

# **Injury Report 2022**

Wake County Health and Human Services
Public Health Report

Accredited
Health
Department
Department
Accredited
Health
Department
Accredited
Health
Department
Accredited
Health
Department
Accredited

Nannette M. Bowler, JD, Health and Human Services Director Rebecca A. Kaufman, MS, Public Health Director Editor-in chief: Morgan Poole, MPH, Field Epidemiology Program Director Content Editors: Katie LaWall, MPH, Senior Epidemiologist Marlene Kurt, Epidemiology Specialist



## **Table of Contents**

| 1.0 Overview  | 3  |
|---|----|
| 2.0 Leading Causes of Emergency Department (ED) Visits and Hospitalizations by Injury | 4  |
| 3.0 Leading Causes of Injury Deaths   | 6  |
| 4.0 Fall Deaths   | 7  |
| 5.0 Poisoning Deaths  | 8  |
| 6.0 Unintentional Overdose Deaths   | 9  |
| 6.1 The Wake County Drug Overdose Prevention Initiative                               | 12 |
| 7.0 Motor Vehicle Traffic (MVT) Deaths  | 12 |
| 8.0 Pedestrian /Automobile Crashes  | 13 |
| 9.0 Bicycle/Automobile Crashes  | 13 |
| 10.0 Acknowledgements   | 14 |

#### 1.0 Overview

Information about the many types of injuries is complex and is gathered from several data sources such as death certificates, medical examiner reports, law enforcement reports, hospital admissions and emergency department visits. This report describes injuries and their impact on the health of those who live, work, play, and learn in Wake County. Deaths are the most severe outcome from injuries but are the "tip of the iceberg" (Figure 1) when evaluating the burden of injuries. Many injuries are either treated by medical providers during outpatient visits and not reported or no medical treatment is sought for the injury. Thus, the total societal burden of injuries from all causes is unknown.

The term "intentional" is used to refer to injuries resulting from purposeful human action, whether directed at oneself or others. Intentional injuries include self-inflicted and interpersonal acts of violence intended to cause harm.

"Unintentional" is used to refer to injuries that were unplanned and can be defined as events in which:

- the injury occurs in a short period of time (seconds or minutes)
- a harmful outcome was not sought
- the outcome was the result of one of the forms of physical energy in the environment or normal body functions being blocked by external means (like drowning)<sup>1</sup>

This report analyzes the three leading causes of injury death in Wake County (motor vehicle traffic (MVT), falls, and poisonings). Similar to previous years, poisonings (unintentional) became the number one cause of injury death in 2021.

Figure 1



Source: Injury and Violence Prevention Branch, NC DHHS, 10/19/22

<sup>1</sup>Unintentional Injury, Maine Center for Disease Control and Prevention. Retrieved 10/19/22 from https://www.maine.gov/dhhs/mecdc//population-health/inj/unintentional.html

# 2.0 Leading Causes of Emergency Department (ED) Visits and Hospitalizations by Injury

Table 1 shows unintentional falls displaced unintentional motor vehicle traffic (MVT) injuries as the top cause of injury emergency department (ED) visits starting in 2019.

| Table 1: Top Five Causes of ED Visits by Injury (All Ages), Wake County, 2017-2021* |        |         |      |        |         |      |        |         |      |        |       |      |        |       |      |
|---|--------|---------|------|--------|---------|------|--------|---------|------|--------|-------|------|--------|-------|------|
|   | 2017   |         |      |        | 2018    |      | 2019   |         | 2020 |        |       | 2021 |        |       |      |
| Cause of Injury   | Cases  | Rate    | Rank | Cases  | Rate    | Rank | Cases  | Rate    | Rank | Cases  | Rate  | Rank | Cases  | Rate  | Rank |
| MVT -<br>Unintentional  | 11,195 | 1,044.1 | 1    | 11,789 | 1,079.3 | 1    | 11,876 | 1,068.2 | 2    | 8,833  | 780.1 | 2    | 9,968  | 880.4 | 2    |
| Fall -<br>Unintentional   | 9,843  | 918.0   | 2    | 11,655 | 1,067.0 | 2    | 11,892 | 1,069.7 | 1    | 10,274 | 907.4 | 1    | 11,009 | 972.3 | 1    |
| Natural/<br>Environmental-<br>Unintentional <sup>◊</sup>                            | 2,861  | 266.8   | 3    | 2,769  | 253.5   | 3    | 2,765  | 248.7   | 3    | 2,109  | 186.3 | 3    | 2,132  | 188.3 | 3    |
| Unspecified<br>Unintentional **   | -      | -       | -    | 1,858  | 170.1   | 4    | 1,912  | 172.0   | 4    | -      | -     | -    | -      | -     |      |
| Other Specified/<br>Unintentional*  | 1,911  | 178.2   | 4    | 1,847  | 169.1   | 5    | 1,788  | 160.8   | 5    | 1,645  | 145.3 | 4    | 1,625  | 143.5 | 4    |
| Poisoning -<br>Unintentional  | 1,242  | 115.8   | 5    | -      | -       | -    | -      | -       | -    | 1,202  | 106.2 | 5    | 1,473  | 130.1 | 5    |

