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Title: Our objective was to evaluate the risk of UTI and bacteremia in with COVID-19 bronchiolitis

Abstract:

Objectives: Our objective was to evaluate the risk of UTI and bacteremia in with COVID-19 bronchiolitis.

Methods: This was a retrospective study from TriNetX database in the United States. This study was from January 2020 – January 2023 during the COVID-19 pandemic. Patients were included if they were less than or equal to 1 year of age, had a fever, bronchiolitis and a COVID-19 polymerase chain reaction (PCR) test one week before or after presentation to the Emergency Department (ED) or hospital. We compared outcomes of bacteremia, and UTI in those with bronchiolitis due COVID-19 and those without COVID-19. Propensity matching was done to account for the confounders of age, gender and race.

Results: There was a significant risk of having UTI if one did not have COVID bronchiolitis 2.2% versus those with COVID-19 bronchiolitis .0.8% (RR-0.37, 95% CI 0.30-.46, $p < .001$).

For bacteremia there was also an increased risk of UTI if the child did not have COVID-19 bronchiolitis 0.4% versus those with COVID-19 bronchiolitis 0.2% (RR=0.42 (0.26-.66)).

Conclusions: There is a low risk of UTI and bacteremia in young children with concomitant COVID-19 bronchiolitis.

Biography

Dr. Donna Mendez is a board certified Pediatrician as well as Pediatric Emergency Medicine Physician. She completed her pediatric residency at the University of Texas Health Science Center (UTHSC) in San Antonio, and a fellowship in Pediatric Emergency Medicine at University of Texas Southwestern in Dallas. She is the Director of the Pediatric Emergency Medicine fellowship. Her research focus is on head injury and medical education. Dr. Mendez is currently investigating Fast MRI for ventriculoperitoneal shunt malfunction. She is a HRSA grant reviewer and reviewer for Journal of Trauma, Pediatrics, and Journal of Advances in Health Sciences Education Reviewer. She has received her certificate in Medical Education Research and is presently obtaining her Doctorate in Professional Leadership with an emphasis in Health Science Education from the University of Houston.