



## HEAT-ASSOCIATED DEATHS & EMERGENCY DEPARTMENT VISITS 2024 REPORT

In an effort to keep Clark County residents and visitors aware of heat associated illness and mortality, the Southern Nevada Health District (SNHD) has developed this report detailing heat associated deaths and emergency department (ED) visits for 2024. The Centers for Disease Control and Prevention (CDC) defines extreme heat as reaching higher than average temperatures or humidity levels for a particular location and time of year. Heat-related illness occurs when a person’s body temperature rises faster than it can cool down, which may lead to heat exhaustion or heat stroke, ultimately damaging the brain or other vital organs. Older adults, the very young, and those with mental illness or chronic disease have the highest risk of heat-related illness. However, anyone can be affected if participating in strenuous physical exercise in hotter weather. As of November 26<sup>th</sup> 2024, there were 475 heat associated deaths in 2024, a 60% increase compared to the 296 heat associated deaths in 2023. Out of these 475 deaths, 23% were identified as non-Clark County residents. A total of 3539 heat related ED visits were recorded, with the peak for both ED visits and deaths occurring in the month of July.

Figure 1. Heat-associated deaths in Clark County by week, 2024

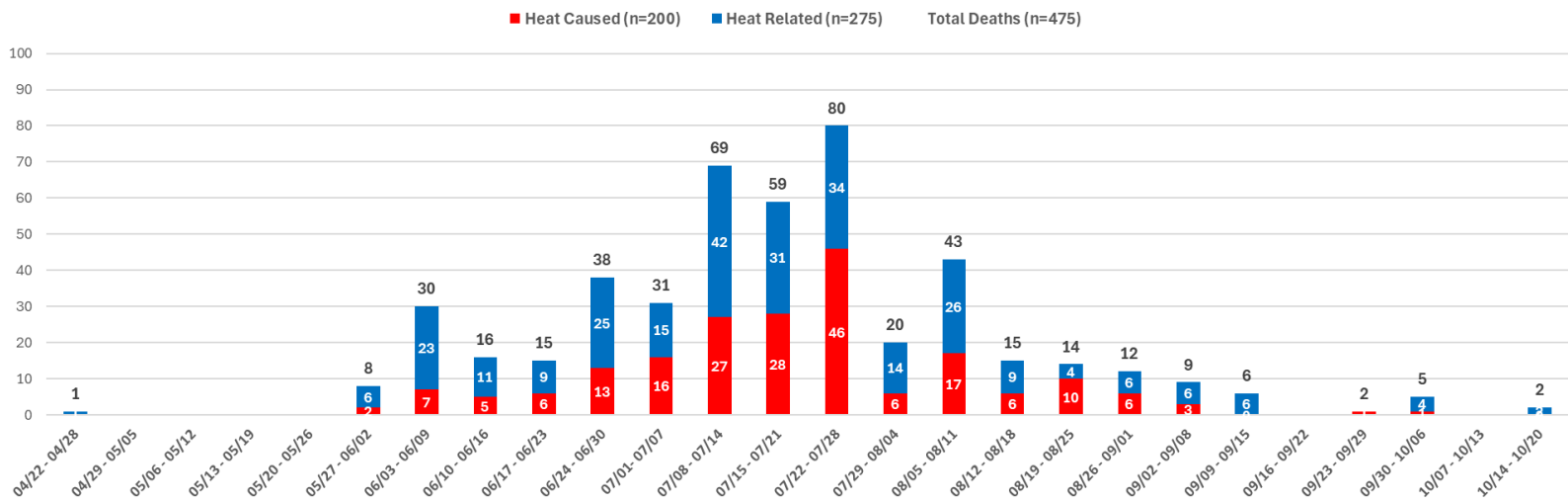


Figure 2. Age-adjusted mortality rate of heat-associated deaths in Clark County by year, 2020 – 2024

