183 Procalcitonin as a Marker of Etiology in Adults Hospitalized With Community-Acquired Pneumonia
Wesley H. Self, Robert A. Balk, Carlos G. Grijalva, Derek J. Williams, Yuwei Zhu, Evan J. Anderson, Grant W. Waterer, D. Mark Courtney, Anna M. Bramley, Christopher Trabue, Sherene Fakhran, Anne J. Blaschke, Seema Jain, Kathryn M. Edwards, and Richard G. Wunderink

Recent trials suggest procalcitonin-based guidelines can reduce antibiotic use for respiratory infections. However, the accuracy of procalcitonin to discriminate between viral and bacterial pneumonia requires further dissection.

191 Editorial Commentary: Procalcitonin: The Right Answer but to Which Question?
Stephen P. Bergin and Ephraim L. Tsalik

194 An Automated, Pharmacist-Driven Initiative Improves Quality of Care for Staphylococcus aureus Bacteremia
Eric Wenzler, Fei Wang, Debra A. Goff, Beth Prier, John Mellett, Julie E. Mangino, and Karri A. Bauer

An automated, pharmacist-driven initiative significantly improved adherence to quality-of-care components for patients with S. aureus bacteremia. We accomplished this by leveraging frontline pharmacists without additional stewardship efforts or mandatory infectious diseases consult.

201 Reduction in Blood Culture Contamination Through Use of Initial Specimen Diversion Device
Mark E. Rupp, R. Jennifer Cavalieri, Cole Marolf, and Elizabeth Lyde

Blood culture contamination is a clinically significant problem that can be reduced through the use of an innovative device that diverts and sequesters the initial 1.5–2 mL of blood that contains the skin cells and microbes that result in contamination.

206 Editorial Commentary: Reducing Contamination of Blood Cultures: Consider Costs and Clinical Benefits
Alexander J. McAdam

208 Gastrointestinal Carriage Is a Major Reservoir of Klebsiella pneumoniae Infection in Intensive Care Patients

Klebsiella pneumoniae colonization is a significant risk factor for infection in ICU, with approximately half of K. pneumoniae infections resulting from patients’ own microbiota. Screening for colonization on admission could limit risk of infection in the colonized patient and others.

216 Changes in In Vitro Susceptibility Patterns of Aspergillus to Triazoles and Correlation With Aspergillosis Outcome in a Tertiary Care Cancer Center, 1999–2015
Sang Taek Heo, Alexander M. Tatare, Cristina Jiménez-Ortigosa, Ying Jiang, Russell E. Lewis, Jeffrey Tarraod Frank Tverdek, Nathaniel D. Albert, Paul E. Verweij, Jacques F. Meis, Antonious G. Mikos, David S. Perlin, and Dimitrios P. Kontoyiannis

We found an increase in triazole minimum inhibitory concentrations (MICs) of 290 clinical Aspergillus isolates following the introduction of Aspergillus-potent triazoles. This was associated with prior azole exposure and seen only in Aspergillus fumigatus. There was no correlation of MIC with clinical outcome.
226  Subacute Sclerosing Panencephalitis: The Devastating Measles Complication That Might Be More Common Than Previously Estimated
Kristen A. Wendorf, Kathleen Winter, Jennifer Zipprich, Rob Schechter, Jill K. Hacker, Chris Preas, James D. Cherry, Carol Glaser, and Kathleen Harriman

Subacute sclerosing panencephalitis occurred at a high rate of 1 in 609 for infants infected with measles before 1 year of age in California.

233  Editorial Commentary: Subacute Sclerosing Panencephalitis
Paul A. Rota, Jennifer S. Rota, and James L. Goodson

235  Increased Mortality Among Persons With Chronic Hepatitis C With Moderate or Severe Liver Disease: A Cohort Study
Javier A. Capeda, David L. Thomas, Jacquiue Astemborski, Mark S. Sulkowski, Gregory D. Kirk, and Shruti H. Mehta

Individuals with mild/moderate liver disease due to chronic hepatitis C virus are often denied treatment, a practice our data did not support. In these individuals, we found increased mortality and inability to predict disease progression with sufficiently high diagnostic accuracy.

244  Long-term Outcome of Pulmonary Resection for Nontuberculous Mycobacterial Pulmonary Disease
Takanori Asakura, Nobutaka Hayakawa, Naoki Hasegawa, Ho Namkoong, Ken Takeuchi, Shoji Suzuki, Makoto Ishii, Tomoko Betsuyaku, Yoshiaki Abe, and Motofumi Ouchi

Pneumonectomy significantly decreases the risk of microbiological recurrence despite its high rates of morbidity and mortality. Pneumonectomy, remnant cavity lesions, older age, and lower BMI are poor prognostic factors after pulmonary resection for nontuberculous mycobacterial pulmonary disease.

