Clinical Infectious Diseases

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Roughly 10,000 Haitians died, and hundreds of thousands were sickened after cholera was introduced into Haiti during the recovery effort following the 2010 earthquake. Poor sanitation left a legacy of cholera which persisted and was spread again by the 2016 Hurricane Matthew.

Cholera seeps through the mountains, carried by water, sweeping up fecal matter on the hillsides, contaminating the puddles, streams, and rivers. As long as there is unboiled or unchlorinated water, and there is insufficient infrastructure to handle sewage, infection continues.

Emory Douglas is a graphic artist who produced many images that became icons of African American struggles, especially during the 1960s and 1970s. He was Minister of Culture for the Black Panther Party from the late 1960s until the 1980s. His techniques are often quite innovative, using dark, bold lines, bright colors, and photos to create collages. He continues to dedicate his artwork to the cause of social justice. (Mary & Michael Grizzard, Cover Art Editors)

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iii In the Literature

ARTICLES AND COMMENTARIES

321 Lumbar Puncture Performed Promptly or After Neuroimaging in Acute Bacterial Meningitis in Adults: A Prospective National Cohort Study Evaluating Different Guidelines
Martin Glimäker, Jan Sjölin, Styrbjörn Åkesson, and Pontus Naucler

Swedish guidelines recommend prompt lumbar puncture (LP) liberally. Adherence to these guidelines was associated with decreased mortality and increased favorable outcome in contrast to following ESCMID or IDSA recommendations. Impaired mental status should not be an indication for neuroimaging before LP.

329 The Impact of a Reported Penicillin Allergy on Surgical Site Infection Risk
Kimberly G. Blumenthal, Erin E. Ryan, Yu Li, Hang Lee, James L. Kuhlen, and Erica S. Shenoy

Patients reporting a penicillin allergy had a 50% increased odds of developing a surgical site infection, due to receipt of non–beta-lactam perioperative antibiotics. Clarifying reported penicillin allergies preoperatively may improve perioperative antibiotic prophylaxis choice and decrease surgical site infection risk.

337 Editorial Commentary: The Influence of Reported Penicillin Allergy
E. Patchen Dellinger, Rupali Jain, and Paul S. Pottinger

339 A 12-Year Follow-up on the Long-Term Effectiveness of the Quadrivalent Human Papillomavirus Vaccine in 4 Nordic Countries
Susanne K. Kjaer, Mari Nygård, Joakim Dillner, J. Brooke Marshall, David Radley, Meng Li, Christian Munk, Bo T. Hansen, Lara G. Sigurdardottir, Maria Hortlund, Laufey Tryggvadottir, Amita Joshi, Rituparna Das, and Alfred J. Saah

We summarize the long-term effectiveness of quadrivalent human papillomavirus (qHPV) vaccine in Nordic women, followed via different national registries. qHPV vaccine effectiveness remains above 90% for at least 10 years, with a trend toward continued effectiveness up to 12 years.

346 Corticosteroids in Patients Hospitalized With Community-Acquired Pneumonia: Systematic Review and Individual Patient Data Metaanalysis
Matthias Briel, Simone M. C. Spooerenberg, Dominic Snijders, Antoni Torres, Silvia Fernandez-Serrano, G. Umberto Meduri, Albert Gabarrús, Claudine A. Blum, Marco Confolonieri, Benjamin Kasenda, Reed A.C. Siemieniuk, Wim Boersma, Willem Jan W. Bos, Mirjam Christ-Crain; for the Ovidius Study Group, Capisce Study Group, and STEP Study Group

Adjunct corticosteroids for patients hospitalized with community-acquired pneumonia (CAP) reduce time to clinical stability and length of hospital stay by approximately 1 day without a significant effect on overall mortality but with an increased risk for CAP-related rehospitalization and hyperglycemia.

355 Cost-effectiveness of Bezlotoxumab Compared With Placebo for the Prevention of Recurrent Clostridium difficile Infection
Vimalanand S. Prabhu, Erik R. Dubberke, Mary Beth Dorf, Elamin Elbashra, Nicole Cossrow, Yiling Jiang, and Stephen Marcello

A natural history model of a range of adult patients with Clostridium difficile infection (CDI) treated with standard-of-care antibiotics showed that bezlotoxumab was cost-effective compared to placebo for the prevention of recurrent CDI episodes.
How Well Do Neurologic Symptoms Identify Individuals With Neurosyphilis?
Ariello P. Davis, Joshua Stem, Lauren Tantalo, Sharon Sahi, Sarah Holte, Sheila Dunaway, and Christina M. Marra

Among human immunodeficiency virus individuals with syphilis, mild or greater severity photophobia, vision loss, gait incoordination, and moderate or greater severity hearing loss were more common in those with a reactive cerebrospinal fluid Venereal Disease Research Laboratory test.

Kinetics of Double-Stranded DNA Viremia After Allogeneic Hematopoietic Cell Transplantation

Persistent double-stranded DNA viremia episodes temporally correlate with virus-specific end-organ disease and are associated with increased overall mortality after hematopoietic cell transplantation. First positive viral load >2 log10 copies/mL (range, 2.04–3.06 per virus) predicts persistent episodes and provides an early metric for intervention.