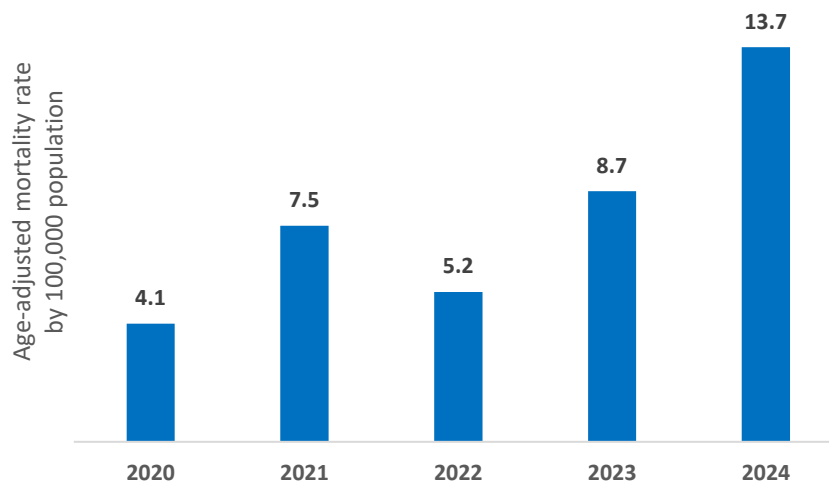


Figure 3. Percentage of heat-associated deaths in Clark County by Gender, 2024

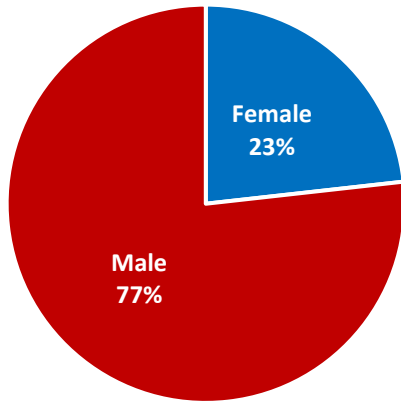


Figure 4. Percent of heat-associated deaths in Clark County by age group, 2024

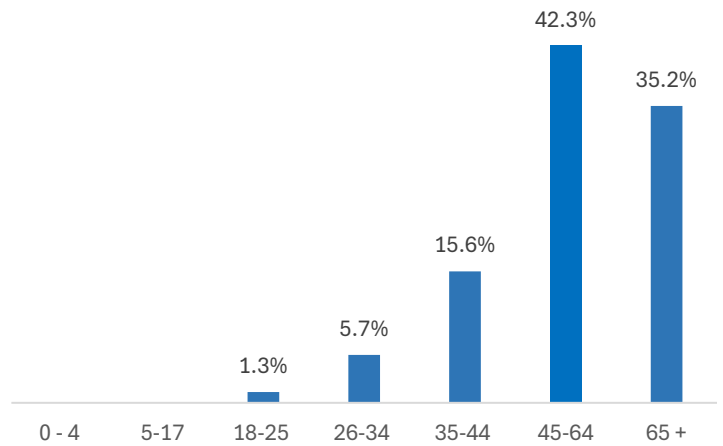


Table 2. Heat-associated deaths in Clark County by Race, 2024

| Race/Ethnicity |                                | Count | % of Deaths |
|----------------|--------------------------------|-------|-------------|
| Non-Hispanic   | White                          | 266   | 56.0%       |
|                | Black                          | 108   | 22.7%       |
|                | Asian/Pacific Islander         | 19    | 4.0%        |
|                | American Indian/Alaskan Native | < 5   |             |
|                | Multi-racial                   | 11    | 2.3%        |
|                | Other                          | < 10  |             |
| Hispanic       |                                | 52    | 10.9%       |
| Unknown        |                                | 10    | 2.1%        |

\*Race and Hispanic origin are reported separately on death certificates. People of Hispanic origin may be of any race. For this table, non-Hispanic individuals are classified by race.

Figure 5. Heat-associated deaths in Clark County and Involvement of substances, 2024

