

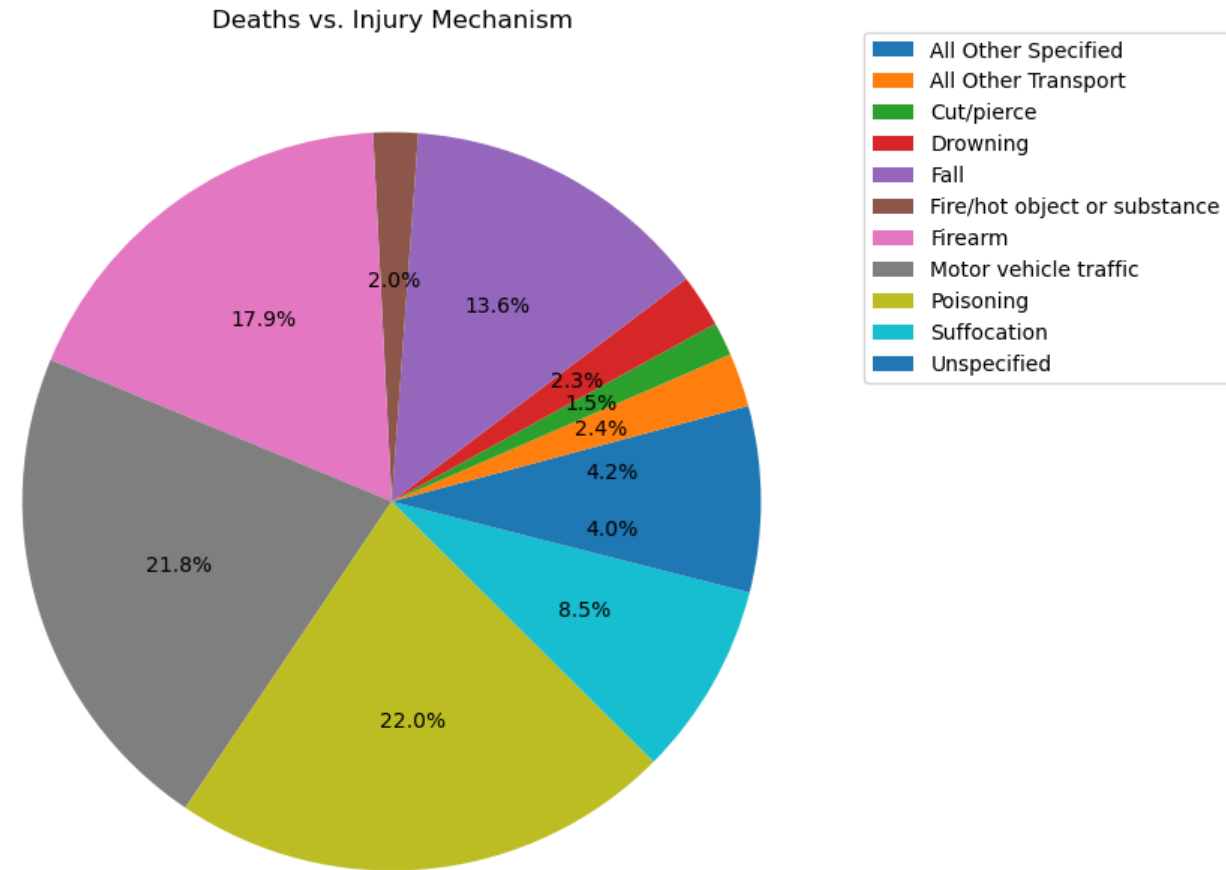
Assignment 1

Findings on Injury/Death data

Leading causes of injury and deaths by mechanism

After processing the data provided, it is found that the top 5 causes of injuries and deaths are:

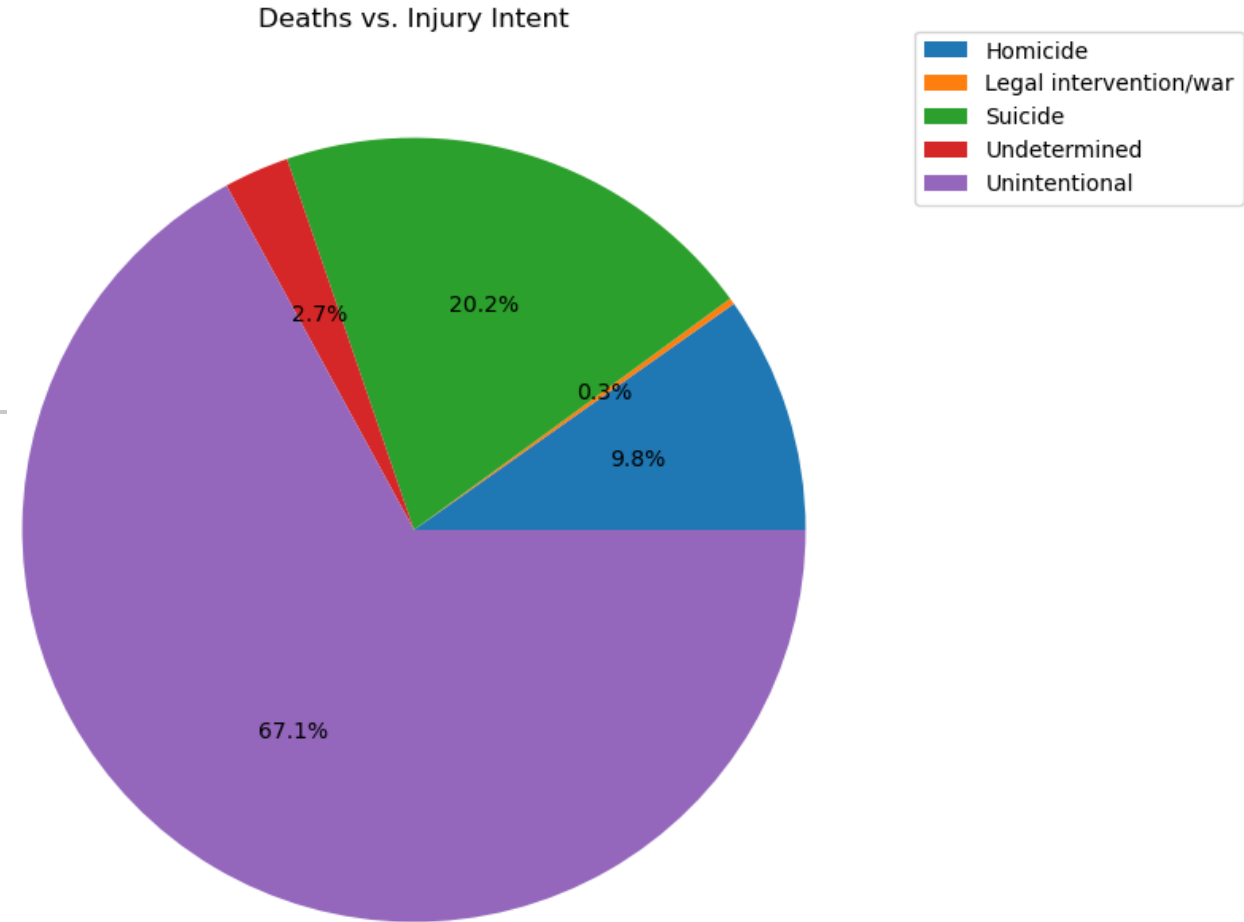
- Poisoning - 22% occurrences
- Motor vehicle traffic - 21.8% occurrences
- Firearm - 17.9% occurrences
- Fall - 13.6% occurrences
- Suffocation - 8.5% occurrences



Leading causes of injury and deaths by intent

After processing the data provided, it is found that the causes of most injuries and deaths are:

