Demo2

# Create Environment

library(ggplot2)

Warning: package 'ggplot2' was built under R version 4.2.3

library(gtsummary)

Warning: package 'gtsummary' was built under R version 4.2.3

#BlackLivesMatter

library(dplyr)

Warning: package 'dplyr' was built under R version 4.2.3

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':  
  
 filter, lag

The following objects are masked from 'package:base':  
  
 intersect, setdiff, setequal, union

library(haven)  
library(readxl)

# Read Data

Covid\_Eld <- read\_xlsx("Elderly COVID-19 version 02.xlsx")

# Summarize Data

tbl\_summary(Covid\_Eld)

Table printed with `knitr::kable()`, not {gt}. Learn why at  
https://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html  
To suppress this message, include `message = FALSE` in the code chunk header.

| **Characteristic** | **N = 3,900** |
| --- | --- |
| Age | 68 (63, 74) |
| Gender |  |
| Female | 2,149 (55%) |
| Male | 1,751 (45%) |
| District |  |
| Bachok | 351 (9.0%) |
| Gua Musang | 160 (4.1%) |
| Jeli | 122 (3.1%) |
| Kota Bharu | 1,251 (32%) |
| Kuala Krai | 242 (6.2%) |
| Machang | 247 (6.3%) |
| Pasir Mas | 515 (13%) |
| Pasir Puteh | 358 (9.2%) |
| Tanah Merah | 272 (7.0%) |
| Tumpat | 382 (9.8%) |
| Ethnicity |  |
| Cina | 126 (3.2%) |
| India | 9 (0.2%) |
| Melayu | 3,706 (95%) |
| Others | 59 (1.5%) |
| Nationality |  |
| Foreigner | 25 (0.6%) |
| Malaysian | 3,875 (99%) |
| Cluster | 200 (5.1%) |
| Case\_Category |  |
| Import | 95 (2.4%) |
| Local | 3,805 (98%) |
| Status |  |
| Alive | 3,120 (80%) |
| Death | 780 (20%) |
| Vaccine |  |
| Dose 1 | 208 (5.3%) |
| Dose 2 | 2,445 (63%) |
| Dose 3 | 311 (8.0%) |
| Unvaccinated | 936 (24%) |
| Clinical\_Category |  |
| Cat 1 | 565 (14%) |
| Cat 2 | 2,797 (72%) |
| Cat 3 | 244 (6.3%) |
| Cat 4 | 187 (4.8%) |
| Cat 5 | 107 (2.7%) |

# by Gender

By\_Gender <- tbl\_summary(Covid\_Eld,  
 by = Gender)  
  
By\_Gender

Table printed with `knitr::kable()`, not {gt}. Learn why at  
https://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html  
To suppress this message, include `message = FALSE` in the code chunk header.

| **Characteristic** | **Female**, N = 2,149 | **Male**, N = 1,751 |
| --- | --- | --- |
| Age | 68 (63, 74) | 68 (63, 74) |
| District |  |  |
| Bachok | 204 (9.5%) | 147 (8.4%) |
| Gua Musang | 71 (3.3%) | 89 (5.1%) |
| Jeli | 65 (3.0%) | 57 (3.3%) |
| Kota Bharu | 705 (33%) | 546 (31%) |
| Kuala Krai | 133 (6.2%) | 109 (6.2%) |
| Machang | 140 (6.5%) | 107 (6.1%) |
| Pasir Mas | 272 (13%) | 243 (14%) |
| Pasir Puteh | 202 (9.4%) | 156 (8.9%) |
| Tanah Merah | 149 (6.9%) | 123 (7.0%) |
| Tumpat | 208 (9.7%) | 174 (9.9%) |
| Ethnicity |  |  |
| Cina | 55 (2.6%) | 71 (4.1%) |
| India | 5 (0.2%) | 4 (0.2%) |
| Melayu | 2,056 (96%) | 1,650 (94%) |
| Others | 33 (1.5%) | 26 (1.5%) |
| Nationality |  |  |
| Foreigner | 17 (0.8%) | 8 (0.5%) |
| Malaysian | 2,132 (99%) | 1,743 (100%) |
| Cluster | 113 (5.3%) | 87 (5.0%) |
| Case\_Category |  |  |
| Import | 61 (2.8%) | 34 (1.9%) |
| Local | 2,088 (97%) | 1,717 (98%) |
| Status |  |  |
| Alive | 1,740 (81%) | 1,380 (79%) |
| Death | 409 (19%) | 371 (21%) |
| Vaccine |  |  |
| Dose 1 | 129 (6.0%) | 79 (4.5%) |
| Dose 2 | 1,363 (63%) | 1,082 (62%) |
| Dose 3 | 164 (7.6%) | 147 (8.4%) |
| Unvaccinated | 493 (23%) | 443 (25%) |
| Clinical\_Category |  |  |
| Cat 1 | 300 (14%) | 265 (15%) |
| Cat 2 | 1,574 (73%) | 1,223 (70%) |
| Cat 3 | 128 (6.0%) | 116 (6.6%) |
| Cat 4 | 102 (4.7%) | 85 (4.9%) |
| Cat 5 | 45 (2.1%) | 62 (3.5%) |

# Plotting Graph (Age)

bar\_plot <-   
 ggplot(data = Covid\_Eld, mapping = aes(x = Age)) +  
 geom\_bar(alpha = 0.3, fill = "orange", linetype = 1.5, color = "black")   
bar\_plot

