Disclosures. All authors: No reported disclosures.

2309. Promoting Healthcare Worker (HCW) Use of Personal Protective Equipment in Pediatric Ambulatory Settings

Foladile Odeniyi, MPH; Samantha Hanley, BA; Lauren Gianchetti, BA; Anna Skatova, MPH; Lori Handy, MD; Susan E. Coffin, MD, MPH, FSHEA, FIDSA, FSHEA, FIDSA; and Kristen Feenster, MD, MPH, MHS

Infection Diseases, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, Department of Pediatrics, Division of Infectious Diseases, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, Center for Pediatric Clinical Effectiveness, Infectious Diseases Epidemiology and Antimicrobial Stewardship Research Group, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, Division of Infectious Diseases, Department of Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

Session: 246. Pediatric Healthcare Associated Infections
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Background. Existing Centers for Disease Control (CDC) and American Academy of Pediatrics (AAP) guidelines promote HCW personal protective equipment (PPE) use to prevent respiratory virus transmission in pediatric clinics; however, adherence to recommendations is inconsistent. We evaluated the effectiveness of two strategies designed to cue HCW use of PPE in a pediatric primary care clinic.

Methods. We implemented two HCW-focused interventions: (1) prompt for front desk respiratory symptom screen with placement of droplet signs on examination room door for symptomatic patients and (2) universal masking of healthcare workers during all patient encounters. Each intervention was implemented over a 2-week period and preceded by a washout period. We obtained caregiver report of HCW hand hygiene and mask use during patient encounters and measured differences in the proportion of behavior observed compared with washout periods.

Results. We obtained 217 caregiver reports of clinician handwashing and mask use before, during and after the patient encounter. There was no difference in nurse pre- or post-intervention hand hygiene behavior before and after each intervention (Baseline 65.9%: Droplet: 73.3%, P = 0.34; Universal masking: 68.7%, P = 0.28 and Baseline 53.3%: Droplet: 66.6%, P = 0.14; Universal masking: 55%, P = 0.85, respectively). There was also no difference in pre- or post-intervention MD hand hygiene behavior before and after each intervention: (Baseline 86.9%: Droplet: 77.8, P = 0.17; Universal masking: 85.7%: P = 0.92 and Baseline 75%: Droplet: 71.1, P = 0.62; Universal masking: 80%; P = 0.53, respectively). However, there was a significant difference in observed mask use during encounters among both RNs and MDs before and after each intervention: (Baseline 17.4%: Droplet: 44.6%, P < 0.05; Universal masking: 42.5%, P < 0.05 and Baseline: 20.6%: Droplet: 51.1%, P < 0.05; Universal masking: 62.5%, P < 0.05, respectively).

Conclusion. Respiratory symptom screening with visual prompts to use PPE and universal masking may not significantly impact hand hygiene behavior in a setting with high hand hygiene use but may increase mask use. Such interventions could provide a useful and low cost tool to help prevent the spread of respiratory viruses in primary care settings.

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2310. Reasons Pediatric Providers Obtain Endocardial Aspirate Cultures and How Results Inform Patient Management

Anna Sick-Samuels, MD, MPH; Jim Fackler, MD; Pranita Tamma, MD, MHS and Aaron M. Millstone, MD, MHS; Pediatrics, Johns Hopkins University School of Medicine, Baltimore, Maryland, Pediatric Anesthesiology and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, Maryland, Johns Hopkins University School of Medicine, Baltimore, Maryland, FIDSA, FSHEA, Pediatrics, The Johns Hopkins Medical Institutions, Baltimore, Maryland

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Background. Endocardial aspirate cultures (EACs) are commonly obtained in many PICUs. However, EACs cannot distinguish between bacterial colonization and infection, and may promote antibiotic overuse if collected in patients without clinical signs and symptoms of ventilator-associated infections (VAI). We examined clinician’s reasons to obtain EACs and whether the results informed clinical management.

Methods. We conducted a structured survey of nurse practitioners and physicians caring for ventilated children to inform a quality improvement initiative to optimize the use of EACs in the PICU at a tertiary care children's hospital. We assessed EACs obtained from patients mechanically ventilated for at least 24 hours from November 2017 to February 2018. This was a 2-part survey: part 1 conducted within 1–2 days after obtaining an EAC, part 2 conducted after EACs results were reported.

