Analysis of COVID-19 surveillance data from Orange County, CA

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Overview

$E(X)$

```
## R version 4.0.2 (2020-06-22)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS Mojave 10.14.6
##
## Matrix products: default
## BLAS:    /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRblas.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.0/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] patchwork_1.0.1 scales_1.1.1    here_0.1        forcats_0.5.0
##  [5] stringr_1.4.0   dplyr_1.0.1     purrr_0.3.4     readr_1.3.1
##  [9] tidyr_1.1.1     tibble_3.0.3    ggplot2_3.3.2   tidyverse_1.3.0
## [13] stemr_0.1.0     knitr_1.29
##
## loaded via a namespace (and not attached):
##  [1] tidyselect_1.1.0 xfun_0.16        haven_2.3.1      colorspace_1.4-1
##  [5] vctrs_0.3.2      generics_0.0.2   htmltools_0.5.0  yaml_2.2.1
##  [9] blob_1.2.1       rlang_0.4.7      pillar_1.4.6     glue_1.4.1
## [13] withr_2.2.0      DBI_1.1.0        odeintr_1.7.1    dbplyr_1.4.4
## [17] modelr_0.1.8     readxl_1.3.1     lifecycle_0.2.0  munsell_0.5.0
## [21] gtable_0.3.0     cellranger_1.1.0 rvest_0.3.6      evaluate_0.14
## [25] fansi_0.4.1      highr_0.8        broom_0.7.0      Rcpp_1.0.5
## [29] backports_1.1.8  jsonlite_1.7.0   fs_1.5.0         hms_0.5.3
## [33] digest_0.6.25    stringi_1.4.6    rprojroot_1.3-2  grid_4.0.2
## [37] cli_2.0.2        tools_4.0.2      magrittr_1.5     crayon_1.3.4
## [41] pkgconfig_2.0.3  ellipsis_0.3.1   xml2_1.3.2       reprex_0.3.0
## [45] lubridate_1.7.9  assertthat_0.2.1 rmarkdown_2.3    httr_1.4.2
## [49] rstudioapi_0.11  R6_2.4.1         compiler_4.0.2
```