

Lici_Díaz.Rmd

Lici Díaz

5/12/2022

```
#install.packages("reshape2")  
#install.packages("reshape")  
#install.packages("nycflights13")  
#install.packages("tableone")  
#install.packages("rvest")  
library(tidyr)  
library(MASS)  
library(reshape2)
```

```
##  
## Attaching package: 'reshape2'  
  
## The following object is masked from 'package:tidyr':  
##  
##      smiths
```

```
library(reshape)
```

```
##  
## Attaching package: 'reshape'  
  
## The following objects are masked from 'package:reshape2':  
##  
##      colsplit, melt, recast  
  
## The following objects are masked from 'package:tidyr':  
##  
##      expand, smiths
```

```
library(Hmisc)
```

```
## Loading required package: lattice
```

```
## Loading required package: survival
```

```
## Loading required package: Formula
```

```
## Warning: package 'Formula' was built under R version 4.1.1
```

```
## Loading required package: ggplot2

## Warning: package 'ggplot2' was built under R version 4.1.1

##
## Attaching package: 'Hmisc'

## The following objects are masked from 'package:base':
##
##     format.pval, units
```

```
library(psych)
```

```
##
## Attaching package: 'psych'

## The following object is masked from 'package:Hmisc':
##
##     describe

## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

```
library(ggpubr)
```

```
## Warning: package 'ggpubr' was built under R version 4.1.1
```

```
library(readr)
library(tibble)
```

```
## Warning: package 'tibble' was built under R version 4.1.1
```

```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.1.1
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:Hmisc':
##
##     src, summarize

## The following object is masked from 'package:reshape':
##
##     rename
```

```
## The following object is masked from 'package:MASS':
##
##     select

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

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

```
library(magrittr)
```

```
##
## Attaching package: 'magrittr'

## The following object is masked from 'package:tidyr':
##
##     extract
```

```
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

## The following object is masked from 'package:reshape':
##
##     stamp

## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```
library(nycflights13)
library(tableone)
library(survival)
#library(nhanesA)
```

Dataframe from csv files:

```
example_lab_data <- read.table('example_lab_data.csv', sep=',', header=TRUE)
head(example_lab_data)
```

```
##   patient_id      date   lab_exam  result
## 1 cCnBeL4FBu 2021-03-09 Hematocrit 0.34678545
## 2 Xl5d5UcCYD 2021-02-03 Cholesterol 0.37630661
## 3 oa74Ed90gm 2020-03-05          CRP 0.88612849
## 4 rPjBoa86kB 2021-04-20   Platelets 0.09504662
## 5 uD0NxQpQ5F 2020-11-01      Glucose 0.01586868
## 6 3pZ2TqnNyn 2021-02-24 Lymphocytes 0.09372664
```

```
synthetic_data <- read.table('synthetic_data.csv', sep=',', header=TRUE)
head(synthetic_data)
```

```
## patient_id age sex race weight_kg height_cm bsa bmi
## 1 PlSf6mx953 68 M Hispanic 85.6 154.9 2.27 28.96000
## 2 sT8IH3ZooD 56 M White 104.0 172.0 NA 25.62000
## 3 4Zz1llngXL 24 M White 115.0 180.3 NA 36.99957
## 4 FlV8vFIekH 45 M White 61.0 152.4 2.30 21.75507
## 5 XHODUqe1lR 54 F White NA 170.0 2.39 26.01070
## 6 gvQFBONZVL 60 Male White 190.5 177.8 NA 42.86250
##
## diagnosis diagnosis_icd10 supplemental_diagnoses
## 1 COVID-19 I25.5 <NA>
## 2 COVID-19 <NA> <NA>
## 3 Other respiratory condition <NA> <NA>
## 4 COVID-19 I71.01 <NA>
## 5 Cardiovascular condition <NA> <NA>
## 6 COVID-19 <NA> <NA>
## distal_perfusion trauma infective_endocarditis reintubation trached ph co2
## 1 NA NA NA NA FALSE 6.96 33.1
## 2 TRUE FALSE FALSE FALSE FALSE 7.41 NA
## 3 TRUE FALSE NA FALSE TRUE 7.39 42.7
## 4 FALSE FALSE FALSE NA FALSE 7.18 72.0
## 5 NA FALSE FALSE FALSE TRUE 7.44 62.0
## 6 NA FALSE NA FALSE FALSE 7.42 NA
## o2 lactate_peak creatinine_peak total_bilirubin_peak mechanical_vent_days
## 1 68 3.9 2.27 3.9 12h - 24h
## 2 542 NA 1.67 NA <NA>
## 3 NA NA 1.19 NA <= 12h
## 4 109 2.9 0.57 0.9 2 days - 7 days
## 5 NA 2.3 1.04 8.9 <NA>
## 6 49 2.3 2.08 0.5 12h - 24h
## systemic_anticoagulation_type acute_kidney_injury severity_score icu_los
## 1 Heparin only FALSE 7 5
## 2 Heparin only FALSE 11 42
## 3 No anticoagulant TRUE 4 NA
## 4 Heparin and bivalirudin TRUE NA 1
## 5 Heparin only FALSE 8 NA
## 6 No anticoagulant TRUE NA 43
## hospital_los discharge_location insurance proning steroids
## 1 13 <NA> UMR FALSE No
## 2 15 Home <NA> FALSE Yes
## 3 20 Death Medicare TRUE <NA>
## 4 49 <NA> Blue Cross/Blue Shield NA <NA>
## 5 1 Death Aetna Better Health NA <NA>
## 6 29 Home Acordia PEIA NA Yes
## steroid_name cpc_score infection
## 1 <NA> <NA> (On-ECLS, Respiratory tract, Virus, Rhinovirus)
## 2 <NA> <NA> None
## 3 <NA> <NA> <NA>
## 4 <NA> <NA> SARS CoV19
## 5 <NA> N/A SARS CoV19
## 6 Dexamethasone <NA> <NA>
## complication_mechanical complication_hemorrhage complication_neurological
```

```

## 1          <NA>          <NA>          <NA>
## 2          <NA>          0          <NA>
## 3          0          <NA>          <NA>
## 4          0          <NA>          <NA>
## 5          <NA>          <NA>          <NA>
## 6          <NA>          <NA>          None
## complication_renal complication_cardiovascular complication_pulmonary
## 1          <NA>          <NA>          <NA>
## 2          <NA>          <NA>          <NA>
## 3          <NA>          <NA>          <NA>
## 4          1          0          <NA>
## 5          Yes          <NA>          0
## 6          None          <NA>          <NA>
## complication_metabolic complication_patient_limb il_6_blockers antivirals
## 1          <NA>          <NA>          NA          NA
## 2          <NA>          0          NA          NA
## 3          <NA>          0          NA          NA
## 4          <NA>          <NA>          NA          NA
## 5          <NA>          <NA>          NA          NA
## 6          <NA>          <NA>          NA          NA
## antimalarials support_type transfer number_pt_visits_total_hosp_stay
## 1          NA          Cardiac          FALSE          NA
## 2          NA          <NA>          FALSE          NA
## 3          NA          Pulmonary          FALSE          NA
## 4          NA          <NA>          FALSE          NA
## 5          NA          <NA>          FALSE          NA
## 6          NA          <NA>          FALSE          NA
## or_cannulation covid monoclonal_ab_treatment total_charges pregnant year
## 1          NA FALSE          NA          NA          NA 2021
## 2          NA TRUE          FALSE          NA          NA 2018
## 3          NA FALSE          NA          NA          NA 2018
## 4          NA FALSE          NA          104724.6          NA 2020
## 5          NA FALSE          NA          NA          TRUE 2022
## 6          NA TRUE          NA          966708.4          NA 2020
## days_to_discharge pcs12 mcs12 qal_ys admission_date discharge_date
## 1          70          NA          NA          NA          2021-08-26          2021-09-28
## 2          7 23.06103 36.6572          NA          2020-10-17          2020-11-16
## 3          NA          NA          NA          NA          2021-12-25          2022-02-03
## 4          NA          NA          NA          NA          2020-01-29          2020-02-25
## 5          NA          NA          NA          NA          2021-07-02          2021-08-09
## 6          NA          NA          NA          NA          2021-06-18          2021-07-24
## death_date
## 1          <NA>
## 2          <NA>
## 3          <NA>
## 4 2020-02-25
## 5          <NA>
## 6          <NA>

```

Remove any extraneous rows or columns:

Ensure that columns with numeric variables don't have characters #Count number of nulls per column

```
nullsum_example_lab_data <- sapply(example_lab_data, function(x) sum(is.na(x)))
nullsum_synthetic_data <- sapply(synthetic_data, function(x) sum(is.na(x)))
```

#drop columns with NA > 300 observations:

```
synthetic_data <- synthetic_data[,!names(synthetic_data) %in% c("diagnosis_icd10", "supplemental_diagnosis_icd10",
  "trauma", "infective_endocarditis", "severity_score", "icu_los", "insurance", "proning", "il_6_blocker")]
```

Review patient IDs and address repeated patients:

For synthetic_data

```
repeated_patients_syntetic_data <- data.frame(table(synthetic_data$patient_id))
repeated_patients_syntetic_data <- repeated_patients_syntetic_data[repeated_patients_syntetic_data$Freq > 1,]
```

tells you which patient_id occurred more than once:

```
synthetic_data[synthetic_data$patient_id %in% repeated_patients_syntetic_data$Var1[repeated_patients_syntetic_data$Freq > 1],]
```

| ## | patient_id | age | sex | race | weight_kg | height_cm | bmi |
|-------|------------|-----|--------|----------|-----------|-----------|----------|
| ## 1 | PlSf6mx953 | 68 | M | Hispanic | 85.6 | 154.90 | 28.96000 |
| ## 2 | sT8IH3ZooD | 56 | M | White | 104.0 | 172.00 | 25.62000 |
| ## 3 | 4Zz1llngXL | 24 | M | White | 115.0 | 180.30 | 36.99957 |
| ## 4 | FlV8vFIekH | 45 | M | White | 61.0 | 152.40 | 21.75507 |
| ## 5 | XH0DUqel1R | 54 | F | White | NA | 170.00 | 26.01070 |
| ## 6 | gvQFBONZVL | 60 | Male | White | 190.5 | 177.80 | 42.86250 |
| ## 7 | 9RJXcM3JN2 | 23 | M | White | 104.8 | 154.90 | 28.75295 |
| ## 8 | zsEXlQoxFm | 46 | M | White | 120.3 | 182.90 | 37.47000 |
| ## 9 | gJ2ERPGGQc | 56 | Male | White | NA | 176.00 | 18.93000 |
| ## 10 | 5TLquRFvBi | 57 | M | White | 48.5 | 173.50 | 32.28650 |
| ## 11 | RUJwtkyHR6 | 53 | F | White | 82.6 | 175.30 | 31.00000 |
| ## 12 | VVxY2ojz0G | 23 | Male | White | 122.0 | 188.00 | 36.49000 |
| ## 13 | PlSf6mx953 | 32 | Female | White | 90.4 | 188.00 | 32.49000 |
| ## 20 | IcjCW6rMOW | 65 | M | Other | 91.4 | 173.00 | 22.68000 |
| ## 21 | usAagb3Ys8 | 38 | Female | White | 103.0 | 175.30 | 36.35000 |
| ## 23 | U5z4u340s9 | 28 | F | White | 104.0 | 160.00 | 37.33000 |
| ## 24 | GMM5IIMsks | 53 | M | White | 87.8 | 180.30 | 44.25000 |
| ## 25 | XLquXLGSRi | 55 | Female | Hispanic | NA | 170.20 | 28.32000 |
| ## 28 | DjjRrZGNhd | 48 | M | Black | 84.0 | 177.80 | 36.49000 |
| ## 29 | bpjYMzIhem | 30 | Female | White | 88.7 | 177.80 | 36.78670 |
| ## 30 | Cwy6w4MuKf | 63 | M | White | 60.0 | 159.00 | 32.11000 |
| ## 31 | nDyA0tpdsa | 71 | Male | White | NA | 182.90 | 37.68000 |
| ## 34 | RLIZJgcVd8 | 61 | F | White | 139.8 | 165.00 | 39.43000 |
| ## 35 | wfzftPR62C | 59 | F | Hispanic | 70.1 | 147.30 | 31.59750 |
| ## 36 | U5z4u340s9 | 78 | M | White | 48.0 | 180.00 | 40.34000 |
| ## 39 | fxfMuneuZ4 | 52 | Male | White | 149.2 | 162.60 | 33.96000 |
| ## 40 | 0shbw3gvsR | 49 | Male | White | 155.0 | 177.80 | 37.51850 |
| ## 42 | w1d5gKl9AF | 72 | F | White | 145.0 | 175.30 | 50.58000 |
| ## 43 | XjRr0zhHr | 67 | F | White | 101.5 | 167.00 | 22.80000 |
| ## 44 | LBRVzQu5w9 | 71 | M | White | 102.9 | 157.50 | 30.75000 |
| ## 46 | 5u0Xu0Tdc0 | 41 | Male | White | 48.5 | 178.00 | 41.26000 |
| ## 47 | bpjYMzIhem | 36 | M | White | 116.0 | NA | 36.99957 |

| | | | | | | | |
|--------|-------------|----|--------|----------|-------|--------|-----------|
| ## 48 | ds8kizHdyF | 55 | M | White | 126.1 | 170.20 | 42.14943 |
| ## 49 | 1P5kPzvd9t | 81 | M | White | 115.2 | 188.00 | 33.87235 |
| ## 50 | CxsoWM1PJ7 | 53 | Male | White | 66.2 | 188.00 | 33.55795 |
| ## 52 | l0dDAKKGyk | 67 | M | White | 79.0 | 172.70 | 36.00000 |
| ## 53 | nDyA0tpdsa | 63 | F | Other | 112.0 | 182.90 | 49.78000 |
| ## 54 | oa74Ed90gm | 43 | F | Black | 100.3 | 180.30 | 21.40290 |
| ## 55 | IqkI11WYK7 | 46 | Female | White | 87.8 | 185.00 | 39.03000 |
| ## 57 | SHVAA5chqV | 67 | Male | White | 103.0 | 173.50 | 37.67000 |
| ## 59 | fbbgoc1RTa | 60 | Male | White | 93.0 | 180.00 | 43.27000 |
| ## 61 | eTIP4hpddm | 36 | Female | Black | 104.0 | 160.00 | 19.20000 |
| ## 64 | A85a96UqL3 | 55 | Male | White | 198.0 | 172.00 | 33.38000 |
| ## 66 | pL7cjkuchS | 60 | Female | White | 126.1 | 165.10 | 23.71094 |
| ## 69 | 3KSfMkioqd | 81 | F | White | 79.8 | 178.00 | 25.86000 |
| ## 71 | h0AW4YaVS6 | 56 | F | White | 161.0 | 182.90 | 43.61000 |
| ## 72 | GMM5IIMsks | 32 | M | White | 74.0 | 160.00 | 28.96000 |
| ## 74 | KfxOQl50T8 | 49 | M | White | 82.5 | 175.00 | 39.49000 |
| ## 75 | 7kQUZ43oC8 | 23 | F | White | 104.0 | 182.90 | 35.15000 |
| ## 76 | LBRVzQu5w9 | 40 | Male | White | 86.0 | 157.50 | NA |
| ## 77 | VVxY2ojz0G | 43 | F | White | 61.2 | 157.50 | 40.05477 |
| ## 79 | KfxOQl50T8 | 55 | M | White | 79.8 | 162.60 | 41.16000 |
| ## 82 | IqbiKaQrSQ | 55 | F | White | 101.0 | 172.70 | 42.97000 |
| ## 83 | IwoGIkuRxW | 57 | M | White | 60.0 | 161.90 | 43.70000 |
| ## 84 | owdrTVqd26 | 74 | M | White | 149.2 | 188.00 | 29.19184 |
| ## 85 | TeelI019by | 46 | F | White | 61.9 | 170.20 | 34.22041 |
| ## 86 | C2DRgzRqj7 | 51 | Female | White | 100.3 | NA | 29.96000 |
| ## 88 | GW3gmyWKj7 | 40 | F | White | 68.4 | 182.30 | 21.53000 |
| ## 89 | 5TLquRFvBi | 47 | F | Black | 71.7 | 172.50 | 42.58000 |
| ## 91 | 5TLquRFvBi | 41 | F | <NA> | NA | 185.00 | 28.96000 |
| ## 92 | e2XxEm3acg | 24 | <NA> | White | 136.9 | 170.00 | 18.79000 |
| ## 93 | I4zTRqpHco | 28 | M | White | 141.0 | 165.10 | 56.78000 |
| ## 95 | SzCWauSPpe | 44 | M | Black | 86.5 | 167.60 | 37.20000 |
| ## 96 | 1P5kPzvd9t | 27 | Male | Hispanic | 90.8 | 185.00 | 24.94000 |
| ## 97 | FlV8vFIekH | 56 | M | White | 110.0 | 177.80 | 32.55764 |
| ## 98 | xxah5hoZVX | 46 | Male | Black | 96.4 | 177.80 | NA |
| ## 100 | oa74Ed90gm | 61 | Female | White | 79.7 | 177.80 | 25.41000 |
| ## 102 | owdrTVqd26 | 53 | M | White | 95.7 | 162.60 | 53.20000 |
| ## 103 | pNzvrqNfXv | 62 | M | White | 106.0 | 175.30 | 33.44000 |
| ## 104 | KL9bwQLGY3 | 64 | M | White | 127.3 | 162.60 | 15.54000 |
| ## 105 | SzCWauSPpe | 52 | M | White | 112.4 | 177.80 | 26.84000 |
| ## 106 | argAUZmnvn | 56 | F | White | 121.8 | 175.00 | 45.75000 |
| ## 107 | rPjBoa86kB | 56 | Male | White | 64.5 | 170.20 | 27.65000 |
| ## 108 | RPkFkP3mF7 | 67 | M | White | 170.0 | 180.30 | 36.70000 |
| ## 109 | AQXGYHxdC0 | 59 | M | White | 72.0 | 177.80 | 50.58000 |
| ## 111 | RLIZJgcVd8 | 64 | M | White | 69.4 | 180.00 | 32.03000 |
| ## 112 | DjjRrZGNhd | 35 | Male | White | 155.0 | 185.00 | 36.02736 |
| ## 113 | GRgi1BcRFF | 78 | Male | White | 106.0 | 165.10 | 29.70341 |
| ## 116 | ar1fphuqKw | 30 | Male | Hispanic | 79.7 | 177.80 | 27.02979 |
| ## 117 | 8NRDeDzR0yU | 48 | M | White | 97.6 | 171.50 | 347.88167 |
| ## 121 | A85a96UqL3 | 30 | Male | White | 124.0 | 170.20 | 26.01000 |
| ## 122 | fxfMuneuZ4 | 51 | M | White | 65.0 | 152.00 | 39.03000 |
| ## 123 | q6danf6ZhC | 57 | F | White | 91.7 | 170.20 | 21.53000 |
| ## 124 | IwoGIkuRxW | 31 | Male | White | 106.0 | 175.30 | NA |
| ## 126 | p3uCdY5XSk | 52 | M | White | 74.8 | 180.30 | 25.51000 |
| ## 127 | I4zTRqpHco | 73 | F | White | 76.3 | 180.00 | 35.18232 |

| | | | | | | | |
|--------|-------------|----|--------|-------|-------|--------|----------|
| ## 128 | OwwryljbeEQ | 32 | M | White | 131.0 | 172.00 | 25.62000 |
| ## 129 | sT8IH3ZooD | 43 | Male | Black | 96.1 | 183.00 | 28.32000 |
| ## 134 | d5YupdnG8g | 39 | M | White | 101.0 | 167.60 | 27.60000 |
| ## 135 | CUkgYtax4B | 59 | Female | White | 84.0 | 177.80 | 43.51834 |
| ## 136 | d5YupdnG8g | 54 | M | White | 74.0 | 157.50 | 49.78000 |
| ## 137 | TqQ4YnODN5 | 23 | Male | Black | 85.7 | 188.00 | 28.52043 |
| ## 139 | 8NReDzR0yU | 73 | F | White | 55.0 | 152.40 | 28.97000 |
| ## 140 | IqkI11WYK7 | 31 | Female | White | 104.5 | 189.00 | 26.84000 |
| ## 141 | S65F25Nb7v | 57 | M | Black | 62.0 | 182.60 | 21.70000 |
| ## 142 | p3uCdY5XSk | 58 | Male | <NA> | 82.1 | 170.20 | 33.24000 |
| ## 144 | WpXIJg30L2 | 63 | Female | White | 87.8 | 167.00 | 23.11000 |
| ## 145 | lgwsTbQ9bX | 57 | F | White | 114.8 | 172.70 | 26.57000 |
| ## 148 | 1uksyaSHeL | 52 | M | White | 95.0 | 162.60 | 33.95201 |
| ## 149 | qBAgaxacbM | 56 | Male | White | 74.0 | 170.20 | 34.21687 |
| ## 151 | XLquXLGSRi | 33 | Male | White | 94.7 | 157.50 | 29.52000 |
| ## 152 | eTIP4hpdmd | 78 | F | White | 96.9 | 185.00 | 38.04000 |
| ## 156 | SzCWauSPpe | 56 | M | White | 122.0 | 177.80 | 19.57000 |
| ## 157 | Cwy6w4MuKf | 57 | M | White | 114.6 | 167.60 | 30.62134 |
| ## 158 | W0709mDWf5 | 42 | Female | White | 68.0 | 180.30 | 18.79000 |
| ## 159 | 7VN31dBvd0 | 29 | F | White | 95.3 | 152.00 | NA |
| ## 160 | CUkgYtax4B | 58 | F | White | 57.3 | 172.70 | 46.58000 |
| ## 162 | 7TZzyY0yMi | 51 | M | White | 63.1 | 165.10 | 30.72000 |
| ## 164 | lgwsTbQ9bX | 46 | F | White | 72.0 | 180.00 | 22.48000 |
| ## 165 | h0AW4YaVS6 | 52 | F | White | 91.7 | 190.50 | 43.70000 |
| ## 166 | bGRYJRCgMT | 28 | M | White | 193.7 | 176.00 | 30.53000 |
| ## 168 | GRgi1BcRFF | 56 | Male | White | 170.0 | 165.10 | 21.24000 |
| ## 169 | 5dVrn2ayfY | 62 | M | White | 65.0 | 170.20 | 54.35000 |
| ## 171 | uDONxQpQ5F | 67 | M | White | 68.0 | 190.50 | 36.49000 |
| ## 172 | qBAgaxacbM | 57 | M | White | 58.7 | 131.30 | 36.50000 |
| ## 174 | TeelI019by | 53 | M | Black | 126.0 | 182.90 | 24.82459 |
| ## 176 | Oshbw3gvsR | 70 | Male | White | 61.0 | 185.00 | 44.25000 |
| ## 177 | cCnBeL4FBu | 56 | Male | White | 75.8 | 167.00 | 41.79592 |
| ## 178 | bGRYJRCgMT | 60 | M | White | 101.0 | 182.90 | 21.24000 |
| ## 179 | EtsodwhqN0 | 73 | M | White | 109.0 | 182.90 | 28.47001 |
| ## 183 | fbbgoc1RTa | 65 | M | White | 65.0 | 157.00 | 32.98000 |
| ## 184 | q6danf6ZhC | 54 | Male | White | 113.0 | 174.00 | 26.12862 |
| ## 185 | ds8kizHdyF | 28 | M | White | 117.0 | 152.00 | 18.53688 |
| ## 188 | 3KSfMkioqd | 52 | M | White | 107.0 | 165.10 | 36.35000 |
| ## 189 | EtsodwhqN0 | 57 | F | White | 76.3 | 176.00 | 35.18232 |
| ## 193 | d1K0bvMARw | 22 | Male | White | 136.0 | 182.90 | 53.52000 |
| ## 194 | RPKFkP3mF7 | 59 | M | White | 118.6 | 184.00 | 45.75000 |
| ## 195 | GRgi1BcRFF | 19 | M | White | 104.5 | 170.00 | 26.60000 |
| ## 199 | 5dVrn2ayfY | 23 | F | White | 96.0 | 180.30 | 44.74000 |
| ## 200 | erG5SEIJWp | NA | M | White | 115.2 | 170.20 | 27.02380 |
| ## 201 | TqQ4YnODN5 | 38 | Male | White | 106.8 | 167.00 | 44.25000 |
| ## 202 | uDONxQpQ5F | 56 | M | White | 77.8 | 170.20 | 28.12000 |
| ## 204 | oa74Ed90gm | 59 | Male | White | 124.0 | 165.10 | 36.89000 |
| ## 206 | Eg09gedBMk | 56 | Male | White | 96.4 | 159.00 | 28.72738 |
| ## 207 | DjjRrZGNhd | 52 | F | White | 159.2 | 185.00 | 22.79000 |
| ## 209 | 8NReDzR0yU | 56 | Female | White | 96.0 | 172.70 | 51.61000 |
| ## 210 | uQKbY0aHUH | 49 | M | White | 96.1 | 190.00 | 16.00043 |
| ## 214 | argAUZmnvn | 40 | M | Other | 65.0 | 177.80 | 52.64000 |
| ## 216 | 4Zz11lNgXL | 37 | M | White | 122.0 | 175.30 | 33.04000 |
| ## 217 | 9wMC9Rqblr | 77 | Male | White | 58.0 | 175.30 | 24.63531 |