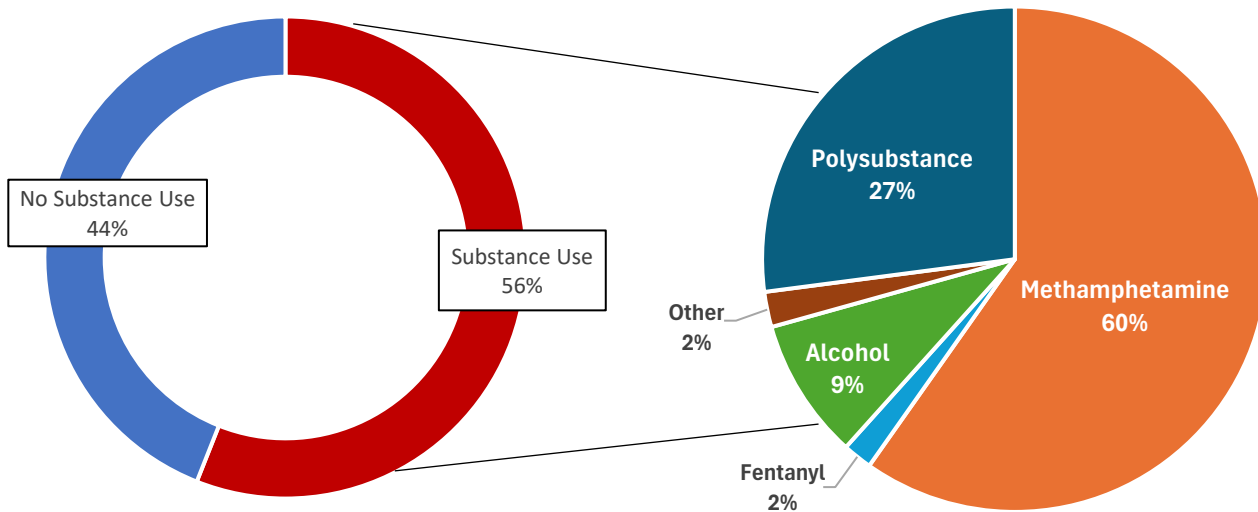


Figure 6. Daily count of heat-associated deaths due to heat-related illness in Clark County, 2024

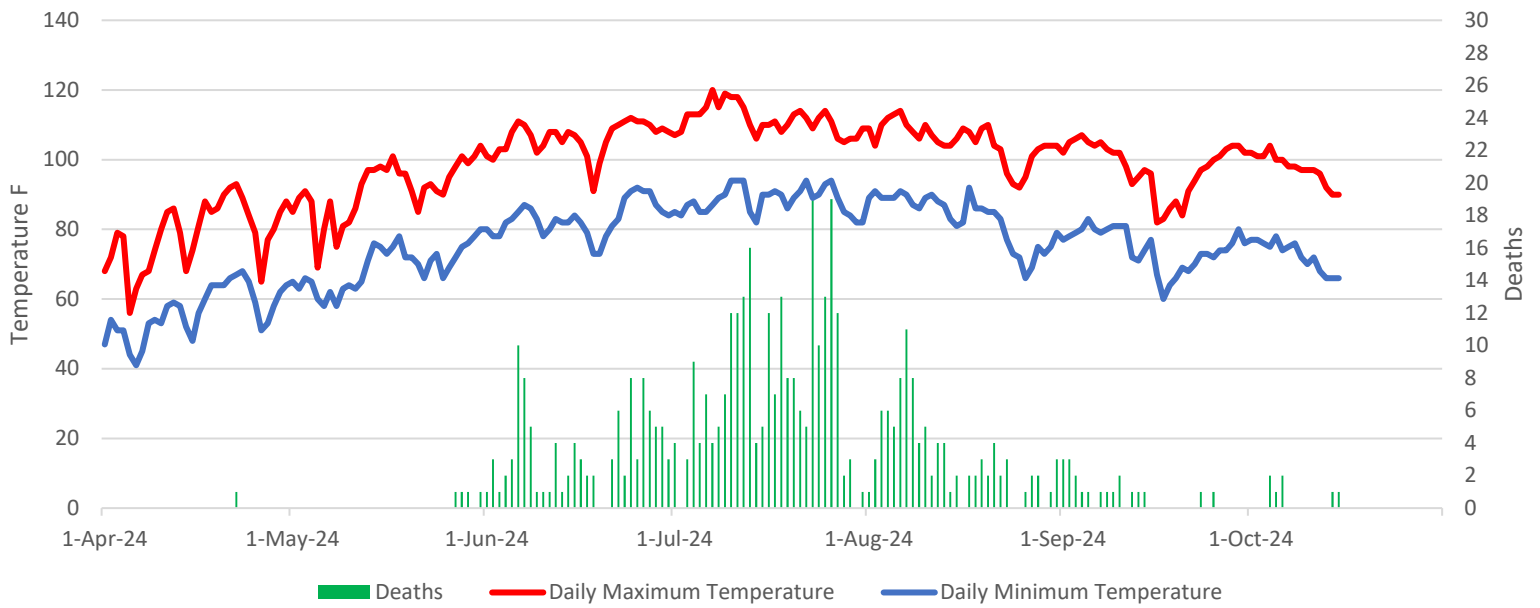


Figure 7. Heat-associated deaths in Clark County by location of heat injury and percentage of deaths by month, 2024