Note: Rates per 100,000 Wake County residents.

<sup>\*2021</sup> data are provisional; data as of 9/21/2022. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/30/2022.

<sup>&</sup>lt;sup>6</sup>A "natural/environmental" injury is defined as an injury resulting from exposure to adverse natural and environmental conditions (such as severe heat, severe cold, lightning, sunstroke, large storms, and natural disasters) as well as lack of food or water. Source: <u>Definitions for WISQARS Nonfatal - NCIPC (cdc.gov)</u>, retrieved 10/19/22.

<sup>\*\*</sup> Intent established, but mechanism unclear or not documented.

<sup>\*</sup>An "other specified" injury is defined as an injury associated with any other specified cause that does not fit another category. Some examples include causes such as electric current, electrocution, explosive blast, fireworks, overexposure to radiation, welding flash burn, or animal scratch. Source: <a href="Definitions for WISOARS Nonfatal">Definitions for WISOARS Nonfatal</a> - NCIPC (cdc.gov), retrieved 10/19/22.

Table 2 shows that unintentional falls was the top cause of injury hospitalizations in Wake County from 2017 to 2021 by a substantial margin.

|                                | Table 2: Top Five Causes of Injury Hospitalizations by Injury (All Ages), Wake County, 2017-2021* |       |      |       |       |      |       |       |      |       |       |      |       |       |      |
|--------------------------------|---|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| Cause of<br>Injury             | 2017  |       |      |       | 2018  |      | 2019  |       | 2020 |       |       | 2021 |       |       |      |
|                                | Cases   | Rate  | Rank | Cases | Rate  | Rank | Cases | Rate  | Rank | Cases | Rate  | Rank | Cases | Rate  | Rank |
| Fall -<br>Unintentional        | 1,837   | 171.3 | 1    | 1,886 | 172.7 | 1    | 2,150 | 193.4 | 1    | 1,945 | 171.8 | 1    | 2,040 | 180.2 | 1    |
| MVT -<br>Unintentional         | 439   | 40.9  | 2    | 478   | 43.8  | 2    | 559   | 50.3  | 2    | 492   | 43.5  | 2    | 526   | 46.5  | 2    |
| Poisoning -<br>Unintentional   | 270   | 25.2  | 3    | 296   | 27.1  | 3    | 322   | 29.0  | 3    | 303   | 26.8  | 3    | 339   | 29.9  | 3    |
| Poisoning -<br>Self-Inflicted  | 227   | 21.2  | 4    | 218   | 20.0  | 4    | 241   | 21.7  | 4    | 197   | 17.4  | 4    | 221   | 19.5  | 4    |
| Fire/Burn -<br>Unintentional   | 157   | 14.6  | 5    | 182   | 16.7  | 5    | 185   | 16.6  | 5    | -     | -     | -    | -     | -     | -    |
| Unspecified -<br>Unintentional | -   | -     | -    | -     | -     | -    | -     | -     | -    | 156   | 13.8  | 5    | 146   | 12.9  | 5    |

Note: Rates per 100,000 Wake County residents 2021 data are provisional; data as of 9/21/2022