| | | | | | | | | |
|----|-----|-------------|----|--------|----------|-------|--------|----------|
| ## | 220 | nY6IQYyUNJ | 29 | M | White | 101.0 | NA | 27.80000 |
| ## | 223 | pL7cjkuchS | 49 | M | White | 98.9 | 175.30 | 20.20000 |
| ## | 226 | 9RJXcM3JN2 | 65 | Male | White | 115.0 | 180.30 | 40.84000 |
| ## | 229 | cCnBeL4FBu | 67 | Male | White | 107.0 | 189.00 | 23.84620 |
| ## | 230 | 3KSfMkioqd | 28 | Male | White | NA | 161.30 | 22.80852 |
| ## | 231 | XLquXLGSRi | 64 | M | White | 107.0 | 162.60 | 32.72000 |
| ## | 234 | 5u0Xu0Tdc0 | 64 | F | White | 73.7 | 180.30 | 52.70000 |
| ## | 235 | CxsoWM1PJ7 | 52 | M | White | 95.0 | 170.20 | 39.14000 |
| ## | 236 | AQXGYHxdC0 | 47 | Male | White | 96.0 | 196.00 | 32.06000 |
| ## | 237 | sMJ8f6IKAW | 65 | M | White | 110.0 | 175.30 | 42.21000 |
| ## | 238 | isLH4ZYjDV | 65 | M | White | 154.7 | 175.30 | 36.56337 |
| ## | 239 | SHVAA5chqV | 78 | F | White | 66.2 | 162.60 | 36.56337 |
| ## | 240 | aCmgyoBDAU | 61 | M | White | 99.9 | 182.90 | 23.20312 |
| ## | 242 | Yx4YroY44a | 29 | F | White | 85.6 | 162.60 | 46.48022 |
| ## | 244 | Eg09gedBMk | 69 | M | White | 113.7 | NA | 34.81000 |
| ## | 245 | wExoR3npUK | 62 | Female | White | 96.1 | NA | 39.71000 |
| ## | 246 | RLIZJgcVd8 | 57 | M | Other | 77.9 | 180.00 | 32.50000 |
| ## | 247 | pNzvvrqNfXv | 29 | Female | White | 125.2 | 170.00 | 21.53000 |
| ## | 249 | oa74Ed90gm | 70 | F | White | 105.3 | 185.40 | 30.75000 |
| ## | 250 | 3NQYqtSjUW | 67 | F | White | 122.0 | 160.54 | 28.90000 |
| ## | 251 | dt1qZYVvWv | 65 | M | White | 100.3 | 182.90 | 32.50000 |
| ## | 252 | 3NQYqtSjUW | 44 | Female | White | 75.2 | 163.00 | 26.90644 |
| ## | 253 | IwoGIkuRxW | 40 | F | Black | 110.0 | 172.70 | 38.19000 |
| ## | 254 | nY6IQYyUNJ | 30 | F | White | 110.0 | 160.54 | 48.44000 |
| ## | 255 | XjRrih0zHr | 56 | M | White | 94.1 | 184.00 | 26.01000 |
| ## | 256 | sMJ8f6IKAW | 70 | Male | White | 82.0 | 163.00 | 34.45000 |
| ## | 257 | OwwryljbEQ | 54 | F | White | 115.0 | 162.00 | 34.32992 |
| ## | 259 | gvQFBONZVL | 78 | F | White | 50.4 | 160.00 | 26.90644 |
| ## | 260 | wfzftPR62C | 40 | Male | White | 127.3 | 188.00 | 34.58000 |
| ## | 261 | xPNg98Rj2c | 36 | M | <NA> | 95.0 | 175.30 | 32.85000 |
| ## | 262 | XLquXLGSRi | 40 | F | White | 104.0 | 152.40 | NA |
| ## | 263 | 5u0Xu0Tdc0 | 47 | M | White | 124.0 | 170.20 | 23.71094 |
| ## | 264 | oa74Ed90gm | 67 | M | White | 160.0 | 172.50 | 17.40000 |
| ## | 265 | 8NRdZr0yU | 56 | M | White | 97.5 | 154.90 | 31.01507 |
| ## | 268 | AQXGYHxdC0 | 53 | Female | White | 66.2 | 184.50 | 23.06000 |
| ## | 269 | wExoR3npUK | 53 | M | White | 81.7 | 157.50 | 25.51000 |
| ## | 270 | e2XxEm3acg | 67 | M | White | 101.0 | 170.20 | 22.48000 |
| ## | 271 | HDHj5t6h8Q | 58 | M | White | 125.5 | 165.10 | 30.23000 |
| ## | 272 | mcVVfH0KE | 47 | F | White | 105.0 | 185.40 | 46.87297 |
| ## | 273 | gJ2ERPGGQc | 62 | Male | White | 59.4 | 172.70 | 50.58000 |
| ## | 274 | JibNJxmh9o | 59 | Male | Black | 123.0 | 182.90 | 32.04000 |
| ## | 275 | WpXIJg30L2 | 27 | M | White | 114.8 | 172.70 | 31.88000 |
| ## | 276 | sMJ8f6IKAW | 54 | M | White | 96.1 | 182.30 | 37.30000 |
| ## | 277 | eWV175w604 | 53 | Male | White | 103.5 | 188.00 | 37.77000 |
| ## | 278 | gJ2ERPGGQc | 41 | Male | White | 81.9 | 176.00 | 28.83000 |
| ## | 279 | ghGLxbqUot | 29 | Female | <NA> | 136.9 | 170.20 | 32.29000 |
| ## | 280 | eWV175w604 | 57 | F | White | 123.0 | 185.40 | 22.48000 |
| ## | 282 | 7VN31dBvd0 | 29 | F | White | 73.0 | 172.00 | 35.80000 |
| ## | 286 | mcVVfH0KE | 31 | F | White | 80.4 | 175.00 | 34.43000 |
| ## | 287 | ghGLxbqUot | 59 | M | White | 55.7 | 149.90 | 31.59122 |
| ## | 289 | dt1qZYVvWv | 44 | M | White | 107.0 | 170.20 | 56.78000 |
| ## | 290 | W0709mDWf5 | 27 | Male | Black | 140.0 | 180.00 | 19.57000 |
| ## | 293 | l0dDAKKGyk | 48 | Male | Hispanic | 76.8 | 167.60 | 31.77000 |
| ## | 294 | usAagb3Ys8 | 63 | F | White | 64.7 | 177.80 | 42.58000 |

| | | | | | | | | |
|----|-----|------------|----|--------|----------|-------|--------|----------|
| ## | 296 | PlSf6mx953 | 52 | M | White | 85.7 | 162.60 | 26.08525 |
| ## | 297 | 7TZZyY0yMi | 49 | F | White | 51.3 | 167.60 | 37.33000 |
| ## | 298 | HDHj5t6h8Q | 31 | M | White | 99.2 | 183.00 | 34.76000 |
| ## | 299 | u8FjkVujGh | 44 | M | White | 69.2 | 173.60 | 42.14943 |
| ## | 300 | pL7cjkuchS | 58 | M | White | 86.5 | 185.40 | 25.78740 |
| ## | 301 | RUJwKyHR6 | 17 | M | White | 115.3 | 162.60 | 38.71000 |
| ## | 302 | XjRrih0zHr | 38 | Female | White | 102.9 | 179.60 | 26.01000 |
| ## | 303 | IqbiKaQrSQ | 39 | M | White | 98.5 | 182.90 | 31.67000 |
| ## | 305 | 3KSfMkioqd | 64 | F | White | 148.0 | 170.20 | 33.53012 |
| ## | 308 | KL9bwQLGY3 | 56 | Female | White | 90.4 | 175.30 | 35.80000 |
| ## | 314 | w1d5gK19AF | 67 | M | White | 86.3 | 152.00 | 29.30000 |
| ## | 315 | d1K0bvMARw | 32 | M | White | 82.4 | 170.20 | 46.58000 |
| ## | 316 | vlb0gzZhmX | 81 | M | White | 50.2 | 170.20 | 43.27000 |
| ## | 319 | rPjBoa86kB | 49 | M | White | 114.8 | 163.00 | 21.53000 |
| ## | 320 | u8FjkVujGh | 29 | Female | White | 88.4 | 198.10 | 53.20000 |
| ## | 323 | FlV8vFlekH | 49 | M | Black | 97.6 | 170.20 | 41.79592 |
| ## | 324 | vSewHcBXnT | 61 | F | White | 132.0 | 188.00 | 25.51000 |
| ## | 326 | GMM5IIMsks | 53 | Female | White | 85.4 | 182.90 | 40.39018 |
| ## | 328 | ysIXFTGIsU | 51 | F | <NA> | NA | 147.30 | 29.76000 |
| ## | 330 | 9wMC9Rqblr | 55 | M | White | 124.0 | 160.00 | 31.26370 |
| ## | 332 | zsEXlQoxFm | 58 | Female | White | 105.0 | 162.90 | 36.08000 |
| ## | 333 | CUkgYtax4B | 14 | M | White | 70.1 | 163.00 | 36.00000 |
| ## | 334 | zsEXlQoxFm | 49 | F | White | 122.0 | 183.00 | 41.54000 |
| ## | 336 | sdfifHRB6T | 25 | M | White | 83.2 | 157.00 | 28.38000 |
| ## | 337 | bGRYJRCGmT | 53 | F | White | 79.7 | 170.20 | 33.82641 |
| ## | 342 | 7TZZyY0yMi | 50 | Male | White | 96.4 | 150.00 | 26.57000 |
| ## | 344 | EePz5z50fK | 43 | F | White | 170.0 | 188.00 | 32.29000 |
| ## | 345 | nY6IQYyUNJ | 69 | F | White | 146.0 | 171.50 | 37.05333 |
| ## | 346 | C2DRgzRqj7 | 61 | Male | White | 92.8 | 172.70 | 24.82459 |
| ## | 347 | v9PAyt2zS6 | 14 | Male | White | 124.0 | 182.90 | 38.59000 |
| ## | 348 | gJ2ERPGGQc | 65 | M | White | 122.0 | 170.20 | 30.27000 |
| ## | 350 | ysIXFTGIsU | 83 | M | White | 65.0 | 160.00 | 37.17000 |
| ## | 352 | v9PAyt2zS6 | 61 | M | White | 64.5 | 160.00 | 32.49000 |
| ## | 353 | gJ2ERPGGQc | 36 | F | White | 86.5 | 170.20 | 31.44437 |
| ## | 355 | XjRrih0zHr | 60 | Male | Black | 100.3 | 170.00 | 33.53012 |
| ## | 357 | | NA | | <NA> | NA | NA | NA |
| ## | 359 | OwwryljbEQ | 44 | Male | White | 193.7 | 177.00 | 34.22041 |
| ## | 361 | vSewHcBXnT | 35 | M | White | 79.0 | 154.90 | 30.53000 |
| ## | 363 | | NA | | <NA> | NA | NA | NA |
| ## | 364 | ekDtKmOTAg | 38 | F | White | 84.1 | 190.50 | 31.44766 |
| ## | 365 | v9PAyt2zS6 | 63 | Male | Black | 132.0 | 185.00 | 34.81000 |
| ## | 368 | eTIP4hpddm | 30 | F | Black | 110.9 | 180.30 | 40.13841 |
| ## | 369 | TXgFTizXwY | 39 | <NA> | Black | 75.2 | 185.40 | 27.70000 |
| ## | 372 | 1P5kPzvd9t | 76 | F | White | 80.7 | 157.70 | 26.01070 |
| ## | 374 | EePz5z50fK | 62 | F | Hispanic | 96.0 | 172.70 | 21.81000 |
| ## | 375 | VVxY2ojzOG | 76 | M | White | 125.0 | 170.20 | 51.60000 |
| ## | 376 | TXgFTizXwY | 59 | M | White | 89.9 | 182.90 | 33.82641 |
| ## | 378 | GW3gmyWKj7 | 48 | M | White | 79.4 | 172.00 | 37.47000 |
| ## | 379 | 7kQUZ43oC8 | 53 | Male | White | 90.7 | NA | 24.68372 |
| ## | 380 | IqbiKaQrSQ | 51 | F | White | 81.6 | 165.10 | 33.62000 |
| ## | 381 | XH0DUqel1R | 65 | Female | White | 78.3 | 195.60 | 25.28000 |
| ## | 382 | Yx4YroY44a | 39 | M | Black | 94.7 | 172.70 | NA |
| ## | 383 | nY6IQYyUNJ | 72 | Male | White | 113.7 | 183.00 | 23.84620 |
| ## | 384 | sMJ8f6IKAW | NA | M | White | 78.3 | 157.00 | 15.60000 |

| | | | | | | | | | |
|----|-----|-------------------|-----------|--------|-----------|--------------|---------|----------|-------|
| ## | 385 | 5TLquRFvBi | 43 | F | White | 69.8 | 177.80 | 39.03000 | |
| ## | 386 | ar1fphuqKw | 58 | Male | White | 115.0 | 163.00 | 37.08000 | |
| ## | 387 | ekDtKmOTAg | 55 | Female | White | 78.2 | 131.30 | 18.53688 | |
| ## | 389 | qapZgo14KS | 53 | F | White | 90.8 | 182.90 | 28.38000 | |
| ## | 391 | v1b0gzZhmX | 26 | Male | White | 160.0 | 185.40 | 38.44212 | |
| ## | 393 | PlSf6mx953 | 22 | F | White | 83.5 | 162.60 | 38.43000 | |
| ## | 397 | 4Zz1llngXL | 30 | Male | White | 154.7 | 198.10 | 18.79425 | |
| ## | 398 | S65F25Nb7v | 54 | <NA> | White | 96.0 | 182.90 | 22.25945 | |
| ## | 399 | xPNg98Rj2c | 49 | F | White | 58.3 | 175.00 | 26.11877 | |
| ## | 400 | sMJ8f6IKAW | 32 | Male | White | 95.7 | 165.10 | 17.40000 | |
| ## | 403 | TeelI019by | 18 | M | White | 82.0 | 188.00 | 31.59750 | |
| ## | 404 | aCmgyoBDAU | 35 | M | White | 190.5 | 185.40 | 26.55000 | |
| ## | 406 | erG5SEIJWp | 40 | Male | White | 114.0 | 167.00 | 35.19692 | |
| ## | 407 | IcjCW6rMOW | 24 | M | White | 95.4 | 190.50 | 26.57000 | |
| ## | 408 | isLH4ZYjDV | 68 | Female | White | 123.0 | 182.90 | 38.68000 | |
| ## | 409 | RLIZJgcVd8 | 60 | F | White | 164.9 | 175.30 | 50.58000 | |
| ## | 411 | uQKbY0aHUh | 25 | Male | White | 100.0 | 182.90 | 37.51850 | |
| ## | 414 | 1uksyaSHeL | 44 | Female | White | 105.3 | 160.00 | 21.40290 | |
| ## | 416 | WpXIJg30L2 | 32 | M | White | 79.8 | 160.00 | 33.11000 | |
| ## | 417 | JibNJxmh9o | 23 | F | White | 90.8 | 74.00 | 26.31000 | |
| ## | 418 | 1uksyaSHeL | 47 | Female | White | 122.0 | 167.60 | 32.22488 | |
| ## | 419 | sdfifHRB6T | 59 | F | White | 159.2 | 162.90 | 32.06000 | |
| ## | 422 | qapZgo14KS | 67 | M | Black | 132.0 | 175.30 | 27.04000 | |
| ## | 423 | xxah5hoZVX | 42 | F | White | 82.7 | 160.00 | 37.67000 | |
| ## | | | | | diagnosis | reintubation | trached | ph | co2 |
| ## | 1 | | | | COVID-19 | NA | FALSE | 6.96 | 33.1 |
| ## | 2 | | | | COVID-19 | FALSE | FALSE | 7.41 | NA |
| ## | 3 | Other respiratory | condition | | FALSE | TRUE | | 7.39 | 42.7 |
| ## | 4 | | | | COVID-19 | NA | FALSE | 7.18 | 72.0 |
| ## | 5 | Cardiovascular | condition | | FALSE | TRUE | | 7.44 | 62.0 |
| ## | 6 | | | | COVID-19 | FALSE | FALSE | 7.42 | NA |
| ## | 7 | | | | Other | FALSE | FALSE | 7.34 | 44.3 |
| ## | 8 | | | | <NA> | FALSE | TRUE | 7.28 | 37.0 |
| ## | 9 | | | | COVID-19 | NA | TRUE | 7.18 | 44.0 |
| ## | 10 | | | | <NA> | NA | FALSE | 7.09 | 77.0 |
| ## | 11 | | | | COVID-19 | NA | TRUE | 7.6 | 39.0 |
| ## | 12 | | | | COVID-19 | FALSE | FALSE | NDA | 59.0 |
| ## | 13 | Other respiratory | condition | | FALSE | FALSE | | NDA | 59.0 |
| ## | 20 | | | | <NA> | NA | TRUE | 7.08 | NA |
| ## | 21 | Other respiratory | condition | | NA | FALSE | | <NA> | 35.7 |
| ## | 23 | Other respiratory | condition | | FALSE | TRUE | | 7.24 | 44.0 |
| ## | 24 | | | | COVID-19 | FALSE | FALSE | 7.32 | 72.0 |
| ## | 25 | Cardiovascular | condition | | NA | FALSE | | 7.32 | 58.3 |
| ## | 28 | Cardiovascular | condition | | NA | TRUE | | 7.09 | NA |
| ## | 29 | Other respiratory | condition | | FALSE | TRUE | | 7.35 | 38.0 |
| ## | 30 | | | | COVID-19 | FALSE | FALSE | 7.02 | 36.0 |
| ## | 31 | | | | <NA> | NA | FALSE | 7.45 | 47.3 |
| ## | 34 | | | | <NA> | FALSE | TRUE | 7.46 | 75.0 |
| ## | 35 | Other respiratory | condition | | TRUE | FALSE | | 7.39 | 37.0 |
| ## | 36 | Cardiovascular | condition | | FALSE | TRUE | | 7.11 | NA |
| ## | 39 | | | | <NA> | NA | FALSE | 7.49 | 41.6 |
| ## | 40 | Other respiratory | infection | | TRUE | NA | | 7.39 | 30.0 |
| ## | 42 | | | | Other | FALSE | TRUE | 7.11 | NA |
| ## | 43 | | | | COVID-19 | NA | TRUE | 7.36 | 100.0 |

