

Introduction

- During the COVID-19 pandemic, dog adoption rates rose 9% from 2019 to 2020
- Children were spending more time at home due to stay-at-home orders and school closures
- Initial data from the first 6 to 10 months of the pandemic shows an increased incidence of pediatric dog bite injuries. It is unclear if this trend continued farther into the pandemic
- •**Objective**: To examine the incidence and characteristics of dog bites in 0-18-year-old children seen in a pediatric emergency department (PED) during the COVID-19 pandemic compared to before the pandemic

Methods

- Trauma Registry Data from the PED of a level 1 trauma center and its satellite PED was obtained and analyzed
- Inclusion Criteria:
 - 1. PED visit March 2018 through February 2022
 - 2. Age 0 to 18 years
 - 3. Discharge diagnosis of dog bite (ICD-10) W54.0XXA)
- Exclusion Criteria:
 - 1. Repeat visit for the same injury
 - 2. Left without being seen
- Two time periods studied:
 - 1) pre-pandemic (March 2018 through February 2020)
 - 2) during pandemic (March 2020 through February 2022)

The Effects of the COVID-19 Pandemic on Pediatric

Paul T. Menk, MD¹, E. Melinda Mahabee-Gittens, MD, PhD¹, Wendy J. Pomerantz, MD, MS¹ ¹University of Cincinnati College of Medicine, Cincinnati Children's Hospital Medical Center, Division of Emergency Medicine

There was an absolute increase in PED visits for dog bites as well as an increase in incidence during the COVID-19 pandemic

As stay at home orders lifted and social restrictions relaxed, dog bite injury rates returned to pre-pandemic levels

Higher rates of facial and injuries to multiple body parts, admissions, and need for operative management suggest injuries were more severe during the **COVID-19** pandemic

Pediatric providers should provide guidance on proper supervision of all child-dog interactions to prevent future injuries



Please scan the QR code for the full abstract

- pandemic (p<0.01)
- pandemic

- (p=0.02)

- U.S. and to:



Results

• The incidence rate during the pandemic significantly increased during the first year of the

• During the second year of the pandemic, the dog bite incidence rate was similar to rates before the

• No differences in age, sex, race, or ethnicity were observed between the two groups

• More patients with **private insurance** were seen during the pandemic than before (p<0.001)

Admission rates for dog bite injuries increased during the pandemic compared to before

• More dog bite injuries required **operative** management during the pandemic compared to prior to the pandemic (p=0.03)

Facial injuries and injuries to multiple body parts accounted for more of the pandemic dog bite injuries than pre-pandemic dog bite injuries

Future Research

• Larger, multi-center studies are needed to determine if these trends were seen across the

1) examine location of injury, dog ownership, and time and day of injury to better understand relationship between stay-athome orders and increased injuries 2) analyze the reasons for admission and operative management to improve dog bite management protocols