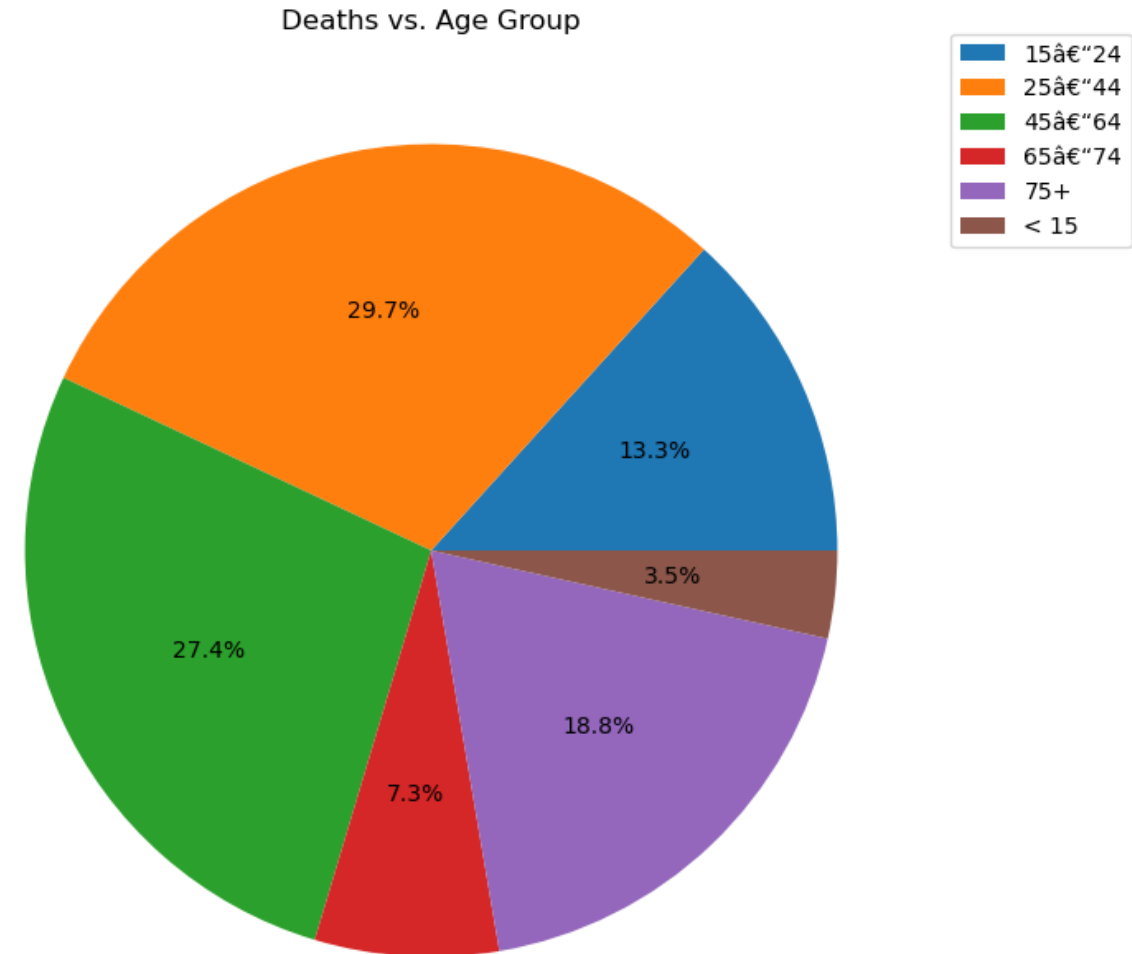
- Unintentional - 67.1% occurrences
- Suicide - 20.2% occurrences
- Homicide - 9.8% occurrences
- Undetermined - 2.7% occurrences
- Legal intervention/War - 0.3% occurrences



Trends in relation to age group

After processing the data provided, it is found that the age groups of most injuries and deaths are:

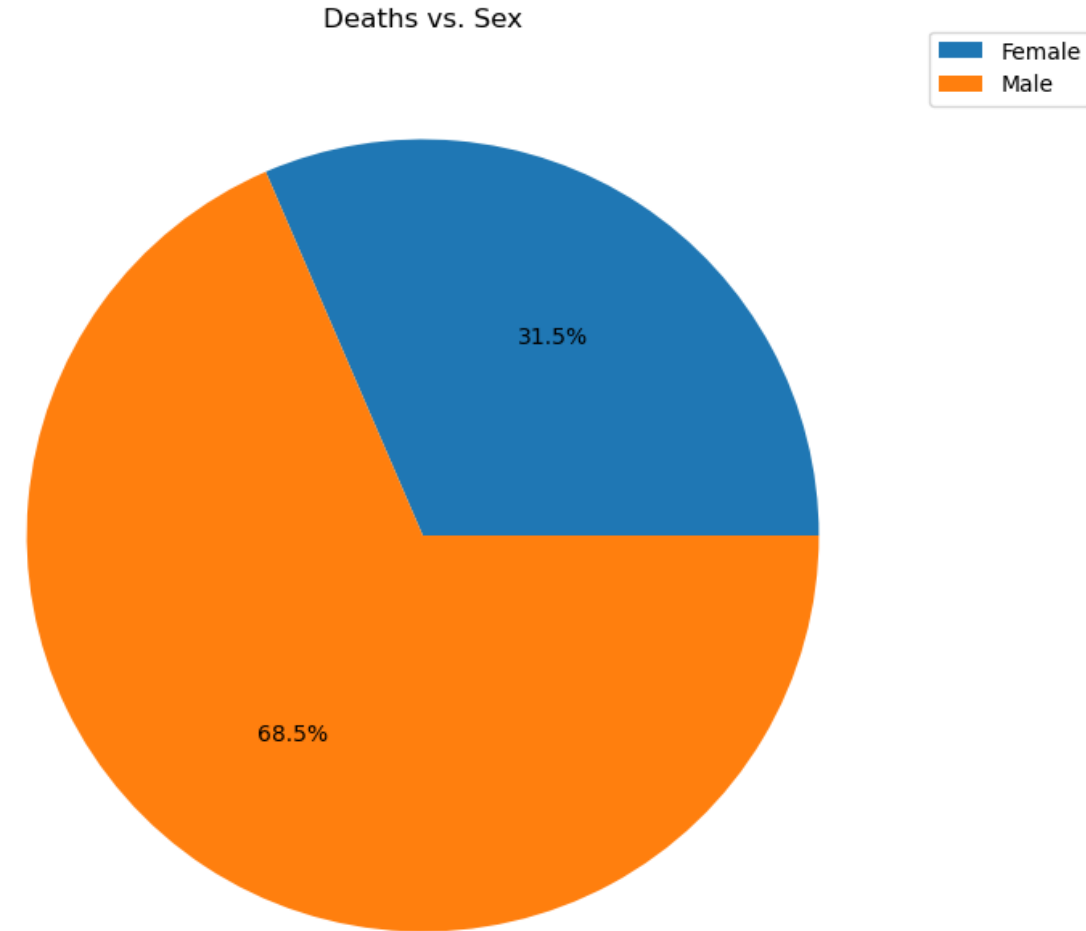
- 25 to 44 - 29.7% occurrences
- 45 to 64 - 27.4% occurrences
- 75+ - 18.8% occurrences
- 15 to 24 - 13.3% occurrences
- 65 to 74 - 7.3% occurrences
- <15 - 3.5% occurrences



Trends in relation to sex

After processing the data provided, it is found that:

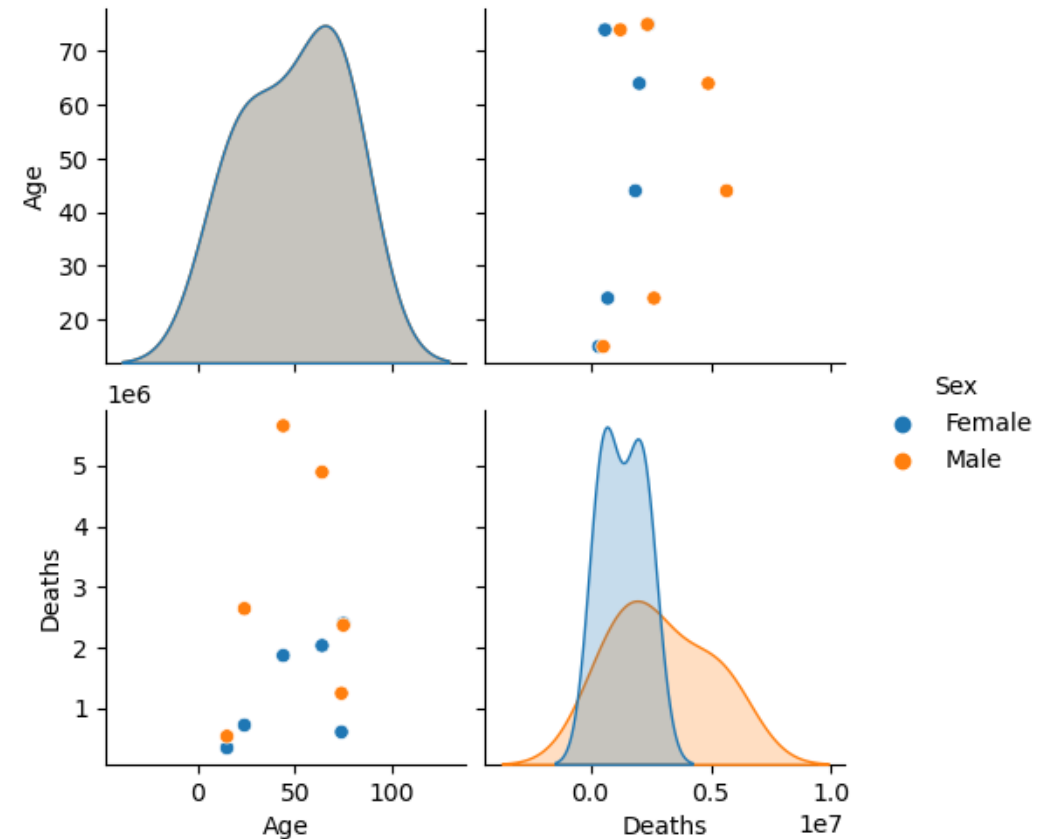
- Male - 68.5% occurrences
- Female - 31.5% occurrences



