INVITED COMMENTARY

815 Infectious Diseases, Weather, and Climate
Philip M. Polgreen and Evelyn L. Polgreen

ARTICLES AND COMMENTARIES

818 Diagnostics for Yaws Eradication: Insights From Direct Next-Generation Sequencing of Cutaneous Strains of Treponema pallidum
Michael Marks, Maria Fookes, Josef Wagner, Robert Butcher, Rosanna Ghinai, Oliver Sokana, Yaw-Adu Sarkodie, Sheila A. Lukelhart, Anthony W. Solomon, David C. W. Mabey, and Nicholas Thomson
Yaws is an important cause of skin disease in tropical countries. Using next-generation sequencing, we tested yaws-like ulcers, which were negative using standard molecular diagnostics. We found primer binding site mutations explaining the negative results of the standard assay.

825 Prosthetic Valve Candida spp. Endocarditis: New Insights Into Long-term Prognosis—The ESCAPE Study
Claire Rivoisy, Antonio Vena, Laura Schaeffer, Caroline Charlier, Amaud Fontanet, François Delahaye, Emilio Bouza, Olivier Lortholary, Patricia Munoz, and Agnès Lefort; for the French Mycoses Study Group and Grupo de Apoyo al Manejo de las Endocarditis en España (GAMES)
Prosthetic valve Candida spp. endocarditis is rare but remains severe, with a 6-month mortality rate of 34%. Liposomal amphotericin B–based “induction” treatment followed by “maintenance” fluconazole may improve the outcome. Surgery is not mandatory for frail patients.

833 The Human Immunodeficiency Virus Care Continuum in China: 1985–2015
Ye Ma, Zhihui Dou, Wei Guo, Yurong Mao, Fujie Zhang, Jennifer M. McGoogan, Yan Zhao, Decai Zhao, Yasong Wu, Zhongyu Liu, and Zunyou Wu
This first-ever, 30-year retrospective analysis of China’s human immunodeficiency virus (HIV) care continuum included 573,529 individuals with diagnosed HIV infection. By 2015, 68% of those infected had their infection diagnosed, 67% of those with diagnosed infection were receiving antiretroviral therapy (ART), and 65% of those receiving ART were virally suppressed.

840 Frequent Undetected Ward-Based Methicillin-Resistant Staphylococcus aureus Transmission Linked to Patient Sharing Between Hospitals
We report significant undetected ward-based transmission of methicillin-resistant Staphylococcus aureus in the English national health system, which is predominantly attributable to patient sharing between hospitals. We propose a context-appropriate measure that could limit the spread of antibiotic-resistant bacteria in England.
849 Molecular Epidemiology of Tuberculosis in British Columbia, Canada: A 10-Year Retrospective Study
Jennifer L. Guthrie, Clare Kong, David Roth, Danielle Jorgensen, Mabel Rodriguez, Linda Hoang, Patrick Tang, Victoria Cook, James Johnston, and Jennifer L. Gardy

Summary This 10-year retrospective study describes tuberculosis molecular epidemiology in a low-incidence setting. Approximately one-third of cases likely result from local transmission, largely—but not entirely—amongst the Canadian-born. Disease site and risk factors for clustering vary with lineage and birthplace.

Anne-Sophie Romain, Robert Cohen, Céline Plainvert, Caroline Joubrel, Stéphane Béchet, Amelie Perret, Asmaa Zaï, Claire Poyart, and Corinne Levy

In the era of intravenous antibiotic prophylaxis, among 848 Group B Streptococcus meningitis cases during 2001–2014, we found decreased incidence of early-onset disease by 63.3% and unexpectedly, in the same timeframe, we observed an increased incidence of late-onset disease by 58.1%.

865 Impact of Human Immunodeficiency Virus on the Burden and Severity of Influenza Illness in Malawian Adults: A Prospective Cohort and Parallel Case-Control Study
Antonia Ho, Stephen J. Aston, Hannah Jary, Tamara Mitchell, Maaike Alaerts, Mavis Menyere, Jane Mallewa, Mulinda Nyirenda, Dean Everett, Robert S. Heyderman, and Neil French

Human immunodeficiency virus (HIV)–related immunosuppression is a major risk factor for influenza illness and severity in Malawian adults. Household crowding, food insecurity, and poor sanitation are additional risk factors. Influenza preventive strategies should target HIV-infected adults in Africa.

877 Salmonella enterica Serotype 4,[5],12:i:- in Swine in the United States Midwest: An Emerging Multidrug-Resistant Clade
Ehud Elnekave, Samuel Hong, Alison E. Mather, Dave Boxrud, Angela J. Taylor, Victoria Lappi, Timothy J. Johnson, Fabio Vannucci, Peter Davies, Craig Hedberg, Andres Perez, and Julio Alvarez

A Salmonella 4,[5],12:i:- defined clade with genotypic multidrug-resistance, common in Europe is emerging in the United States. Phenotypic resistance to enrofloxacin and qnr genes were found in Salmonella 4,[5],12:i:- from swine in the Midwest.