| | | | | | |
|--------|-----------------------------|-------|-------|------------------|-------|
| ## 44 | Other respiratory infection | FALSE | TRUE | 7.41 | 75.0 |
| ## 46 | COVID-19 | NA | FALSE | 7.14 | 38.0 |
| ## 47 | COVID-19 | FALSE | TRUE | 7.2 | 45.0 |
| ## 48 | Other | FALSE | FALSE | 6.95 | NA |
| ## 49 | Other respiratory condition | FALSE | TRUE | 7.20 | 19.5 |
| ## 50 | Other respiratory condition | FALSE | TRUE | NDA | 37.0 |
| ## 52 | Other respiratory condition | NA | TRUE | 7.26 | NA |
| ## 53 | COVID-19 | NA | FALSE | NDA | NA |
| ## 54 | COVID-19 | NA | FALSE | 7.40 | NA |
| ## 55 | Other respiratory condition | FALSE | NA | 7.37 | 72.0 |
| ## 57 | Cardiovascular condition | TRUE | FALSE | 7.21 | NA |
| ## 59 | <NA> | NA | FALSE | 7.46 | 64.0 |
| ## 61 | Cardiovascular condition | FALSE | TRUE | 7.38 | NA |
| ## 64 | <NA> | FALSE | FALSE | 7.10 | 59.0 |
| ## 66 | Cardiovascular condition | FALSE | NA | 7.28 | 51.0 |
| ## 69 | COVID-19 | NA | TRUE | NDA | 30.0 |
| ## 71 | <NA> | TRUE | FALSE | <NA> | 48.0 |
| ## 72 | Cardiovascular condition | NA | TRUE | 7.44 | 39.0 |
| ## 74 | Cardiovascular condition | FALSE | NA | 7.25 | 101.8 |
| ## 75 | Cardiovascular condition | FALSE | FALSE | NDA | 86.0 |
| ## 76 | Other respiratory condition | FALSE | TRUE | 7.49 | NA |
| ## 77 | <NA> | FALSE | TRUE | 7.43 | NA |
| ## 79 | Cardiovascular condition | FALSE | FALSE | 7.43 | 61.0 |
| ## 82 | COVID-19 | FALSE | FALSE | NDA | NA |
| ## 83 | <NA> | FALSE | NA | 7.11 | 56.3 |
| ## 84 | Other | FALSE | FALSE | 7.37 | 115.0 |
| ## 85 | Cardiovascular condition | FALSE | TRUE | 7.36 | NA |
| ## 86 | <NA> | FALSE | TRUE | 7.40 | 36.0 |
| ## 88 | COVID-19 | FALSE | NA | 7.11 | 35.0 |
| ## 89 | Other | NA | FALSE | 7.27 | 41.0 |
| ## 91 | COVID-19 | FALSE | FALSE | 7.33 | 56.0 |
| ## 92 | Other respiratory condition | NA | NA | NDA | 44.0 |
| ## 93 | COVID-19 | NA | FALSE | 7.36 | 46.0 |
| ## 95 | <NA> | FALSE | TRUE | 7.22 | 39.0 |
| ## 96 | Other respiratory condition | FALSE | TRUE | 7.08 | 41.0 |
| ## 97 | Other | TRUE | FALSE | 7.36 | NA |
| ## 98 | Other respiratory condition | FALSE | TRUE | 7.27 | 63.4 |
| ## 100 | Cardiovascular condition | NA | FALSE | 7.37 | 33.8 |
| ## 102 | Cardiovascular condition | FALSE | FALSE | NDA | 56.3 |
| ## 103 | COVID-19 | FALSE | NA | 6.78 | 43.0 |
| ## 104 | Other respiratory condition | FALSE | FALSE | NDA | 74.0 |
| ## 105 | Cardiovascular condition | NA | TRUE | 7.48 | 39.0 |
| ## 106 | Cardiovascular condition | TRUE | TRUE | 7.11 | 35.0 |
| ## 107 | COVID-19 | NA | FALSE | 7.11 | 71.9 |
| ## 108 | Cardiovascular condition | NA | FALSE | NDA | 40.0 |
| ## 109 | Cardiovascular condition | FALSE | FALSE | 7.16 | 79.0 |
| ## 111 | Cardiovascular condition | NA | FALSE | 7.42 | 41.9 |
| ## 112 | Cardiovascular condition | FALSE | FALSE | NDA | 62.0 |
| ## 113 | Other | NA | FALSE | no info from OSH | NA |
| ## 116 | COVID-19 | FALSE | FALSE | 7.22 | 57.0 |
| ## 117 | Other | NA | NA | <NA> | 48.0 |
| ## 121 | Cardiovascular condition | FALSE | TRUE | 7.24 | 57.0 |
| ## 122 | Cardiovascular condition | FALSE | NA | 7.47 | 128.0 |
| ## 123 | Other respiratory condition | FALSE | FALSE | 7.24 | 75.0 |

| | | | | | |
|--------|-----------------------------|-------|-------|---------------------|-------|
| ## 124 | Other respiratory infection | NA | FALSE | 7.31 | 56.3 |
| ## 126 | COVID-19 | FALSE | FALSE | NDA | NA |
| ## 127 | Cardiovascular condition | FALSE | TRUE | 7.22 | NA |
| ## 128 | Other respiratory infection | TRUE | FALSE | 7.22 | 37.0 |
| ## 129 | Other respiratory condition | NA | FALSE | 7.3 | 60.0 |
| ## 134 | Other respiratory condition | NA | FALSE | 7.1 | 48.0 |
| ## 135 | Cardiovascular condition | NA | FALSE | 7.09 | 39.4 |
| ## 136 | COVID-19 | NA | NA | 7.06 | 37.0 |
| ## 137 | COVID-19 | TRUE | NA | 7.31 | NA |
| ## 139 | Cardiovascular condition | NA | FALSE | 7.32 | 59.0 |
| ## 140 | COVID-19 | NA | FALSE | NDA | 12.0 |
| ## 141 | Cardiovascular condition | FALSE | FALSE | NDA | 38.4 |
| ## 142 | Other | NA | TRUE | 7.34 | 47.0 |
| ## 144 | Other | NA | FALSE | 7.35 | 71.8 |
| ## 145 | Cardiovascular condition | FALSE | TRUE | <NA> | 31.0 |
| ## 148 | Cardiovascular condition | NA | NA | 7.33 | 37.0 |
| ## 149 | COVID-19 | FALSE | FALSE | 7.33 | 60.0 |
| ## 151 | COVID-19 | NA | TRUE | 7.21 | 38.4 |
| ## 152 | Cardiovascular condition | TRUE | FALSE | 7.35 | NA |
| ## 156 | Cardiovascular condition | FALSE | NA | 7.46 | 63.4 |
| ## 157 | COVID-19 | NA | NA | 7.11 | 77.0 |
| ## 158 | Cardiovascular condition | NA | TRUE | 7.21 | 59.0 |
| ## 159 | Cardiovascular condition | FALSE | TRUE | no info from OSH | 45.0 |
| ## 160 | COVID-19 | NA | NA | 7.31 | 47.3 |
| ## 162 | Other | NA | TRUE | Not Available | 46.0 |
| ## 164 | Other respiratory condition | NA | FALSE | 7.42 | 60.0 |
| ## 165 | Cardiovascular condition | NA | TRUE | 7.04 | 43.0 |
| ## 166 | <NA> | NA | FALSE | 7.32099999999999884 | 46.0 |
| ## 168 | Cardiovascular condition | NA | FALSE | 7.11 | 36.0 |
| ## 169 | Other respiratory condition | NA | TRUE | 7.22 | 34.0 |
| ## 171 | Other respiratory condition | NA | TRUE | 7.4 | 41.0 |
| ## 172 | COVID-19 | NA | NA | NDA | 61.0 |
| ## 174 | Cardiovascular condition | FALSE | FALSE | 7.27 | 24.2 |
| ## 176 | Cardiovascular condition | FALSE | TRUE | 7.04 | 71.6 |
| ## 177 | Cardiovascular condition | FALSE | TRUE | 6.78 | 64.0 |
| ## 178 | COVID-19 | NA | FALSE | 7.52 | 31.0 |
| ## 179 | Cardiovascular condition | TRUE | NA | 7.31 | 31.0 |
| ## 183 | COVID-19 | FALSE | TRUE | 7.14 | NA |
| ## 184 | COVID-19 | NA | TRUE | <NA> | 56.0 |
| ## 185 | Cardiovascular condition | NA | FALSE | 7.31 | 75.0 |
| ## 188 | Other respiratory condition | FALSE | TRUE | not measured | 81.0 |
| ## 189 | COVID-19 | NA | NA | 7.52 | 53.0 |
| ## 193 | Other respiratory condition | NA | FALSE | 7.43 | 24.2 |
| ## 194 | Other respiratory condition | NA | NA | 7.12 | 60.0 |
| ## 195 | Other | FALSE | NA | 7.39 | 80.3 |
| ## 199 | COVID-19 | FALSE | TRUE | 7.49 | 49.0 |
| ## 200 | Other respiratory infection | NA | TRUE | <NA> | 64.8 |
| ## 201 | COVID-19 | NA | TRUE | 7.37 | 128.0 |
| ## 202 | <NA> | FALSE | NA | 7.31 | 33.1 |
| ## 204 | Cardiovascular condition | FALSE | TRUE | 7.11 | NA |
| ## 206 | Cardiovascular condition | NA | FALSE | <NA> | 86.0 |
| ## 207 | COVID-19 | NA | TRUE | 7.42 | NA |
| ## 209 | <NA> | NA | TRUE | 7.31 | 50.7 |
| ## 210 | Other respiratory condition | FALSE | FALSE | 7.32 | NA |

| | | | | | |
|--------|-----------------------------|-------|-------|---------------------|-------|
| ## 214 | COVID-19 | FALSE | NA | 7.49 | 44.3 |
| ## 216 | Cardiovascular condition | NA | TRUE | 7.38 | 63.0 |
| ## 217 | Other respiratory condition | TRUE | NA | 7.37 | NA |
| ## 220 | COVID-19 | TRUE | TRUE | 7.39 | NA |
| ## 223 | Other respiratory condition | NA | FALSE | 7.39 | 34.0 |
| ## 226 | Cardiovascular condition | FALSE | FALSE | 7.25 | 53.0 |
| ## 229 | COVID-19 | FALSE | FALSE | 7.30 | 43.0 |
| ## 230 | Cardiovascular condition | FALSE | FALSE | 7.26 | 43.0 |
| ## 231 | COVID-19 | NA | NA | 7.33 | 39.4 |
| ## 234 | Other respiratory condition | FALSE | FALSE | 7.40 | NA |
| ## 235 | COVID-19 | FALSE | TRUE | 7.33 | 43.9 |
| ## 236 | Other respiratory infection | NA | FALSE | 7.29 | NA |
| ## 237 | COVID-19 | FALSE | TRUE | 7.34 | 64.0 |
| ## 238 | COVID-19 | FALSE | TRUE | 7.20 | 44.3 |
| ## 239 | COVID-19 | NA | NA | 7.6 | 63.0 |
| ## 240 | Other respiratory infection | NA | TRUE | 7.21 | 56.3 |
| ## 242 | Other respiratory infection | NA | FALSE | N | 63.0 |
| ## 244 | COVID-19 | FALSE | FALSE | 7.25 | 48.0 |
| ## 245 | COVID-19 | FALSE | FALSE | 7.41 | 40.0 |
| ## 246 | COVID-19 | FALSE | FALSE | 7.45 | 47.3 |
| ## 247 | Cardiovascular condition | NA | NA | 6.78 | 36.2 |
| ## 249 | Cardiovascular condition | FALSE | TRUE | <NA> | 57.0 |
| ## 250 | COVID-19 | NA | FALSE | 7.11 | 86.0 |
| ## 251 | Other respiratory condition | NA | TRUE | 7.38 | 60.0 |
| ## 252 | Cardiovascular condition | TRUE | TRUE | 7.38 | 58.0 |
| ## 253 | COVID-19 | FALSE | FALSE | 7.42 | 39.0 |
| ## 254 | Cardiovascular condition | NA | NA | 7.33 | 57.0 |
| ## 255 | COVID-19 | FALSE | TRUE | 7.12 | 52.0 |
| ## 256 | Other | NA | TRUE | 6.86 | 34.0 |
| ## 257 | Other | FALSE | FALSE | 7.31 | 71.5 |
| ## 259 | COVID-19 | NA | NA | NDA | 47.0 |
| ## 260 | COVID-19 | NA | FALSE | NDA | 48.0 |
| ## 261 | Cardiovascular condition | FALSE | NA | 7.36 | 19.5 |
| ## 262 | COVID-19 | FALSE | NA | 7.16 | 24.2 |
| ## 263 | COVID-19 | NA | TRUE | 7.15299999999999958 | NA |
| ## 264 | Other | NA | FALSE | 7.37 | 43.9 |
| ## 265 | Other respiratory condition | NA | TRUE | 7.15 | 56.0 |
| ## 268 | <NA> | TRUE | TRUE | 7.24 | 52.0 |
| ## 269 | Cardiovascular condition | FALSE | FALSE | 7.04 | 70.0 |
| ## 270 | Other respiratory condition | NA | NA | 7.26 | 125.0 |
| ## 271 | COVID-19 | NA | TRUE | 7.22 | 57.0 |
| ## 272 | Other respiratory infection | NA | TRUE | 7.30 | 53.0 |
| ## 273 | Other respiratory condition | NA | FALSE | 7.35 | 39.5 |
| ## 274 | Cardiovascular condition | FALSE | NA | 7.10 | 48.0 |
| ## 275 | Other respiratory infection | FALSE | FALSE | 7.21 | 61.0 |
| ## 276 | Other respiratory infection | FALSE | FALSE | NDA | 77.0 |
| ## 277 | Cardiovascular condition | NA | FALSE | 7.24 | NA |
| ## 278 | COVID-19 | NA | FALSE | 7.26 | 52.0 |
| ## 279 | <NA> | FALSE | NA | 7.20 | 63.0 |
| ## 280 | Cardiovascular condition | FALSE | FALSE | NDA | 51.0 |
| ## 282 | Cardiovascular condition | FALSE | NA | 7.11 | 49.0 |
| ## 286 | Cardiovascular condition | FALSE | TRUE | 7.2 | 53.0 |
| ## 287 | Cardiovascular condition | FALSE | NA | 7.53 | 31.0 |
| ## 289 | Other respiratory condition | FALSE | TRUE | NDA | 37.3 |

| | | | | | |
|--------|-----------------------------|-------|-------|--------------|-------|
| ## 290 | Cardiovascular condition | NA | FALSE | 7.02 | NA |
| ## 293 | <NA> | FALSE | FALSE | NDA | 49.0 |
| ## 294 | Cardiovascular condition | NA | FALSE | 7.3 | 35.7 |
| ## 296 | Cardiovascular condition | NA | TRUE | 7.09 | 77.0 |
| ## 297 | COVID-19 | NA | FALSE | V: 6.92 | 108.0 |
| ## 298 | Other | NA | TRUE | 7.27 | 44.0 |
| ## 299 | COVID-19 | NA | FALSE | 7.36 | 62.5 |
| ## 300 | Other respiratory condition | NA | TRUE | 7.35 | 39.4 |
| ## 301 | COVID-19 | FALSE | TRUE | 7.40 | 30.0 |
| ## 302 | COVID-19 | NA | TRUE | NDA | NA |
| ## 303 | Cardiovascular condition | NA | TRUE | 7.31 | 51.0 |
| ## 305 | Other respiratory condition | TRUE | TRUE | 7.52 | 37.3 |
| ## 308 | Other | TRUE | NA | NDA | 48.0 |
| ## 314 | Other respiratory condition | NA | FALSE | 7.15 | 56.2 |
| ## 315 | Cardiovascular condition | FALSE | FALSE | 7.33 | NA |
| ## 316 | Cardiovascular condition | TRUE | TRUE | NDA | 45.0 |
| ## 319 | COVID-19 | FALSE | NA | 7.14 | 61.0 |
| ## 320 | Other respiratory condition | TRUE | TRUE | 7.11 | 51.0 |
| ## 323 | Other respiratory condition | FALSE | FALSE | 7.34 | 39.0 |
| ## 324 | Other | FALSE | FALSE | 7.17 | 48.0 |
| ## 326 | Other respiratory condition | NA | FALSE | 7.43 | 39.0 |
| ## 328 | Other respiratory condition | FALSE | NA | 7.49 | 33.0 |
| ## 330 | COVID-19 | TRUE | TRUE | 7.44 | NA |
| ## 332 | Other respiratory condition | FALSE | NA | 7.27 | 42.7 |
| ## 333 | Cardiovascular condition | FALSE | TRUE | 7.41 | 45.0 |
| ## 334 | Cardiovascular condition | NA | FALSE | 7.33 | 77.0 |
| ## 336 | COVID-19 | FALSE | NA | not measured | 68.0 |
| ## 337 | Other | FALSE | FALSE | 7.24 | 42.7 |
| ## 342 | Other | NA | FALSE | 7.23 | 39.4 |
| ## 344 | COVID-19 | FALSE | FALSE | 7.24 | 42.0 |
| ## 345 | COVID-19 | FALSE | FALSE | 7.10 | NA |
| ## 346 | Cardiovascular condition | NA | FALSE | 7.12 | 43.9 |
| ## 347 | COVID-19 | FALSE | NA | 7.26 | 63.0 |
| ## 348 | <NA> | TRUE | TRUE | 6.78 | 125.0 |
| ## 350 | COVID-19 | FALSE | FALSE | 7.35 | NA |
| ## 352 | COVID-19 | FALSE | TRUE | 7.35 | NA |
| ## 353 | COVID-19 | NA | TRUE | 7.48 | 36.0 |
| ## 355 | COVID-19 | NA | FALSE | 7.14 | NA |
| ## 357 | <NA> | NA | NA | | NA |
| ## 359 | Other respiratory infection | FALSE | FALSE | 7.12 | NA |
| ## 361 | COVID-19 | FALSE | NA | 7.40 | NA |
| ## 363 | <NA> | NA | NA | | NA |
| ## 364 | Other respiratory condition | FALSE | FALSE | 7.42 | 39.5 |
| ## 365 | Cardiovascular condition | NA | TRUE | 7.35 | 72.0 |
| ## 368 | Cardiovascular condition | NA | TRUE | 7.24 | 41.0 |
| ## 369 | <NA> | NA | TRUE | 7.44 | 35.3 |
| ## 372 | Other respiratory condition | TRUE | NA | 7.27 | 80.0 |
| ## 374 | <NA> | FALSE | NA | <NA> | 39.0 |
| ## 375 | Other respiratory infection | FALSE | NA | 7.37 | 43.0 |
| ## 376 | COVID-19 | NA | FALSE | 7.49 | 80.3 |
| ## 378 | COVID-19 | TRUE | TRUE | 7.4 | 32.0 |
| ## 379 | Cardiovascular condition | FALSE | FALSE | 7.35 | 57.0 |
| ## 380 | Other | FALSE | NA | 7.48 | NA |
| ## 381 | COVID-19 | NA | FALSE | 7.05 | 71.9 |

| | | | | | |
|--------|--|-------|-------|------------------|-------|
| ## 382 | Other respiratory condition | FALSE | TRUE | 7.32 | 42.0 |
| ## 383 | Other respiratory condition | FALSE | FALSE | 7.50 | 52.0 |
| ## 384 | COVID-19 | FALSE | NA | 7.54 | 25.0 |
| ## 385 | COVID-19 | NA | TRUE | 7.36 | 62.0 |
| ## 386 | Cardiovascular condition | NA | FALSE | 7.40 | 43.0 |
| ## 387 | COVID-19 | NA | FALSE | 7.12 | 86.0 |
| ## 389 | COVID-19 | TRUE | TRUE | 7.16 | 37.0 |
| ## 391 | <NA> | FALSE | FALSE | 7.39 | 69.0 |
| ## 393 | Cardiovascular condition | FALSE | FALSE | 7.15 | 81.0 |
| ## 397 | COVID-19 | NA | NA | 7.46 | NA |
| ## 398 | <NA> | FALSE | FALSE | 7.32 | NA |
| ## 399 | <NA> | NA | FALSE | 7.42 | 39.0 |
| ## 400 | COVID-19 | FALSE | FALSE | 7.1 | 41.0 |
| ## 403 | COVID-19 | FALSE | FALSE | no info from OSH | NA |
| ## 404 | Cardiovascular condition | TRUE | FALSE | 7.17 | 59.0 |
| ## 406 | Other respiratory condition | FALSE | TRUE | 7.43 | 40.0 |
| ## 407 | <NA> | FALSE | TRUE | 7.28 | 57.0 |
| ## 408 | Other | NA | FALSE | 7.28 | 37.0 |
| ## 409 | Cardiovascular condition | NA | TRUE | 7.33 | 140.0 |
| ## 411 | COVID-19 | NA | FALSE | V: 6.92 | 49.0 |
| ## 414 | Other respiratory condition | NA | FALSE | 7.03 | 53.0 |
| ## 416 | Cardiovascular condition | FALSE | NA | 7.3 | 70.8 |
| ## 417 | Cardiovascular condition | NA | TRUE | 7.23 | 52.0 |
| ## 418 | Cardiovascular condition | FALSE | TRUE | 7.31 | 38.0 |
| ## 419 | Cardiovascular condition | NA | FALSE | 7.23 | 118.0 |
| ## 422 | Cardiovascular condition | FALSE | NA | 7.37 | 72.0 |
| ## 423 | <NA> | FALSE | FALSE | 7.25 | 59.0 |
| ## | o2 lactate_peak creatinine_peak total_bilirubin_peak | | | | |
| ## 1 | 68.0 3.9 2.27 3.9 | | | | |
| ## 2 | 542.0 NA 1.67 NA | | | | |
| ## 3 | NA NA 1.19 NA | | | | |
| ## 4 | 109.0 2.9 0.57 0.9 | | | | |
| ## 5 | NA 2.3 1.04 8.9 | | | | |
| ## 6 | 49.0 2.3 2.08 0.5 | | | | |
| ## 7 | NA NA 3.34 1.0 | | | | |
| ## 8 | 135.0 3.0 3.97 2.7 | | | | |
| ## 9 | NA 8.5 0.83 1.4 | | | | |
| ## 10 | 116.0 9.0 1.14 NA | | | | |
| ## 11 | NA 4.8 NA NA | | | | |
| ## 12 | 49.0 3.7 NA 4.4 | | | | |
| ## 13 | 232.0 3.2 2.04 NA | | | | |
| ## 20 | 80.0 7.3 0.64 4.4 | | | | |
| ## 21 | 186.0 1.5 0.94 1.3 | | | | |
| ## 23 | 69.2 2.6 NA 3.4 | | | | |
| ## 24 | 62.0 13.3 2.80 3.5 | | | | |
| ## 25 | 11.0 2.9 NA 8.9 | | | | |
| ## 28 | NA 2.0 5.52 2.7 | | | | |
| ## 29 | 130.0 2.6 1.90 1.5 | | | | |
| ## 30 | 76.1 6.8 0.40 NA | | | | |
| ## 31 | NA NA 2.97 NA | | | | |
| ## 34 | 25.0 2.0 1.57 1.4 | | | | |
| ## 35 | 125.0 9.0 NA 0.7 | | | | |
| ## 36 | 66.0 1.9 NA 4.6 | | | | |
| ## 39 | 45.8 NA 0.81 NA | | | | |

