



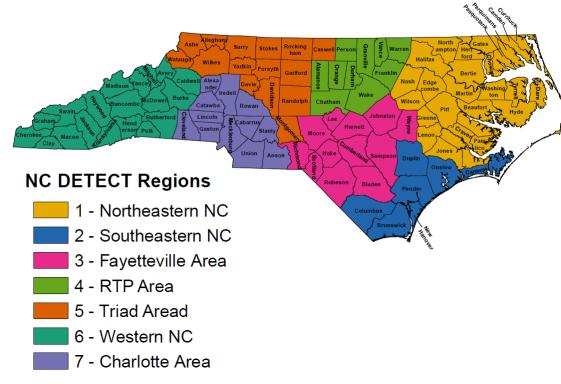
About the data

The heat-related illness data in the report is from NC DETECT. NC DETECT is a statewide public health syndromic surveillance system, funded by the NC Division of Public Health (NC DPH) Federal Public Health Emergency Preparedness Grant and managed through collaboration between NC DPH and the UNC-CH Department of Emergency Medicine's Carolina Center for Health Informatics. The NC DETECT Data Oversight Committee is not responsible for the scientific validity or accuracy of methodology, results, statistical analyses, or conclusions presented.

Climate data

The maximum heat index and minimum temperature data in this report are from the North Carolina State Climate Office. One weather station from each NC DETECT region was selected to represent the climate data for each region. The weather station locations and their corresponding regions are as follows:

The data in this report is summarized by NC DETECT Region.



Pitt-Greenville Airport (PGV) – Northeastern (NC DETECT Region 1), Wilmington International Airport (ILM) – Southeastern (NC DETECT Region 2), Fayetteville Regional Airport (FAY) – Fayetteville Area (NC DETECT Region 3), Raleigh-Durham International Airport (RDU) – RTP Area (NC DETECT Region 4), Smith Reynolds Airport (INT) – Triad Area (NC DETECT Region 5), Asheville Regional Airport (AVL) – Western Area (NC DETECT Region 6), Charlotte/Douglas International Airport (CLT) – Charlotte Area (NC DETECT Region 7)

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North Carolina Statewide Weekly Heat-related Illness Surveillance Report May 26-June 1, 2024

Females



Statewide Key Messages

The average weekly rate of heat-related illness (HRI) emergency department (ED) visits this season to date is 0.8 per 100,000 population.

This week (May 26-June 1, 2024):

- There were **111 HRI ED visits** (0.11% of total ED visits), with a **rate of 1.1 per 100,000 population**.
- The rate was highest among males aged 25-44 years (2.4 per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in the Southeastern NC) (1.6 per 100,000 population). (Figure 2; NC DETECT Region 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =38). (Table 1)
- The maximum heat index ranged from 77 to 95.4°F at Raleigh-Durham International Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age

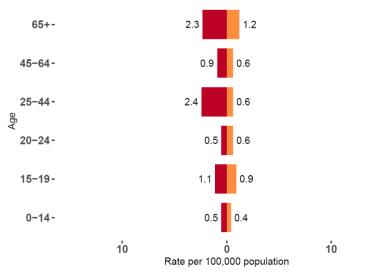
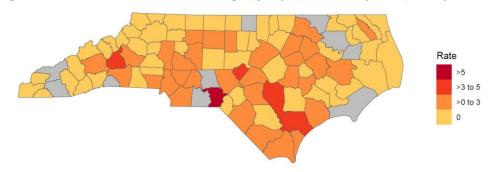


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population



Counties in gray have been suppressed for confidentiality due to small numbers

Table 1. Heat-related illness ED visits by Severity

Tuble 1: Heat related lilless Lb visits by Severity		
Severity§	Number (N =67 [‡])	Percent [†]
Heat Cramps	4	6
Heat Exhaustion	38	56.7
Heat Stroke	2	3
Heat Syncope	13	19.4
Other Effects	10	14.9

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data = 44
- † May not total 100 due to rounding

North Carolina Statewide Weekly Heat-related Illness Surveillance Report May 26-June 1, 2024



Figure 3. Emergency Department Visits for Heat-related Illness and Max Heat Index North Carolina: May 1 - June 01, 2024