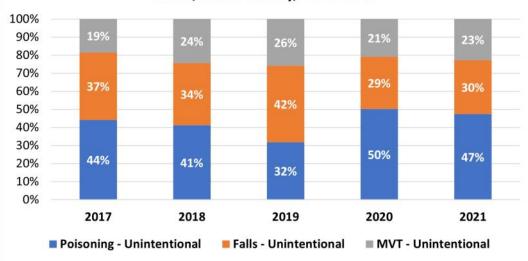
Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/30/22

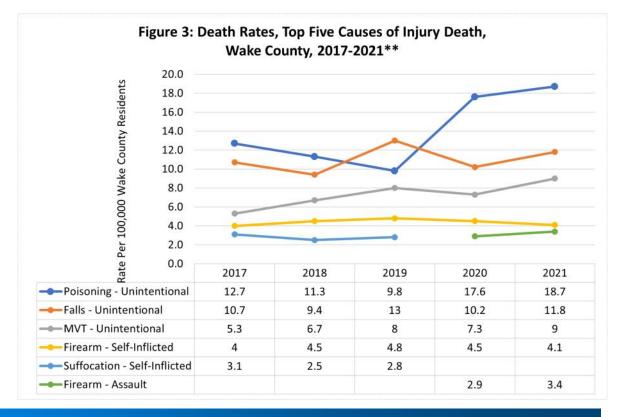
## 3.0 Leading Causes of Injury Deaths

As in previous years, the top three causes of injury death in Wake County have not changed. While unintentional falls represented the highest percentage of injury deaths in 2019, unintentional poisonings had the highest percentage in 2020 and 2021 (Figure 2).

Figure 3 shows the 2021 rankings for the top five causes of injury death in Wake County. While the rate of self-inflicted firearm deaths in Wake County slightly decreased in 2021, the other four top causes of injury deaths had slight increases in 2021.

Figure 2: Percentage of the Top Three Causes of Injury Death, Wake County, 2017-2021\*





<sup>\*</sup>Figure 2: 2021 data are provisional. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/21/22. \*\*Figure 3: 2021 data are provisional. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/21/22.

## 4.0 Fall Deaths

Table 3 shows there were 612 fall deaths in Wake County from 2017-2021. The 65+ age group led all age groups in the number of fall deaths, but their death rate remains stable in comparison to previous years. White non-Hispanics had the highest fall death rate among racial and ethnic groups, and females had a slightly higher rate of death from unintentional falls than males per 100,000.

| Table 3: Unintentional Fall Deaths,  Wake County, 2017-2021* |        |                                 |      |  |  |  |  |  |  |
|--|--------|---------------------------------|------|--|--|--|--|--|--|
|  | Number | Number Percent Rate per 100,000 |      |  |  |  |  |  |  |
| Sex  |        |                                 |      |  |  |  |  |  |  |
| Female   | 331    | 54.1                            | 11.6 |  |  |  |  |  |  |
| Male   | 281    | 45.9                            | 10.4 |  |  |  |  |  |  |
| Race/Ethnicity   |        |                                 |      |  |  |  |  |  |  |
| White (NH**)   | 535    | 87.4                            | 15.9 |  |  |  |  |  |  |
| Black (NH)   | 42     | 6.9                             | 3.7  |  |  |  |  |  |  |
| American Indian (NH)   | 0      | 0.0                             | 0.0  |  |  |  |  |  |  |
| Asian (NH)   | 11     | 1.8                             | 2.5  |  |  |  |  |  |  |
| Hispanic   | 24     | 3.9                             | 4.2  |  |  |  |  |  |  |
| Other (NH)/Unknown   | 0      | 0.0                             | 0.0  |  |  |  |  |  |  |
| Age Group  |        |                                 |      |  |  |  |  |  |  |
| 0-14   | 0      | 0.0                             | 0.0  |  |  |  |  |  |  |
| 15-24  | ***    | ***                             | ***  |  |  |  |  |  |  |
| 25-34  | 5      | 0.8                             | 0.6  |  |  |  |  |  |  |
| 35-44  | 8      | 1.3                             | 1.0  |  |  |  |  |  |  |
| 45-54  | 16     | 2.6                             | 2.0  |  |  |  |  |  |  |
| 55-64  | 34     | 5.6                             | 5.4  |  |  |  |  |  |  |
| 65+  | 546    | 89.2                            | 82.3 |  |  |  |  |  |  |
| Total  | 612    | 100                             | 11.0 |  |  |  |  |  |  |

<sup>\*2017-21</sup> data are provisional.

Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/21/22.

<sup>\*\*&</sup>quot;NH" = non-Hispanic ethnicity

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4.

## **5.0 Poisoning Deaths**

Table 4 shows that there were 779 unintentional poisoning deaths in Wake County from 2017-2021, a substantial increase (15.6%) from 2016-2020. Similar to previous years, males (74.8%), white non-Hispanics (69.5%), and people ages 25-54 (73.2%) had the highest percentages of unintentional poisoning deaths. Notably, the black non-Hispanic poisoning death rate increased by 37.4% from 2016-2020 to 2017-2021.

| Table 4: Unintentional Poisoning Deaths, Wake County, 2017-2021* |        |         |                  |  |  |  |  |
|--|--------|---------|------------------|--|--|--|--|
|  | Number | Percent | Rate per 100,000 |  |  |  |  |
| Sex  |        |         |                  |  |  |  |  |
| Female   | 196    | 25.2    | 6.9              |  |  |  |  |
| Male   | 583    | 74.8    | 21.6             |  |  |  |  |
| Race/Ethnicity**   |        |         |                  |  |  |  |  |
| White (NH)   | 541    | 69.5    | 16.1             |  |  |  |  |
| Black (NH)   | 191    | 24.5    | 16.7             |  |  |  |  |
| American Indian (NH)   | ***    | ***     | ***              |  |  |  |  |
| Asian (NH)   | 7      | 0.9     | 1.6              |  |  |  |  |
| Hispanic   | 34     | 4.4     | 5.9              |  |  |  |  |
| Other (NH)/Unknown   | 5      | 0.6     | -                |  |  |  |  |
| Age Group  |        |         |                  |  |  |  |  |
| 0-14   | ***    | ***     | ***              |  |  |  |  |
| 15-24  | 94     | 12.1    | 12.9             |  |  |  |  |
| 25-34  | 257    | 33.0    | 31.3             |  |  |  |  |
| 35-44  | 184    | 23.6    | 22.3             |  |  |  |  |
| 45-54  | 129    | 16.6    | 16.4             |  |  |  |  |
| 55-64  | 90     | 11.6    | 14.2             |  |  |  |  |
| 65+  | 24     | 3.1     | 3.6              |  |  |  |  |
| Total  | 779    | 100     | 14.1             |  |  |  |  |

<sup>\*2017-2021</sup> data are provisional. \*\*"NH" means non-Hispanic ethnicity.

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/21/22

#### 6.0 Unintentional Overdose Deaths

Table 5 shows that the overall cocaine overdose death rate increased by 18.1% from 2016-2020 to 2017-2021. Black non-Hispanics continue to be disproportionately represented among cocaine deaths. During 2017-2021, black non-Hispanics died from cocaine overdoses at over double the rate of white non-Hispanics and more than five times the rate of Hispanics. Additionally, males died from cocaine overdoses at a dramatically higher rate than females.

| Table 5: Cocaine Overdose Deaths,<br>Wake County, 2017-2021* |     |      |      |  |  |  |  |  |
|--|-----|------|------|--|--|--|--|--|
| Number Percent Rate per 100,0                                |     |      |      |  |  |  |  |  |
| Sex  |     |      |      |  |  |  |  |  |
| Female   | 59  | 20.6 | 2.1  |  |  |  |  |  |
| Male   | 228 | 79.4 | 8.5  |  |  |  |  |  |
| Race/Ethnicity**   |     |      |      |  |  |  |  |  |
| White (NH)   | 153 | 53.3 | 4.5  |  |  |  |  |  |
| Black (NH)   | 117 | 40.8 | 10.2 |  |  |  |  |  |
| American Indian (NH)   | 0   | 0.0  | 0.0  |  |  |  |  |  |
| Asian (NH)   | *** | ***  | ***  |  |  |  |  |  |
| Hispanic   | 11  | 3.8  | 1.9  |  |  |  |  |  |
| Other (NH)/Unknown   | *** | ***  | ***  |  |  |  |  |  |
| Age Group  |     |      |      |  |  |  |  |  |
| 0-14   | 0   | 0.0  | 0.0  |  |  |  |  |  |
| 15-24  | 22  | 7.7  | 3.0  |  |  |  |  |  |
| 25-34  | 95  | 33.1 | 11.6 |  |  |  |  |  |
| 35-44  | 68  | 23.7 | 8.2  |  |  |  |  |  |
| 45-54  | 55  | 19.2 | 7.0  |  |  |  |  |  |
| 55-64  | 41  | 14.3 | 6.5  |  |  |  |  |  |
| 65+  | 6   | 2.1  | 0.9  |  |  |  |  |  |
| Total  | 287 | 100  | 5.2  |  |  |  |  |  |

