i News

iii In the Literature

ARTICLES AND COMMENTARIES

979 Clinical and Microbiological Determinants of Infection After Transrectal Prostate Biopsy
Michael A. Liss, James R. Johnson, Stephen B. Porter, Brian Johnston, Connie Clabots, Kyle Gillis, Unwanaobong Nseyo, Marc Holder, Kyoko Sakamoto, and Joshua Fierer

Transrectal prostate biopsy infections are rising due to fluoroquinolone resistance. We provide evidence that the rectum harbors the bacteria needed for the clinical infection. Moreover, rectal culture may be a reliable tool to identify colonized men to provide prophylactic alternatives.

988 Editorial Commentary: Fluoroquinolone-Resistant Intestinal Organisms and Infections After Prostate Biopsy: Shifting Sands of the Prevention Narrative
Deepak Batura

990 Delay in Diagnosis of Invasive Surgical Site Infections Following Knee Arthroplasty Versus Hip Arthroplasty

The median time to diagnosis of surgical site infections following hip arthroplasty was significantly shorter than the median diagnostic time following knee arthroplasty. This difference was not fully explained by differences in patient age or pathogen virulence.

997 Randomized Trial of Micafungin for the Prevention of Invasive Fungal Infection in High-Risk Liver Transplant Recipients
Faouzi Saliba, Andreas Pascher, Olivier Cointault, Pierre-François Latere, Carlos Cervera, Jan J. De Waele, Umberto Cillo, Róbert M. Langer, Manuela Lugano, Bo Göran-Ericzon, Stephen Phillips, Lorraine Tweddle, Andreas Karas, Malcolm Brown, and Lutz Fischer; for the TENPIN (Liver Transplant European Study Into the Prevention of Fungal Infection) Investigators

In this randomized clinical trial comparing micafungin 100 mg with standard-care antifungal prophylaxis (fluconazole, liposomal amphotericin B, or caspofungin) in high-risk liver transplant patients, micafungin 100 mg was noninferior and had a better kidney safety profile.

1007 Whole-Genome Sequencing and Epidemiological Analysis Do Not Provide Evidence for Cross-transmission of Mycobacterium abscessus in a Cohort of Pediatric Cystic Fibrosis Patients
Kathryn A. Harris, Anthony Undervood, Dervla T. D. Kenna, Anthony Brooks, Ema Kavaliunaite, Georgia Kapatzi, Radjat Tewolde, Paul Aurora, and Garth Dixon

We have not been able to demonstrate cross-transmission of Mycobacterium abscessus within our hospital, except between siblings who had intense contact in the home environment. The role of the environment in the acquisition of M. abscessus infection requires further investigation.
1054 **Editorial Commentary: Women Who Have Sex With Women: A Unique Population for Studying the Pathogenesis of Bacterial Vaginosis**
Christina A. Muzny and Jane R. Schwebke

1057 **Genetic Analysis and Characterization of Wild Poliovirus Type 1 During Sustained Transmission in a Population With >95% Vaccine Coverage, Israel 2013**
Lester M. Shulman, Javier Martin, Danit Sofer, Cara C. Burns, Yossi Manor, Musa Hindiyeh, Eugene Gaviñon, Thomas Wilton, Jacob Morán-Gilad, Ronni Gamzo, Ella Mendelson, and Itamar Grotto; for the GPI (Genotype–Phenotype Identification) Group

This is a multifaceted investigation characterizing antigenic and neurovirulence properties of wild type 1 polioviruses isolated from sewage and stool samples during sustained silent circulation in Israel in 2013 in a highly vaccinated population with >90% inactivated polio vaccine coverage.

1065 **Editorial Commentary: Emerging Problems Impeding the Elimination of the Last Polioviruses: Silent Circulation of Wild Strains in a Well-Immunized Population**
Francis Delpeyroux and Florence Colbère-Garapin

**VIEWPOINTS**

1068 **Disseminated, Persistent, and Fatal Infection Due to the Vaccine Strain of Varicella-Zoster Virus in an Adult Following Stem Cell Transplantation**
Preeti Bhalla, Graeme N. Forrest, Michael Gershon, Yan Zhou, Jason Chen, Philip LaRussa, Sharon Steinberg, and Anne A. Gershon

Varicella vaccine is recommended for healthy individuals, including those 2 years following stem cell transplantation. We report on a patient who died with acyclovir-resistant vaccine type varicella-zoster virus. We advise caution and evaluation of immunocompetence before vaccination of such patients.