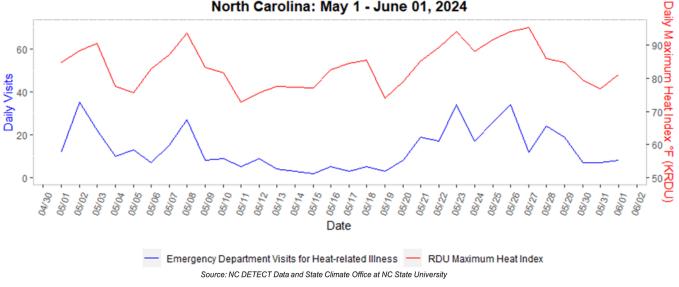
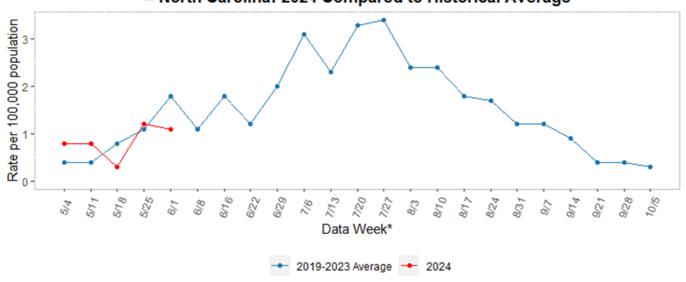


Figure 4. Rate of Emergency Department Visits for Heat Related Illness
-- North Carolina: 2024 Compared to Historical Average





North Carolina Weekly Heat-related Illness Surveillance Report: Northeastern NC (NC DETECT Region 1) May 26-June 1, 2024



Northeastern NC (NC DETECT Region 1) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 1.2 per 100,000 population.

This week (May 26-June 1, 2024):

- There were **12** HRI ED visits (0.1% of total ED visits), with a rate of **1.3 per 100,000 population.**
- The rate was highest among males aged 65+ years (5 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Pasquotank County (2.5 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =5). (Table 1)
- The maximum heat index ranged from 75.8 to 98.5°F at Pitt-Greenville Airport. (Figure 3)
- There were 0 days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age
Northeastern NC (NC DETECT Region 1)

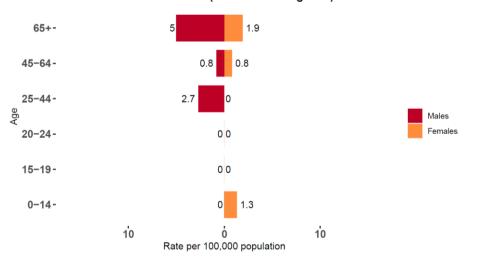
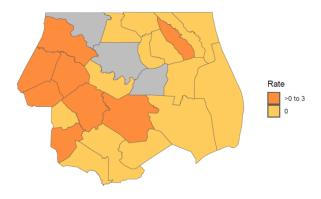
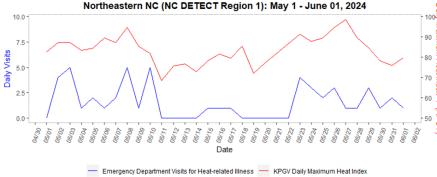


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Northeastern NC (NC DETECT Region 1)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index



Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Table 1: Heat related lilless ED visits by Severity			
Severity [§]	Number (N = 7‡)	Percent [†]	
Heat Cramps	1	14.3	
Heat Exhaustion	5	71.4	
Other Effects	1	14.3	

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data = 5
- † May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Southeastern NC (NC DETECT Region 2) May 26-June1, 2024



Southeastern NC (NC DETECT Region 2) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 1 per 100,000 population.