The heroin overdose death rate decreased slightly by 7.4% from 2016-2020 to 2017-2021. Males died at a much higher rate than females and white non-Hispanics died at a higher rate than other racial/ethnic groups (Table 6).

| Table 6: Heroin Overdose Deaths,<br>Wake County, 2017-2021* |        |                             |     |  |  |  |  |
|---|--------|-----------------------------|-----|--|--|--|--|
|   | Number | Number Percent Rate per 100 |     |  |  |  |  |
| Sex   |        |                             |     |  |  |  |  |
| Female  | 38     | 20.3                        | 1.3 |  |  |  |  |
| Male  | 149    | 79.7                        | 5.5 |  |  |  |  |
| Race/Ethnicity**  |        |                             |     |  |  |  |  |
| White (NH)  | 142    | 75.9                        | 4.2 |  |  |  |  |
| Black (NH)  | 32     | 17.1                        | 2.8 |  |  |  |  |
| American Indian (NH)  | ***    | ***                         | *** |  |  |  |  |
| Asian (NH)  | ***    | ***                         | *** |  |  |  |  |
| Hispanic  | 10     | 5.4                         | 1.7 |  |  |  |  |
| Other (NH)/Unknown  | 0      | 0.0                         | 0.0 |  |  |  |  |
| Age Group   |        |                             |     |  |  |  |  |
| 0-14  | 0      | 0.0                         | 0.0 |  |  |  |  |
| 15-24   | 23     | 12.3                        | 3.1 |  |  |  |  |
| 25-34   | 66     | 35.3                        | 8.0 |  |  |  |  |
| 35-44   | 54     | 28.9                        | 6.6 |  |  |  |  |
| 45-54   | 28     | 15.0                        | 3.6 |  |  |  |  |
| 55-64   | 13     | 7.0                         | 2.0 |  |  |  |  |
| 65+   | ***    | ***                         | *** |  |  |  |  |
| Total   | 187    | 100                         | 3.4 |  |  |  |  |

Table 5 and Table 6:

<sup>\*2021</sup> data are provisional.

<sup>\*\*&</sup>quot;NH" means non-Hispanic ethnicity.

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/22/22.

Table 7 shows other synthetic narcotic (e.g. fentanyl) overdose deaths increased by 29.1% from 2016-2020 to 2017-2021. Subgroups that saw substantial increases in death rates were males, black non-Hispanics, and people ages 25-44.

Table 7: Other Synthetic Narcotic Overdose Deaths, Wake County, 2017-2021\* Rate per Number Percent 100,000 Sex Female 130 24.0 4.6 Male 15.2 411 76.0 Race/Ethnicity\*\* White (NH) 376 69.5 11.2 Black (NH) 134 24.8 11.7 American Indian (NH) 0 0.0 0.0 Asian (NH) \*\*\* \*\*\* \*\*\* Hispanic 23 4.3 4.0 Other (NH)/ \*\*\* \*\*\* \*\*\* Unknown **Age Group** 0-14 0 0.0 0.0 15-24 80 14.8 11.0 25-34 199 36.8 24.3 35-44 24.6 16.1 133 45-54 79 14.6 10.1 55-64 7.6 6.5 41 65+ 1.7 1.4 Total 541 100 9.8

Table 8 shows that males and white non-Hispanics had a higher percentage of overdose deaths due to commonly prescribed opioids (oxycodone, hydrocodone, morphine, etc.) than their counterparts (females and other races/ethnicities) between 2017-2021.