**BRIEF REPORTS**

1075 **Reduced Rotavirus Vaccine Effectiveness Among Children Born During the Rotavirus Season: A Pooled Analysis of 5 Case-Control Studies From the Americas**
Prasanna S. Premkumar, Umesh D. Parashar, Paul A. Gastanaduy, John P. McCracken, Lucia Helena de Oliveira, Daniel C. Payne, Manish M. Patel, Jacqueline E. Tate, and Ben A. Lopman

1079 **Epidemiological and Viral Genomic Sequence Analysis of the 2014 Ebola Outbreak Reveals Clustered Transmission**
Samuel V. Scarpino, Atitla Iamarino, Chad Wells, Dan Yamin, Murali Ndeffo-Mbah, Natasha S. Wenzel, Spencer J. Fox, Tolbert Nyenswah, Frederick L. Altice, Alison P. Galvani, Lauren A. Meyers, and Jeffrey P. Townsend

**PHOTO QUIZ**

1083 **Digestive Bleeding in a Georgian Liver Transplant Recipient**
(Answer on pages 1131–3.)
INVITED ARTICLES

1084 CLINICAL PRACTICE
Use of Telemedicine Technologies in the Management of Infectious Diseases: A Review
Parmvir Parmar, David Mackie, Sunil Varghese, and Curtis Cooper

Telemedicine-based care is highly regarded by patients, provides increased access to healthcare for isolated populations, and is effective for the evaluation and treatment of infectious diseases patients. Formal cost-effectiveness studies should be a priority.

1095 HEALTHCARE EPIDEMIOLOGY
A Consensus Development Conference Model for Establishing Health Policy for Surveillance and Screening of Antimicrobial-Resistant Organisms
Steve Buick, A. Mark Joffe, Geoffrey Taylor, and John Conly

Recommendation highlights from a consensus development conference addressing policy for surveillance and screening for antimicrobial-resistant organisms included developing a “One Health” strategy, pursuing and fully resourcing basic infection control practices, and focusing original research to determine what works.

HIV/AIDS

1102 The Clinical Role and Cost-Effectiveness of Long-Acting Antiretroviral Therapy
Eric L. Ross, Milton C. Weinstein, Bruce R. Schackman, Paul E. Sax, A. David Paltsiel, Rochelle P. Walensky, Kenneth A. Friedberg, and Elena Losina

Long-acting antiretroviral therapy (LA-ART) could improve survival of human immunodeficiency virus-infected patients, especially those with barriers to adherence and poor outcomes on daily antiretroviral therapy. The costs of future LA-ART regimens should likely play a substantial role in determining their application.

1111 Poorer Cognitive Performance in Perinatally HIV-Infected Children Versus Healthy Socioeconomically Matched Controls
Sophie Cohen, Jacqueline A. ter Stege, Gert J. Geurtsen, Henriette J. Scherpber, Taco W. Kuipers, Peter Reiss, Ben Schmand, and Dasja Pajkrt

Cognitive performance of clinically stable human immunodeficiency virus (HIV)-infected children was poorer compared with healthy, HIV-unaffected controls matched for age, sex, ethnicity, and socioeconomic status. The Centers for Disease Control and Prevention category at HIV diagnosis was negatively associated with verbal intelligence quotient.

1120 Trends in CD4 Count at Presentation to Care and Treatment Initiation in Sub-Saharan Africa, 2002–2013: A Meta-analysis
Mark J. Siedner, Courtney K. Ng, Ingrid V. Bassett, Ingrid T. Katz, David R. Bangsberg, and Alexander C. Tsai

During 2002–2013, neither CD4 count at presentation to care nor CD4 count at treatment initiation increased significantly in sub-Saharan Africa. Barriers to human immunodeficiency virus diagnosis and linkage to care continue to challenge the feasibility of guidelines recommending early treatment initiation.

CORRESPONDENCE

1134 Avoid Haste in Defining Human Muscular Sarcocystosis
Claire M. Italiano, Kum Thong Wong, Sazaly AbuBakar, Yee Ling Lau, Norlisah Ramli, Shanfah F. Syed Omar, and Chong Tin Tan

Reply to Italiano et al

1136 Surgical Site Infections and Postoperative Factors
E. Patchen Dellinger

Reply to Dellinger
Farrin Manian

1138 Severe Hemolysis as a Potential Contributing Factor in the Pathophysiology of Cerebral Malaria
Michael Eisenhut

Reply to Eisenhut
Estela Shabani, Gregory M. Vercellotti, and Chandy C. John

1139 Antibiotic Usage and the Development of Resistance
Prabhavathi Fernandes and David Oldach

BOOK REVIEW

1141 Innovations in HIV Prevention Research and Practice Through Community Engagement
Judy Levison

ERRATUM