savanna Chimpanzees"

26 Jul 2022

Journal of Virology, Ahead of Print.

Correction for Sharp et al., "Simian Immunodeficiency Virus Infection of Chimpanzees"

25 Jul 2022

Journal of Virology, Ahead of Print.

Acquisition of Furin Cleavage Site and Further SARS-CoV-2 Evolution Change the Mechanisms of Viral Entry, Infection Spread, and Cell Signaling

25 Jul 2022

Journal of Virology, Ahead of Print.

Correction for You et al., "The Marek's Disease Virus Unique Gene MDV082 Is Dispensable for Virus Replication but Contributes to a Rapid Disease Onset"

25 Jul 2022

Journal of Virology, Ahead of Print.

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Lancet

[Comment] Baricitinib in COVID-19: a coming-of-age from artificial intelligence to reducing mortality

28 Jul 2022

Immunomodulatory therapies targeting excessive host immune responses, 1 vaccination, and immunity from natural infection have changed the course of the COVID-19 pandemic. However, the rapid emergence of SARS-CoV-2 variants has stymied progress towards ending the pandemic. An unmet need remains for accessible therapies that reduce mortality

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Morbidity and Mortality Weekly Report (MMWR)

Progress Toward the Elimination of Mother-to-Child Transmission of Hepatitis B Virus - Worldwide, 2016-2021

28 Jul 2022

This report describes global progress towards the elimination of mother-to-child hepatitis B virus.

Safety Monitoring of COVID-19 mRNA Vaccine Second Booster Doses Among Adults Aged ≥ 50 Years - United States, March 29, 2022-July 10, 2022

28 Jul 2022

This report describes safety monitoring of COVID-19 vaccine second booster doses among adults aged ≥ 50 years.

Notes from the Field: Cluster of Parechovirus Central Nervous System Infections in Young Infants - Tennessee, 2022

28 Jul 2022

This report describes Parechovirus infections in young infants in Tennessee.

Gun Carrying Among Youths, by Demographic Characteristics, Associated Violence Experiences, and Risk Behaviors - United States, 2017-2019

28 Jul 2022

This report describes self-reported gun carrying for nonrecreational purposes among male and female high school students.

Chronic Conditions Among Adults Aged 18–34 Years - United States, 2019

28 Jul 2022

This report describes chronic conditions among adults aged 18–34 years.

QuickStats: Age-Adjusted Suicide Rates for the Three Leading Methods of Suicide, by Race and Ethnicity - National Vital Statistics System, United States, 2020

28 Jul 2022

This report describes suicide rates for the three leading methods of suicide in the United States.

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Nature Reviews Microbiology - Current Issue

Microbiota succession throughout life from the cradle to the grave

29 Jul 2022

Nature Reviews Microbiology, Published online: 29 July 2022; doi:10.1038/s41579-022-00768-z The human microbiota can undergo dramatic changes during different phases of life (for example, during colonization after birth, after disturbances or in old age). In this Review, Knight and colleagues discuss the microbiota successions that occur from the cradle to the grave.

Giant virus biology and diversity in the era of genome-resolved metagenomics

28 Jul 2022

Nature Reviews Microbiology, Published online: 28 July 2022; doi:10.1038/s41579-022-00754-5 The discovery of giant viruses, with virions as large as some bacteria and eukaryotes, megabase-range genomes, and a variety of traits typically found only in cellular organisms, was one of the most remarkable breakthroughs in biology

Putting a twist in syphilis vaccine development

28 Jul 2022

Nature Reviews Microbiology, Published online: 28 July 2022; doi:10.1038/s41579-022-00784-z This Genome Watch highlights how population genomic strategies can aid in the development of an effective syphilis vaccine.

Gut commensals produce retinoids

26 Jul 2022

Nature Reviews Microbiology, Published online: 26 July 2022; doi:10.1038/s41579-022-00783-0 A study in mice shows that the gut microbiota can metabolize vitamin A into retinoids.

Phages keep bacteria awake

26 Jul 2022

Nature Reviews Microbiology, Published online: 26 July 2022; doi:10.1038/s41579-022-00781-2 A study in spore-forming bacteria shows that phage-encoded sigma factors can disrupt dormancy.

