

to withhold antibiotics for URI than APPs and nonpediatric providers (pediatricians 86.6(81.2, 90.6)%, nonpediatricians 80.8(73.0, 86.8)%, APPs 76.8(68.4, 83.5)%, $P < 0.0001$). Pediatricians were less likely to prescribe antibiotics for pharyngitis without a positive Group A *Streptococcus* test than APPs and nonpediatric providers (pediatricians 15.1(10.4, 21.6)%, nonpediatricians 29.4(20.8, 39.6)%, APPs 27.2(19.3, 36.9)%, $P < 0.0001$). First-line antibiotic prescribing for pharyngitis and AOM did not differ between provider specialties. A trend toward more guideline-concordant prescribing was seen for pharyngitis and sinusitis over the study period.

Conclusion. Pediatricians were more likely to adhere to guidelines for pediatric acute respiratory infections. Pediatric antibiotic stewardship efforts should also target non-pediatricians.

Disclosures. All authors: No reported disclosures.

2569. High Incidence of Enterovirus, HHV6, Parechovirus and Adenovirus Blood Viremia in Children 0 to 3 Years Old Presenting With Fever Without Source

Arnaud G. L'Huillier, MD¹; Chiara Mardegan, MD²; Samuel Cordey, PhD³; Fanny Luterbacher, MD⁴; Sebastien Papis, MD²; Florence Hugon, RN⁴; Laurent Kaiser, MD³; Alain Gervais, MD⁴; Klara Posfay-Barbe, MD, MS¹ and Annick Galetto-Lacour, MD⁴, ¹Pediatric Infectious Diseases Division, University Hospitals of Geneva, Geneva, Switzerland, ²Department of Paediatrics, University Hospitals of Geneva, Geneva, Switzerland, ³Laboratory of Virology, University Hospitals of Geneva, Geneva, Switzerland and ⁴Pediatric Emergency Medicine Division, University Hospitals of Geneva, Geneva, Switzerland

Session: 272. Pediatric Viral Infections

Saturday, October 6, 2018: 2:00 PM

Background. Fever without source (FWS) is defined as a fever in which an extensive history and clinical examination fail to identify a cause. Although the vast majority of children with FWS have a self-limited viral infection, up to 10–25% have a serious bacterial infection (SBI). Therefore, many children require invasive diagnostic tests, hospital admission, and empirical administration of broad-spectrum antibiotics. The aim of this study was to assess the respective role of Human enterovirus (HEV), human parechovirus (HPEV), adenovirus (ADV) and herpesvirus type 6 (HHV6) viremia in children <3 years old presenting with FWS.

Methods. Prospective monocentric diagnostic study. Between November 2015 to December 2017, children <3 year olds with FWS had, in addition to the standardized institutional work-up for FWS, plasma tested by real-time (reverse-transcription) polymerase chain reaction (PCR) for ADV, HHV6, HEV, and HPEV. Specimens with cycle threshold values <40 were considered positive. Quantification was performed on positive specimens for HEV, ADV, and HHV6 specimens when volume permitted.

Results. One hundred thirty-five patients had plasma PCR for ADV, HHV6, HEV, and HPEV. Male:female ratio was 1.45:1 and median age was 2.4 months (interquartile range 1.3–9.7). Among those, 47/135 (34.8%) had at least 1 virus detected in the plasma. More specifically, HEV was detected in 19 patients (14.1%), HHV6 in 15 (11.1%), HPEV in 8 (5.9%), and ADV in 7 (5.2%). Co-infection with 2 viruses was detected in 2 patients (ADV/HEV and ADV/HPEV). No patient with positive plasma PCR had a positive blood or CSF culture. Two patients with positive plasma PCR fulfilled American Academy of Pediatrics criteria for urinary tract infection. The first was HEV+ in plasma and CSF, midstream urine was positive for leukocytes and grew *E. coli* 10⁶ CFU/mL, whereas the second was HHV6+ in plasma and catheter urine was positive leukocytes/nitrites and grew *P. mirabilis* 10⁵ CFU/mL.