Results. 25 surveys were completed. Nearly half (44%) of EACs were obtained for isolated clinical signs of fever, hypotension, laboratory abnormalities, or ventilator increases and the remainder were obtained for a combination of reasons. Most EACs (60%) were collected as a “pan culture” with urine and blood cultures, and 92% of EACs had a previous EAC. At the time of ordering, providers thought the EAC would help with diagnosis of VAI (68%), antibiotic selection (80%), and believed it was very important for the patient’s management (60%). After results were available, 40% of patients were given a diagnosis of VAI. Antibiotic therapy was discontinued in 12% and modified in 16% based on the EAC results. Antibiotics were changed based on a different test in 52%, or unchanged in 20%. Of the patients with a prior EAC, 72% of EACs resulted in the same or fewer bacteria. On follow-up, 55% of the providers reported the EAC provide little to no value for the patient’s management.

Conclusion. A large proportion of EACs were obtained due to isolated changes in a patient’s clinical status and most EACs were obtained from patients who had prior EACs. Results were often similar to prior EAC results, infrequently led to changes in antibiotic selection and many providers did not find the results helpful. These findings suggest there is opportunity to standardize and reduce the use of EACs in the PICU.

Disclosures. All authors: No reported disclosures.

2311. Atypical Cat Scratch Disease Presentations

Ross Comisford, B.S.; Aliza Speth-Cook, B.S.; and Guliz Erdem, M.D.

Infectious Disease, Nationwide Children’s Hospital, Columbus, Ohio, Pediatrics, Nationwide Children’s Hospital and the Ohio State University School of Medicine, Columbus, Ohio

Session: 247. Pediatric Bacterial Infections
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Background. Cat scratch disease (CSD) is caused by B henselae, a Gram-negative intracellular bacillus which is transmitted to humans via cat bite/scratch. Typical CSD presentation includes prolonged fever. However, atypical presentations of cat scratch disease that have been reported including prolonged fever, absence of lymphadenopathy and systemic complications such as hepatosplenic disease, osteomyelitis, Parainal ocudular glandular syndrome, neuroretinitis, encephalitis, and bacillary angiomatosis among other rare presentations. The aim of this study was to review the frequency, presentation, and treatment outcomes of atypical CSD presenta-

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2312. Bordetella holmesii Bacteremia in Pediatric Patients: A Single-Center Experience

Sis Jin Ioo, MD; Cassie Grimsley-Ackley, MD; Andres Camacho-Gonzalez, MD, MSc; Preeti Jaggi, MD; and Mark Gonzalez, PhD, FIDSA

Division of Pediatric Infectious Diseases, Emory University School of Medicine, Atlanta, Georgia, Children’s Healthcare of Atlanta, Atlanta, Georgia

Session: 247. Pediatric Bacterial Infections
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Background. Bordetella holmesii is a respiratory pathogen, known to cause bacteremia predominantly among patients with functional or anatomical asplenia. Currently, there is no consensus on optimal treatment for B. holmesii bacteremia nor are there established interpretative criteria. This study aims to describe treatment of pediatric patients diagnosed with B. holmesii bacteremia, and treatment outcomes, in order to help establish an optimal therapeutic strategy.

Methods. We conducted a retrospective chart review of pediatric patients with microbiologically confirmed B. holmesii bacteremia at Children’s Healthcare of Atlanta, 2011–2018. We extracted demographic and clinical information of the iden-
tified patients from the medical record, and evaluated antimicrobial choice, hospital days, and modified in 16% based on the EAC results. Antibiotics were changed based on a different test in 52%, or unchanged in 20%. Of the patients with a prior EAC, 72% of EACs resulted in the same or fewer bacteria. On follow-up, 55% of the providers reported the EAC provided little to no value for the patient’s management.

Conclusion. A large proportion of EACs were obtained due to isolated changes in a patient’s clinical status and most EACs were obtained from patients who had prior EACs. Results were often similar to prior EAC results, infrequently led to changes in antibiotic selection and many providers did not find the results helpful. These findings suggest there is opportunity to standardize and reduce the use of EACs in the PICU.

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