Root bacterium protects plants from drought

26 Jul 2022

Nature Reviews Microbiology, Published online: 26 July 2022; doi:10.1038/s41579-022-00782-1 This study shows that plants recruit root bacteria that can protect them from drought.

Immune evasion and provocation by Mycobacterium tuberculosis

25 Jul 2022

Nature Reviews Microbiology, Published online: 25 July 2022; doi:10.1038/s41579-022-00763-4 In this Review, Chandra, Grigsby and Philips discuss how Mycobacterium tuberculosis evades immune-mediated clearance while capitalizing on the host inflammatory response at different phases of its life cycle

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New England Journal of Medicine - Current Issue

Trial of Anti-BDCA2 Antibody Litifilimab for Cutaneous Lupus Erythematosus

27 Jul 2022

New England Journal of Medicine, Volume 387, Issue 4, Page 321-331, July 2022.

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Scandinavian Journal of Infectious Diseases: Table of Contents

Clinical profile and mortality predictors for tuberculosis disease among patients with solid tumours

25 Jul 2022

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Sexually Transmitted Infection Online First

Prophylactic use of antibiotics for sexually transmitted infections: awareness and use among HIV PrEP users in Belgium

27 Jul 2022

Doxycycline prophylaxis has been shown to reduce the incidence of chlamydia and syphilis infections in various studies, but researchers are worried about increasing antimicrobial resistance (AMR).¹ Although not currently recommended, STI prophylaxis has been reported in high-risk men who have sex with men, with proportions ranging from 2% to 10%

High prevalence of anal papillomavirus infection in men who have sex with men PrEP users

26 Jul 2022

Objectives Human papillomavirus (HPV) is the most common STI and is associated with a wide range of diseases from anogenital warts to malignancies. Anal HPV infection is considerably more common in men who have sex with men (MSM) living with HIV

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Sexually Transmitted Infections current issue

Effect of police enforcement and extreme social inequalities on violence and mental health among women who sell sex: findings from a cohort study in London, UK

25 Jul 2022

Objectives To examine legal and social determinants of violence, anxiety/depression among sex workers. Methods A participatory prospective cohort study among women (inclusive of transgender) ≥18 years, selling sex in the last 3 months in London between 2018 and 2019

How did COVID-19 measures impact sexual behaviour and access to HIV/STI services in Panama? Results from a national cross-sectional online survey

25 Jul 2022

Objective To describe reported changes in sexual behaviours, including virtual sex (sexting and cybersex), and access to HIV/STI testing and care during COVID-19 measures in Panama. Methods We conducted an online cross-sectional survey from 8 August to 12 September 2020 among adults (≥18 years) residing in Panama. Participants were recruited through social media

Clinical presentation and serological diagnosis of syphilis reinfection in men living with HIV: a retrospective cohort study

25 Jul 2022

Objectives Studies on the characteristics of syphilis reinfection are scarce despite increasing numbers and proportions of cases. We aimed to gain insights into the clinical and serological

presentation of reinfected men living with HIV and to evaluate diagnostic criteria for syphilis reinfection

Population rates of HIV, gonorrhoea and syphilis diagnoses by sexual orientation in New Zealand

25 Jul 2022

Introduction Globally, gay and bisexual men (GBM) are over-represented in HIV, syphilis and gonorrhoea cases. However, surveillance systems rarely provide meaningful measures of inequity, such as population-specific rates, due to a lack of sexual orientation denominators

Risk factors for HIV infection among men who have sex with men in the ANRS IPERGAY PrEP trial

25 Jul 2022

Objectives We aimed to assess among men who have sex with men (MSM) risk factors for HIV infection, to identify those who require urgent pre-exposure prophylaxis (PrEP) prescription. Methods All participants enrolled in the placebo arm of the ANRS IPERGAY trial, or infected between screening and day 0, were included

Challenges of providing HIV pre-exposure prophylaxis in Martinique, French West Indies

25 Jul 2022

Martinique Island is one of the French regions with the highest incidence of HIV infection. Between 1 January 2016 and 31 December 2020, 122 people attended our clinic for their first pre-exposure prophylaxis (PrEP) visit. Two had an HIV diagnosis, 5 decided not to take PrEP and 115 started PrEP

Is SMS text or email more effective for recruitment into sexual health research?