Conclusion. This epidemiological study highlights the frequent detection of active enteroviral, adenoviral, and HHV6 infections in plasma of children with FWS. Virus–virus and virus–bacteria co-infections are rare. Further studies are needed to establish causality between FWS and viremia.

Disclosures. A. G. L'Huillier, Gertrude Von Meissner foundation: Investigator, Research grant. Ernst and Lucie Schmidheiny foundation: Investigator, Research grant. Research and Development Grant, Geneva University Hospitals: Investigator, Research grant. L. Kaiser, Swiss National Funds: Investigator, Research grant. A. Galetto-Lacour, Gertrude Von Meissner foundation: Investigator, Research grant. Ernst and Lucie Schmidheiny foundation: Investigator, Research grant. Research and Development Grant, Geneva University Hospitals: Investigator, Research grant.

2570. HCV Screening Practices Among Adolescents and Young Adults in a National Sample of Federally Qualified Health Centers in the United States

Rachel L. Epstein, MD, MA¹; Jianing Wang, MSc²; Kenneth Mayer, MD³; Jon Puro, MPH/HA⁴; C. Robert Horsburgh, MD MUs⁵; Benjamin P. Linas, MD, MPH⁶ and Sabrina A. Assoumou, MD, MPH⁶, ¹Department of Pediatrics, Section of Pediatric Infectious Diseases, Boston Medical Center, Boston, Massachusetts, ²Internal Medicine, Section of Infectious Diseases, Boston Medical Center, Boston, Massachusetts, ³The Fenway Institute, Boston, Massachusetts, ⁴OCHIN, Inc., Portland, Oregon, ⁵Department of Epidemiology, Boston University School of Public Health, Boston, Massachusetts and ⁶Internal Medicine, Section of Infectious Diseases, Boston University School of Medicine, Boston, Massachusetts

Session: 272. Pediatric Viral Infections

Saturday, October 6, 2018: 2:00 PM

Background. The opioid crisis has been associated with an increase in hepatitis C virus (HCV) infections among 15–30 year olds. Federally Qualified Health Centers (FQHCs) provide comprehensive healthcare to diverse and underserved communities.

However, little is known about HCV screening practices among adolescents and young adults seen at FQHCs across the United States.

Objective. To characterize the continuum of HCV testing and care among adolescents and emerging adults in a large national sample of US FQHCs.

Methods. We used the OCHIN electronic medical record to create a retrospective cohort of 13 to 21 year olds who had a least 1 outpatient visit at any of 98 participating US FQHCs across 19 states from 2012 to 2017. Primary outcome was HCV testing during this timeframe. We also identified predictors of HCV screening using multivariable logistic regression adjusting for age, sex, race/ethnicity, and substance use.

Results. Among 269,287 youth who met inclusion criteria, 54.7% were female, 37.6% White, 33.5% Hispanic, 17.6% Black, and 11.3% other. Mean [SD] age at first HCV screening was 18.5 [2.2] years. Over the study period, 2.5% (6849/269,287) were tested for HCV and 153 (2.2%) had reactive HCV testing. Of those, 117 (76.5%) had confirmatory RNA testing and 65 (55.6%) had detectable RNA. Thirty-five percent (325/933) with ICD-9 codes for opioid-use disorder (OUD) and 8.9% (2080/23,345) with any ICD-9 code for drug use were tested for HCV. Only 10.6% (728/6,849) of individuals tested for HCV had also been tested for human immunodeficiency virus (HIV). Older age (19–21 vs. 13–15 years old at study end, aOR 5.64, 95% CI 5.13–6.19), Black race (aOR 1.88, 95% CI 1.76–2.00), and ICD-9 codes for substance-use disorder, in particular amphetamine (aOR 5.82, 5.10–6.64), opioids (aOR 3.50, 2.92–4.19), cocaine (aOR 2.90, 2.43–3.47), or cannabis (aOR 2.46, 2.31–2.62) were independently associated with HCV testing in multivariable analysis.

