1 January News

In the Literature

ARTICLES AND COMMENTARIES

1 Using High-Technology to Enforce Low-Technology Safety Measures: The Use of Third-party Remote Video Auditing and Real-time Feedback in Healthcare
Donna Armellino, Erfan Hussain, Mary Ellen Schilling, William Senicola, Ann Eichorn, Yosef Dlugacz, and Bruce F. Farber

This manuscript reports on the use of 24/7 remote video auditing of hand hygiene compliance without and with feedback in a medical intensive care unit. The results demonstrate a sustained positive change in hand hygiene compliance.

8 Editorial Commentary: Big Brother is Washing... Video Surveillance for Hand Hygiene Adherence, Through the Lenses of Efficacy and Privacy
Tara N. Palmore and David K. Henderson

10 The Incidence of Necrotizing Changes in Adults With Pneumococcal Pneumonia
Anupam Pande, Saifullah Nasir, Adriana M. Rueda, Rebecca Matejowsky, Juan Ramos, Simit Doshi, Prathit Kulkarni, and Daniel M. Musher

Necrotizing changes in the lungs were seen in 6.6% of adults with pneumococcal pneumonia. Patients with necrosis were not more likely to have bacteremia or more severe disease. Type 3 pneumococcus was the most commonly identified serotype.

17 Boosting Heterosubtypic Neutralization Antibodies in Recipients of 2009 Pandemic H1N1 Influenza Vaccine
Chao Qiu, Yang Huang, Qian Wang, Di Tian, Wanju Zhang, Yunwen Hu, Zhenghong Yuan, Xiaoyan Zhang, and Jianqing Xu

Our data demonstrated that the inoculation with vaccine derived from the 2009 pandemic influenza raised vigorous neutralization antibodies against both cognate H1N1 and heterotypic influenza viruses. This observation has important implications for vaccine development.

25 Magnitude of Potential Biases in a Simulated Case-Control Study of the Effectiveness of Influenza Vaccination
Jill M. Ferdinands and David K. Shay

We assessed the magnitude of several types of bias in influenza vaccine effectiveness estimates by simulating a case-control study in children. Results suggested that these biases, taken together, tend to under- rather than overestimate true vaccine effectiveness.

33 Risk of Community-Acquired Pneumonia in Veteran Patients to Whom Proton Pump Inhibitors Were Dispensed
John A. Hermos, Melissa M. Young, Jennifer R. Fonda, David R. Gagnon, Louis D. Fiore, and Elizabeth V. Lawler

The association of proton pump inhibitor use and community-acquired pneumonia is studied to determine whether current exposure to proton pump inhibitors increased risks for community-acquired pneumonia and whether duration of proton pump inhibitor exposure and doses influenced risks.
Bronchiectasis Is Associated With Human T-Lymphotropic Virus 1 Infection in an Indigenous Australian Population

Lloyd Einsiedel, Liselle Fernandes, Tim Spelman, Daniel Steinfort, and Eduardo Gotuzzo

Nearly 60% of indigenous patients with bronchiectasis were human T-lymphotropic virus 1 (HTLV-1) infected. HTLV-1–infected patients were more likely to have diffuse disease, which was more often complicated by right heart failure, and had a higher disease-specific mortality.

Daptomycin Versus Vancomycin for Bloodstream Infections Due to Methicillin-Resistant Staphylococcus aureus With a High Vancomycin Minimum Inhibitory Concentration: A Case-Control Study

Carol L. Moore, Paola Osaki-Kiyan, Nadia Z. Haque, Mary Beth Perri, Susan Donabedian, and Marcus J. Zervos

Our report shows that daptomycin is associated with a better outcome for treatment of methicillin-resistant Staphylococcus aureus strains with higher vancomycin minimum inhibitory concentrations and that treatment with daptomycin is associated with a higher probability of survival at 60 days.

Editorial Commentary: Daptomycin for Methicillin-Resistant Staphylococcus aureus Bloodstream Infection and Elevated Vancomycin Minimum Inhibitory Concentrations: Has the Time Come?