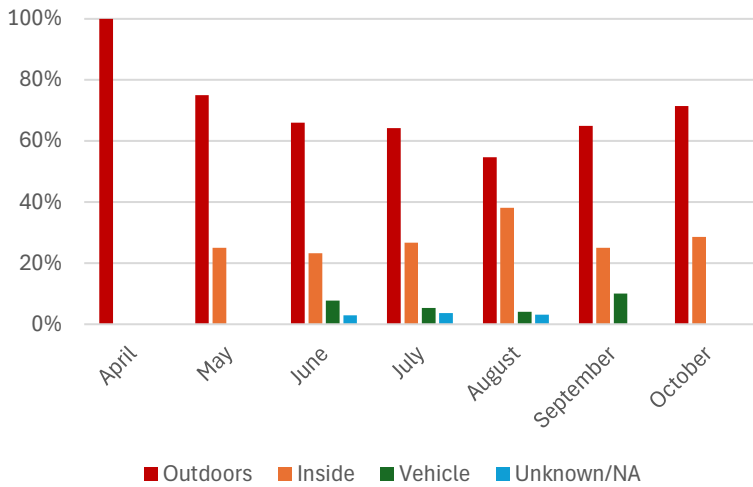


Figure 8. Heat-associated deaths in Clark County and homelessness, 2024

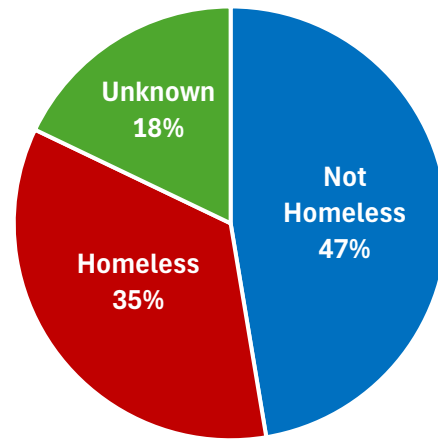
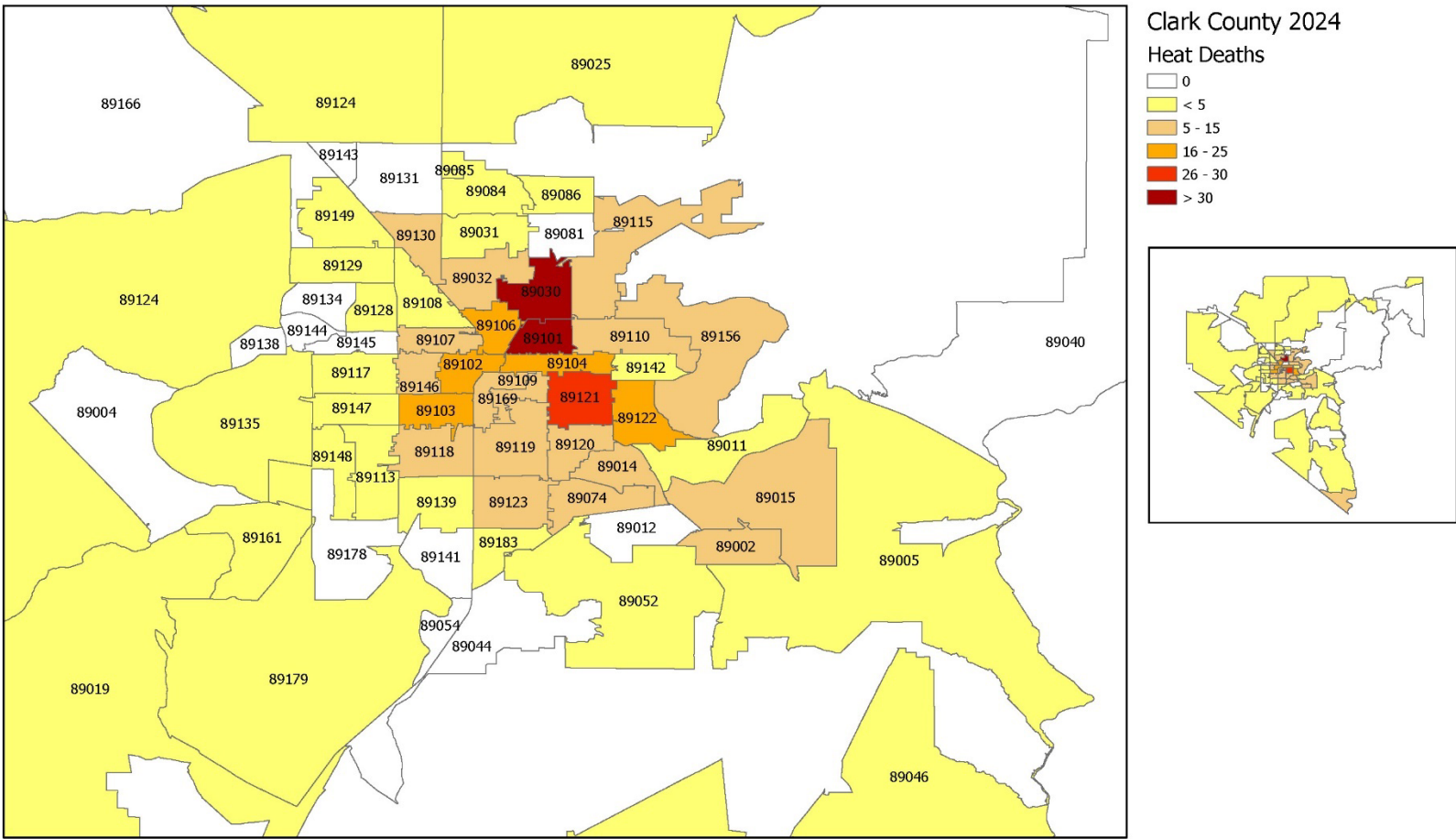