| Table 8: Commonly Prescribed Opioid Overdose<br>Deaths, Wake County, 2017-2021* |        |         |                     |  |  |  |  |
|---|--------|---------|---------------------|--|--|--|--|
|   | Number | Percent | Rate per<br>100,000 |  |  |  |  |
| Sex   |        |         |                     |  |  |  |  |
| Female  | 41     | 28.1    | 1.4                 |  |  |  |  |
| Male  | 105    | 71.9    | 3.9                 |  |  |  |  |
| Race/Ethnicity**  |        |         |                     |  |  |  |  |
| White (NH)  | 115    | 78.8    | 3.4                 |  |  |  |  |
| Black (NH)  | 25     | 17.1    | 2.2                 |  |  |  |  |
| American Indian (NH)  | 0      | 0.0     | 0.0                 |  |  |  |  |
| Asian (NH)  | ***    | ***     | ***                 |  |  |  |  |
| Hispanic  | ***    | ***     | ***                 |  |  |  |  |
| Other (NH)/Unknown  | ***    | ***     | ***                 |  |  |  |  |
| Age Group   |        |         |                     |  |  |  |  |
| 0-14  | ***    | ***     | ***                 |  |  |  |  |
| 15-24   | 12     | 8.2     | 1.6                 |  |  |  |  |
| 25-34   | 44     | 30.1    | 5.4                 |  |  |  |  |
| 35-44   | 36     | 24.7    | 4.4                 |  |  |  |  |
| 45-54   | 28     | 19.2    | 3.6                 |  |  |  |  |
| 55-64   | 22     | 15.1    | 3.5                 |  |  |  |  |
| 65+   | ***    | ***     | ***                 |  |  |  |  |
| Total   | 146    | 100     | 2.6                 |  |  |  |  |

<sup>\*2021</sup> data are provisional.

<sup>\*2021</sup> data are provisional.

<sup>\*\*&</sup>quot;NH" means non-Hispanic ethnicity.

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/22/22.

<sup>\*\*&</sup>quot;NH" means non-Hispanic ethnicity.

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/22/22.

Table 9 shows the death rate for psychostimulant overdoses (including methamphetamine) increased 82.3% from 2016-2020 to 2017-2021. Males and white non-Hispanics represented most psychostimulant deaths.

| Table 9: Psy<br>Wal  |        | lant Overd<br>, 2017-202 |                  |
|----------------------|--------|--------------------------|------------------|
|                      | Number | Percent                  | Rate per 100,000 |
| Sex                  |        |                          |                  |
| Female               | 16     | 21.3                     | 0.6              |
| Male                 | 59     | 78.7                     | 2.2              |
| Race/Ethnicity**     |        |                          |                  |
| White (NH)           | 60     | 80.0                     | 1.8              |
| Black (NH)           | 10     | 13.3                     | 0.9              |
| American Indian (NH) | 0      | 0.0                      | 0.0              |
| Asian (NH)           | ***    | ***                      | ***              |
| Hispanic             | ***    | ***                      | ***              |
| Other (NH)/Unknown   | 0      | 0.0                      | 0.0              |
| Age Group            |        |                          |                  |
| 0-14                 | 0      | 0.0                      | 0.0              |
| 15-24                | 7      | 9.3                      | 1.0              |
| 25-34                | 25     | 33.3                     | 3.0              |
| 35-44                | 26     | 34.7                     | 3.2              |
| 45-54                | 11     | 14.7                     | 1.4              |
| 55-64                | 5      | 6.7                      | 0.8              |
| 65+                  | ***    | ***                      | ***              |
| Total                | 75     | 100                      | 1.4              |

Tables 9 and 10:

Table 10 shows that, while males still represented the large majority, females had a relatively high percentage of benzodiazepine deaths between 2017-2021 when compared to other drug death categories. Benzodiazepines are a class of psychoactive drugs that depress brain activity and are used to treat conditions such as anxiety, insomnia, and seizures.