This week (May 26-June 1, 2024):

- There were 13 HRI ED visits (0.2% of total ED visits), with a rate of
 1.6 per 100,000 population.
- The rate was highest among males aged 25-44 years (4 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Pender County (4.9 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =4). (Table 1)
- The maximum heat index ranged from **77.5 to 98°F** at Wilmington International Airport. (Figure 3)
- There were **2** days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Southeastern NC (NC DETECT Region 2)

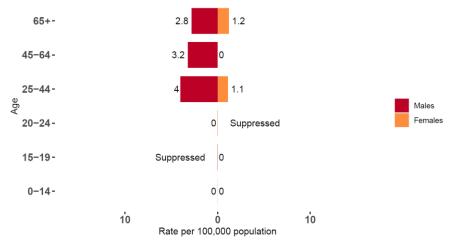
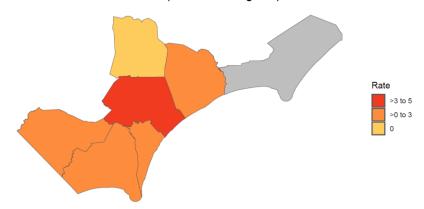


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Southeastern NC (NC DETECT Region 2)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index
Southeastern NC (NC DETECT Region 2): May 1 - June 01, 2024

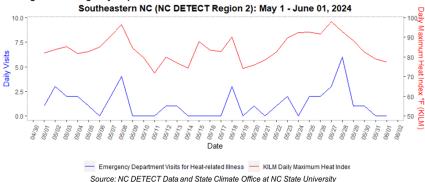


Table 1. Heat-related illness ED visits by Severity

Table 1: Heat related lilliess ED visits by Severity		
Severity§	Number (N = 6 [‡])	Percent [†]
Heat Exhaustion	4	66.7
Heat Syncope	1	16.7
Other Effects	1	16.7

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

‡ Missing severity data = 7

† May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Fayetteville Area (NC DETECT Region 3) May 26-June 1, 2024



Fayetteville Area (NC DETECT Region 3) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 1.1 per 100,000 population.

This week (May 26-June 1, 2024):

- There were 21 HRI ED visits (0.2% of total ED visits), with a rate of
 1.6 per 100,000 population.
- The rate was highest among males aged 25-44 years (3.4 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Richmond County (7 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat syncope (n =4). (Table 1)
- The maximum heat index ranged from **77.6 to 94.7°F** at Fayetteville Regional Airport. (Figure 3)
- There were 0 days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age
Fayetteville Area (NC DETECT Region 3)

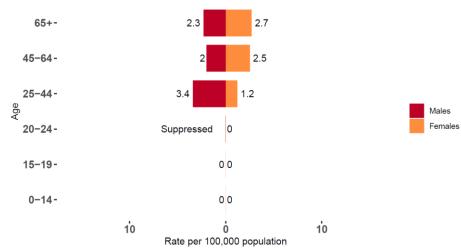
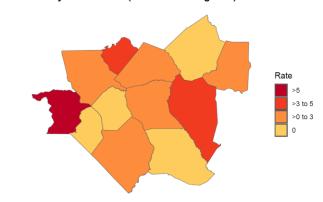
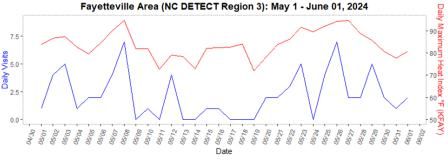


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Fayetteville Area (NC DETECT Region 3)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index



Emergency Department Visits for Heat-related Illness — KFAY Daily Maximum Heat Index Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 12 [‡])	Percent [†]	
Heat Cramps	1	8.3	
Heat Exhaustion	3	25	
Heat Stroke	1	8.3	
Heat Syncope	4	33.3	
Other Effects	3	25	

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data =9
- † May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: RTP Area (NC DETECT Region 4) May 26-June 1, 2024



RTP Area (NC DETECT Region 4) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 0.6 per 100,000 population.

This week (May 26-June 1, 2024):

- There were 11 HRI ED visits (0.1% of total ED visits), with a rate of
 0.5 per 100,000 population.
- The rate was highest among males aged 25-44 years (1.7 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Wake County (0.8 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat syncope (n =2). (Table 1)
- The maximum heat index ranged from 77 to 95.4°F at Raleigh-Durham International Airport. (Figure 3)
- There were 0 days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age RTP Area (NC DETECT Region 4)