| | | | | |
|--------|-------|------|------|------|
| ## 40 | 116.0 | 1.9 | 1.90 | NA |
| ## 42 | 51.0 | 2.4 | 6.09 | 2.5 |
| ## 43 | 419.0 | NA | 0.92 | 4.8 |
| ## 44 | 66.0 | 3.7 | 6.02 | NA |
| ## 46 | 208.0 | 3.3 | 0.90 | 4.9 |
| ## 47 | 121.0 | 13.1 | 0.63 | 1.1 |
| ## 48 | 36.0 | 8.5 | 2.91 | 5.4 |
| ## 49 | NA | 4.2 | NA | NA |
| ## 50 | 208.0 | 9.7 | 0.74 | 0.9 |
| ## 52 | 54.0 | 17.5 | NA | 3.0 |
| ## 53 | NA | 2.6 | 0.60 | 29.8 |
| ## 54 | 394.4 | 10.0 | 2.23 | NA |
| ## 55 | NA | 1.0 | 2.28 | 14.0 |
| ## 57 | 253.6 | 8.7 | NA | NA |
| ## 59 | 79.0 | 4.9 | NA | 1.6 |
| ## 61 | 323.0 | 1.9 | NA | NA |
| ## 64 | 76.0 | 3.7 | 4.46 | 2.2 |
| ## 66 | 59.0 | 5.0 | 0.82 | 5.4 |
| ## 69 | 70.0 | 9.4 | NA | 6.7 |
| ## 71 | 27.0 | 12.0 | NA | NA |
| ## 72 | NA | 2.0 | 0.90 | 0.9 |
| ## 74 | 49.0 | NA | 3.00 | 6.8 |
| ## 75 | 98.0 | 3.7 | NA | NA |
| ## 76 | 351.0 | 1.7 | 0.87 | NA |
| ## 77 | NA | 6.6 | 1.50 | 1.6 |
| ## 79 | 253.6 | 2.7 | NA | 1.4 |
| ## 82 | 103.0 | 1.5 | 2.71 | 5.5 |
| ## 83 | 151.0 | 1.9 | 2.64 | 12.6 |
| ## 84 | 408.3 | 2.0 | 0.72 | NA |
| ## 85 | 53.0 | 17.5 | 0.86 | 3.5 |
| ## 86 | 26.0 | 3.2 | 1.86 | 3.7 |
| ## 88 | 207.0 | 2.1 | NA | 0.2 |
| ## 89 | NA | 2.2 | NA | 3.1 |
| ## 91 | 46.0 | 3.9 | 0.60 | NA |
| ## 92 | NA | 4.8 | 2.66 | 15.1 |
| ## 93 | 60.0 | 12.4 | 0.60 | 1.5 |
| ## 95 | 64.0 | 2.4 | 4.09 | 5.5 |
| ## 96 | NA | 4.4 | 4.09 | 0.9 |
| ## 97 | NA | 3.0 | 1.19 | 0.8 |
| ## 98 | NA | 1.2 | 1.57 | 1.6 |
| ## 100 | 39.0 | 2.6 | 1.86 | 1.0 |
| ## 102 | 88.0 | NA | NA | 1.4 |
| ## 103 | 116.0 | 0.9 | NA | 2.9 |
| ## 104 | 99.0 | 1.3 | 2.10 | NA |
| ## 105 | 41.8 | 4.0 | 1.90 | 6.7 |
| ## 106 | NA | 2.1 | NA | NA |
| ## 107 | 68.9 | NA | NA | 1.9 |
| ## 108 | 68.0 | 13.1 | 6.09 | 1.4 |
| ## 109 | 57.0 | 4.8 | 1.35 | 0.7 |
| ## 111 | 175.0 | 11.4 | 0.90 | 12.1 |
| ## 112 | 44.0 | 1.5 | 2.97 | NA |
| ## 113 | NA | NA | 3.00 | NA |
| ## 116 | 69.0 | 2.5 | 0.97 | NA |
| ## 117 | 66.5 | 5.2 | 0.90 | 8.5 |

| | | | | |
|--------|-------|------|------|------|
| ## 121 | 179.3 | 9.5 | 1.56 | 3.6 |
| ## 122 | 38.0 | 2.6 | 0.95 | NA |
| ## 123 | 64.0 | 1.4 | 2.23 | 0.5 |
| ## 124 | 144.9 | 11.4 | 2.15 | NA |
| ## 126 | 56.0 | 2.0 | NA | NA |
| ## 127 | 87.0 | 2.0 | 1.33 | NA |
| ## 128 | NA | 3.8 | 1.03 | 0.8 |
| ## 129 | 68.0 | NA | NA | 0.9 |
| ## 134 | 67.0 | NA | 3.00 | 2.2 |
| ## 135 | NA | 9.4 | 5.12 | NA |
| ## 136 | 41.4 | 1.8 | NA | NA |
| ## 137 | 73.0 | 2.1 | 2.70 | 1.2 |
| ## 139 | 107.0 | 2.9 | 0.54 | 5.5 |
| ## 140 | 525.6 | 3.9 | 3.41 | NA |
| ## 141 | 69.5 | 1.2 | 0.95 | 1.0 |
| ## 142 | NA | 5.2 | 0.94 | 4.0 |
| ## 144 | 63.0 | 29.0 | NA | 1.0 |
| ## 145 | 66.0 | 7.6 | 5.13 | 0.7 |
| ## 148 | 89.4 | NA | NA | NA |
| ## 149 | 376.2 | 5.8 | NA | 6.1 |
| ## 151 | 139.4 | 1.9 | NA | 0.5 |
| ## 152 | 119.0 | 8.3 | NA | 2.6 |
| ## 156 | 108.8 | NA | NA | 8.5 |
| ## 157 | 64.0 | 4.8 | 1.35 | 2.2 |
| ## 158 | 374.7 | NA | NA | NA |
| ## 159 | 80.0 | 2.0 | 1.27 | 1.7 |
| ## 160 | 266.0 | 2.0 | 0.88 | 4.6 |
| ## 162 | 95.0 | 7.9 | NA | 0.8 |
| ## 164 | NA | 2.3 | 2.88 | 0.8 |
| ## 165 | 66.5 | 2.2 | NA | 6.1 |
| ## 166 | 109.6 | 2.4 | 1.33 | 2.6 |
| ## 168 | 135.0 | 10.9 | 1.56 | 12.6 |
| ## 169 | 174.0 | 2.1 | 1.14 | 2.1 |
| ## 171 | 124.0 | 0.8 | 1.72 | 0.7 |
| ## 172 | NA | NA | 0.87 | NA |
| ## 174 | 330.4 | 17.5 | 2.88 | 40.0 |
| ## 176 | 152.0 | 6.2 | 0.92 | 3.4 |
| ## 177 | 19.0 | 4.3 | NA | 1.1 |
| ## 178 | NA | 2.3 | NA | 13.3 |
| ## 179 | 102.6 | 3.8 | NA | NA |
| ## 183 | 67.0 | 2.9 | 0.69 | NA |
| ## 184 | 76.0 | 3.9 | NA | NA |
| ## 185 | 49.0 | 17.5 | NA | NA |
| ## 188 | 330.4 | 1.6 | NA | 19.1 |
| ## 189 | NA | 1.5 | 1.66 | NA |
| ## 193 | NA | 3.0 | 1.19 | 0.8 |
| ## 194 | 102.6 | 2.4 | 5.10 | 1.8 |
| ## 195 | 288.0 | 2.0 | 2.70 | NA |
| ## 199 | 83.0 | NA | 2.66 | NA |
| ## 200 | 383.0 | 6.9 | 1.56 | NA |
| ## 201 | 112.0 | 5.4 | NA | NA |
| ## 202 | 116.0 | 1.5 | 0.73 | 2.5 |
| ## 204 | 53.0 | 15.3 | 0.57 | 4.7 |
| ## 206 | 73.0 | 7.6 | 1.10 | 6.7 |

| | | | | |
|--------|-------|------|------|-----|
| ## 207 | 68.0 | 0.8 | NA | 1.6 |
| ## 209 | 47.0 | 1.7 | 1.38 | NA |
| ## 210 | 86.0 | 2.8 | 7.50 | 0.4 |
| ## 214 | 106.0 | 6.4 | NA | 3.4 |
| ## 216 | 221.0 | 3.2 | NA | NA |
| ## 217 | 65.0 | 2.8 | NA | NA |
| ## 220 | NA | 2.3 | NA | 2.0 |
| ## 223 | 221.0 | 2.5 | 0.63 | 1.3 |
| ## 226 | NA | 2.0 | 0.54 | 8.5 |
| ## 229 | 63.0 | 3.6 | 2.70 | 1.6 |
| ## 230 | 330.4 | 17.5 | 0.96 | NA |
| ## 231 | 54.0 | 9.0 | NA | NA |
| ## 234 | 253.7 | NA | NA | 5.3 |
| ## 235 | 69.0 | 7.8 | 3.11 | 2.6 |
| ## 236 | NA | 2.2 | 1.46 | 0.7 |
| ## 237 | 109.0 | NA | 1.35 | NA |
| ## 238 | 232.0 | 2.9 | NA | 0.4 |
| ## 239 | 19.0 | 5.8 | 1.04 | NA |
| ## 240 | 94.5 | 10.2 | NA | 1.8 |
| ## 242 | NA | 1.7 | 6.09 | 1.0 |
| ## 244 | 287.0 | 3.5 | 2.15 | 2.2 |
| ## 245 | NA | 1.9 | NA | NA |
| ## 246 | 86.0 | 15.4 | 4.25 | NA |
| ## 247 | NA | 17.5 | 1.19 | 1.9 |
| ## 249 | 60.0 | 8.9 | NA | 2.5 |
| ## 250 | 87.0 | NA | 0.71 | 6.1 |
| ## 251 | 76.0 | NA | 1.56 | 0.8 |
| ## 252 | 117.0 | 8.9 | 1.90 | 8.1 |
| ## 253 | 37.9 | 4.8 | NA | NA |
| ## 254 | 56.0 | NA | 1.57 | 0.3 |
| ## 255 | 73.0 | 12.9 | NA | NA |
| ## 256 | 57.0 | 5.2 | 0.51 | 2.6 |
| ## 257 | 107.0 | NA | 0.40 | 8.2 |
| ## 259 | 60.0 | NA | 2.14 | 2.8 |
| ## 260 | 65.0 | 0.9 | 1.04 | 2.9 |
| ## 261 | NA | 3.8 | 1.56 | NA |
| ## 262 | 44.0 | 2.5 | 0.74 | 0.3 |
| ## 263 | 60.0 | 1.9 | NA | 2.4 |
| ## 264 | 61.0 | 10.9 | 1.64 | 0.7 |
| ## 265 | 69.0 | 0.8 | 0.63 | 1.4 |
| ## 268 | 68.9 | 15.4 | 1.10 | 1.1 |
| ## 269 | 266.0 | NA | NA | NA |
| ## 270 | 116.0 | 3.9 | 3.05 | NA |
| ## 271 | 87.0 | 11.7 | 1.96 | 0.3 |
| ## 272 | 124.0 | 8.4 | NA | NA |
| ## 273 | NA | 1.9 | NA | NA |
| ## 274 | 88.0 | 3.5 | NA | 1.6 |
| ## 275 | 52.0 | 10.9 | 1.67 | NA |
| ## 276 | 61.0 | 15.3 | NA | 1.4 |
| ## 277 | NA | NA | 0.81 | 1.1 |
| ## 278 | 24.0 | 4.9 | 2.90 | 1.7 |
| ## 279 | NA | 2.1 | NA | NA |
| ## 280 | NA | 3.2 | 2.01 | 5.3 |
| ## 282 | 249.0 | 2.3 | 0.47 | NA |

| | | | | |
|--------|-------|------|------|------|
| ## 286 | 19.0 | NA | 0.81 | 4.7 |
| ## 287 | NA | 2.9 | 0.57 | 2.1 |
| ## 289 | 91.1 | 2.7 | 0.88 | NA |
| ## 290 | 72.0 | 6.1 | 2.50 | NA |
| ## 293 | 360.0 | 9.0 | 1.65 | 0.7 |
| ## 294 | 207.0 | 11.8 | 0.81 | 2.2 |
| ## 296 | NA | 4.7 | 2.71 | NA |
| ## 297 | 54.0 | NA | 1.35 | NA |
| ## 298 | 36.0 | 7.8 | 0.81 | NA |
| ## 299 | 93.0 | 5.9 | 1.14 | 0.7 |
| ## 300 | 288.0 | 2.3 | 0.71 | 2.6 |
| ## 301 | 47.0 | 1.3 | 0.83 | 2.2 |
| ## 302 | 76.0 | 9.6 | NA | 1.7 |
| ## 303 | 58.0 | 17.5 | NA | 1.3 |
| ## 305 | 59.0 | 6.0 | NA | 2.1 |
| ## 308 | 123.0 | 1.1 | 4.46 | 3.1 |
| ## 314 | 130.0 | 17.5 | 1.35 | NA |
| ## 315 | 68.0 | 4.0 | 0.57 | 7.9 |
| ## 316 | 90.0 | 3.3 | NA | 0.4 |
| ## 319 | NA | 4.7 | NA | NA |
| ## 320 | 113.0 | 8.1 | NA | 2.0 |
| ## 323 | 34.0 | 1.6 | 2.17 | 1.4 |
| ## 324 | 232.0 | NA | NA | 4.7 |
| ## 326 | 14.9 | NA | NA | 3.4 |
| ## 328 | 179.3 | 7.6 | 0.54 | NA |
| ## 330 | 464.0 | 3.8 | 0.72 | NA |
| ## 332 | NA | 2.5 | 1.10 | 2.5 |
| ## 333 | 464.0 | 0.9 | 0.47 | 8.2 |
| ## 334 | NA | 6.2 | 0.79 | NA |
| ## 336 | 66.4 | 7.7 | 2.40 | 1.3 |
| ## 337 | 208.0 | 9.0 | 1.80 | 27.3 |
| ## 342 | NA | 3.1 | 1.46 | 1.3 |
| ## 344 | 139.4 | 7.8 | 2.11 | 0.5 |
| ## 345 | 139.4 | 15.0 | NA | 1.0 |
| ## 346 | 59.0 | 4.5 | 0.79 | 6.7 |
| ## 347 | NA | 3.9 | 1.73 | NA |
| ## 348 | 119.0 | 3.0 | 0.79 | 2.9 |
| ## 350 | 56.0 | 2.7 | 3.75 | NA |
| ## 352 | 37.9 | 3.0 | 0.80 | NA |
| ## 353 | 79.0 | 5.9 | NA | NA |
| ## 355 | 60.0 | 1.9 | 2.00 | NA |
| ## 357 | NA | NA | NA | NA |
| ## 359 | 121.0 | 3.2 | NA | 1.7 |
| ## 361 | 68.6 | 2.4 | NA | 1.3 |
| ## 363 | NA | NA | NA | NA |
| ## 364 | 58.0 | 17.5 | 2.55 | 0.9 |
| ## 365 | 65.0 | 17.5 | NA | NA |
| ## 368 | 208.0 | 15.0 | NA | 1.1 |
| ## 369 | 84.0 | 1.7 | 3.30 | 1.3 |
| ## 372 | 50.0 | 1.6 | 1.67 | 1.1 |
| ## 374 | 118.9 | 3.5 | 6.09 | 0.9 |
| ## 375 | 54.0 | NA | NA | 0.4 |
| ## 376 | 42.0 | 5.9 | 1.57 | 1.9 |
| ## 378 | 58.0 | NA | 1.65 | 1.1 |

| | | | | |
|--------|----------------------|-------------------------------|---------------------|------|
| ## 379 | 221.0 | 17.5 | 1.00 | NA |
| ## 380 | 91.1 | NA | 3.27 | 0.8 |
| ## 381 | NA | 11.8 | 1.90 | NA |
| ## 382 | 518.0 | 2.3 | 1.20 | 11.7 |
| ## 383 | NA | 1.3 | 3.41 | NA |
| ## 384 | 68.6 | 5.2 | NA | 0.9 |
| ## 385 | NA | 1.9 | 1.27 | 3.7 |
| ## 386 | 66.0 | NA | 2.50 | NA |
| ## 387 | 117.6 | 17.5 | NA | 1.6 |
| ## 389 | 101.0 | 6.0 | 1.64 | 8.5 |
| ## 391 | 49.0 | 3.5 | 3.85 | 5.7 |
| ## 393 | 351.0 | 1.9 | 1.39 | 1.1 |
| ## 397 | 119.0 | 3.8 | NA | 3.1 |
| ## 398 | NA | 1.3 | 5.12 | NA |
| ## 399 | 88.0 | 17.5 | 1.67 | NA |
| ## 400 | 317.0 | NA | 2.40 | NA |
| ## 403 | 87.0 | 4.8 | 1.38 | 2.0 |
| ## 404 | NA | 5.9 | 2.23 | 0.5 |
| ## 406 | NA | 3.8 | NA | 2.0 |
| ## 407 | 69.0 | 1.2 | 2.80 | 1.3 |
| ## 408 | 77.0 | 4.8 | 0.60 | 3.4 |
| ## 409 | 166.0 | 0.8 | NA | 1.6 |
| ## 411 | 124.0 | 7.9 | NA | 2.1 |
| ## 414 | 45.8 | 8.9 | 6.02 | 3.0 |
| ## 416 | 67.3 | 16.5 | 1.10 | 0.3 |
| ## 417 | 282.0 | 16.5 | 3.30 | 0.5 |
| ## 418 | 283.0 | 2.5 | 2.40 | NA |
| ## 419 | 324.0 | 3.5 | NA | 4.3 |
| ## 422 | 146.0 | 5.2 | NA | 2.4 |
| ## 423 | 152.0 | 6.4 | NA | 0.9 |
| ## | mechanical_vent_days | systemic_anticoagulation_type | acute_kidney_injury | |
| ## 1 | 12h - 24h | Heparin only | FALSE | |
| ## 2 | <NA> | Heparin only | FALSE | |
| ## 3 | <= 12h | No anticoagulant | TRUE | |
| ## 4 | 2 days - 7 days | Heparin and bivalirudin | TRUE | |
| ## 5 | <NA> | Heparin only | FALSE | |
| ## 6 | 12h - 24h | No anticoagulant | TRUE | |
| ## 7 | 2 days - 7 days | Heparin only | FALSE | |
| ## 8 | 12h - 24h | Bivalirudin only | NA | |
| ## 9 | 12h - 24h | Heparin only | TRUE | |
| ## 10 | 2 days - 7 days | Bivalirudin only | FALSE | |
| ## 11 | <NA> | Bivalirudin only | FALSE | |
| ## 12 | <NA> | Bivalirudin only | NA | |
| ## 13 | <NA> | Bivalirudin only | TRUE | |
| ## 20 | 12h - 24h | <NA> | FALSE | |
| ## 21 | 12h - 24h | Heparin only | TRUE | |
| ## 23 | <= 12h | Heparin only | TRUE | |
| ## 24 | 12h - 24h | Heparin only | TRUE | |
| ## 25 | 12h - 24h | <NA> | FALSE | |
| ## 28 | <= 12h | Heparin only | TRUE | |
| ## 29 | <NA> | Heparin only | FALSE | |
| ## 30 | <= 12h | Heparin only | FALSE | |
| ## 31 | 2 days - 7 days | No anticoagulant | FALSE | |
| ## 34 | 12h - 24h | Bivalirudin only | FALSE | |

| | | | |
|--------|-----------------|-------------------------|-------|
| ## 35 | 12h - 24h | Bivalirudin only | TRUE |
| ## 36 | 12h - 24h | No anticoagulant | FALSE |
| ## 39 | <NA> | Heparin and bivalirudin | NA |
| ## 40 | 12h - 24h | No anticoagulant | FALSE |
| ## 42 | 12h - 24h | No anticoagulant | TRUE |
| ## 43 | 12h - 24h | Heparin only | TRUE |
| ## 44 | >= 7 days | Heparin only | FALSE |
| ## 46 | <= 12h | Bivalirudin only | NA |
| ## 47 | <= 12h | Heparin and bivalirudin | TRUE |
| ## 48 | 12h - 24h | Bivalirudin only | FALSE |
| ## 49 | <= 12h | Bivalirudin only | TRUE |
| ## 50 | <NA> | Heparin only | FALSE |
| ## 52 | 2 days - 7 days | <NA> | FALSE |
| ## 53 | <= 12h | Heparin and bivalirudin | FALSE |
| ## 54 | 12h - 24h | Heparin only | FALSE |
| ## 55 | 12h - 24h | Bivalirudin only | FALSE |
| ## 57 | 2 days - 7 days | Heparin only | FALSE |
| ## 59 | 12h - 24h | Heparin only | FALSE |
| ## 61 | 2 days - 7 days | Heparin only | FALSE |
| ## 64 | <= 12h | No anticoagulant | TRUE |
| ## 66 | <= 12h | <NA> | FALSE |
| ## 69 | <NA> | Heparin only | NA |
| ## 71 | <= 12h | Heparin only | NA |
| ## 72 | 2 days - 7 days | Heparin only | FALSE |
| ## 74 | 12h - 24h | Heparin and bivalirudin | TRUE |
| ## 75 | 12h - 24h | Bivalirudin only | TRUE |
| ## 76 | <NA> | Heparin only | TRUE |
| ## 77 | <NA> | Bivalirudin only | TRUE |
| ## 79 | 12h - 24h | Heparin only | FALSE |
| ## 82 | 12h - 24h | No anticoagulant | FALSE |
| ## 83 | <NA> | Heparin only | FALSE |
| ## 84 | 12h - 24h | Bivalirudin only | FALSE |
| ## 85 | <NA> | <NA> | FALSE |
| ## 86 | <NA> | Heparin only | FALSE |
| ## 88 | <NA> | Heparin only | FALSE |
| ## 89 | <NA> | <NA> | FALSE |
| ## 91 | 12h - 24h | No anticoagulant | NA |
| ## 92 | >= 7 days | Heparin only | FALSE |
| ## 93 | 12h - 24h | Heparin only | FALSE |
| ## 95 | 2 days - 7 days | Heparin only | TRUE |
| ## 96 | 12h - 24h | Bivalirudin only | TRUE |
| ## 97 | 12h - 24h | Heparin only | TRUE |
| ## 98 | <NA> | Bivalirudin only | TRUE |
| ## 100 | <= 12h | No anticoagulant | TRUE |
| ## 102 | <NA> | Heparin only | FALSE |
| ## 103 | <NA> | Bivalirudin only | TRUE |
| ## 104 | 2 days - 7 days | Heparin only | NA |
| ## 105 | <= 12h | <NA> | FALSE |
| ## 106 | <NA> | Heparin only | TRUE |
| ## 107 | 12h - 24h | Bivalirudin only | NA |
| ## 108 | 2 days - 7 days | Bivalirudin only | FALSE |
| ## 109 | 12h - 24h | <NA> | FALSE |
| ## 111 | 12h - 24h | Heparin only | FALSE |
| ## 112 | <= 12h | Heparin only | FALSE |