Adam Weston and Helen W. Boucher

Prospective Observational Study of Chronic Rhinosinusitis: Environmental Triggers and Antibiotic Implications

Berrylin J. Ferguson, Masashi Narita, Victor L. Yu, Marilyn M. Wagener, and Jack M. Gwaltney Jr

Symptomatology is unreliable for diagnosis of chronic sinusitis. Antibiotics of prolonged duration should be avoided unless sinusitis is confirmed by computed tomography scan or nasal endoscopy is performed.

Editorial Commentary: Treatment of Chronic Rhinosinusitis With Antibiotics

Petri S. Mattila

Risk Factors for Staphylococcus aureus Postpartum Breast Abscess

Westyn Branch-Elliman, Toni H. Golen, Howard S. Gold, David S. Yassa, Linda M. Baldini, and Sharon B. Wright

Methicillin-resistant Staphylococcus aureus is emerging as a causative agent of breast abscess in the postpartum population. Risk factors for postpartum S. aureus breast abscess include being a mother employed outside the home and having breastfeeding difficulties identified in the hospital.

Impact of Maternal Postpartum Tetanus and Diphtheria Toxoids and Acellular Pertussis Immunization on Infant Pertussis Infection

Luis A. Castagnini, C. Mary Healy, Marcia A. Rench, Susan H. Wootton, Flor M. Munoz, and Carol J. Baker

Immunizing only postpartum mothers with tetanus and diphtheria toxoids and acellular pertussis (Tdap) vaccine in a predominantly Hispanic, medically underserved, uninsured population did not reduce pertussis illness in infants aged ≤6 months. Efforts should be directed at immunizing all contacts of newborns with Tdap vaccine.

Editorial Commentary: How Can We Best Prevent Pertussis in Infants?

Romina Libster and Kathryn M. Edwards

Prevalence of and Risk Factors for Hepatitis B Viremia After Spontaneous Hepatitis B Surface Antigen Seroclearance in Hepatitis B Carriers

Chia-Ming Chu and Yun-Fan Liaw

Severe Pulmonary Involvement in a Case Attributed to Domestically Acquired Seoul Hantavirus in the United States

Ingrid L. Roig, Daniel M. Musher, and David J. Tweardy

A 68-Year-Old Man With Follicular Lymphoma Presenting With Fever and Chills

(Answer on pages 148–9.)

REVIEWS OF ANTI-INFECTIVE AGENTS

Boceprevir and Telaprevir in the Management of Hepatitis C Virus–Infected Patients

Adeel A. Butt and Fasiha Kanwal

Blastocystis: To Treat or Not to Treat.

Christina M. Coyle, Julie Varughese, Louis M. Weiss, and Herbert B. Tanowitz

Uptake of Combination Antiretroviral Therapy and HIV Disease Progression According to Geographical Origin in Seroconverters in Europe, Canada, and Australia

Irma Jarrin, Nikos Pantazis, M. John Gill, Ronald Geskus, Santiago Perez-Hoyos, Laurence Meyer, Maria Prins, Giota Touloumi, Anne Johnson, Osamah Hamouda, Patricia Garcia de Olalla, Kholoud Porter, Julia del Amo, and CASCADE Collaboration in EuroCoord

In settings with universal access to healthcare, geographical origin does not seem to play a major role in human immunodeficiency virus disease progression.
119 Editorial Commentary: Access to Universal HIV Care and Prevention Services: Light at the End of a Long Tunnel?
Frederick K. Sawe

121 Comparison of the Early Fungicidal Activity of High-Dose Fluconazole, Voriconazole, and Flucytosine as Second-Line Drugs Given in Combination With Amphotericin B for the Treatment of HIV-Associated Cryptococcal Meningitis
Angela Layse, Douglas Wilson, Graeme Meintjes, Joseph N. Jarvis, Tihana Bicanic, Leesa Bishop, Kevin Rebe, Anthony Williams, Shabbar Jaffar, Linda-Gail Bekker, Robin Wood, and Thomas S. Harrison
We performed a phase 2 trial comparing the early fungicidal activity of high-dose fluconazole, voriconazole, and flucytosine as second-line drugs given in combination with amphotericin B for the treatment of human immunodeficiency virus–associated cryptococcal meningitis.