Cost-Effectiveness of One-Time Hepatitis C Screening Strategies Among Adolescents and Young Adults in Primary Care Settings
Sabrina A. Assoumou, Abriana Tasillo, Jared A. Leff, Bruce R. Schackman, Mari-Lynn Drainoni, C. Robert Horsburgh, M. Anita Barry, Craig Regis, Arthur Y. Kim, Alison Marshall, Sheel Saxena, Peter C. Smith, and Benjamin P. Linas

Risk-based hepatitis C virus (HCV) testing is recommended for young adults. We used simulation modeling to show that routine HCV testing during clinical visits might be cost-effective in settings with a high prevalence of HCV and injection drug use.

Comparison of a Novel Human Rabies Monoclonal Antibody to Human Rabies Immunoglobulin for Postexposure Prophylaxis: A Phase 2/3, Randomized, Single-Blind, Noninferiority, Controlled Study

Rabies virus neutralizing activity (RVNA) elicited by an antirabies human monoclonal antibody-containing postexposure prophylaxis (PEP) regimen was noninferior to RVNA produced by human rabies immunoglobulin–containing PEP in patients with category III suspected rabies exposure.

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Estradiol Levels Are Altered in Human Immunodeficiency Virus–Infected Pregnant Women Randomized to Efavirenz-Versus Lopinavir/Ritonavir-Based Antiretroviral Therapy

Chloe R. McDonald, Andrea L. Conroy, Joel L. Gamble, Eszter Papp, Michael Hawkins, Peter Olwoch, Paul Natureeba, Moses Kamya, Michael Silverman, Deborah Cohan, Catherine A. Koss, Grant Dorsey, Kevin C. Kain, and Lena Serghides

This study found that combination antiretroviral therapy (cART) regimens differentially affect estradiol levels in pregnancy. Exposure to lopinavir/ritonavir was associated with an increase in estradiol, while exposure to efavirenz was associated with a decrease in estradiol, relative to cART-naive HIV-infected women.

Risk of Pelvic Inflammatory Disease in Relation to Chlamydia and Gonorrhea Testing, Repeat Testing, and Positivity: A Population-Based Cohort Study

Joanne Reekie, Basil Donovan, Rebecca Guy, Jane S. Hocking, John M. Kaldor, Donna B. Mak, Sallie Pearson, David Preen, Louise Stewart, James Ward, and Bette Liu; for the Chlamydia and Reproductive Health Outcome Investigators

Gonorrhea infection confers a substantially higher risk than chlamydia of hospitalization or emergency department presentation for pelvic inflammatory disease. With emerging gonorrhea antimicrobial resistance, it is imperative that women in high-prevalence areas receive timely and effective testing and treatment.

Long-term Clinical Outcomes in Visceral Leishmaniasis/Human Immunodeficiency Virus–Coinfected Patients During and After Pentamidine Secondary Prophylaxis in Ethiopia: A Single-Arm Clinical Trial

Ermias Diro, Koert Ritmeijer, Marleen Boelaert, Fabiana Alves, Rezika Mohammed, Charles Abongomera, Raffaella Ravinetto, Maaike De Crop, Helina Fikre, Cherinet Adera, Harry van Loen, Achilles Tsoumanis, Wim Adriaensen, Asrat Hailu, and Johan van Griensven

We conducted a single-arm clinical trial in Ethiopian visceral leishmaniasis/HIV-coinfected patients using pentamidine secondary prophylaxis. The 2-year risk of relapse was 37%. Patients reaching a CD4 count >200 cells/µL after 12 months of prophylaxis can safely discontinue pentamidine.

Demise of Polymerase Chain Reaction/Electrospray Ionization-Mass Spectrometry as an Infectious Diseases Diagnostic Tool

Volkan Özenci, Robin Patel, Måns Ullberg, and Kristoffer Strålin

PCR/electrospray ionization-mass spectrometry had been under development for over a decade. It had become commercially available in Europe in 2014 and was under review at the FDA when, in April 2017, its development was discontinued.

Antimicrobial Resistance Gene Acquisition and Depletion Following Fecal Microbiota Transplantation for Recurrent Clostridium difficile Infection

Victor Leung, Caroline Vincent, Thaddeus J. Edens, Mark Miller, and Amees R. Manges

Gonococcal Investigation of a Putative Endoscope-Associated Carbapenem-Resistant Enterobacter cloacae Outbreak Reveals a Wide Diversity of Circulating Strains and Resistance Mutations

Shawn E. Hawken, Laraine L. Washer, Christopher L. Williams, Duane W. Newton, and Evan S. Snitkin

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Fecal Microbiota Transplantation and Urinary Tract Infection: An Interesting Approach
Benjamin Davido, Aurélien Dinh, Laurene Deconinck, and Pierre de Truchis

Reply to Davido et al
Sahil Khanna, Raseen Tariq, Pritish K. Tosh, Randall C. Walker, Raymund R. Razonable, and Darrell S. Pardi

Evidence of Sexually Transmitted Disease Testing Outside of Primary Human Immunodeficiency Virus Care for People Living With Human Immunodeficiency Virus in San Francisco, California
Alison J. Hughes and Susan Scheer

BOOK REVIEW

Textbook of Global Health
Natasha Hochberg