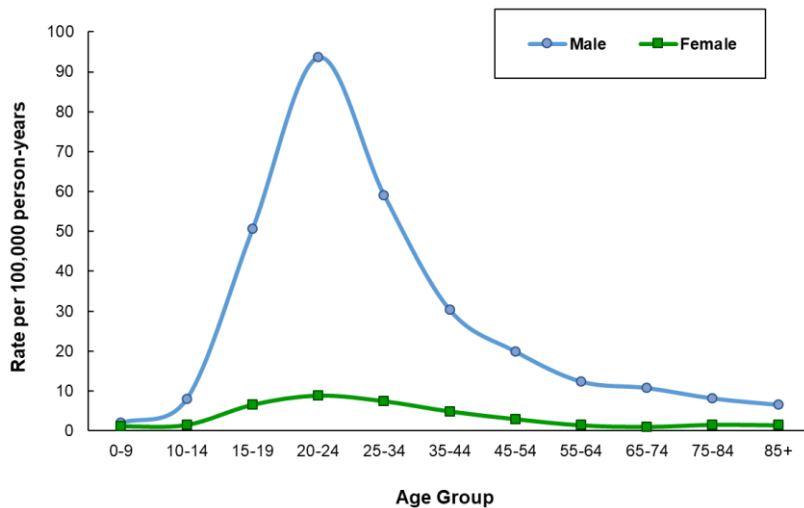


NORTH CAROLINA EMERGENCY DEPARTMENT VISITS DUE TO UNINTENTIONAL FIREARM-RELATED INJURIES, JANUARY 2012-SEPTEMBER 2015

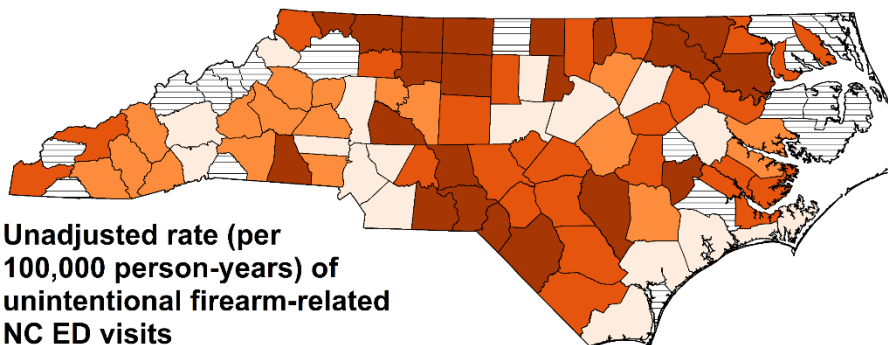
The North Carolina Disease Event Tracking and Epidemiologic Collection tool (NC DETECT) provides public health officials and hospital users with the capacity for statewide early event detection and timely public health surveillance. Through NC DETECT, users can access near real-time data from North Carolina acute care emergency departments (EDs), the Carolinas Poison Center (CPC), and the Pre-Hospital Medical Information System (PreMIS). NC DETECT data from ED visits have become increasingly important for the surveillance of injury morbidity in North Carolina. NC DETECT is funded by the NC Division of Public Health (NC DPH). **This document summarizes January 1, 2012- September 30, 2015 ED visits with an External Cause of Injury code (E-code) for an unintentional firearm-related injury.***

Unadjusted Rates of NC ED Visits Due to Unintentional Firearm-Related Injuries, Stratified by Sex and Age Group, January 2012-September 2015

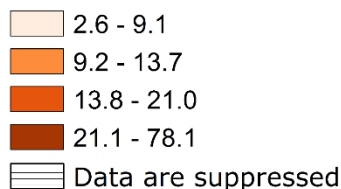


- During the years January 1, 2012-September 30, 2015, there were 10,085 ED visits for firearm-related injuries. Of these, 5,940 were of unintentional intent, at a rate of 15.9 ED visits per 100,000 person-years.
- Males were more likely to visit a NC ED for treatment of unintentional firearm-related injuries than females (28.9 versus 3.6 ED visits per 100,000 person-years, respectively).
- Young adults (visits per 100,000 person-years in parentheses) 20-24 years of age had the highest rate of NC ED visits due to unintentional firearm-related injuries (53.1), followed by individuals aged 25-34 (33.1), 15-19 (29.2), 35-44 (17.4) and 45-54 years of age (11.2).

Map of Unadjusted Rates of NC ED Visits Due to Unintentional Firearm-Related Injuries by Patient County of Residence, January 2012-September 2015



Unadjusted rate (per 100,000 person-years) of unintentional firearm-related NC ED visits



The five NC counties with the highest incidence rates of ED visits due to unintentional firearm-related injuries (visits per 100,000 person-years in parentheses) were Robeson (78.1), Scotland (62.5), Vance (57.8), Halifax (47.6), and Northampton (44.9) counties.

*For questions about the methods used to generate this fact sheet, please email ncdetect@listserv.med.unc.edu.

Selected Characteristics of NC ED Visits Due to Unintentional Firearm-Related Injuries
January 2012-September 2015

	Number	Percent
Mode of Transport		
Walk-in	2,238	47.4%
Ambulance	2,288	48.5%
Other	193	4.1%
Total	4,719	100.0%
Missing	1,221	
Disposition		
Discharged Home	3,796	66.9%
Admitted	923	16.3%
Transferred	626	11.0%
Left Against Medical Advice	49	0.9%
Left without Medical Advice	10	0.2%
Died	226	4.0%
Other	45	0.8%
Total	5,675	100.0%
Missing	265	
Expected Source of Payment		
Self-pay	2,445	44.6%
Medicaid	1,029	18.8%
Insurance Company	1,020	18.6%
Medicare	325	5.9%
Workers' Compensation	90	1.6%
Other Government Payments	130	2.4%
Other Type of Payment, Not Otherwise Specified	437	8%
Total	5,476	100.0%
Missing	464	
Total ED Visits	5,940	100.0%

WWW.NCDETECT.ORG

Heat Map of NC ED Visits Due to Unintentional Firearm-Related Injuries, Stratified by Day of Week and Time of Day, January 2012-September 2015

- Saturday had the highest proportion of NC ED visits due to unintentional firearm-related injuries (18.8%) by day of week.
- NC ED visits related to unintentional firearm injuries occurred most frequently during the evening hours of 6 PM – 11 PM (35.5%).

	12-5 AM	6-11 AM	12-5 PM	6-11 PM	Total
Monday	2.7%	2.2%	3.5%	4.9%	13.3%
Tuesday	2.5%	1.5%	3.1%	4.6%	11.7%
Wednesday	2.7%	2.1%	3.1%	4.7%	12.7%
Thursday	2.4%	1.4%	3.0%	5.2%	12.0%
Friday	3.0%	1.5%	3.3%	5.4%	13.2%
Saturday	6.4%	2.2%	4.2%	5.9%	18.8%
Sunday	6.7%	2.1%	4.7%	4.8%	18.3%
Total	26.5%	13.0%	25.0%	35.5%	100.0%



Source: Carolina Center for Health Informatics / <https://cchi.web.unc.edu> / Department of Emergency Medicine, University of North Carolina at Chapel Hill, 2018.
 NC Division of Public Health / www.publichealth.nc.gov / Injury Epidemiology & Surveillance Unit/ 919-707-5425
 NC Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) / www.ncdetect.org / 919-843-2361
 State of North Carolina / Department of Health and Human Services / www.ncdhhs.gov
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