25 Jul 2022

Dear Editor, High rates of participation in epidemiological research (~90%) were observed in the 1950s, but the rates subsequently declined to 20%–30%.¹ Researchers have attempted different approaches to increase participation, including web-based surveys, personalised emails and incentives

Research news in clinical context

25 Jul 2022

Bone loss in young women living with HIV receiving intramuscular depot medroxyprogesterone acetate and initiating TDF-containing antiretroviral therapy Tenofovir disoproxil fumarate (TDF) and intramuscular depot medroxyprogesterone acetate (DMPA-IM) are independently associated with bone loss

What do young people want? (from a sexual health service)

25 Jul 2022

The COVID-19 pandemic challenged us to rethink and reconfigure the services we provide to our patients. Traditional open-access, walk-in clinics were no longer possible, and early on in the pandemic, in mid-2020, it was identified that there was a disproportionately larger effect on young people (YP) accessing sexual health services compared with those aged 18 and over

Increased risk of subsequent chlamydia infection among women not tested at the anorectal anatomical location

25 Jul 2022

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

'Stay at home ...: exploring the impact of the COVID-19 public health response on sexual behaviour and health service use among men who have sex with men: findings from a large online survey in the UK

25 Jul 2022

Objectives The first UK national lockdown began on 23 March 2020, in response to the COVID-19 pandemic, and led to reduced STI/HIV service provision in the UK. We investigated sexual behaviour, use and need for sexual healthcare during the pandemic

Characteristics associated with *Lactobacillus iners*-dominated vaginal microbiota

25 Jul 2022

Objective The protective role of *Lactobacillus iners* in the vaginal microbiota has been questioned. Recent studies have shown that *L.iners* is the dominating taxon in a large subset of women worldwide. The aim of this study was to identify sociodemographic, behavioural and clinical variables associated with *L.iners*-dominated community state type (CST) III in Brazilian women of reproductive age

Accessing needed sexual health services during the COVID-19 pandemic in British Columbia, Canada: a survey of sexual health service clients

25 Jul 2022

Objectives We assessed COVID-19 pandemic impacts on accessing needed sexual health services, and acceptability of alternative service delivery models, among sexual health service clients in British Columbia (BC), Canada

No widespread dissemination of *Chlamydia trachomatis* diagnostic-escape variants and the impact of *Neisseria gonorrhoeae* positivity on the Aptima Combo 2 assay

25 Jul 2022

Objectives A Finnish *Chlamydia trachomatis* (CT) new variant was detected in 2019 that escaped detection in the Hologic Aptima Combo 2 (AC2) assay due to a C1515T mutation in the CT 23S rRNA target region. Reflex testing of CT-negative/CT-equivocal specimens as well as those positive for *Neisseria gonorrhoeae* (NG) with the Hologic Aptima CT (ACT) assay was recommended to identify any CT variants

Social mobility and gonorrhoea in Germany during 2020

25 Jul 2022

Objectives The incidence of STIs is likely to be related to levels of social activity and mobility. Novel datasets detailing levels of social activity were made widely available during the COVID-19 pandemic. These allow the relationship between activity and STI incidence to be examined

***Treponema pallidum* PCR testing for diagnosis of mucocutaneous ulcers suspicious for syphilis**

25 Jul 2022

Background Primary syphilis is characterised by the appearance of an ulcerated lesion (chancere) on the anogenital or oral mucosa from which *Treponema pallidum* DNA may be detectable by PCR. Serological tests for syphilis may be non-reactive in early infection, even after the appearance of a chancere. We reviewed the use of a multiplex-PCR (M-PCR) test to determine the added value of T

Time to healthcare-seeking following the onset of STI-associated symptoms during two waves of the COVID-19 pandemic in Melbourne, Australia

25 Jul 2022

Throughout 2020, countries worldwide introduced various restrictions and measures to control the COVID-19 pandemic. These restrictions were unprecedented and included limitations on social gatherings and reasons for leaving home. Some studies reported a reduction in STI diagnoses and sexual activities during the COVID-19 pandemic

Oral ivermectin: a feasible alternative to topical therapy of genital scabies

25 Jul 2022

Dear Editor We report the case of a 68-year-old man suffering only from hypertension who presented with a 1-month history of severe itching of the genital and inguinal area. On physical examination, there were erythematous and excoriated patches on the pubic region and groins due to scratching, and intensely itchy erythematous nodules on the penis and scrotum

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