| Table 10: Benzodiazepine Overdose Deaths, Wake County, 2017-2021* |        |         |                     |  |  |  |  |
|---|--------|---------|---------------------|--|--|--|--|
|   | Number | Percent | Rate per<br>100,000 |  |  |  |  |
| Sex   |        |         |                     |  |  |  |  |
| Female  | 45     | 30.8    | 1.6                 |  |  |  |  |
| Male  | 101    | 69.2    | 3.7                 |  |  |  |  |
| Race/Ethnicity**  |        |         |                     |  |  |  |  |
| White (NH)  | 123    | 84.3    | 3.7                 |  |  |  |  |
| Black (NH)  | 17     | 11.6    | 1.5                 |  |  |  |  |
| American Indian (NH)  | 0      | 0.0     | 0.0                 |  |  |  |  |
| Asian (NH)  | ***    | ***     | ***                 |  |  |  |  |
| Hispanic  | 5      | 3.4     | 0.9                 |  |  |  |  |
| Other (NH)/Unknown  | 0      | 0.0     | 0.0                 |  |  |  |  |
| Age Group   |        |         |                     |  |  |  |  |
| 0-14  | 0      | 0.0     | 0.0                 |  |  |  |  |
| 15-24   | 20     | 13.7    | 2.7                 |  |  |  |  |
| 25-34   | 54     | 37.0    | 6.6                 |  |  |  |  |
| 35-40   | 30     | 20.6    | 3.6                 |  |  |  |  |
| 45-54   | 24     | 16.4    | 3.1                 |  |  |  |  |
| 55-64   | 15     | 10.3    | 2.4                 |  |  |  |  |
| 65+   | ***    | ***     | ***                 |  |  |  |  |
| Total   | 146    | 100     | 2.6                 |  |  |  |  |

<sup>\*2021</sup> data are provisional.

<sup>\*\*&</sup>quot;NH" means non-Hispanic ethnicity.

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/22/22.

## **6.1 The Wake County Drug Overdose Prevention Initiative**

This section reflects the cumulative efforts of the Drug Overdose Prevention Initiative between January 1, 2018, and June 30, 2022.

Serving as a state leader, the hybrid Rapid Responder Post Overdose Response Team (PORT) facilitates recovery from substance use disorders and provides creative and effective risk reduction to our most vulnerable populations. The initiative has permanent funding for post overdose recovery and harm-reduction services.

2300 individuals have been served by this program between January 1, 2018 and June 30, 2022. The Rapid Responder staff employ an interdisciplinary approach to care planning. Each client is assessed for common risks associated with the use of street drugs, social barriers to health, readiness and willingness to work toward a substance free life and co-occurring physical and mental health problems.

The staff has referred 971 individuals to rehabilitation services as well as paraprofessional Mutual Aid programs. Transportation services are provided to those who have difficulty getting to their medication-assisted treatment (MAT) providers.

Individuals who are at high risk for recurrent overdoses are supplied with Narcan, Fentanyl Test Reagents and instructed in the use of both.

Over 35% of the engaged clients remain connected with their Peer Support Staff for over one year. The project staff plan to provide first aid and CPR training to the unsheltered community in 2023.

## 7.0 Motor Vehicle Traffic (MVT) Deaths

Table 11 shows that during 2017-2021, males, Black non-Hispanics, and the 65+ age group had the highest MVT death rates per 100,000.

| Table 11: Motor Vehicle Traffic Deaths, Wake County, 2017-2021* |        |         |                     |  |  |  |  |
|---|--------|---------|---------------------|--|--|--|--|
|   | Number | Percent | Rate per<br>100,000 |  |  |  |  |
| Sex   |        |         |                     |  |  |  |  |
| Female  | 116    | 28.7    | 4.1                 |  |  |  |  |
| Male  | 288    | 71.3    | 10.7                |  |  |  |  |
| Race/Ethnicity**  |        |         |                     |  |  |  |  |
| White (NH)  | 184    | 45.5    | 5.5                 |  |  |  |  |
| Black (NH)  | 152    | 37.6    | 13.3                |  |  |  |  |
| American Indian (NH)  | ***    | ***     | ***                 |  |  |  |  |
| Asian (NH)  | 11     | 2.7     | 2.5                 |  |  |  |  |
| Hispanic  | 50     | 12.4    | 8.7                 |  |  |  |  |
| Other (NH)/<br>Unknown  | 6      | 1.5     | -                   |  |  |  |  |
| Age Group   |        |         |                     |  |  |  |  |
| 0-14  | 17     | 4.2     | 1.6                 |  |  |  |  |
| 15-24   | 68     | 16.8    | 9.3                 |  |  |  |  |
| 25-34   | 70     | 17.3    | 8.5                 |  |  |  |  |
| 35-44   | 61     | 15.1    | 7.4                 |  |  |  |  |
| 45-54   | 54     | 13.4    | 6.9                 |  |  |  |  |
| 55-64   | 53     | 13.1    | 8.3                 |  |  |  |  |
| 65+   | 81     | 20.1    | 12.2                |  |  |  |  |
| Total   | 404    | 100     | 7.3                 |  |  |  |  |