886 The Relationship Between Latent Tuberculosis Infection and Acute Myocardial Infarction
Moises A. Huaman, Eduardo Ticona, Gustavo Miranda, Richard J. Kryscio, Raquel Mugruza, Ernesto Aranda, Paola L. Rondon, David Henson, Cesar Ticona, Timothy R. Sterling, Carl J. Fichtenbaum, and Beth A. Garvy

We found that latent tuberculosis infection (LTBI) was independently associated with type 1 (spontaneous) acute myocardial infarction in Lima, Peru. Our results suggest a potentially important role of LTBI in cardiovascular disease.

893 Global Trends in CD4 Cell Count at the Start of Antiretroviral Therapy: Collaborative Study of Treatment Programs
The IeDEA and COHERE Cohort Collaborations

We modeled global time trends in median CD4 cell counts at combination antiretroviral therapy initiation in human immunodeficiency virus–infected adults. These counts have increased in all country income groups since 2002 but generally remained below 350/μL in 2015.

904 Immune Responses to Twice-Annual Influenza Vaccination in Older Adults in Hong Kong
Yat Hung Tam, Sophie A. Valkenburg, Ranawaka A. P. M. Perera, Jennifer H. F. Wong, Vicky J. Fang, Tiffany W. Y. Ng, Alfred S. K. Kwong, Wendy W. S. Tsui, Dennis K. M. Ip, Leo L. M. Poon, Chris K. V. Chau, Ian G. Barri, Joseph S. Malik Peiris, and Benjamin J. Cowling

Vaccination with the southern hemisphere influenza vaccine improved protection for older adults in the summer and autumn, but led to slightly blunted immune responses to the northern hemisphere vaccination with implications for protection in the following winter.

913 Serotype-Specific Correlates of Protection for Pneumococcal Carriage: An Analysis of Immunity in 19 Countries
Merryn Voysey, Thomas R. Fanshawe, Dominic F. Kelly, Katherine L. O’Brien, Rama Kandasamy, Shrijana Shrestha, Stephen Thorson, Jason Hinds, and Andrew J. Pollard

Antcapsular pneumococcal antibody concentrations associated with protection against carriage vary between serotypes and are higher than antibody levels required for protection against disease. Higher antibody concentrations are required for protection in lower-income countries.

921 Poor Obstetric and Infant Outcomes in Human Immunodeficiency Virus-Infected Pregnant Women With Tuberculosis in South Africa: The Tshepiso Study
Nicole Salazar-Austin, Jennifer Hoffmann, Silvia Cohn, Fidah Mabashela, Ziyaad Waja, Sanjay Lala, Christopher Hoffmann, Kelly E. Dooley, Richard E. Chaisson, and Neil Martinson; for the TSHEPISO Study Team

This is the first prospective cohort study of human immunodeficiency virus and tuberculosis disease among pregnant women with widely available antiretroviral therapy. Even with appropriate treatment, pregnant women and infants remain at risk for poor obstetric, neonatal, and infant outcomes.

930 Is Placental Malaria a Long-term Risk Factor for Mild Malaria Attack in Infancy? Revisiting a Paradigm
Olivier Bouaziz, David Courtin, Gilles Cottrell, Jacqueline Milet, Gregory Nuel, and André Garcia

We aimed to determine if children born to mothers with placental malaria are more susceptible to malaria and remain at higher risk between birth and 18 months. From a public health point of view, protecting children born to infected placenta remains a priority.
BRIEF REPORT

959 Management of an Outbreak of *Exophiala dermatitidis* Bloodstream Infections at an Outpatient Oncology Clinic

INVITED ARTICLE

HEALTHCARE EPIDEMIOLOGY

970 Designing Surveillance of Healthcare-Associated Infections in the Era of Automation and Reporting Mandates
Maaike S. M. van Mourik, Eii N. Perencevich, Petra Gastmeier, and Marc J. M. Bonten

PHOTO QUIZ

977 An Enlarging Lung Nodule in an Immunocompromised Host
(Answer on pages 978–9.)

CORRESPONDENCE

980 Children With or Without Radiologically Confirmed Pneumonia: Does Etiology Play Any Role?
Cristiana Maria Nascimento-Carvalho

981 Vancomycin Is Ineffective in Eliminating Methicillin-Resistant *Staphylococcus aureus* Colonization of Respiratory Secretions in Ventilated Intensive Care Unit Patients: A Clinical and Pharmacokinetic Perspective
Burke A. Cunha and Cheston B. Cunha

982 Endocarditis Prophylaxis
Didier Raoult

982 Reply to Raoult
Xavier Duval, Sarah Millot, Catherine Chirotouze, Christine Salton-Suty, Vanessa Moby, Pierre Tattevin, Christophe Strady, Edouard Euvrard, Nelly Agrinier, Daniel Thomas, Bruno Hoen, and François Allia

983 Gender, Alcohol Use, and Fibrosis in Human Immunodeficiency Virus/Hepatitis C Virus–Coinfected Individuals
Issifou Yaya, Marie Costa, Fabienne Marcellin, Patrick Mialhès, Linda Wittkop, Dominque Salmon-Ceron, and Maria-Patrizia Carrieri; for the Agence Nationale de Recherches sur le Sida et les Hépatites virales B et C (ANRS) CO13 HEPAVIH (hepatitis + VIH [= HIV in French]) Study Group

ERRATA


985 Hanna et al [Clin Infect Dis 2016; 63(8):1122–9]