Figure 9. Location of injury for heat-associated deaths among ZIP codes associated with Clark County, NV\*



\*26 cases did not have a known ZIP code for the location of heat injury.

**Data Sources:**

**Mortality and Demographics:** Nevada Electronic Death Registry System (EDRS) provided by the Nevada Department of Public and Behavioral Health Office of Analytics.

Population: State Demographer Vintage 2020,2021 and 2023 estimates, population with group quarters

Age-adjusted mortality rates include Clark County residents, homeless individuals identified as living within Clark County or homeless individuals with an unknown or missing FIPS code.

Centers for Disease Control and Prevention (CDC). About Extreme Heat.

[https://www.cdc.gov/disasters/extremeheat/heat\\_guide.html](https://www.cdc.gov/disasters/extremeheat/heat_guide.html). July 26<sup>th</sup> 2023.

**Max/Min Temperature:** National Weather Service. Past weather reported by Las Vegas WFO, NV.

Heat Associated Deaths: defined as those having an ICD-10 code of 'T67' or 'X30'.

“Heat Caused” Deaths: Deaths in which a form of heat (ie. exposure, hyperthermia) is listed in Part I of the Cause of Death in the death certificate; either the immediate cause or part of the chain of events leading to immediate cause of death.

“Heat Related” Deaths: Deaths in which a form of heat (ie. exposure, hyperthermia) is listed in “Other Significant Conditions” or Part II of the death certificate but not listed in Part I.

**Drug/Substance Use:** defined as those having an ICD-10 code associated with the named drug or substance or if the substance is listed in Part I or Part II of the Cause of Death for those pending ICD-10 assignment.

Methamphetamine was identified using ICD-10 T43.6 and ‘Methamphetamine’ listed in Part I or Part II of the Cause of Death.

**Homelessness:** Data is provided by Clark County Office of the Coroner/Medical Examiner (CCCOME). The events not determined as homeless by the coroners office, but had an unknown home address in EDRS, were labeled as “unknown”.