<sup>\*2021</sup> data are provisional.

<sup>\*\*&</sup>quot;NH" means non-Hispanic ethnicity.

<sup>\*\*\*</sup> Number, percentage, and rate suppressed for counts between 1-4. Source: NC DHHS DPH, Injury and Violence Prevention Branch, 9/22/22.

## 8.0 Pedestrian/Automobile Crashes

Table 12 shows that crash deaths decreased in 2021; the only categories with slight increases in 2021 were "Possible Injury" and "Unknown Injury".

Table 12: Pedestrian\* Crash Data by Crash Severity, Wake County, 2017-2021 2017 2018 2019 2020 2021 **Total** 22 12 17 26 16 93 Killed **Suspected Serious** 42 33 32 54 45 206 Injury **Suspected Minor** 122 112 149 154 109 646 Injury 110 129 142 88 90 559 Possible Injury 48 35 44 42 32 201 No Injury \*\* \*\* \*\* 5 0 8 **Unknown Injury** 339

417

313

281

1713

**Grand Total** 

Source: Special report prepared by NC Department of Transportation (DOT) for Wake County, 10/11/22.

363

## 9.0 Bicycle/Automobile Crashes

Table 13 shows that overall bicycle crash injuries increased in 2021 and the number of deaths was similar to 2020 and 2017 (between 1-4).

| Table 13: Bicycle* Crash Data by Crash Severity, |      |      |      |      |      |   |  |  |  |  |
|--|------|------|------|------|------|---|--|--|--|--|
| Wake County, 2017-2021                           |      |      |      |      |      |   |  |  |  |  |
|  | 2017 | 2018 | 2019 | 2020 | 2021 | 1 |  |  |  |  |
| 1211 - 1   | **   | 0    | 0    | **   | **   | Π |  |  |  |  |

|                             | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-----------------------------|------|------|------|------|------|-------|
| Killed                      | **   | 0    | 0    | **   | **   | 6     |
| Suspected Serious<br>Injury | 6    | 11   | 7    | 7    | 9    | 40    |
| Suspected Minor<br>Injury   | 49   | 41   | 42   | 31   | 40   | 203   |
| Possible Injury             | 31   | 32   | 31   | 21   | 32   | 147   |
| No Injury                   | 12   | 20   | 13   | 15   | 15   | 75    |
| Unknown Injury              | **   | 0    | 0    | **   | 0    | **    |
| <b>Grand Total</b>          | 101  | 104  | 93   | 78   | 97   | 473   |

<sup>\*</sup> Data shows all bicycle crashes (occurring both on a roadway and elsewhere).

Source: Special report prepared by NC Department of Transportation (DOT) for Wake County, 10/11/22.

<sup>\*</sup>Data shows all pedestrian crashes (occurring both on a roadway and elsewhere).

<sup>\*\*</sup>Number suppressed for counts between 1-4.

<sup>\*\*</sup> Number suppressed for counts between 1-4.

## 10.0 Acknowledgements

Daniel Carter, NC Department of Transportation

Ty Lautenschlager, NC DHHS, Division of Public Health, Injury and Violence Prevention Branch
Jeffrey Halbstein-Harris, WCHHS, Drug Overdose Prevention Initiative
Mary Beth Cox, NC DHHS, Division of Public Health, Injury and Violence Prevention Branch
Shana Geary, NC DHHS, Division of Public Health, Injury and Violence Prevention Branch
Michelle Ricci, WCHHS, Public Health Division