252  Prevalence of Human Immunodeficiency Virus, Hepatitis C Virus, and Hepatitis B Virus Among Homeless and Nonhomeless United States Veterans
Amanda J. Noska, Pamela S. Belperio, Timothy P. Loomis, Thomas P. O’Toole, and Lisa I. Backus

Rates of HIV, hepatitis C virus (HCV), and hepatitis B virus (HBV) testing are higher in homeless veterans nationally than in nonhomeless veterans. Homeless veterans experience particularly high prevalence of HIV, HCV, HBV, and HIV/HCV coinfection compared with their nonhomeless counterparts.

259  Differential Effects of Prior Influenza Exposures on H3N2 Cross-reactivity of Human Postvaccination Sera
Hang Xie, Lai Li, Zhiping Ye, Xing Li, Ewan P. Plant, Olga Zoueva, Yangqiang Zhao, Xianghong Jing, Zhenfeng Lin, Toshiaki Kawano, Meng-Jung Chiang, Courtney L. Finch, Martina Kosikova, Anding Zhang, Yanhong Zhu, and Xu-Feng Wan

There is an age effect on human postvaccination responses to seasonal influenza vaccines. Prior exposure history, especially H1 influenza encounter, affected cross-reactivity of vaccination-induced H3-specific hemagglutination inhibition antibody responses, and consequently might affect vaccine effectiveness.

268  Toward Improving Early Diagnosis of Congenital Chagas Disease in an Endemic Setting

Congenital Trypanosoma cruzi transmission is estimated to account for 22% of new infections. Despite a decline in severe cases over the past several decades, congenital Chagas disease detection remains challenging, and asymptomatic infection is still a significant public health problem.

276  Efficacy of Moxidectin Versus Ivermectin Against Strongyloides stercoralis Infections: A Randomized, Controlled Noninferiority Trial
Beatrice Barda, Somphout Sayasone, Khampheang Phongloua, Syda Kayavong, Khomsavanh Keoduangsy, Peter Odermatt, Maxim Puchkov, Jörg Huwyler, Jan Hattendorf, and Jennifer Keiser

Treatment of Strongyloides stercoralis relies on ivermectin. Moxidectin might serve as a treatment alternative. We evaluated, for the first time, the efficacy and safety of this anthelminthic and found that it has a comparable efficacy and safety profile as ivermectin.

282  The Microbiological Landscape of Anaerobic Infections in Hidradenitis Suppurativa: A Prospective Metagenomic Study
Hélène Guer-Revillet, Jean-Philippe Jais, Marie-Noëlle Urgehuer, Hélène Coignard-Biehler, Sabine Duchateau, Maïa Delage, Thi Lam, Alain Hovnanian, Olivier Lortholary, Xavier Nassif, Aude Nassif, and Olivier Join-Lambert

Hidradenitis suppurativa (HS) is a frequent inflammatory skin disease of unknown etiology. This study reveals the high prevalence and particular microbiology of anaerobic infection in HS, paving the way for rationale, targeted antimicrobial treatments.

292  Ebola Virus Disease and Pregnancy: A Retrospective Cohort Study of Patients Managed at 5 Ebola Treatment Units in West Africa
Patricia C. Henwood, Lisa M. Bebell, Reshma Roshania, Vanessa Wolfman, Michaela Mallow, Anushka Kalyanpur, and Adam C. Levine

We find no evidence to support a difference in the risk of death among pregnant women with suspected or confirmed Ebola virus disease (EVD) as compared to nonpregnant women. Limited data suggest poor fetal and neonatal outcomes in EVD-affected pregnancies.

300  Population-Based Pediatric Hospitalization Burden of Lineage-Specific Influenza B in Hong Kong, 2004–2014

We report one of the first population-based, age-specific and lineage-specific studies of pediatric hospitalization for influenza B. We found that changes in lineage were associated with higher hospitalization rates.
308 Childhood Deaths Attributable to Invasive Pneumococcal Disease in England and Wales, 2006–2014
Godwin Oligbu, Sarah Collins, Carmen L. Sheppard, Norman K. Fry, Mary Slack, Ray Borrow, and Shamer N. Ladhani

In England and Wales, childhood pneumococcal conjugate vaccination was associated with a 69% reduction in invasive pneumococcal disease (IPD)–related mortality rates in children aged <5 years, with nearly all IPD-related childhood deaths now due to nonvaccine serotypes or in neonates.