## HEAT-ASSOCIATED DEATHS & EMERGENCY DEPARTMENT VISITS 2024 REPORT [04/01/2024 – 10/31/2024]

Figure 10. Daily count of emergency department visits due to heat-related illness in Clark County, 2024

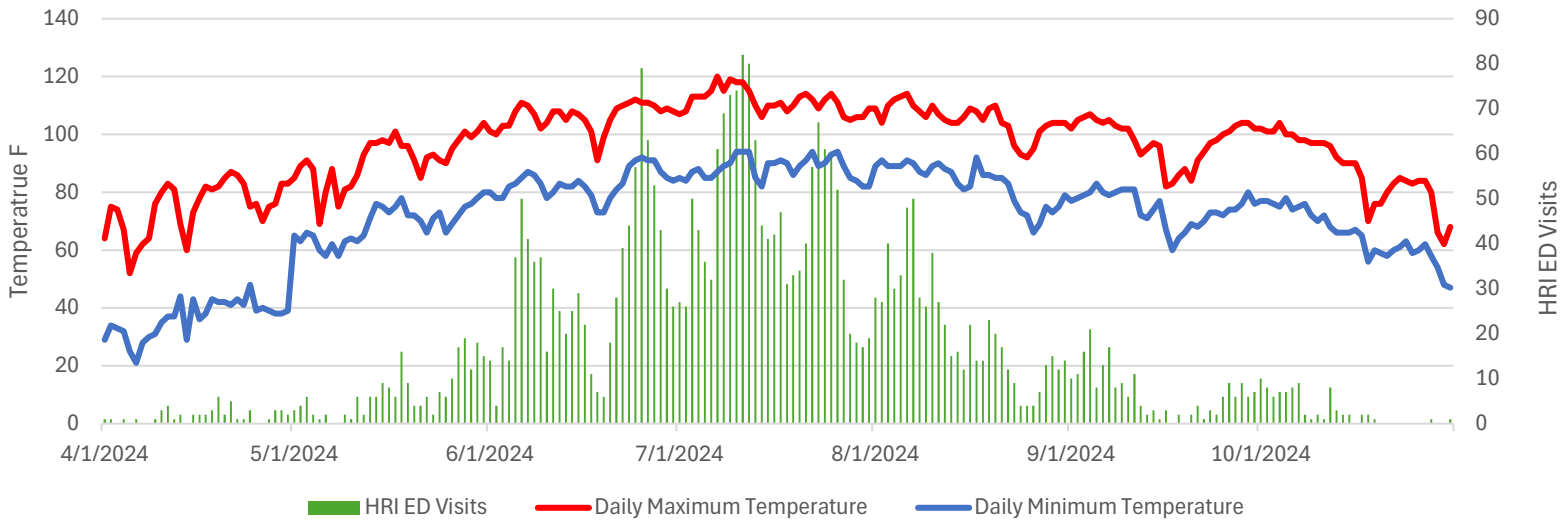


Figure 11. Heat-related illness ED visits by gender, 2024

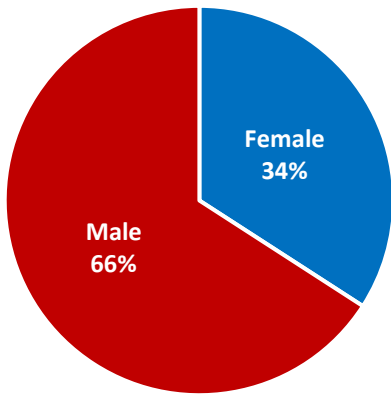
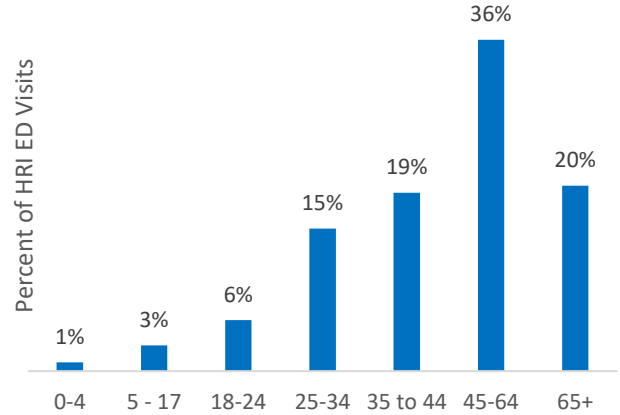


Figure 12. Heat-related illness ED visits by age group, 2024



Data Source: The Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE). Heat-related illness data was identified by querying the fields of CC and DD Category “Heat Related Illness v2”, Facility Type = “Emergency Care”, Has Been Emergency = “Yes”.

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