

# Fragility Index Calculations

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*12/04/2019*

## Contents

Load Packages	1
Fragility Index Calculations will be posted here upon acceptance for publication	1
Session Info	1

## Load Packages

```
library(tidyverse)
library(lubridate)
library(scales)
library(gridExtra)
library(RColorBrewer)
library(readxl)
library(fragilityindex)
library(knitr)
```

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## Session Info

```
sessionInfo()
```

```
## R version 3.6.1 (2019-07-05)
## Platform: x86_64-apple-darwin15.6.0 (64-bit)
## Running under: macOS Mojave 10.14.6
##
## Matrix products: default
## BLAS:   /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRlapack.dylib
##
## locale:
##  [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
```

```
## [1] stats      graphics  grDevices utils      datasets  methods  base
##
## other attached packages:
## [1] knitr_1.26      fragilityindex_0.1.0 readxl_1.3.1
## [4] RColorBrewer_1.1-2 gridExtra_2.3      scales_1.0.0
## [7] lubridate_1.7.4  forcats_0.4.0      stringr_1.4.0
## [10] dplyr_0.8.3      purrr_0.3.3        readr_1.3.1
## [13] tidyr_1.0.0      tibble_2.1.3       ggplot2_3.2.1
## [16] tidyverse_1.2.1
##
## loaded via a namespace (and not attached):
## [1] tidyselect_0.2.5 xfun_0.11      splines_3.6.1  haven_2.1.1
## [5] lattice_0.20-38  colorspace_1.4-1 vctrs_0.2.0    generics_0.0.2
## [9] htmltools_0.4.0  yaml_2.2.0     survival_2.44-1.1 rlang_0.4.1
## [13] pillar_1.4.2     glue_1.3.1     withr_2.1.2    modelr_0.1.5
## [17] lifecycle_0.1.0  munsell_0.5.0  gtable_0.3.0   cellranger_1.1.0
## [21] rvest_0.3.4      evaluate_0.14  broom_0.5.2    Rcpp_1.0.3
## [25] backports_1.1.5  jsonlite_1.6   hms_0.5.2      digest_0.6.23
## [29] stringi_1.4.3    grid_3.6.1     cli_1.1.0      tools_3.6.1
## [33] magrittr_1.5     lazyeval_0.2.2 crayon_1.3.4    pkgconfig_2.0.3
## [37] zeallot_0.1.0    Matrix_1.2-17  xml2_1.2.2     assertthat_0.2.1
## [41] rmarkdown_1.17   httr_1.4.1     rstudioapi_0.10 R6_2.4.1
## [45] nlme_3.1-140     compiler_3.6.1
```