129 Editorial Commentary: Companion Drugs for Amphotericin B in Cryptococcal Meningitis: Flucytosine, Fluconazole, or…Nothing?
John Bennett

131 Incidence of HIV-1 Drug Resistance Among Antiretroviral Treatment–Naive Individuals Starting Modern Therapy Combinations
By use of simulations we imputed human immunodeficiency virus type 1 drug resistance incidence to protease inhibitor–based or nonnucleoside reverse-transcriptase inhibitor–based combination therapy. We found that novel drugs such as tenofovir or boosted atazanavir lead to less drug resistance, most likely because of better tolerability.

141 Patient Reported Outcomes in Routine Care: Advancing Data Capture for HIV Cohort Research
Michael S. Kozak, Michael J. Mugavero, Jiatao Ye, Inmaculada Aban, Sarah T. Lawrence, Christa R. Nevin, James L. Raper, Michael S. Kozak, Michael J. Mugavero, Jiatao Ye, Inmaculada Aban, Sarah T. Lawrence, Christa R. Nevin, James L. Raper

CORRESPONDENCE

150 Emergence of an Autochthonous and Community-Acquired NDM–1–Producing Klebsiella pneumoniae in Europe
Patrice Nordmann, Jean-Pierre Couard, Dominique Sansot, and Laurent Poirel

151 Unmasking Masks in Makkah: Preventing Influenza at Hajj
Harunor Rashid, Robert Booy, Leon Heron, Ziad A. Memish, Jonathan Nguyen-Van-Tam, Osamah Barasheed, and Elizabeth Haworth

153 Cryptococcus gattii Infection in Healthy Hosts: A Sentinel for Subclinical Immunodeficiency?
Kieren A. Marr, Kausik Datta, Liise-anne Pirofski, and Robert Barnes

154 Consumption of Street-Vended Beverage a Potential Exposure Risk for Non-O157 Enterohemorrhagic Escherichia coli Infection: The Importance of Testing for Virulence Loci
Jorge F. Cerna-Cortes, Wendy Vega-Negrete, Monica A. Ortega-Villegas, Mussaret B. Zaidi, and Teresa Estrada-García

155 Tuberculosis Incidence at the Burundi-Rwanda Border 15 Years After the Civil War
Lorenzo Guglielmetti, Angelo Cazzadori, Anna Scardigli, Romina Valentinotti, Michela Conti, and Ercole Concia

156 Need for Clinicopathologic Correlation of Clostridium difficile Colitis in View of Molecular Diagnosis
Jeannette Guerner and Colleen S. Kraft

ELECTRONIC ARTICLES

e1 Isolation of Sochi Virus From a Fatal Case of Hantavirus Disease With Fulminant Clinical Course
Tamara K. Ozagurova, Peter T. Witkowski, Evgeniy A. Tkachenko, Boris Klemper, Vyacheslav G. Morozov, Brita Auste, Dmitriy L. Zavora, Iulia V. Iunicheva, Elena S. Mutnih, and Detlev H. Kruger
Sochi virus, a novel genetic variant of Dobrava-Belgrade virus, was isolated in cell culture from a fulminant lethal case of hantavirus disease presenting with shock and combined kidney and lung failure. Sochi virus is transmitted to humans from host reservoir Apodemus ponticus and must be considered a life-threatening emerging agent.

e5 Post-Tsunami Outbreaks of Influenza in Evacuation Centers in Miyagi Prefecture, Japan
Masumitsu Hatta, Shiro Endo, Koichi Tokuda, Hiroyuki Kunishima, Kazuaki Arai, Hisakazu Yano, Norioomi Ishibashi, TetsujI Aoyagi, Mitsuro Yama, Shinya Inomata, Hajime Kanamori, Yoshiaki Gu, Mihoko Kitagawa, Yoichi Hirakata, and Mitsuo Kaku
We describe 2 post-tsunami outbreaks of influenza A in evacuation centers in Miyagi Prefecture, Japan, in 2011. Although containment of the outbreak was challenging in the evacuation settings, prompt implementation of a systemic approach with a bundle of control measures was important to control the influenza outbreaks.

The electronic articles listed above are freely available in this issue of Clinical Infectious Diseases online (http://cid.oxfordjournals.org/content/current).