Conclusion. During the current opioid crisis, only a third of adolescents/young adults diagnosed with OUD in a large national sample of FQHCs were tested for HCV. In addition, only 10% of those tested for HCV were also screened for HIV. Initiatives are needed to increase HCV and HIV screening among at-risk youth at FQHCs.

Disclosures. All authors: No reported disclosures.

2571. Higher Rates of Hospitalization and Infection-Related Hospitalization Among HIV-Exposed Uninfected Infants Compared with HIV Unexposed Uninfected Infants in the United States

Sarah M. Labuda, MD, MPH¹; Yanling Huo, MS²; Deborah Kacanek, ScD³; Kunjal Patel, DSc, MPH⁴; Jennifer Jao, MD, MPH⁵; Krista Huybrechts, MS, PhD⁶; Sonia Hernandez-Diaz, MD, DrPH⁷; Ellen G. Chadwick, MD⁷; Gwendolyn Scott, MD⁸; Sandra Burchett, MD, MS⁹; Christiana Smith, MD, MS¹⁰; Fatima Kakkur, MD¹¹; Russell Van Dyke, MD, FIDSA¹² and Pediatric HIV/AIDS Cohort Study, ¹Tulane University School of Medicine, New Orleans, Louisiana, ²Center for Biostatistics in AIDS Research, Harvard T.H. Chan School of Public Health, Boston, Massachusetts, ³Harvard TH Chan School of Public Health, Boston, Massachusetts, ⁴Department of Epidemiology, Center for Biostatistics in AIDS Research, Harvard T.H. Chan School of Public Health, Boston, Massachusetts, ⁵Icahn School of Medicine at Mount Sinai, New York, New York, ⁶Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, ⁷Northwestern University Feinberg School of Medicine, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois, ⁸University of Miami, Miami, Florida, ⁹Boston Children's Hospital, Boston, Massachusetts, ¹⁰Pediatric Infectious Diseases, University of Colorado School of Medicine, Aurora, Colorado, ¹¹University of Montreal, Sainte-Justine Hospital Center, Montreal, QC, Canada and ¹²Tulane University Medical Center, New Orleans, Louisiana

Session: 272. Pediatric Viral Infections

Saturday, October 6, 2018: 2:00 PM

Background. Studies from multiple countries have suggested impaired immunity in perinatally HIV-exposed uninfected (HEU) children, with elevated rates of all-cause hospitalization and infections. We estimated the incidence of all-cause hospitalization and infection-related hospitalization in the first 2 years of life among HEU children and compared this with HIV-unexposed uninfected (HUU) children in the US. Among HEU children, we evaluated associations of maternal HIV disease-related factors during pregnancy with risk of infant hospitalization.

Methods. We evaluated HEU children enrolled in the Surveillance Monitoring for ART Toxicities (SMARTT) Study dynamic cohort of the Pediatric HIV/AIDS Cohort Study (PHACS) network who were born 2006–2017 and followed from birth. Data on HUU children were obtained from the Medicaid Analytic Extract database, restricted to states participating in SMARTT. We compared rates of first hospitalization, total hospitalizations, first infection-related hospitalization, total infection-related hospitalizations, and mortality between HEU and HUU children using Poisson regression. Among HEU children, multivariable Poisson regression models were fit to evaluate associations of maternal HIV factors with risk of hospitalization.

Results. Our analysis included 2,404 HEU and 3,605,864 HUU children. HEU children had approximately 2 times greater rates of first hospitalization, total hospitalizations, first infection-related hospitalization, and total infection-related hospitalizations compared with HUU children (figure). There was no significant difference in mortality. Among HEU children, maternal HIV disease factors, including viral load, CD4 count, antiretroviral regimen, and mode of HIV acquisition, were not associated with hospitalization rates.

Conclusion. Compared with HUU, HEU children in the United States have nearly twice the rate of hospitalization and infection-related hospitalization in the first 2 years of life, consistent with studies in other countries. Closer monitoring of HEU infants for infection and further elucidation of immune mechanisms is needed.