| | | | |
|--------|-----------------|-------------------------|-------|
| ## 113 | 12h - 24h | Bivalirudin only | NA |
| ## 116 | <= 12h | <NA> | NA |
| ## 117 | <NA> | Heparin only | FALSE |
| ## 121 | <NA> | <NA> | FALSE |
| ## 122 | <= 12h | <NA> | FALSE |
| ## 123 | 12h - 24h | No anticoagulant | TRUE |
| ## 124 | 12h - 24h | No anticoagulant | TRUE |
| ## 126 | >= 7 days | Bivalirudin only | NA |
| ## 127 | <= 12h | <NA> | FALSE |
| ## 128 | 12h - 24h | Heparin only | FALSE |
| ## 129 | 12h - 24h | No anticoagulant | FALSE |
| ## 134 | <= 12h | No anticoagulant | FALSE |
| ## 135 | <NA> | Heparin only | TRUE |
| ## 136 | >= 7 days | Heparin only | FALSE |
| ## 137 | >= 7 days | <NA> | NA |
| ## 139 | 12h - 24h | No anticoagulant | FALSE |
| ## 140 | 12h - 24h | Bivalirudin only | FALSE |
| ## 141 | <NA> | <NA> | FALSE |
| ## 142 | <= 12h | Heparin only | NA |
| ## 144 | <= 12h | Heparin only | FALSE |
| ## 145 | <NA> | Bivalirudin only | FALSE |
| ## 148 | <= 12h | No anticoagulant | TRUE |
| ## 149 | 12h - 24h | Bivalirudin only | TRUE |
| ## 151 | 2 days - 7 days | Bivalirudin only | NA |
| ## 152 | 2 days - 7 days | No anticoagulant | NA |
| ## 156 | <NA> | Heparin only | TRUE |
| ## 157 | <= 12h | Heparin only | FALSE |
| ## 158 | 12h - 24h | Bivalirudin only | FALSE |
| ## 159 | <= 12h | No anticoagulant | FALSE |
| ## 160 | 2 days - 7 days | Bivalirudin only | TRUE |
| ## 162 | 12h - 24h | Heparin only | FALSE |
| ## 164 | 12h - 24h | Bivalirudin only | TRUE |
| ## 165 | 12h - 24h | Heparin only | NA |
| ## 166 | >= 7 days | Bivalirudin only | NA |
| ## 168 | <= 12h | Heparin only | FALSE |
| ## 169 | <NA> | Heparin and bivalirudin | TRUE |
| ## 171 | <= 12h | Heparin only | NA |
| ## 172 | <= 12h | Heparin and bivalirudin | FALSE |
| ## 174 | <NA> | <NA> | TRUE |
| ## 176 | 2 days - 7 days | Argatroban only | TRUE |
| ## 177 | 12h - 24h | Heparin only | FALSE |
| ## 178 | 12h - 24h | Heparin only | NA |
| ## 179 | <NA> | Heparin only | TRUE |
| ## 183 | 2 days - 7 days | Heparin only | FALSE |
| ## 184 | 12h - 24h | Heparin only | NA |
| ## 185 | <NA> | Heparin only | NA |
| ## 188 | 2 days - 7 days | Heparin only | TRUE |
| ## 189 | 12h - 24h | Heparin only | FALSE |
| ## 193 | <= 12h | Heparin and bivalirudin | TRUE |
| ## 194 | <= 12h | Heparin only | FALSE |
| ## 195 | <= 12h | Heparin only | FALSE |
| ## 199 | 12h - 24h | Heparin only | FALSE |
| ## 200 | 12h - 24h | No anticoagulant | FALSE |
| ## 201 | >= 7 days | Heparin only | NA |

| | | | |
|--------|-----------------|-------------------------|-------|
| ## 202 | <NA> | Bivalirudin only | FALSE |
| ## 204 | >= 7 days | <NA> | NA |
| ## 206 | <= 12h | No anticoagulant | NA |
| ## 207 | >= 7 days | Heparin only | FALSE |
| ## 209 | 2 days - 7 days | Heparin only | TRUE |
| ## 210 | 12h - 24h | Heparin only | TRUE |
| ## 214 | <= 12h | Heparin only | NA |
| ## 216 | <NA> | Heparin only | NA |
| ## 217 | <NA> | <NA> | FALSE |
| ## 220 | <= 12h | <NA> | FALSE |
| ## 223 | <= 12h | Heparin and bivalirudin | TRUE |
| ## 226 | 2 days - 7 days | Heparin only | FALSE |
| ## 229 | <NA> | Heparin only | FALSE |
| ## 230 | <NA> | Heparin only | NA |
| ## 231 | <= 12h | Heparin only | NA |
| ## 234 | <= 12h | Bivalirudin only | NA |
| ## 235 | 12h - 24h | Heparin only | NA |
| ## 236 | 12h - 24h | Heparin only | NA |
| ## 237 | <NA> | Heparin and bivalirudin | FALSE |
| ## 238 | <NA> | <NA> | FALSE |
| ## 239 | 12h - 24h | Heparin only | TRUE |
| ## 240 | 2 days - 7 days | Heparin only | TRUE |
| ## 242 | <NA> | <NA> | NA |
| ## 244 | 12h - 24h | Heparin only | TRUE |
| ## 245 | <NA> | Heparin only | FALSE |
| ## 246 | <NA> | Heparin only | FALSE |
| ## 247 | <NA> | No anticoagulant | FALSE |
| ## 249 | 12h - 24h | No anticoagulant | FALSE |
| ## 250 | 12h - 24h | Bivalirudin only | FALSE |
| ## 251 | <= 12h | <NA> | TRUE |
| ## 252 | 12h - 24h | Heparin only | NA |
| ## 253 | <= 12h | No anticoagulant | TRUE |
| ## 254 | <= 12h | Bivalirudin only | TRUE |
| ## 255 | 2 days - 7 days | Heparin only | TRUE |
| ## 256 | 12h - 24h | Bivalirudin only | TRUE |
| ## 257 | <= 12h | Bivalirudin only | FALSE |
| ## 259 | 12h - 24h | Bivalirudin only | FALSE |
| ## 260 | 2 days - 7 days | Bivalirudin only | TRUE |
| ## 261 | 12h - 24h | Heparin only | FALSE |
| ## 262 | <= 12h | Heparin and bivalirudin | TRUE |
| ## 263 | 12h - 24h | Heparin only | TRUE |
| ## 264 | 12h - 24h | Heparin only | FALSE |
| ## 265 | <NA> | <NA> | TRUE |
| ## 268 | 12h - 24h | Heparin only | NA |
| ## 269 | >= 7 days | Bivalirudin only | FALSE |
| ## 270 | <NA> | Heparin only | TRUE |
| ## 271 | 12h - 24h | Bivalirudin only | TRUE |
| ## 272 | <NA> | Bivalirudin only | FALSE |
| ## 273 | 12h - 24h | Heparin only | FALSE |
| ## 274 | <NA> | <NA> | TRUE |
| ## 275 | <= 12h | Bivalirudin only | TRUE |
| ## 276 | <NA> | No anticoagulant | TRUE |
| ## 277 | >= 7 days | <NA> | TRUE |
| ## 278 | <NA> | Heparin only | FALSE |

| | | | |
|--------|-----------------|-------------------------|-------|
| ## 279 | >= 7 days | Heparin only | TRUE |
| ## 280 | 2 days - 7 days | Bivalirudin only | TRUE |
| ## 282 | 12h - 24h | Heparin only | FALSE |
| ## 286 | 12h - 24h | No anticoagulant | TRUE |
| ## 287 | <= 12h | Heparin only | TRUE |
| ## 289 | 12h - 24h | No anticoagulant | NA |
| ## 290 | <NA> | Heparin only | FALSE |
| ## 293 | >= 7 days | Heparin only | FALSE |
| ## 294 | 12h - 24h | <NA> | FALSE |
| ## 296 | <NA> | Heparin only | TRUE |
| ## 297 | 12h - 24h | Heparin only | TRUE |
| ## 298 | <NA> | Heparin only | FALSE |
| ## 299 | <= 12h | Bivalirudin only | TRUE |
| ## 300 | 2 days - 7 days | Heparin only | TRUE |
| ## 301 | 2 days - 7 days | Heparin only | TRUE |
| ## 302 | 12h - 24h | Heparin only | TRUE |
| ## 303 | <= 12h | <NA> | NA |
| ## 305 | 12h - 24h | Bivalirudin only | NA |
| ## 308 | 12h - 24h | Heparin only | TRUE |
| ## 314 | 2 days - 7 days | Heparin only | FALSE |
| ## 315 | <NA> | Heparin only | NA |
| ## 316 | 12h - 24h | Heparin only | TRUE |
| ## 319 | <= 12h | Bivalirudin only | FALSE |
| ## 320 | 12h - 24h | Heparin only | NA |
| ## 323 | <= 12h | No anticoagulant | TRUE |
| ## 324 | <= 12h | <NA> | TRUE |
| ## 326 | 12h - 24h | Heparin only | TRUE |
| ## 328 | 12h - 24h | <NA> | FALSE |
| ## 330 | <= 12h | Heparin only | TRUE |
| ## 332 | 12h - 24h | <NA> | FALSE |
| ## 333 | 12h - 24h | <NA> | TRUE |
| ## 334 | 12h - 24h | Heparin only | TRUE |
| ## 336 | <= 12h | Heparin only | TRUE |
| ## 337 | <NA> | Bivalirudin only | FALSE |
| ## 342 | <NA> | Bivalirudin only | TRUE |
| ## 344 | <= 12h | <NA> | TRUE |
| ## 345 | <NA> | Heparin only | TRUE |
| ## 346 | <NA> | Bivalirudin only | TRUE |
| ## 347 | <= 12h | Heparin only | NA |
| ## 348 | <= 12h | Heparin only | FALSE |
| ## 350 | <NA> | Bivalirudin only | TRUE |
| ## 352 | <NA> | No anticoagulant | FALSE |
| ## 353 | <NA> | Bivalirudin only | TRUE |
| ## 355 | 12h - 24h | Bivalirudin only | FALSE |
| ## 357 | <NA> | <NA> | NA |
| ## 359 | <NA> | <NA> | TRUE |
| ## 361 | <NA> | Heparin only | FALSE |
| ## 363 | <NA> | <NA> | NA |
| ## 364 | 12h - 24h | Heparin only | FALSE |
| ## 365 | <NA> | Heparin and bivalirudin | NA |
| ## 368 | 2 days - 7 days | No anticoagulant | NA |
| ## 369 | <= 12h | Heparin only | FALSE |
| ## 372 | <NA> | Bivalirudin only | FALSE |
| ## 374 | <= 12h | Bivalirudin only | NA |

| | | | |
|--------|-----------------|--------------------|----------|
| ## 375 | 12h - 24h | <NA> | FALSE |
| ## 376 | <= 12h | Bivalirudin only | NA |
| ## 378 | 2 days - 7 days | Bivalirudin only | NA |
| ## 379 | <= 12h | Heparin only | TRUE |
| ## 380 | >= 7 days | Heparin only | TRUE |
| ## 381 | >= 7 days | Heparin only | TRUE |
| ## 382 | 12h - 24h | Heparin only | TRUE |
| ## 383 | 12h - 24h | Heparin only | FALSE |
| ## 384 | <= 12h | Heparin only | NA |
| ## 385 | >= 7 days | Bivalirudin only | NA |
| ## 386 | 12h - 24h | Bivalirudin only | TRUE |
| ## 387 | 12h - 24h | Heparin only | FALSE |
| ## 389 | <= 12h | Heparin only | FALSE |
| ## 391 | 12h - 24h | No anticoagulant | TRUE |
| ## 393 | <= 12h | Heparin only | FALSE |
| ## 397 | <NA> | No anticoagulant | FALSE |
| ## 398 | <= 12h | <NA> | FALSE |
| ## 399 | <NA> | <NA> | NA |
| ## 400 | 2 days - 7 days | No anticoagulant | TRUE |
| ## 403 | <= 12h | Heparin only | TRUE |
| ## 404 | <= 12h | Bivalirudin only | TRUE |
| ## 406 | >= 7 days | Heparin only | TRUE |
| ## 407 | <NA> | Heparin only | FALSE |
| ## 408 | <= 12h | Heparin only | NA |
| ## 409 | 2 days - 7 days | Heparin only | TRUE |
| ## 411 | <= 12h | Bivalirudin only | NA |
| ## 414 | <NA> | Bivalirudin only | FALSE |
| ## 416 | <= 12h | No anticoagulant | TRUE |
| ## 417 | <= 12h | <NA> | TRUE |
| ## 418 | <NA> | Bivalirudin only | TRUE |
| ## 419 | <= 12h | Heparin only | TRUE |
| ## 422 | <NA> | No anticoagulant | FALSE |
| ## 423 | >= 7 days | Heparin only | FALSE |
| ## | hospital_los | discharge_location | steroids |
| ## 1 | 13.0 | <NA> | No |
| ## 2 | 15.0 | Home | Yes |
| ## 3 | 20.0 | Death | <NA> |
| ## 4 | 49.0 | <NA> | <NA> |
| ## 5 | 1.0 | Death | <NA> |
| ## 6 | 29.0 | Home | Yes |
| ## 7 | 34.0 | Home | <NA> |
| ## 8 | 32.0 | <NA> | No |
| ## 9 | 16.0 | Death | No |
| ## 10 | 109.0 | <NA> | No |
| ## 11 | 34.0 | Death | <NA> |
| ## 12 | NA | <NA> | <NA> |
| ## 13 | 153.0 | <NA> | <NA> |
| ## 20 | 12.0 | Home | <NA> |
| ## 21 | NA | Death | Yes |
| ## 23 | 88.0 | <NA> | Yes |
| ## 24 | 34.0 | Home | N/A |
| ## 25 | 6.0 | Death | <NA> |
| ## 28 | 4.0 | Death | Yes |
| ## 29 | 29.0 | LTAC/rehab | <NA> |

| | | | |
|--------|-------|------------|------|
| ## 30 | 26.0 | Death | No |
| ## 31 | 20.0 | <NA> | Yes |
| ## 34 | 14.0 | Home | <NA> |
| ## 35 | 2.0 | Death | No |
| ## 36 | 8.0 | Death | <NA> |
| ## 39 | 6.0 | Home | <NA> |
| ## 40 | 7.0 | <NA> | No |
| ## 42 | 8.0 | Death | No |
| ## 43 | 18.0 | <NA> | Yes |
| ## 44 | 7.0 | <NA> | No |
| ## 46 | 8.0 | <NA> | Yes |
| ## 47 | 88.0 | LTAC/rehab | <NA> |
| ## 48 | 36.8 | Home | <NA> |
| ## 49 | 41.0 | <NA> | No |
| ## 50 | 101.0 | Death | <NA> |
| ## 52 | 12.0 | LTAC/rehab | <NA> |
| ## 53 | 20.0 | Home | <NA> |
| ## 54 | 17.0 | <NA> | <NA> |
| ## 55 | 18.0 | Death | No |
| ## 57 | NA | <NA> | <NA> |
| ## 59 | 10.0 | <NA> | <NA> |
| ## 61 | NA | LTAC/rehab | <NA> |
| ## 64 | 13.0 | LTAC/rehab | <NA> |
| ## 66 | 51.0 | <NA> | <NA> |
| ## 69 | 43.0 | Death | <NA> |
| ## 71 | 13.0 | Death | Yes |
| ## 72 | NA | Home | <NA> |
| ## 74 | 38.0 | <NA> | <NA> |
| ## 75 | 56.0 | <NA> | Yes |
| ## 76 | 15.0 | LTAC/rehab | No |
| ## 77 | 36.0 | Death | <NA> |
| ## 79 | 6.0 | <NA> | No |
| ## 82 | 27.0 | Home | <NA> |
| ## 83 | 46.0 | <NA> | <NA> |
| ## 84 | NA | LTAC/rehab | Yes |
| ## 85 | 12.0 | LTAC/rehab | <NA> |
| ## 86 | 18.0 | LTAC/rehab | <NA> |
| ## 88 | NA | LTAC/rehab | Yes |
| ## 89 | 47.0 | Home | Yes |
| ## 91 | 38.0 | Death | <NA> |
| ## 92 | NA | Death | Yes |
| ## 93 | NA | Death | <NA> |
| ## 95 | 54.0 | Death | <NA> |
| ## 96 | 33.0 | Death | <NA> |
| ## 97 | 1.0 | Death | <NA> |
| ## 98 | NA | Home | <NA> |
| ## 100 | 22.0 | Death | <NA> |
| ## 102 | 103.0 | Home | Yes |
| ## 103 | 12.0 | Home | <NA> |
| ## 104 | 67.0 | Death | <NA> |
| ## 105 | 7.0 | Home | No |
| ## 106 | NA | Death | <NA> |
| ## 107 | 70.0 | <NA> | Yes |
| ## 108 | 23.0 | <NA> | Yes |

| | | | |
|--------|-------|------------|------|
| ## 109 | NA | Death | <NA> |
| ## 111 | 1.0 | LTAC/rehab | No |
| ## 112 | 17.0 | Death | <NA> |
| ## 113 | 8.0 | <NA> | <NA> |
| ## 116 | 19.0 | LTAC/rehab | <NA> |
| ## 117 | 54.0 | Death | <NA> |
| ## 121 | 27.0 | Death | <NA> |
| ## 122 | 1.0 | LTAC/rehab | <NA> |
| ## 123 | 38.0 | Home | <NA> |
| ## 124 | 26.0 | <NA> | No |
| ## 126 | 27.0 | LTAC/rehab | <NA> |
| ## 127 | 4.0 | Home | No |
| ## 128 | 13.0 | <NA> | <NA> |
| ## 129 | 19.0 | <NA> | <NA> |
| ## 134 | 20.0 | Death | No |
| ## 135 | 8.0 | <NA> | Yes |
| ## 136 | 22.0 | Home | Yes |
| ## 137 | NA | <NA> | <NA> |
| ## 139 | 16.0 | <NA> | <NA> |
| ## 140 | NA | LTAC/rehab | <NA> |
| ## 141 | 12.0 | Home | Yes |
| ## 142 | 5.0 | Death | <NA> |
| ## 144 | 123.0 | <NA> | <NA> |
| ## 145 | 123.0 | LTAC/rehab | No |
| ## 148 | NA | Death | <NA> |
| ## 149 | 23.0 | <NA> | <NA> |
| ## 151 | 32.0 | LTAC/rehab | <NA> |
| ## 152 | 79.0 | <NA> | <NA> |
| ## 156 | 77.0 | Death | Yes |
| ## 157 | 16.0 | <NA> | <NA> |
| ## 158 | 25.0 | Home | <NA> |
| ## 159 | 28.0 | Home | Yes |
| ## 160 | 2.0 | Death | <NA> |
| ## 162 | 77.0 | <NA> | <NA> |
| ## 164 | 37.0 | LTAC/rehab | Yes |
| ## 165 | NA | <NA> | <NA> |
| ## 166 | NA | Home | <NA> |
| ## 168 | 19.0 | Death | <NA> |
| ## 169 | NA | Other | <NA> |
| ## 171 | 13.0 | Death | No |
| ## 172 | 43.0 | <NA> | No |
| ## 174 | 27.0 | <NA> | <NA> |
| ## 176 | NA | Death | No |
| ## 177 | 8.0 | <NA> | <NA> |
| ## 178 | 58.0 | Death | <NA> |
| ## 179 | 16.0 | Home | <NA> |
| ## 183 | NA | Home | <NA> |
| ## 184 | 73.0 | Home | <NA> |
| ## 185 | 26.0 | Death | <NA> |
| ## 188 | NA | <NA> | <NA> |
| ## 189 | 55.0 | <NA> | <NA> |
| ## 193 | 42.0 | Death | <NA> |
| ## 194 | NA | Death | Yes |
| ## 195 | 43.0 | Home | <NA> |

| | | | |
|--------|-------|------------|------|
| ## 199 | 52.0 | Death | <NA> |
| ## 200 | 58.0 | Home | Yes |
| ## 201 | NA | LTAC/rehab | No |
| ## 202 | 31.0 | Death | Yes |
| ## 204 | NA | Death | <NA> |
| ## 206 | 85.0 | Death | <NA> |
| ## 207 | 19.0 | LTAC/rehab | <NA> |
| ## 209 | NA | <NA> | <NA> |
| ## 210 | 15.0 | <NA> | <NA> |
| ## 214 | 29.0 | LTAC/rehab | Yes |
| ## 216 | 61.0 | <NA> | Yes |
| ## 217 | 36.8 | Death | Yes |
| ## 220 | 40.0 | <NA> | <NA> |
| ## 223 | 1.0 | Death | <NA> |
| ## 226 | NA | Death | Yes |
| ## 229 | 94.0 | Death | <NA> |
| ## 230 | 17.0 | <NA> | No |
| ## 231 | 21.0 | Home | Yes |
| ## 234 | 86.0 | Death | N/A |
| ## 235 | NA | <NA> | Yes |
| ## 236 | 2.0 | Home | <NA> |
| ## 237 | 70.0 | Death | <NA> |
| ## 238 | 46.0 | <NA> | N/A |
| ## 239 | 37.0 | Death | <NA> |
| ## 240 | NA | Home | No |
| ## 242 | NA | LTAC/rehab | <NA> |
| ## 244 | 101.0 | LTAC/rehab | No |
| ## 245 | NA | Death | <NA> |
| ## 246 | 17.0 | Home | <NA> |
| ## 247 | 47.0 | <NA> | <NA> |
| ## 249 | 26.0 | LTAC/rehab | Yes |
| ## 250 | 108.0 | <NA> | No |
| ## 251 | 16.0 | <NA> | <NA> |
| ## 252 | 33.0 | <NA> | No |
| ## 253 | NA | <NA> | Yes |
| ## 254 | 32.0 | <NA> | Yes |
| ## 255 | NA | Death | <NA> |
| ## 256 | 24.0 | Death | <NA> |
| ## 257 | 43.0 | <NA> | <NA> |
| ## 259 | NA | <NA> | <NA> |
| ## 260 | 52.0 | LTAC/rehab | <NA> |
| ## 261 | 75.0 | Death | <NA> |
| ## 262 | 30.0 | Death | <NA> |
| ## 263 | 49.0 | <NA> | Yes |
| ## 264 | 29.0 | <NA> | <NA> |
| ## 265 | 36.0 | LTAC/rehab | No |
| ## 268 | 29.0 | Home | Yes |
| ## 269 | 27.0 | <NA> | <NA> |
| ## 270 | 12.0 | <NA> | <NA> |
| ## 271 | 53.0 | LTAC/rehab | Yes |
| ## 272 | 36.0 | Home | <NA> |
| ## 273 | NA | LTAC/rehab | <NA> |
| ## 274 | 11.0 | LTAC/rehab | No |
| ## 275 | 23.0 | Other | <NA> |

| | | | |
|--------|-------|------------|------|
| ## 276 | 33.0 | <NA> | <NA> |
| ## 277 | 17.0 | LTAC/rehab | <NA> |
| ## 278 | 10.0 | <NA> | Yes |
| ## 279 | NA | Death | <NA> |
| ## 280 | NA | LTAC/rehab | No |
| ## 282 | 123.0 | Home | <NA> |
| ## 286 | 19.0 | <NA> | No |
| ## 287 | 56.0 | Death | <NA> |
| ## 289 | 25.0 | <NA> | <NA> |
| ## 290 | 12.0 | <NA> | <NA> |
| ## 293 | NA | <NA> | Yes |
| ## 294 | 106.8 | <NA> | <NA> |
| ## 296 | 10.0 | <NA> | <NA> |
| ## 297 | 22.0 | Death | <NA> |
| ## 298 | 14.0 | <NA> | Yes |
| ## 299 | 77.0 | <NA> | <NA> |
| ## 300 | 33.0 | Home | <NA> |
| ## 301 | 17.0 | Death | Yes |
| ## 302 | 46.0 | Death | <NA> |
| ## 303 | 23.0 | <NA> | <NA> |
| ## 305 | 12.0 | <NA> | Yes |
| ## 308 | 19.0 | Death | Yes |
| ## 314 | 36.8 | Death | <NA> |
| ## 315 | 24.0 | Death | Yes |
| ## 316 | 12.0 | Death | No |
| ## 319 | NA | <NA> | No |
| ## 320 | 10.0 | Death | <NA> |
| ## 323 | NA | Death | Yes |
| ## 324 | 153.0 | <NA> | <NA> |
| ## 326 | 52.0 | Death | <NA> |
| ## 328 | 7.0 | <NA> | <NA> |
| ## 330 | 42.0 | Death | <NA> |
| ## 332 | NA | Home | <NA> |
| ## 333 | 62.0 | <NA> | <NA> |
| ## 334 | 58.0 | Home | <NA> |
| ## 336 | 3.0 | Home | <NA> |
| ## 337 | 2.0 | Home | <NA> |
| ## 342 | 35.0 | <NA> | <NA> |
| ## 344 | 11.0 | LTAC/rehab | <NA> |
| ## 345 | 22.0 | <NA> | No |
| ## 346 | 49.0 | Home | <NA> |
| ## 347 | 1.0 | Home | <NA> |
| ## 348 | NA | Home | Yes |
| ## 350 | 41.0 | <NA> | <NA> |
| ## 352 | 4.0 | Death | <NA> |
| ## 353 | NA | Death | <NA> |
| ## 355 | 7.0 | <NA> | <NA> |
| ## 357 | NA | | |
| ## 359 | 7.0 | <NA> | <NA> |
| ## 361 | 46.0 | Death | N/A |
| ## 363 | NA | | |
| ## 364 | NA | LTAC/rehab | <NA> |
| ## 365 | 11.0 | Death | <NA> |
| ## 368 | 2.0 | Death | No |