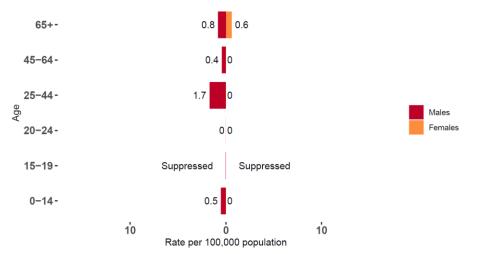
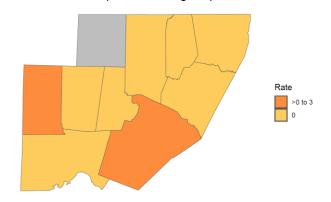
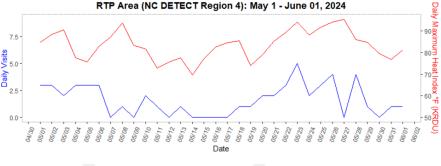


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population RTP Area (NC DETECT Region 4)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index



 Emergency Department Visits for Heat-related Illness
 KRDU Daily Maximum Heat Index Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Severity [§]	Number (N = 3 [‡])	Percent [†]
Heat Syncope	2	66.7
Other Effects	1	33.3

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data = 8
- † May not total 100 due to rounding



North Carolina Weekly Heat-Illness Surveillance Report: Triad Area (NC DETECT Region 5) May 26-June 1, 2024

Males Females



Triad Area (NC DETECT Region 5) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 0.8 per 100,000 population.

This week (May 26-June 1, 2024):

- There were 15 HRI ED visits (0.1% of total ED visits), with a rate of
 0.9 per 100,000 population.
- The rate was highest among males aged 65+ years (2.9 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in **Guilford County (1.7 per 100,000 population).** (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =6). (Table 1)
- The maximum heat index ranged from 74.3 to 88.3°F at Smith Reynolds Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Triad Area (NC DETECT Region 5)

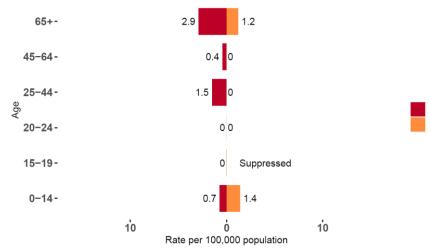
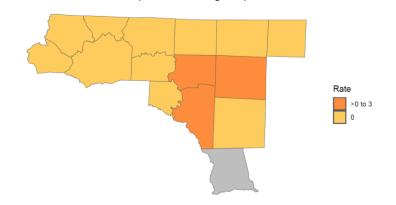


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population
Triad Area (NC DETECT Region 5)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index

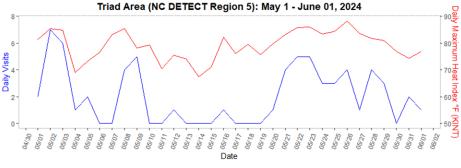


Table 1. Heat-related illness ED visits by Severity

Severity§	Number (N = 12 [‡])	Percent [†]	
Heat Cramps	2	16.7	
Heat Exhaustion	6	50	
Heat Syncope	2	16.7	
Other Effects	2	16.7	

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data = 3
- † May not total 100 due to rounding

North Carolina Weekly Heat-related Illness Surveillance Report: Western NC (NC DETECT Region 6) May 26-June 1, 2024



Western NC (NC DETECT Region 6) Key Messages

The average weekly rate of heat-related illness emergency department visits **this season to date is 0.4 per 100,000 population.**

This week (May 26-June 1, 2024):

- There were **8** HRI ED visits (0.1% of total ED visits), with a rate of **0.8 per 100,000 population**.
- The rate was highest among males aged 0-14 years (2.6 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in McDowell County (4.5 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =3). (Table 1)
- The maximum heat index ranged from 70.5 to 84°F at Asheville Regional Airport. (Figure 3)
- There were **0** days when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age
Western NC (NC DETECT Region 6)