315 Enterovirus D68 Infection Among Children With Medically Attended Acute Respiratory Illness, Cincinnati, Ohio, July–October 2014
Holly M. Biggs, Monica McNeal, W. Allan Nix, Carolyn Kercsmar, Aaron T. Curns, Beverly Connelly, Marilyn Rice, Shur-Wern Wang Chern, Mila M. Prill, Nancy Back, M. Steven Oberste, Susan I. Gerber, and Mary A. Staat

In this prospective study of acute respiratory illness at a US children's hospital during the 2014 enterovirus D68 (EV-D68) epidemic, population-based rates of EV-D68 hospitalization and emergency department visits were high, and asthma was associated with increased risk of medically attended EV-D68 illness.

VIEWPOINTS

324 US Black Women and Human Immunodeficiency Virus Prevention: Time for New Approaches to Clinical Trials
Adaora A. Adimora, Stephen R. Cole, and Joseph J. Eron

Efficacy of HIV prevention interventions among vulnerable populations in lower-incidence settings could be estimated by analyzing relationships between drug concentrations and efficacy in higher-incidence settings, and then standardizing these results to drug concentrations observed in lower-incidence settings.

BRIEF REPORTS

328 Specific Polysaccharide Antibody Deficiency Revealed by Severe Bacterial Infections in Adulthood: A Report on 11 Cases
Benjamin Lopez, Anne Boucher, Mathilde Bahauaud, Geoffrey Mortuaire, Hugues Melliez, David Launay, Louis Terriou, Lidwine Wemeau-Stervinou, Benoît Wallaert, Karine Faure, Frédéric Batteux, Myriam Labalette, and Guillaume Lefèvre

332 A Novel Prosthetic Joint Infection Pathogen, Mycoplasma salivarium, Identified by Metagenomic Shotgun Sequencing
Matthew Thondel, Patricio Jeraldo, Kerryl Greenwood-Quaintance, Nicholas Chia, Matthew P. Abdel, James M. Steckelberg, Douglas R. Osmon, and Robin Patel

336 Early Disseminated Lyme Disease Causing False-Positive Serology for Primary Epstein-Barr Virus Infection: Report of 2 Cases
Adriana J. Pavletic and Adriana R. Marques

338 Adjunctive Corticosteroid Therapy in the Treatment of Coccidioidal Meningitis
George R. Thompson III, Janis E. Blair, Sharon Wang, Robert Bercovitch, Michael Bolari, Dan Van Den Akker, Rodrigo Lopez, Arash Heidari, Antonino Catanzaro, Jose Cadena, Peter Chin-Hong, Brad Spellberg, and Royce Johnson

INVITED ARTICLE

HEALTHCARE EPIDEMIOLOGY

342 Contact Precautions for Preventing Nosocomial Transmission of Extended-Spectrum β-Lactamase–Producing Escherichia coli: A Point/Counterpoint Review
Sarah Tschudin-Sutter, Jean-Christophe Lucet, Nico T. Mutters, Evelina Tacconelli, Jean Ralph Zahar, and Stephan Harbarth

The decision to advocate contact precautions for extended-spectrum β-lactamase–producing Escherichia coli (ESBL-EC) carriers should be carefully evaluated. It is likely that most institutions do not need to rely on contact precautions for controlling nosocomial ESBL-EC transmission in nonepidemic settings.

PHOTO QUIZ

348 Chronic Cough and Severe Weight Loss in a 55-Year-Old Previously Healthy Man
(Answer on pages 349–51.)

CORRESPONDENCE

352 Announcing the Publication of a WHO Guide to the Design and Interpretation of Observational Influenza Vaccine Effectiveness Studies
Justin R. Ortiz, Michael L. Jackson, and Joachim Hombach

353 Pooling and the Potential Dilution of Repeat Influenza Vaccination Effects
Danuta M. Skowronski and Catharine Chambers

355 Reply to Skowronski and Chambers
Allen C. Cheng, Kristine K. Macartney, Grant W. Waterer, Tom Kotsimbos, Paul M. Kelly, and Christopher C. Blyth

ERRATA

356 Lee et al [Clin Infect Dis 2017; 64:719–27]
357 Kondo et al [Clin Infect Dis 2017; 64:528]
357 Mazur et al [Clin Infect Dis 2017; 64:443–50]