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|--------|-------|------------|------|
| ## 369 | 173.0 | Death | Yes |
| ## 372 | 38.0 | <NA> | Yes |
| ## 374 | NA | <NA> | <NA> |
| ## 375 | 57.0 | Home | <NA> |
| ## 376 | 37.0 | LTAC/rehab | <NA> |
| ## 378 | 7.0 | Death | No |
| ## 379 | 60.0 | Death | <NA> |
| ## 380 | 21.0 | Death | <NA> |
| ## 381 | 17.0 | Home | <NA> |
| ## 382 | 26.0 | <NA> | <NA> |
| ## 383 | 15.0 | Death | No |
| ## 384 | 2.0 | Home | No |
| ## 385 | 9.0 | Home | <NA> |
| ## 386 | 103.0 | LTAC/rehab | No |
| ## 387 | 14.0 | <NA> | <NA> |
| ## 389 | 8.0 | LTAC/rehab | No |
| ## 391 | 41.0 | <NA> | <NA> |
| ## 393 | 12.0 | LTAC/rehab | <NA> |
| ## 397 | 117.0 | LTAC/rehab | No |
| ## 398 | NA | Death | <NA> |
| ## 399 | 8.0 | <NA> | <NA> |
| ## 400 | 37.0 | <NA> | <NA> |
| ## 403 | 1.0 | Death | Yes |
| ## 404 | NA | Death | <NA> |
| ## 406 | 1.5 | Death | Yes |
| ## 407 | 29.0 | LTAC/rehab | <NA> |
| ## 408 | NA | Home | <NA> |
| ## 409 | 23.0 | <NA> | No |
| ## 411 | 38.0 | <NA> | <NA> |
| ## 414 | 29.0 | Home | <NA> |
| ## 416 | 7.0 | LTAC/rehab | No |
| ## 417 | 23.0 | Death | No |
| ## 418 | NA | Home | <NA> |
| ## 419 | 53.0 | <NA> | <NA> |
| ## 422 | 8.0 | <NA> | No |
| ## 423 | 17.0 | <NA> | <NA> |
| ## | | | |
| ## 1 | | | |
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(On-ECLS, Blood, Bacteria, Enterobacter cloacae), (On-ECLS, I

(Pre-ECLS, Urine, Bacteria, En

(Pre-ECLS, Respiratory Tract, Bacteria, Serratia mars

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 ## 107
 ## 108
 ## 109
 ## 111
 ## 112
 ## 113
 ## 116 (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Ba
 ## 117
 ## 121
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 ## 149
 ## 151
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 ## 156
 ## 157 (On-ECLS, Respiratory tract, Fungus
 ## 158
 ## 159
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 ## 162
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 ## 168
 ## 169
 ## 171
 ## 172
 ## 174
 ## 176 (On-ECLS, Respiratory Tract, Fungus, Candida Albicans), (On-ECLS, Respiratory Tract, Bacteria, C
 ## 177
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| ## 193 | |
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| ## 199 | |
| ## 200 | |
| ## 201 | |
| ## 202 | (On-ECLS, Respiratory tract, Fungus) |
| ## 204 | |
| ## 206 | |
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| ## 214 | |
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| ## 220 | |
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| ## 237 | |
| ## 238 | |
| ## 239 | |
| ## 240 | (Pre-ECLS, Urine, Bacteria, Enterobacteriaceae) |
| ## 242 | |
| ## 244 | |
| ## 245 | |
| ## 246 | |
| ## 247 | |
| ## 249 | |
| ## 250 | |
| ## 251 | |
| ## 252 | |
| ## 253 | (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Bacteria, Enterobacteriaceae) |
| ## 254 | |
| ## 255 | |
| ## 256 | (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Bacteria, Enterobacteriaceae) |
| ## 257 | |
| ## 259 | |
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| ## 261 | |
| ## 262 | |
| ## 263 | |
| ## 264 | |
| ## 265 | |
| ## 268 | |
| ## 269 | |
| ## 270 | |
| ## 271 | (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Bacteria, Enterobacteriaceae) |
| ## 272 | |

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| ## | support_type | transfer | covid | pregnant | year | days_to_discharge | admission_date |
|-------|--------------|----------|-------|----------|------|-------------------|----------------|
| ## 1 | Cardiac | FALSE | FALSE | NA | 2021 | 70 | 2021-08-26 |
| ## 2 | <NA> | FALSE | TRUE | NA | 2018 | 7 | 2020-10-17 |
| ## 3 | Pulmonary | FALSE | FALSE | NA | 2018 | NA | 2021-12-25 |
| ## 4 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2020-01-29 |
| ## 5 | <NA> | FALSE | FALSE | TRUE | 2022 | NA | 2021-07-02 |
| ## 6 | <NA> | FALSE | TRUE | NA | 2020 | NA | 2021-06-18 |
| ## 7 | <NA> | FALSE | TRUE | NA | 2020 | NA | 2020-05-10 |
| ## 8 | <NA> | FALSE | FALSE | NA | 2019 | 6 | 2021-09-13 |
| ## 9 | Cardiac | FALSE | FALSE | NA | 2020 | 18 | 2021-07-08 |
| ## 10 | <NA> | FALSE | TRUE | NA | 2018 | NA | 2021-11-03 |
| ## 11 | <NA> | FALSE | FALSE | NA | 2019 | 38 | 2021-06-01 |
| ## 12 | Cardiac | FALSE | FALSE | NA | 2018 | NA | 2021-05-15 |
| ## 13 | <NA> | FALSE | FALSE | NA | 2018 | 10 | 2021-12-30 |
| ## 20 | Pulmonary | FALSE | FALSE | NA | 2020 | 36 | 2020-02-19 |

| | | | | | |
|--------|-----------|-------------|---------|-----|------------|
| ## 21 | Cardiac | FALSE FALSE | NA 2019 | 7 | 2021-07-11 |
| ## 23 | Cardiac | FALSE FALSE | NA 2020 | 66 | 2020-05-15 |
| ## 24 | <NA> | FALSE FALSE | NA 2021 | NA | 2020-02-12 |
| ## 25 | <NA> | FALSE FALSE | NA 2019 | NA | 2021-11-01 |
| ## 28 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-01-08 |
| ## 29 | <NA> | FALSE FALSE | NA 2018 | 101 | 2020-10-05 |
| ## 30 | Cardiac | FALSE TRUE | NA 2019 | NA | 2020-07-16 |
| ## 31 | ECPR | FALSE FALSE | NA 2018 | 12 | 2020-05-08 |
| ## 34 | ECPR | FALSE TRUE | NA 2019 | 71 | 2020-11-03 |
| ## 35 | <NA> | FALSE FALSE | NA 2022 | 9 | 2020-06-09 |
| ## 36 | <NA> | FALSE TRUE | NA 2019 | 66 | 2020-11-23 |
| ## 39 | Pulmonary | FALSE FALSE | NA 2021 | 27 | 2020-04-14 |
| ## 40 | Cardiac | FALSE FALSE | NA 2021 | 14 | 2021-10-25 |
| ## 42 | <NA> | FALSE FALSE | NA 2018 | 48 | 2020-08-23 |
| ## 43 | Cardiac | FALSE FALSE | NA 2019 | 75 | 2020-12-17 |
| ## 44 | <NA> | FALSE TRUE | NA 2018 | 107 | 2021-08-11 |
| ## 46 | ECPR | FALSE FALSE | NA 2020 | 19 | 2020-07-03 |
| ## 47 | ECPR | FALSE FALSE | NA 2019 | 38 | 2021-04-08 |
| ## 48 | <NA> | FALSE FALSE | NA 2019 | 9 | 2020-02-06 |
| ## 49 | <NA> | FALSE FALSE | NA 2021 | NA | 2020-09-19 |
| ## 50 | Pulmonary | FALSE FALSE | NA 2019 | NA | 2020-03-21 |
| ## 52 | <NA> | FALSE TRUE | NA 2021 | 45 | 2020-03-20 |
| ## 53 | <NA> | FALSE NA | NA 2020 | 107 | 2020-09-06 |
| ## 54 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-12-23 |
| ## 55 | <NA> | FALSE FALSE | NA 2020 | 21 | 2020-08-28 |
| ## 57 | <NA> | FALSE TRUE | NA 2021 | 69 | 2020-02-17 |
| ## 59 | Pulmonary | FALSE TRUE | NA 2020 | 17 | 2021-07-30 |
| ## 61 | <NA> | FALSE TRUE | NA 2021 | NA | 2020-10-10 |
| ## 64 | <NA> | FALSE TRUE | NA 2021 | 26 | 2021-10-07 |
| ## 66 | Pulmonary | FALSE FALSE | NA 2019 | 8 | 2020-12-29 |
| ## 69 | <NA> | FALSE TRUE | NA 2019 | 11 | 2021-06-29 |
| ## 71 | Pulmonary | FALSE FALSE | NA 2019 | NA | 2020-03-14 |
| ## 72 | <NA> | FALSE FALSE | NA 2020 | 54 | 2021-07-22 |
| ## 74 | <NA> | FALSE FALSE | NA 2020 | 18 | 2020-07-29 |
| ## 75 | <NA> | FALSE FALSE | NA 2022 | 1 | 2021-12-16 |
| ## 76 | Pulmonary | FALSE FALSE | NA 2020 | 11 | 2020-04-10 |
| ## 77 | Cardiac | FALSE FALSE | NA 2018 | 15 | 2021-12-27 |
| ## 79 | Pulmonary | FALSE TRUE | NA 2020 | 19 | 2020-07-25 |
| ## 82 | <NA> | FALSE FALSE | NA 2021 | 19 | 2021-08-04 |
| ## 83 | Cardiac | FALSE FALSE | NA 2019 | 23 | 2020-11-24 |
| ## 84 | <NA> | FALSE FALSE | NA 2019 | 46 | 2021-07-20 |
| ## 85 | Cardiac | FALSE FALSE | NA 2020 | 37 | 2021-10-08 |
| ## 86 | <NA> | FALSE FALSE | NA 2019 | 17 | 2021-11-19 |
| ## 88 | <NA> | FALSE FALSE | NA 2021 | 41 | 2020-04-28 |
| ## 89 | Cardiac | FALSE FALSE | NA 2017 | 8 | 2020-09-12 |
| ## 91 | Pulmonary | FALSE FALSE | NA 2022 | 12 | 2020-08-15 |
| ## 92 | Cardiac | FALSE FALSE | NA 2021 | NA | 2021-06-15 |
| ## 93 | <NA> | FALSE TRUE | NA 2021 | 43 | 2021-12-21 |
| ## 95 | <NA> | FALSE FALSE | NA 2021 | NA | 2021-07-27 |
| ## 96 | <NA> | FALSE TRUE | NA 2019 | NA | 2020-03-09 |
| ## 97 | Cardiac | FALSE FALSE | NA 2021 | 53 | 2020-09-20 |
| ## 98 | <NA> | FALSE FALSE | NA 2021 | 13 | 2021-04-14 |
| ## 100 | <NA> | FALSE FALSE | NA 2018 | 71 | 2020-06-10 |
| ## 102 | <NA> | FALSE FALSE | NA 2020 | 8 | 2020-02-04 |

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|--------|-----------|-------------|-----------|----|------------|
| ## 103 | <NA> | FALSE FALSE | NA 2021 | NA | 2020-05-25 |
| ## 104 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-01-11 |
| ## 105 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-07-22 |
| ## 106 | Cardiac | FALSE TRUE | NA 2019 | 58 | 2021-02-08 |
| ## 107 | <NA> | FALSE FALSE | NA 2019 | NA | 2020-02-11 |
| ## 108 | <NA> | FALSE FALSE | NA 2019 | 48 | 2021-07-13 |
| ## 109 | <NA> | FALSE FALSE | NA 2018 | 35 | 2020-03-07 |
| ## 111 | <NA> | FALSE TRUE | NA 2022 | 58 | 2020-08-18 |
| ## 112 | <NA> | FALSE FALSE | NA 2018 | 10 | 2020-04-09 |
| ## 113 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-02-22 |
| ## 116 | <NA> | FALSE FALSE | NA 2018 | 11 | 2020-03-16 |
| ## 117 | <NA> | FALSE FALSE | NA 2022 | 15 | 2021-07-10 |
| ## 121 | ECPR | FALSE FALSE | NA 2019 | NA | 2021-03-17 |
| ## 122 | <NA> | FALSE FALSE | NA 2018 | 11 | 2020-11-19 |
| ## 123 | ECPR | TRUE FALSE | NA 2018 | 83 | 2020-01-13 |
| ## 124 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-05-02 |
| ## 126 | Cardiac | FALSE TRUE | NA 2018 | 3 | 2020-12-12 |
| ## 127 | <NA> | FALSE FALSE | NA 2022 | 8 | 2020-12-31 |
| ## 128 | <NA> | FALSE FALSE | NA 2021 | 55 | 2021-08-07 |
| ## 129 | <NA> | FALSE FALSE | NA 2018 | 32 | 2021-11-09 |
| ## 134 | Pulmonary | FALSE FALSE | NA 2021 | 26 | 2020-08-21 |
| ## 135 | <NA> | FALSE TRUE | NA 2019 | NA | 2020-08-14 |
| ## 136 | <NA> | FALSE TRUE | NA 2021 | 35 | 2021-07-09 |
| ## 137 | ECPR | FALSE TRUE | NA 2018 | 0 | 2021-05-19 |
| ## 139 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-05-04 |
| ## 140 | Pulmonary | FALSE FALSE | NA 2021 | 2 | 2020-04-30 |
| ## 141 | Pulmonary | FALSE FALSE | NA 2021 | 14 | 2020-03-18 |
| ## 142 | ECPR | FALSE FALSE | NA 2021 | 58 | 2021-10-23 |
| ## 144 | Pulmonary | FALSE FALSE | NA 2019 | 13 | 2021-03-03 |
| ## 145 | <NA> | FALSE TRUE | NA 2019 | 2 | 2021-02-03 |
| ## 148 | <NA> | FALSE FALSE | NA 2017 | NA | 2021-06-17 |
| ## 149 | <NA> | FALSE FALSE | NA 2020 | 54 | 2021-05-10 |
| ## 151 | <NA> | FALSE TRUE | NA 2021 | 88 | 2021-11-20 |
| ## 152 | ECPR | FALSE FALSE | NA 2018 | NA | 2021-11-22 |
| ## 156 | ECPR | FALSE FALSE | NA 2020 | 45 | 2020-11-20 |
| ## 157 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-06-16 |
| ## 158 | <NA> | FALSE FALSE | NA 2018 | 44 | 2021-08-03 |
| ## 159 | <NA> | FALSE FALSE | NA 2018 | 3 | 2020-09-11 |
| ## 160 | Pulmonary | FALSE TRUE | NA 2019 | NA | 2021-03-26 |
| ## 162 | <NA> | FALSE FALSE | TRUE 2020 | NA | 2021-05-02 |
| ## 164 | <NA> | FALSE TRUE | NA 2019 | 12 | 2020-02-08 |
| ## 165 | Cardiac | FALSE FALSE | NA 2020 | 11 | 2021-03-27 |
| ## 166 | <NA> | FALSE FALSE | NA 2019 | 11 | 2021-03-15 |
| ## 168 | <NA> | FALSE FALSE | NA 2021 | 12 | 2021-03-29 |
| ## 169 | Cardiac | FALSE FALSE | NA 2020 | 19 | 2020-10-19 |
| ## 171 | Pulmonary | FALSE TRUE | NA 2018 | NA | 2021-06-09 |
| ## 172 | <NA> | FALSE FALSE | NA 2018 | 10 | 2020-12-09 |
| ## 174 | Pulmonary | FALSE TRUE | NA 2019 | 71 | 2020-09-10 |
| ## 176 | <NA> | FALSE TRUE | NA 2020 | 24 | 2021-12-24 |
| ## 177 | <NA> | FALSE FALSE | NA 2020 | 8 | 2020-06-29 |
| ## 178 | <NA> | FALSE FALSE | NA 2019 | 69 | 2020-09-14 |
| ## 179 | <NA> | FALSE FALSE | NA 2017 | 58 | 2020-08-17 |
| ## 183 | <NA> | FALSE FALSE | NA 2019 | NA | 2021-06-13 |
| ## 184 | <NA> | FALSE TRUE | NA 2019 | 29 | 2021-08-09 |

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|--------|-----------|-------|-------|------|------|-----|------------|
| ## 185 | <NA> | FALSE | TRUE | NA | 2020 | 107 | 2021-03-20 |
| ## 188 | <NA> | FALSE | TRUE | NA | 2019 | 1 | 2020-01-05 |
| ## 189 | <NA> | FALSE | FALSE | NA | 2020 | 40 | 2021-05-07 |
| ## 193 | <NA> | FALSE | FALSE | NA | 2018 | 42 | 2020-02-14 |
| ## 194 | <NA> | FALSE | FALSE | NA | 2020 | 39 | 2020-11-18 |
| ## 195 | Cardiac | FALSE | FALSE | NA | 2019 | NA | 2021-02-02 |
| ## 199 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2020-07-24 |
| ## 200 | ECPR | FALSE | FALSE | NA | 2019 | 4 | 2021-02-15 |
| ## 201 | <NA> | FALSE | FALSE | NA | 2018 | 69 | 2021-09-05 |
| ## 202 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2021-12-09 |
| ## 204 | <NA> | FALSE | FALSE | NA | 2018 | NA | 2020-08-06 |
| ## 206 | <NA> | FALSE | TRUE | NA | 2020 | NA | 2020-12-18 |
| ## 207 | <NA> | FALSE | TRUE | NA | 2019 | 34 | 2020-09-17 |
| ## 209 | <NA> | FALSE | TRUE | NA | 2017 | NA | 2021-04-21 |
| ## 210 | <NA> | FALSE | TRUE | NA | 2020 | 5 | 2021-03-19 |
| ## 214 | <NA> | FALSE | TRUE | NA | 2020 | 20 | 2020-07-14 |
| ## 216 | Cardiac | FALSE | TRUE | NA | 2021 | 6 | 2020-12-21 |
| ## 217 | <NA> | FALSE | TRUE | TRUE | 2020 | 3 | 2020-05-06 |
| ## 220 | ECPR | FALSE | FALSE | NA | 2021 | 39 | 2021-07-19 |
| ## 223 | Cardiac | FALSE | FALSE | NA | 2019 | 2 | 2021-08-30 |
| ## 226 | Cardiac | FALSE | FALSE | NA | 2020 | NA | 2021-11-27 |
| ## 229 | Cardiac | FALSE | FALSE | NA | 2020 | NA | 2020-02-28 |
| ## 230 | Cardiac | FALSE | FALSE | NA | 2021 | 0 | 2020-06-16 |
| ## 231 | Pulmonary | FALSE | FALSE | TRUE | 2020 | 16 | 2020-12-22 |
| ## 234 | <NA> | FALSE | TRUE | NA | 2019 | 12 | 2021-10-29 |
| ## 235 | <NA> | FALSE | FALSE | NA | 2019 | 40 | 2021-03-04 |
| ## 236 | <NA> | FALSE | TRUE | NA | 2020 | 13 | 2020-09-09 |
| ## 237 | Pulmonary | FALSE | FALSE | NA | 2019 | 33 | 2020-02-03 |
| ## 238 | <NA> | FALSE | FALSE | NA | 2020 | 7 | 2020-03-22 |
| ## 239 | <NA> | FALSE | FALSE | NA | 2018 | 9 | 2021-03-10 |
| ## 240 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2020-07-13 |
| ## 242 | <NA> | FALSE | FALSE | NA | 2021 | 8 | 2021-06-06 |
| ## 244 | <NA> | FALSE | FALSE | NA | 2020 | 6 | 2020-04-22 |
| ## 245 | <NA> | FALSE | TRUE | NA | 2018 | 18 | 2021-09-15 |
| ## 246 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2021-02-16 |
| ## 247 | Pulmonary | FALSE | TRUE | NA | 2019 | 34 | 2021-10-15 |
| ## 249 | <NA> | FALSE | FALSE | NA | 2019 | 1 | 2021-02-01 |
| ## 250 | Cardiac | FALSE | FALSE | NA | 2019 | 5 | 2020-09-24 |
| ## 251 | <NA> | FALSE | FALSE | NA | 2019 | NA | 2021-08-25 |
| ## 252 | <NA> | FALSE | FALSE | NA | 2020 | 75 | 2021-02-28 |
| ## 253 | <NA> | FALSE | TRUE | NA | 2020 | NA | 2020-03-01 |
| ## 254 | <NA> | FALSE | FALSE | NA | 2021 | 6 | 2020-01-04 |
| ## 255 | <NA> | FALSE | TRUE | NA | 2020 | 3 | 2020-07-06 |
| ## 256 | Pulmonary | FALSE | TRUE | TRUE | 2019 | 7 | 2021-09-08 |
| ## 257 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2021-08-01 |
| ## 259 | <NA> | FALSE | FALSE | NA | 2018 | NA | 2021-08-15 |
| ## 260 | Cardiac | FALSE | FALSE | NA | 2019 | NA | 2021-11-05 |
| ## 261 | <NA> | FALSE | FALSE | NA | 2021 | NA | 2020-10-20 |
| ## 262 | Cardiac | FALSE | TRUE | NA | 2019 | 107 | 2021-04-23 |
| ## 263 | Cardiac | FALSE | TRUE | NA | 2019 | 2 | 2021-02-22 |
| ## 264 | Pulmonary | FALSE | TRUE | NA | 2020 | 13 | 2021-09-01 |
| ## 265 | <NA> | FALSE | FALSE | NA | 2020 | 12 | 2020-03-28 |
| ## 268 | Pulmonary | FALSE | TRUE | NA | 2020 | 2 | 2020-04-16 |
| ## 269 | Cardiac | FALSE | TRUE | NA | 2018 | NA | 2020-07-02 |