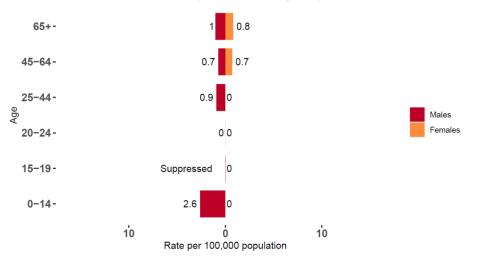
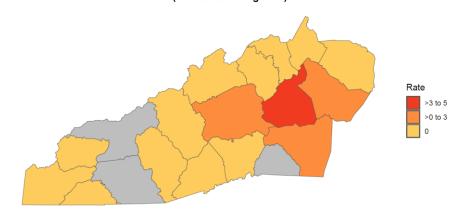


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Western NC (NC DETECT Region 6)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index
Western NC (NC DETECT Region 6): May 1 - June 01, 2024

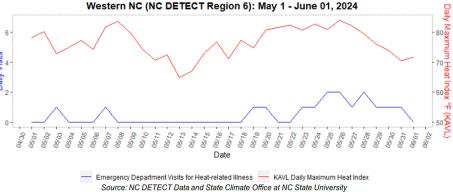


Table 1. Heat-related illness ED visits by Severity

Table 1. Heat-related illness ED visits by Severity			
Severity [§]	Number (N = 3 [‡])	Percent [†]	
Heat Exhaustion	3	100	

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data = 5
- † May not total 100 due to rounding



North Carolina Weekly Heat-related Illness Surveillance Report: Charlotte Area (NC DETECT Region 7) May 26-June 1, 2024



Charlotte Area (NC DETECT Region 7) Key Messages

The average weekly rate of heat-related illness emergency department visits this season to date is 0.9 per 100,000 population.

This week (May 26-June 1, 2024):

- There were 20 HRI ED visits (0.1% of total ED visits), with a rate of
 0.9 per 100,000 population.
- The rate was highest among males aged 25-44 years (1.7 HRI ED visits per 100,000 population). (Figure 1)
- The rate of HRI ED visits was highest in Iredell County (1.6 per 100,000 population). (Figure 2)
- The most frequent heat related diagnosis code was heat exhaustion (n =10). (Table 1)
- The maximum heat index ranged from 75.7 to 91°F at Charlotte/Douglas International Airport. (Figure 3)
- There was 1 day when the minimum temperature did not drop below 70°F.

Figure 1. Rate of Heat-Related Illness Emergency Department Visits by Sex and Age Charlotte Area (NC DETECT Region 7)

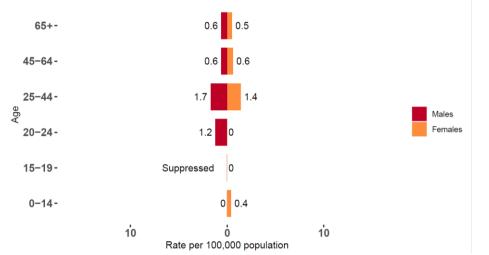
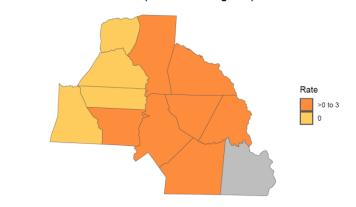
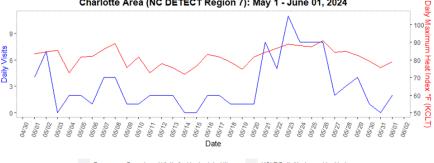


Figure 2. Rate of Heat-Related Illness Emergency Department Visits per 100,000 Population Charlotte Area (NC DETECT Region 7)



Counties in gray have been suppressed for confidentiality due to small numbers

Figure 3. Emergency Department Visits for Heat-related Illness and Maximum Heat Index Charlotte Area (NC DETECT Region 7): May 1 - June 01, 2024



Emergency Department Visits for Heat-related Illness — KCLT Daily Maximum Heat Index Source: NC DETECT Data and State Climate Office at NC State University

Table 1. Heat-related illness ED visits by Severity

Tuble 1: Heat related lilless ED visits by severity			
Severity§	Number (N = 15 [‡])	Percent [†]	
Heat Exhaustion	10	66.7	
Heat Syncope	4	26.7	
Other Effects	1	6.7	

§ Definitions of heat-related illness severity categories:

https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html

- **‡** Missing severity data = 5
- † May not total 100 due to rounding