Trends in correlation between gender and age

It can be observed that, on average, injuries and deaths related to male are much more than those that are related to female.

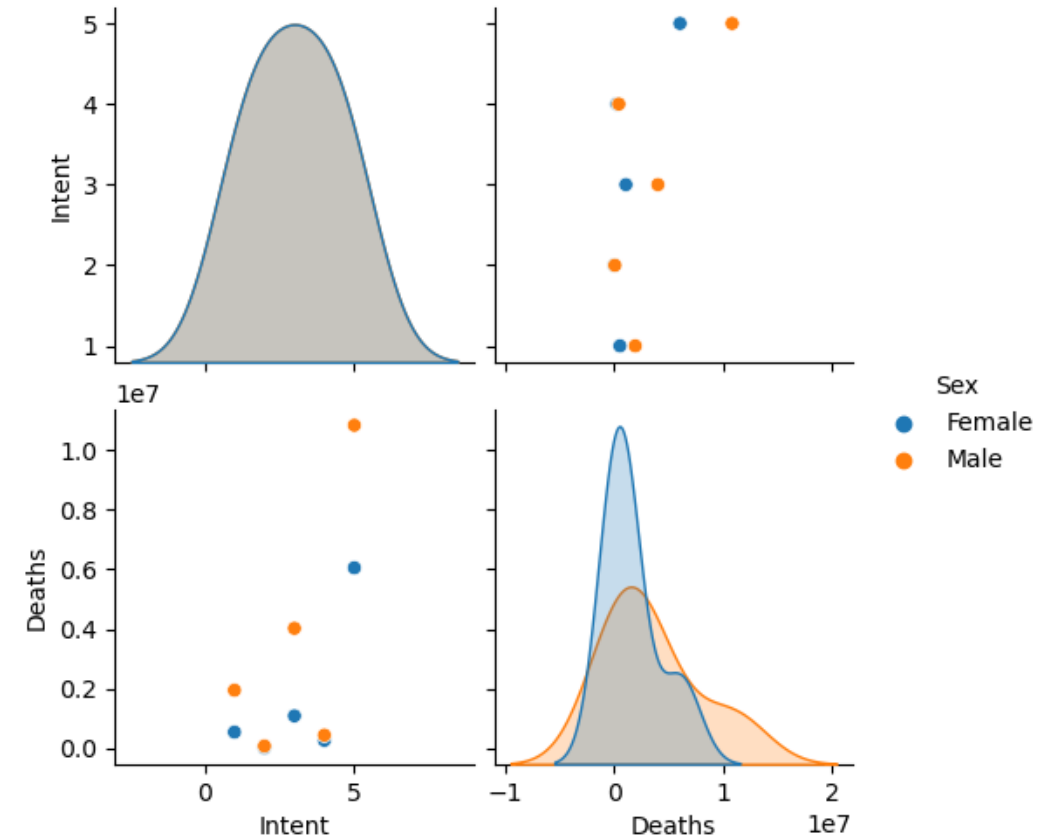
It can also be observed that injuries and deaths related to both male and female have the same trend based on age, i.e. peaking at around age 50 and falling before and after 50.



Trends in correlation between gender and intent


Similar to the previous analysis, it can be observed that, injuries and deaths related to male are much more than those that are related to female.

It can also be observed that both male and female follow the same trend intent-wise. The majority of injuries and deaths are unintentional, however, the numbers from legal intervention/war and undetermined are very close for both sexes.



For data processing, intents are represented by the following indices

- 1 - Homicide
- 2 - Legal intervention/war
- 3 - Suicide
- 4 - Undetermined
- 5 - Unintentional



To view the interactive dashboard, run the attached ipynb script on Jupyter Notebook.