| | | | | | | | |
|--------|-----------|-------|-------|------|------|-----|------------|
| ## 270 | <NA> | FALSE | TRUE | NA | 2021 | 16 | 2021-01-06 |
| ## 271 | <NA> | FALSE | TRUE | NA | 2021 | NA | 2021-10-19 |
| ## 272 | Cardiac | FALSE | FALSE | NA | 2018 | 20 | 2020-08-12 |
| ## 273 | <NA> | FALSE | FALSE | NA | 2019 | 1 | 2020-06-04 |
| ## 274 | Cardiac | FALSE | FALSE | NA | 2021 | 30 | 2020-02-15 |
| ## 275 | <NA> | FALSE | FALSE | NA | 2018 | NA | 2020-06-06 |
| ## 276 | <NA> | FALSE | TRUE | NA | 2021 | 75 | 2020-10-18 |
| ## 277 | <NA> | FALSE | TRUE | NA | 2022 | 70 | 2021-11-30 |
| ## 278 | <NA> | FALSE | FALSE | NA | 2020 | 1 | 2020-06-25 |
| ## 279 | Cardiac | FALSE | TRUE | NA | 2020 | 38 | 2020-11-26 |
| ## 280 | <NA> | FALSE | FALSE | NA | 2020 | 15 | 2021-01-27 |
| ## 282 | Pulmonary | FALSE | FALSE | NA | 2020 | NA | 2021-09-27 |
| ## 286 | <NA> | FALSE | FALSE | NA | 2019 | NA | 2021-10-16 |
| ## 287 | Cardiac | FALSE | FALSE | NA | 2018 | 25 | 2021-03-23 |
| ## 289 | <NA> | FALSE | FALSE | NA | 2018 | NA | 2020-06-17 |
| ## 290 | <NA> | FALSE | FALSE | NA | 2018 | 14 | 2020-06-07 |
| ## 293 | <NA> | FALSE | TRUE | NA | 2019 | 63 | 2021-03-21 |
| ## 294 | <NA> | FALSE | FALSE | NA | 2019 | 17 | 2021-06-20 |
| ## 296 | Cardiac | TRUE | FALSE | NA | 2018 | 15 | 2020-12-01 |
| ## 297 | <NA> | FALSE | TRUE | NA | 2021 | 86 | 2021-10-06 |
| ## 298 | <NA> | FALSE | TRUE | NA | 2021 | 22 | 2020-06-14 |
| ## 299 | Cardiac | FALSE | FALSE | NA | 2020 | 11 | 2020-06-15 |
| ## 300 | <NA> | FALSE | FALSE | TRUE | 2019 | 7 | 2021-12-06 |
| ## 301 | <NA> | TRUE | FALSE | NA | 2017 | 38 | 2020-06-21 |
| ## 302 | <NA> | FALSE | FALSE | NA | 2018 | NA | 2021-02-21 |
| ## 303 | <NA> | FALSE | TRUE | NA | 2019 | 39 | 2021-07-04 |
| ## 305 | <NA> | FALSE | FALSE | NA | 2018 | NA | 2020-01-24 |
| ## 308 | <NA> | FALSE | FALSE | NA | 2019 | NA | 2021-09-20 |
| ## 314 | <NA> | FALSE | FALSE | NA | 2020 | NA | 2021-05-11 |
| ## 315 | Pulmonary | FALSE | TRUE | NA | 2019 | NA | 2020-11-08 |
| ## 316 | Cardiac | FALSE | FALSE | NA | 2019 | 1 | 2021-02-27 |
| ## 319 | <NA> | FALSE | FALSE | TRUE | 2019 | 26 | 2021-07-25 |
| ## 320 | <NA> | FALSE | TRUE | NA | 2020 | 6 | 2020-02-21 |
| ## 323 | <NA> | FALSE | FALSE | NA | 2019 | 160 | 2021-04-11 |
| ## 324 | <NA> | FALSE | TRUE | TRUE | 2020 | 25 | 2020-04-24 |
| ## 326 | <NA> | FALSE | TRUE | TRUE | 2020 | 76 | 2020-04-07 |
| ## 328 | Cardiac | FALSE | FALSE | NA | 2017 | 69 | 2021-06-02 |
| ## 330 | <NA> | FALSE | FALSE | TRUE | 2021 | NA | 2020-08-30 |
| ## 332 | <NA> | FALSE | FALSE | NA | 2021 | NA | 2021-03-07 |
| ## 333 | <NA> | FALSE | FALSE | NA | 2021 | 23 | 2020-10-07 |
| ## 334 | Cardiac | FALSE | FALSE | NA | 2019 | 58 | 2020-05-04 |
| ## 336 | <NA> | FALSE | FALSE | NA | 2019 | 19 | 2021-01-24 |
| ## 337 | <NA> | FALSE | FALSE | NA | 2019 | 20 | 2020-03-13 |
| ## 342 | Pulmonary | FALSE | TRUE | NA | 2019 | 7 | 2020-04-27 |
| ## 344 | Pulmonary | FALSE | TRUE | NA | 2019 | NA | 2021-04-16 |
| ## 345 | <NA> | FALSE | TRUE | NA | 2021 | 13 | 2021-04-30 |
| ## 346 | <NA> | FALSE | FALSE | NA | 2021 | 19 | 2021-10-17 |
| ## 347 | Cardiac | FALSE | FALSE | NA | 2020 | 7 | 2020-03-26 |
| ## 348 | Pulmonary | TRUE | FALSE | NA | 2021 | NA | 2021-01-02 |
| ## 350 | <NA> | FALSE | TRUE | NA | 2019 | 15 | 2020-10-24 |
| ## 352 | <NA> | FALSE | FALSE | NA | 2020 | 7 | 2020-06-27 |
| ## 353 | <NA> | FALSE | FALSE | NA | 2018 | 33 | 2020-10-03 |
| ## 355 | <NA> | FALSE | FALSE | NA | 2019 | 15 | 2021-01-18 |
| ## 357 | <NA> | NA | NA | NA | NA | NA | <NA> |

| | | | | | |
|--------|----------------|-------------|-----------|-----|------------|
| ## 359 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-06-22 |
| ## 361 | <NA> | FALSE FALSE | NA 2020 | 4 | 2021-04-06 |
| ## 363 | <NA> | NA NA | NA NA | NA | <NA> |
| ## 364 | <NA> | FALSE FALSE | NA 2021 | NA | 2021-07-05 |
| ## 365 | Cardiac | FALSE TRUE | NA 2020 | 11 | 2021-07-07 |
| ## 368 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-08-26 |
| ## 369 | <NA> | FALSE FALSE | NA 2019 | 61 | 2020-05-18 |
| ## 372 | <NA> | FALSE FALSE | NA 2018 | 76 | 2020-11-14 |
| ## 374 | <NA> | FALSE FALSE | NA 2021 | 22 | 2020-05-12 |
| ## 375 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-11-26 |
| ## 376 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-08-02 |
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| ## 380 | Cardiac | FALSE FALSE | NA 2018 | NA | 2021-10-01 |
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| ## 382 | <NA> | TRUE FALSE | NA 2021 | 26 | 2021-05-05 |
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| ## 387 | <NA> | FALSE TRUE | NA 2021 | 27 | 2021-01-25 |
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| ## 398 | <NA> | FALSE FALSE | NA 2019 | 23 | 2020-08-29 |
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| ## 403 | <NA> | FALSE FALSE | NA 2020 | 18 | 2020-02-02 |
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| ## 406 | <NA> | FALSE TRUE | NA 2020 | 103 | 2020-08-09 |
| ## 407 | Pulmonary | FALSE TRUE | NA 2020 | 3 | 2021-01-28 |
| ## 408 | <NA> | FALSE TRUE | NA 2019 | 95 | 2021-01-30 |
| ## 409 | <NA> | FALSE TRUE | NA 2018 | NA | 2021-09-06 |
| ## 411 | <NA> | FALSE FALSE | NA 2019 | 7 | 2021-02-12 |
| ## 414 | <NA> | FALSE FALSE | NA 2019 | 1 | 2021-04-10 |
| ## 416 | ECPR | FALSE TRUE | TRUE 2021 | 42 | 2021-07-03 |
| ## 417 | Pulmonary | FALSE FALSE | NA 2019 | 25 | 2020-08-16 |
| ## 418 | <NA> | FALSE FALSE | NA 2018 | NA | 2021-11-04 |
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| ## 422 | Cardiac | FALSE TRUE | NA 2019 | 27 | 2020-03-25 |
| ## 423 | Cardiac | FALSE TRUE | NA 2017 | 39 | 2021-10-21 |
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| ## 4 | 2020-02-25 | 2020-02-25 | | | |
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| ## 129 | 2021-11-28 | 2021-11-28 |
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## 353      2020-10-06 2020-10-06
## 355      2021-02-13 2021-02-13
## 357      <NA>
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## 369      2020-06-22      <NA>
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## 389      2021-03-17 2021-03-17
## 391      2021-08-12 2021-08-12
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## 417      2020-10-02 2020-10-02
## 418      2021-12-14 2021-12-14
## 419      2020-07-08 2020-07-08
## 422      2020-05-10      <NA>
## 423      2021-11-02 2021-11-02
```

drop duplicate patient_id, use only the first (oldest) visit:

#For synthetic_data, Sort dataframe by patient_id and admission_date:

```
synthetic_data <- synthetic_data[order(synthetic_data$patient_id,synthetic_data$admission_date ),]
```

#Drop duplicates dataframe by patient_id:

```
synthetic_data <- synthetic_data[!duplicated(synthetic_data$patient_id), ]
```

Ensure that columns with numeric variables don't have characters

#Fill empty values with NA:

```
example_lab_data[example_lab_data == ''] <- NA
synthetic_data[synthetic_data == ''] <- NA
example_lab_data[example_lab_data == 'UTC'] <- NA
synthetic_data[synthetic_data == 'UTC'] <- NA
example_lab_data[example_lab_data == 'NDA'] <- NA
synthetic_data[synthetic_data == 'NDA'] <- NA
example_lab_data[example_lab_data == 'N/A'] <- NA
synthetic_data[synthetic_data == 'N/A'] <- NA
```

#find character on numeric columns:

```
synthetic_data[synthetic_data == 'Not Available' ] <- NA
synthetic_data[synthetic_data == 'no info from OSH' ] <- NA
synthetic_data[synthetic_data == 'No data avail' ] <- NA
synthetic_data[synthetic_data == 'Not Measured, pt coded' ] <- NA
synthetic_data[synthetic_data == 'not measured' ] <- NA

synthetic_data$ph <- parse_number(synthetic_data$ph)
```

```
## Warning: 1 parsing failure.
## row col expected actual
## 137 -- a number      N
```

