497. Experience with Remdesivir for Treatment of SARS-CoV-2 in Patients with Liver Cirrhosis
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Session: P-23. COVID-19 Special populations (e.g. pregnant women, children, immunocompromised, etc)
Background. Remdesivir is a nucleotide analogue antiviral that was FDA approved for the treatment of hospitalized patients with coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Remdesivir has been associated with elevations in serum aminotransferase levels but most cases being mild to moderate and reversible upon discontinuation. Although national COVID-19 guidelines and the American Association for the Study of Liver Diseases (AASLD) currently recommend remdesivir for use in hospitalized patients requiring supplemental oxygen, data is limited using remdesivir in patients with chronic liver disease. Here, we describe our experience with remdesivir in patients with liver cirrhosis.
Methods. Patients with liver cirrhosis who received remdesivir were identified either prospectively or retrospectively by primary or secondary ICD-10 codes indicating liver disease. Data collected included patient demographics, underlying cause of cirrhosis, co-morbidities, Child-Pugh score, laboratory values (serum aminotransferase levels, serum creatinine) during and following remdesivir, adverse reactions attributed to remdesivir, and mortality (in-hospital, 30-day, and 90-day).
Results. A total of 4 patients with underlying liver cirrhosis completed a 5-day course of remdesivir treatment. On admission, Child-Pugh class was A for 1 patient, B for 1 patient and C for 1 patient. Causes for cirrhosis were nonalcoholic steatohepatitis (NASH), hepatic amyloidosis, and chronic hepatitis B. There were no acute elevations in aminotransferase levels or adverse events attributed to remdesivir therapy. Mortality was high with 50% in-hospital mortality. Of the 2 other patients who survived to discharge, one was discharged to home hospice and the other was readmitted within 30 days and expired during that admission.
Conclusion. Since there is limited data available using remdesivir in patients with advanced liver disease, we did not identify any safety concerns related to remdesivir in our cirrhotic patients. Mortality was high illustrating the poor outcomes of patients with advanced liver disease and COVID-19. Patients with cirrhosis should be offered remdesivir if clinically appropriate.
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487. Characteristics Associated with SARS-CoV-2 Infection in Children
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Background. We sought to describe the range of Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) infection in children.
Methods. Patients < 18 years of age who had a positive nasopharyngeal polymerase chain reaction (PCR) for SARS-CoV-2 at a single health system in central Pennsylvania from 3/19/2020-12/31/2020 were identified. Using a random number generator, 150 additional patients < 18 years of age who had a negative PCR test were also identified. Asymptomatic patients and those without clinical data in the electronic medical record were excluded from analysis. Demographic characteristics, symptoms present at the time of testing, and outcomes were compared between PCR-positive and negative patients. Odds ratios were calculated using univariable and multivariable logistic regression models to patients with positive vs. negative PCR tests.
Results. We included 544 patients in analysis, 412 (76%) of which had a positive SARS-CoV-2 PCR. PCR-positive patients were statistically more likely to have a known contact, no comorbidities, and to present with cough, cold-like symptoms, headache, or loss of taste and smell. All patients who presented with loss of taste and smell were PCR positive at time of presentation. Positive patients were statistically less likely to present with fever or emesis than negative patients. Multivariable regression identified increased age, cough, cold symptoms, headache, and non-white race as predictive of PCR positivity. Patients who tested positive were statistically less likely to be admitted to the hospital and less likely to require respiratory support than negative patients.
Conclusion. Loss of taste and smell is a specific, though uncommon, indicator of SARS-CoV-2 infection in the pediatric population. Headache, cough, and cold-like symptoms are also suggestive of SARS-CoV-2 infection, while fever and gastrointestinal symptoms are less common. This data suggests that screening Questionnaires developed for adults may be less applicable in children. Future research, including more dedicated and prospective studies, is warranted to identify patients in whom a positive SARS-CoV-2 test is sufficiently likely to warrant isolation and testing.
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488. Comparison of Demographics and Clinical Characteristics of Multisystem Inflammatory Syndrome in Children and Kawasaki Disease
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Session: P-23. COVID-19 Special populations (e.g. pregnant women, children, immunocompromised, etc)
Background. Multisystem inflammatory syndrome in children (MIS-C) is an illness associated with recent SARS-CoV-2 infection or exposure. Kawasaki disease (KD), a vasculitis with an unknown etiology, has overlapping clinical presentation with MIS-C, making it difficult to distinguish between them. Therefore, we aimed to compare demographic, laboratory, and clinical characteristics between MIS-C and KD in hospitalized children in Nashville, TN.
Methods. We conducted a single-center retrospective chart review for hospitalized children under 18 years who met American Heart Association criteria for KD and were treated with intravenous immunoglobulin in May 2020 to December 2019, and children meeting the CDC criteria for MIS-C from July 2020 to May 2021. Data abstraction for patients’ demographics, clinical presentation, laboratory values and imaging results was performed. Pearson’s chi-squared test for categorical variables and Wilcoxon rank sum test for continuous variables, with alpha=0.05, were used to compare groups.
Results. A total of 603 KD and 52 MIS-C hospitalized patients were included. Children with MIS-C were older than those with KD. A higher frequency of male sex was noted in both groups, with no significant differences in race and ethnicity (Table). MIS-C children frequently presented with symptoms similar to KD (63.5% rash, 55.8% conjunctivitis, 28.9% mucous membrane changes); however, only one MIS-C patient met criteria for complete KD (Figure). Both MIS-C and KD children presented with elevated CRP and ESR, but the median value of CRP in MIS-C children was significantly higher (Table). In addition, white cell count was lower in MIS-C children, which is primarily driven by the lower absolute lymphocyte count in this group (0.9 vs 2.7, p = 0.001), and echocardiography was more likely to be abnormal at presentation compared to KD (Table).