```
synthetic_data
```

```
##      patient_id age    sex    race weight_kg height_cm      bmi
## 357      <NA>  NA  <NA>    <NA>      NA      NA      NA
## 292 09eGkKQQLs  50    F    White    55.7    160.00  39.20000
## 227 OHTVt952AR  43  Male    White    90.8    177.80  25.28000
## 40  0shbw3gvsR  49  Male    White   155.0    177.80  37.51850
## 94  1fA9JingfV  25  Male    Black   101.0    178.00  37.33000
## 96  1P5kPzvd9t  27  Male  Hispanic    90.8    185.00  24.94000
## 414 1uksyaSHeL  44 Female    White   105.3    160.00  21.40290
## 192 21lPc1NASV  74  Male    White   114.8    195.60  22.80852
## 208 2nb07U2Jjq  57    M    White   101.0    175.30  19.71000
## 33  2qAEFXFqb6  63    M    White   110.0    165.10  39.89000
## 118 2ZXsa2N6Jd  46    F    White    78.9    183.00  28.23000
## 188 3KSfMkioqd  52    M    White   107.0    165.10  36.35000
## 14  3mBGPKDDW1  36    F    Other   109.0    170.00  34.25000
## 250 3NQYqtSjUW  67    F    White   122.0    160.54  28.90000
## 22  305IFWM0Ic  37    M    White   115.3    182.90  39.97000
## 366 3pZ2TqnNyn  40    M    White    67.4    188.00  28.38000
## 181 41JVmRtPjM  62    M    White    93.0    162.60  28.72738
## 309 4AAZ92PAwu  59  Male    Other   122.0    172.70  46.20000
## 421 4WtxRYlnFr  33    M    White   122.0    157.00  34.58000
## 216 4Zz1llngXL  37    M    White   122.0    175.30  33.04000
```

| | | | | | | | | |
|----|-----|------------|----|--------|----------|-------|--------|----------|
| ## | 199 | 5dVrn2ayfY | 23 | F | White | 96.0 | 180.30 | 44.74000 |
| ## | 360 | 5eklKVY8eb | 67 | F | Black | 96.0 | 188.00 | 16.00043 |
| ## | 65 | 5G43p1Sef3 | 30 | F | Black | 110.0 | 177.80 | 42.58000 |
| ## | 68 | 5GPrpvezkX | 18 | M | White | 86.9 | 180.30 | 25.62000 |
| ## | 312 | 5lbmb0qHv8 | 41 | Male | White | 102.0 | 182.30 | 19.71000 |
| ## | 101 | 5mJUoGAF63 | 41 | M | White | 125.0 | 170.20 | 33.13000 |
| ## | 285 | 5mtxXH3jRH | 54 | F | White | 115.0 | 149.86 | 53.52000 |
| ## | 91 | 5TLquRFvBi | 41 | F | <NA> | NA | 185.00 | 28.96000 |
| ## | 46 | 5u0Xu0Tdc0 | 41 | Male | White | 48.5 | 178.00 | 41.26000 |
| ## | 203 | 5Yyz9ENIDU | 41 | M | White | 138.0 | 177.80 | 30.74572 |
| ## | 424 | 62TUhJfVNx | 65 | M | White | 118.6 | 165.10 | 41.54000 |
| ## | 99 | 6FXhotFYnY | 59 | M | White | NA | 172.00 | 25.51000 |
| ## | 310 | 6GFH21TmRM | 46 | Female | White | 119.0 | 152.40 | 31.26370 |
| ## | 412 | 6GhDk8AVNM | 41 | Male | White | 103.4 | 180.30 | 35.31250 |
| ## | 143 | 6lqNTiCBkx | 48 | F | White | 58.3 | 182.90 | 33.94000 |
| ## | 311 | 6oRe3fwXqu | 39 | Male | White | 81.9 | 152.00 | 33.95201 |
| ## | 175 | 76nhLlQkv2 | 45 | Male | White | 98.4 | 183.00 | 33.95201 |
| ## | 379 | 7kQUZ43oC8 | 53 | Male | White | 90.7 | NA | 24.68372 |
| ## | 170 | 7kyadngjaW | 59 | F | Hispanic | 115.3 | 180.30 | 22.30000 |
| ## | 377 | 7ouuSHr6gZ | 40 | M | Other | 138.0 | 170.20 | 30.72000 |
| ## | 342 | 7TZzyY0yMi | 50 | Male | White | 96.4 | 150.00 | 26.57000 |
| ## | 159 | 7VN31dBvd0 | 29 | F | White | 95.3 | 152.00 | NA |
| ## | 335 | 8B9lw2QlBK | 63 | M | White | 97.8 | 160.00 | 36.00000 |
| ## | 265 | 8NReDzR0yU | 56 | M | White | 97.5 | 154.90 | 31.01507 |
| ## | 349 | 8X6ukclCYx | 42 | M | White | 138.0 | 180.00 | 33.95201 |
| ## | 291 | 9eYaDYosSZ | 61 | F | White | 85.4 | 193.00 | 31.47755 |
| ## | 415 | 9L2XCccHyS | 46 | Female | White | 150.0 | 157.00 | 27.60000 |
| ## | 7 | 9RJXcM3JN2 | 23 | M | White | 104.8 | 154.90 | 28.75295 |
| ## | 217 | 9wMC9Rqblr | 77 | Male | White | 58.0 | 175.30 | 24.63531 |
| ## | 197 | a5oybzT4hg | 45 | M | White | 85.6 | 175.30 | 28.70000 |
| ## | 121 | A85a96UqL3 | 30 | Male | White | 124.0 | 170.20 | 26.01000 |
| ## | 241 | AcBGmRWasV | 54 | F | White | 104.2 | 156.00 | 25.50000 |
| ## | 240 | aCmgyoBDAU | 61 | M | White | 99.9 | 182.90 | 23.20312 |
| ## | 322 | ahyMwvXeTc | 81 | Male | White | 46.0 | 154.90 | 26.60000 |
| ## | 109 | AQXGYHxdC0 | 59 | M | White | 72.0 | 177.80 | 50.58000 |
| ## | 116 | ar1fphuqKw | 30 | Male | Hispanic | 79.7 | 177.80 | 27.02979 |
| ## | 214 | argAUZmnvn | 40 | M | Other | 65.0 | 177.80 | 52.64000 |
| ## | 313 | ATxZLWCuMl | 46 | F | White | 96.1 | 188.00 | 31.00000 |
| ## | 190 | aWyCq5N29m | 22 | Female | White | 200.6 | 168.00 | 30.75000 |
| ## | 371 | axPHpa6Utq | 51 | M | Hispanic | 99.9 | 185.00 | 31.38000 |
| ## | 337 | bGRYJRCGmT | 53 | F | White | 79.7 | 170.20 | 33.82641 |
| ## | 29 | bpjYMzIhem | 30 | Female | White | 88.7 | 177.80 | 36.78670 |
| ## | 37 | bUVJGLenVs | 67 | F | White | 109.6 | 172.00 | 34.32992 |
| ## | 346 | C2DRgzRqj7 | 61 | Male | White | 92.8 | 172.70 | 24.82459 |
| ## | 339 | CaLjSyXZmA | 77 | M | White | 160.0 | 165.10 | 32.41000 |
| ## | 229 | cCnBeL4FBu | 67 | Male | White | 107.0 | 189.00 | 23.84620 |
| ## | 395 | cdLZYtILc9 | 40 | F | Hispanic | 103.0 | 160.00 | 37.20000 |
| ## | 16 | cePCOQrw8s | 26 | <NA> | White | 71.7 | 147.30 | 18.79425 |
| ## | 114 | ch5bQD0kFI | 14 | M | White | 97.8 | 175.30 | 25.41000 |
| ## | 58 | clCgxK8oYw | 24 | M | Other | 90.8 | 152.40 | 37.97000 |
| ## | 135 | CUkgYtax4B | 59 | Female | White | 84.0 | 177.80 | 43.51834 |
| ## | 196 | cvP8nUYmD5 | 44 | Male | White | 111.9 | 177.80 | 26.55000 |
| ## | 30 | Cwy6w4MuKf | 63 | M | White | 60.0 | 159.00 | 32.11000 |
| ## | 50 | CxsoWMlPJ7 | 53 | Male | White | 66.2 | 188.00 | 33.55795 |

| | | | | | | | | |
|----|-----|------------|----|--------|----------|-------|--------|----------|
| ## | 356 | CZV4Am96WI | 65 | M | White | 69.7 | 161.90 | 22.79000 |
| ## | 193 | d1K0bvMARw | 22 | Male | White | 136.0 | 182.90 | 53.52000 |
| ## | 134 | d5YupdnG8g | 39 | M | White | 101.0 | 167.60 | 27.60000 |
| ## | 173 | D76F1NdzPh | 34 | M | Black | 60.7 | 196.00 | 27.08995 |
| ## | 112 | DjjRrZGNhd | 35 | Male | White | 155.0 | 185.00 | 36.02736 |
| ## | 48 | ds8kizHdyF | 55 | M | White | 126.1 | 170.20 | 42.14943 |
| ## | 289 | dt1qZYVvWv | 44 | M | White | 107.0 | 170.20 | 56.78000 |
| ## | 51 | dTTfpg0YcA | 23 | M | White | 98.4 | 177.80 | 28.34000 |
| ## | 215 | E19tSTGK2g | 48 | Male | White | 198.0 | 170.20 | 30.60000 |
| ## | 270 | e2XxEm3acg | 67 | M | White | 101.0 | 170.20 | 22.48000 |
| ## | 374 | EePz5z50fK | 62 | F | Hispanic | 96.0 | 172.70 | 21.81000 |
| ## | 244 | Eg09gedBMk | 69 | M | White | 113.7 | NA | 34.81000 |
| ## | 387 | ekDtKm0TAg | 55 | Female | White | 78.2 | 131.30 | 18.53688 |
| ## | 222 | ENTDqRsfvq | 35 | Male | Black | 72.0 | 177.80 | 35.80000 |
| ## | 90 | ePV7YZsSGh | 48 | M | White | 144.0 | 182.90 | 32.28650 |
| ## | 406 | erG5SEIJWp | 40 | Male | White | 114.0 | 167.00 | 35.19692 |
| ## | 420 | esqwneZenZ | 42 | F | White | 110.0 | 160.00 | 26.84000 |
| ## | 368 | eTIP4hpddm | 30 | F | Black | 110.9 | 180.30 | 40.13841 |
| ## | 179 | EtsodwhqNO | 73 | M | White | 109.0 | 182.90 | 28.47001 |
| ## | 280 | eWV175w6O4 | 57 | F | White | 123.0 | 185.40 | 22.48000 |
| ## | 284 | f0yv9t01OC | 47 | F | Black | 69.3 | 160.00 | 20.90000 |
| ## | 373 | f9AMZU1NJL | 61 | Male | White | 141.0 | 168.00 | 29.30000 |
| ## | 306 | F9kweE4QrM | 79 | M | <NA> | 141.0 | 157.00 | 34.73591 |
| ## | 183 | fbbgoc1RTa | 65 | M | White | 65.0 | 157.00 | 32.98000 |
| ## | 62 | feAVr7Hlrv | 53 | M | White | 87.5 | 157.50 | 53.52000 |
| ## | 131 | FG7WUot1DJ | 19 | F | White | 40.0 | 190.00 | 21.40851 |
| ## | 224 | fkvZ0zt0QL | 28 | <NA> | <NA> | 79.4 | 172.70 | 31.77000 |
| ## | 4 | FlV8vFIekH | 45 | M | White | 61.0 | 152.40 | 21.75507 |
| ## | 39 | fxfMuneuZ4 | 52 | Male | White | 149.2 | 162.60 | 33.96000 |
| ## | 327 | fzGmCWwgYZ | 36 | F | White | 104.5 | 175.30 | 26.60000 |
| ## | 138 | G0kUJJkRSU | 65 | F | White | 84.2 | 175.30 | 26.63000 |
| ## | 15 | G5zjyy1NHl | 35 | Male | White | 125.2 | 167.00 | 24.20000 |
| ## | 279 | ghGLxbqUot | 29 | Female | <NA> | 136.9 | 170.20 | 32.29000 |
| ## | 341 | gHwXGHYluU | 50 | Male | White | 90.8 | 167.00 | 26.90644 |
| ## | 266 | gIUeePx8E3 | NA | Male | White | 113.0 | 177.80 | 48.44000 |
| ## | 273 | gJ2ERPGGQc | 62 | Male | White | 59.4 | 172.70 | 50.58000 |
| ## | 24 | GMM5IIMsks | 53 | M | White | 87.8 | 180.30 | 44.25000 |
| ## | 405 | G009ECYMCi | 52 | M | White | 96.9 | 185.40 | 24.47165 |
| ## | 113 | GRgi1BcRFF | 78 | Male | White | 106.0 | 165.10 | 29.70341 |
| ## | 6 | gvQFBONZVL | 60 | Male | White | 190.5 | 177.80 | 42.86250 |
| ## | 88 | GW3gmyWKj7 | 40 | F | White | 68.4 | 182.30 | 21.53000 |
| ## | 71 | h0AW4YaVS6 | 56 | F | White | 161.0 | 182.90 | 43.61000 |
| ## | 298 | HDHj5t6h8Q | 31 | M | White | 99.2 | 183.00 | 34.76000 |
| ## | 340 | hPe6cM9zyo | 48 | Female | Black | 64.7 | 180.30 | 24.82459 |
| ## | 19 | hQly7wVB6P | 57 | Female | White | 58.7 | NA | 40.84000 |
| ## | 127 | I4zTRqpHco | 73 | F | White | 76.3 | 180.00 | 35.18232 |
| ## | 367 | I9ioR5P3Fm | 49 | Female | White | 110.0 | 175.30 | 21.24000 |
| ## | 20 | IcjCW6rMOW | 65 | M | Other | 91.4 | 173.00 | 22.68000 |
| ## | 120 | iM1W2qB6nx | 29 | F | White | 106.0 | 168.00 | 29.45337 |
| ## | 331 | IpAgw7Fonc | 59 | M | White | 74.8 | 163.00 | 29.90000 |
| ## | 303 | IqbiKaQrSQ | 39 | M | White | 98.5 | 182.90 | 31.67000 |
| ## | 140 | IqkI11WYK7 | 31 | Female | White | 104.5 | 189.00 | 26.84000 |
| ## | 80 | irBybe9T47 | 87 | F | White | 106.0 | 170.20 | 33.95201 |
| ## | 238 | isLH4ZYjDV | 65 | M | White | 154.7 | 175.30 | 36.56337 |

| | | | | | | | | |
|----|-----|------------|----|--------|----------|-------|--------|----------|
| ## | 253 | IwoGIkuRxW | 40 | F | Black | 110.0 | 172.70 | 38.19000 |
| ## | 133 | iwp8UUS8du | 53 | M | White | 98.9 | 167.60 | 44.74000 |
| ## | 388 | jcZ9OrMP0D | 45 | Male | White | NA | 185.40 | 36.02736 |
| ## | 38 | jdVKTQaIPT | 31 | Male | White | 112.1 | 177.80 | 21.53000 |
| ## | 274 | JibNJxmh9o | 59 | Male | Black | 123.0 | 182.90 | 32.04000 |
| ## | 321 | jkZdcBdnd2 | 25 | Male | White | 67.5 | 170.20 | 35.01000 |
| ## | 154 | JuneBiGLRI | 65 | F | White | 76.3 | 156.70 | 33.13000 |
| ## | 79 | KfxOQl50T8 | 55 | M | White | 79.8 | 162.60 | 41.16000 |
| ## | 390 | kKxSSHlZXd | 35 | M | White | 111.6 | 180.30 | 31.00000 |
| ## | 104 | KL9bwQLGY3 | 64 | M | White | 127.3 | 162.60 | 15.54000 |
| ## | 218 | KLSBVjhEPV | 40 | Male | White | 117.0 | 176.00 | 31.77000 |
| ## | 211 | KmzCovpqvj | 81 | F | White | 70.3 | 154.90 | 29.44000 |
| ## | 318 | KMztMzeZnq | 54 | Female | White | NA | 185.00 | 39.79000 |
| ## | 167 | krAuOxufm0 | 78 | M | White | 120.0 | 170.00 | 46.20000 |
| ## | 52 | l0dDAKKGyk | 67 | M | White | 79.0 | 172.70 | 36.00000 |
| ## | 119 | L4Ez4yJnC3 | 44 | F | White | 132.0 | 188.00 | 52.64000 |
| ## | 76 | LBRVzQu5w9 | 40 | Male | White | 86.0 | 157.50 | NA |
| ## | 115 | LDrhkYqRh | 49 | M | White | 96.0 | 182.30 | 33.11000 |
| ## | 394 | lflTgnORgy | 27 | Male | White | 112.0 | 175.30 | 33.24000 |
| ## | 164 | lgwsTbQ9bX | 46 | F | White | 72.0 | 180.00 | 22.48000 |
| ## | 110 | LHlSeS6iJe | 22 | Male | White | 90.5 | 157.50 | 31.00000 |
| ## | 81 | lnbgczEuk6 | 45 | Male | White | 141.0 | 150.00 | 57.25000 |
| ## | 413 | LQ95Zjbttz | 40 | F | White | 69.2 | 177.80 | 22.68000 |
| ## | 370 | maAIIZT5cK | 60 | Female | White | 99.4 | 177.80 | 41.33000 |
| ## | 272 | mcVVfH0KE | 47 | F | White | 105.0 | 185.40 | 46.87297 |
| ## | 182 | NAr7sQBANj | 65 | M | White | 69.4 | 165.10 | 29.42508 |
| ## | 31 | nDyA0tpdsa | 71 | Male | White | NA | 182.90 | 37.68000 |
| ## | 17 | NJWGmEdBvk | 57 | M | Other | 72.0 | 180.30 | 37.47000 |
| ## | 78 | NmcBGj7Rf0 | 45 | M | White | 103.0 | 172.70 | 35.99104 |
| ## | 410 | nN0kW9deWT | 39 | Male | White | 140.0 | 180.30 | 31.44437 |
| ## | 161 | NOA8aC1S9d | 40 | F | White | 79.0 | 180.30 | 22.80852 |
| ## | 254 | nY6IQYyUNJ | 30 | F | White | 110.0 | 160.54 | 48.44000 |
| ## | 100 | oa74Ed90gm | 61 | Female | White | 79.7 | 177.80 | 25.41000 |
| ## | 87 | oGQkr8IPAi | 47 | Male | White | 79.0 | 162.50 | 26.90644 |
| ## | 155 | OGY8WsxqAd | 29 | Male | Hispanic | 82.4 | 167.00 | 18.79425 |
| ## | 60 | OnyNJW3DE6 | 54 | F | White | 79.7 | 167.60 | 34.25000 |
| ## | 63 | OoNNGRSXf6 | 32 | Male | Black | 132.0 | 168.90 | 31.99000 |
| ## | 153 | OSI63TKEAK | 81 | Male | White | 116.0 | 157.00 | 21.40290 |
| ## | 102 | owdrTVqd26 | 53 | M | White | 95.7 | 162.60 | 53.20000 |
| ## | 359 | OwwryljbEQ | 44 | Male | White | 193.7 | 177.00 | 34.22041 |
| ## | 307 | p0sjiHw6uc | 28 | M | White | 135.7 | 162.60 | 28.47001 |
| ## | 126 | p3uCdY5XSk | 52 | M | White | 74.8 | 180.30 | 25.51000 |
| ## | 304 | PBg8B1RhSi | 63 | M | White | 73.0 | 180.00 | 26.90644 |
| ## | 186 | PFVvnpzUj1 | 63 | Male | White | 51.3 | 170.00 | 27.59013 |
| ## | 66 | pL7cjkuchS | 60 | Female | White | 126.1 | 165.10 | 23.71094 |
| ## | 296 | PlSf6mx953 | 52 | M | White | 85.7 | 162.60 | 26.08525 |
| ## | 103 | pNzvrqNfXv | 62 | M | White | 106.0 | 175.30 | 33.44000 |
| ## | 163 | PsoF9yzccf | 76 | M | White | 59.4 | 160.00 | 48.48000 |
| ## | 281 | pwwBLaBRys | 20 | F | White | 76.5 | 170.20 | 28.47001 |
| ## | 212 | Q5kLek4x6d | 75 | F | White | 81.7 | 180.30 | 43.27000 |
| ## | 123 | q6danf6ZhC | 57 | F | White | 91.7 | 170.20 | 21.53000 |
| ## | 422 | qapZgo14KS | 67 | M | Black | 132.0 | 175.30 | 27.04000 |
| ## | 172 | qBAgaxacbm | 57 | M | White | 58.7 | 131.30 | 36.50000 |
| ## | 56 | qcsB0ie7Ye | 49 | Male | Hispanic | 86.9 | 172.00 | 20.90000 |

| | | | | | | | | |
|----|-----|------------|----|--------|----------|-------|--------|-----------|
| ## | 205 | QZ8bbgDR1F | 29 | Female | White | 146.7 | 188.00 | 24.55510 |
| ## | 351 | r8TuDLDL0T | 33 | M | Hispanic | 120.0 | 165.10 | 36.12000 |
| ## | 325 | rBFQvEvA6n | 59 | F | White | 124.4 | 177.80 | 24.39600 |
| ## | 150 | RcNvBXXLro | 59 | Female | White | 131.0 | 170.00 | 347.88167 |
| ## | 111 | RLIZJgcVd8 | 64 | M | White | 69.4 | 180.00 | 32.03000 |
| ## | 107 | rPjBoa86kB | 56 | Male | White | 64.5 | 170.20 | 27.65000 |
| ## | 194 | RPKfKp3mF7 | 59 | M | White | 118.6 | 184.00 | 45.75000 |
| ## | 343 | Rr92Ghb3JV | 55 | M | White | 63.8 | 182.90 | 22.12963 |
| ## | 301 | RUJwKyHR6 | 17 | M | White | 115.3 | 162.60 | 38.71000 |
| ## | 73 | S3wn1QyzPR | 40 | F | White | 107.9 | 162.60 | 25.19000 |
| ## | 141 | S65F25Nb7v | 57 | M | Black | 62.0 | 182.60 | 21.70000 |
| ## | 213 | sdezrCNI9N | 63 | M | Hispanic | 122.0 | 188.00 | 29.22000 |
| ## | 419 | sdfifHRB6T | 59 | F | White | 159.2 | 162.90 | 32.06000 |
| ## | 57 | SHVAA5chqV | 67 | Male | White | 103.0 | 173.50 | 37.67000 |
| ## | 237 | sMJ8f6IKAW | 65 | M | White | 110.0 | 175.30 | 42.21000 |
| ## | 2 | sT8IH3ZooD | 56 | M | White | 104.0 | 172.00 | 25.62000 |
| ## | 221 | Svsjxue25F | 57 | M | White | 84.1 | 198.10 | 27.52000 |
| ## | 180 | swEuLBRzZt | 68 | M | White | 101.5 | 165.10 | 31.77671 |
| ## | 105 | SzCWauSPpe | 52 | M | White | 112.4 | 177.80 | 26.84000 |
| ## | 41 | T3W1ZMT5J1 | 40 | M | White | 110.0 | 185.00 | 36.78670 |
| ## | 403 | TeelI019by | 18 | M | White | 82.0 | 188.00 | 31.59750 |
| ## | 187 | tjDd3ibIMV | 55 | M | White | 79.8 | 175.00 | 29.96000 |
| ## | 132 | TliygaYgAf | 56 | M | Other | 101.6 | 193.00 | 30.05286 |
| ## | 137 | TqQ4Yn0DN5 | 23 | Male | Black | 85.7 | 188.00 | 28.52043 |
| ## | 45 | TwcCgEsgee | 57 | Female | White | 76.8 | 162.00 | 33.53012 |
| ## | 369 | TXgFTizXwY | 39 | <NA> | Black | 75.2 | 185.40 | 27.70000 |
| ## | 23 | U5z4u340s9 | 28 | F | White | 104.0 | 160.00 | 37.33000 |
| ## | 320 | u8FjkVujGh | 29 | Female | White | 88.4 | 198.10 | 53.20000 |
| ## | 329 | U8qTwGIXza | 27 | F | White | 110.9 | 185.00 | 27.60000 |
| ## | 171 | uD0NxQpQ5F | 67 | M | White | 68.0 | 190.50 | 36.49000 |
| ## | 191 | ug7L5EgQ8i | 60 | F | Hispanic | 79.0 | 175.00 | 21.78000 |
| ## | 283 | uJh48i14lp | 30 | Male | White | 74.4 | 170.20 | 24.55510 |
| ## | 411 | uQKbY0aHUh | 25 | Male | White | 100.0 | 182.90 | 37.51850 |
| ## | 294 | usAagb3Ys8 | 63 | F | White | 64.7 | 177.80 | 42.58000 |
| ## | 267 | UtfCc9UaEM | 67 | M | White | 107.9 | 170.20 | 32.06000 |
| ## | 317 | uxKCjHTfLv | 64 | Female | White | 127.3 | 175.00 | 23.71094 |
| ## | 392 | uxtNRaXsa1 | 36 | Male | Black | 82.5 | 160.00 | 24.82459 |
| ## | 347 | v9PAyt2zS6 | 14 | Male | White | 124.0 | 182.90 | 38.59000 |
| ## | 316 | v1b0gzZhmX | 81 | M | White | 50.2 | 170.20 | 43.27000 |
| ## | 258 | vLGvYHMIN8 | 50 | M | White | 105.0 | 167.60 | 29.32000 |
| ## | 324 | vSewHcBXnT | 61 | F | White | 132.0 | 188.00 | 25.51000 |
| ## | 12 | VVxY2ojz0G | 23 | Male | White | 122.0 | 188.00 | 36.49000 |
| ## | 290 | W0709mDWf5 | 27 | Male | Black | 140.0 | 180.00 | 19.57000 |
| ## | 42 | w1d5gK19AF | 72 | F | White | 145.0 | 175.30 | 50.58000 |
| ## | 338 | w6Peq50ZP0 | 31 | M | White | 122.2 | 172.70 | 33.95062 |
| ## | 225 | W9IYIAle7a | 29 | Female | White | 85.0 | 175.30 | 30.30000 |
| ## | 269 | wExoR3npUK | 53 | M | White | 81.7 | 157.50 | 25.51000 |
| ## | 198 | wftV2Qbvcb | 47 | F | Black | 97.7 | 177.80 | 32.29000 |
| ## | 35 | wfzftPR62C | 59 | F | Hispanic | 70.1 | 147.30 | 31.59750 |
| ## | 358 | wGgofnmuro | 49 | M | White | 150.0 | 185.40 | 22.25945 |
| ## | 275 | WpXIJg30L2 | 27 | M | White | 114.8 | 172.70 | 31.88000 |
| ## | 67 | x09FN6h0qT | 33 | M | Black | 111.2 | 158.00 | 51.80590 |
| ## | 401 | x6t4C3jccS | 29 | Female | White | 87.8 | 158.00 | 24.30000 |
| ## | 402 | X9F8aK0J1G | 41 | F | White | 90.7 | 175.30 | 32.85000 |

| | | | | | | | | | |
|----|-----|-------------------|-----------|-----------|--------------|---------|--------|----------|-------|
| ## | 5 | XH0DUqel1R | 54 | F | White | NA | 170.00 | 26.01070 | |
| ## | 243 | xH3pHj8yGl | 41 | M | Black | 128.0 | 188.00 | 23.11000 | |
| ## | 255 | XjRrih0zHr | 56 | M | White | 94.1 | 184.00 | 26.01000 | |
| ## | 27 | Xl5d5UcCYD | 23 | M | White | 87.9 | 162.00 | 34.25000 | |
| ## | 231 | XLquXLGSRi | 64 | M | White | 107.0 | 162.60 | 32.72000 | |
| ## | 354 | xMrYe0f7uG | 22 | M | White | 107.8 | 188.00 | 28.32000 | |
| ## | 130 | xMwONWlcYS | 59 | M | White | 77.0 | 167.60 | 39.36000 | |
| ## | 399 | xPNg98Rj2c | 49 | F | White | 58.3 | 175.00 | 26.11877 | |
| ## | 98 | xxah5hoZVX | 46 | Male | Black | 96.4 | 177.80 | NA | |
| ## | 233 | y6790Htf4g | 44 | M | White | 109.0 | 157.50 | 30.12000 | |
| ## | 146 | y85GhLhQvu | 48 | Female | White | 99.2 | 188.00 | 28.23000 | |
| ## | 18 | YBjyOMIrGw | 22 | F | White | 163.0 | 182.90 | 68.95751 | |
| ## | 295 | Yd22y1lT2U | 56 | F | White | 198.0 | 170.20 | 41.66000 | |
| ## | 228 | yDWpxdI3XG | 35 | Male | White | 85.0 | 188.00 | 39.20000 | |
| ## | 70 | YhxGHvKVSR | 29 | Male | White | 103.0 | 171.50 | 31.77671 | |
| ## | 26 | YOPSkNhVT1 | 27 | M | White | 100.0 | 152.00 | 28.47656 | |
| ## | 350 | ysIXFTGIsU | 83 | M | White | 65.0 | 160.00 | 37.17000 | |
| ## | 382 | Yx4YroY44a | 39 | M | Black | 94.7 | 172.70 | NA | |
| ## | 362 | zAcDJH255Z | 57 | F | White | 112.4 | 188.00 | 39.20000 | |
| ## | 232 | zbFUKiRnqH | 60 | F | White | 198.0 | 188.00 | 32.90000 | |
| ## | 396 | zDfCEn0BQv | 60 | F | White | 153.0 | 185.40 | 26.89000 | |
| ## | 219 | zEn8gU76bg | 80 | Female | Black | 79.0 | 190.50 | 45.75000 | |
| ## | 125 | ZQ30PJdeIu | 47 | Female | White | 69.4 | 170.00 | 27.08995 | |
| ## | 288 | ZQCekg01zT | 74 | Male | White | 77.9 | 179.60 | 39.79000 | |
| ## | 32 | zRlHFeTD3y | 29 | Male | White | 97.6 | 156.70 | 29.44000 | |
| ## | 334 | zsEXlQoxFm | 49 | F | White | 122.0 | 183.00 | 41.54000 | |
| ## | 248 | zT0OGWyh7s | 29 | Male | White | 74.0 | 162.60 | 21.05025 | |
| ## | 147 | ZVLZlCpyfh | 62 | F | White | 95.7 | 165.10 | 34.69136 | |
| ## | | | | diagnosis | reintubation | trached | ph | co2 | o2 |
| ## | 357 | | | <NA> | NA | NA | NA | NA | NA |
| ## | 292 | | | Other | FALSE | FALSE | 7.200 | 38.0 | 118.0 |
| ## | 227 | Cardiovascular | condition | | FALSE | FALSE | NA | NA | 19.0 |
| ## | 40 | Other respiratory | infection | | TRUE | NA | 7.390 | 30.0 | 116.0 |
| ## | 94 | Cardiovascular | condition | | FALSE | TRUE | 7.460 | 41.5 | 71.0 |
| ## | 96 | Other respiratory | condition | | FALSE | TRUE | 7.080 | 41.0 | NA |
| ## | 414 | Other respiratory | condition | | NA | FALSE | 7.030 | 53.0 | 45.8 |
| ## | 192 | | COVID-19 | | NA | FALSE | NA | NA | 54.0 |
| ## | 208 | | COVID-19 | | NA | FALSE | 7.380 | 35.3 | 360.0 |
| ## | 33 | Other respiratory | condition | | FALSE | FALSE | NA | 53.0 | 63.0 |
| ## | 118 | | <NA> | | FALSE | TRUE | NA | 59.5 | 46.0 |
| ## | 188 | Other respiratory | condition | | FALSE | TRUE | NA | 81.0 | 330.4 |
| ## | 14 | Other respiratory | condition | | NA | FALSE | 7.110 | 44.3 | 70.0 |
| ## | 250 | | COVID-19 | | NA | FALSE | 7.110 | 86.0 | 87.0 |
| ## | 22 | Other respiratory | condition | | FALSE | TRUE | 7.040 | NA | 317.0 |
| ## | 366 | Cardiovascular | condition | | NA | FALSE | 7.360 | 20.8 | 73.0 |
| ## | 181 | Cardiovascular | condition | | FALSE | FALSE | 7.440 | 56.0 | 266.0 |
| ## | 309 | Other respiratory | condition | | FALSE | TRUE | 7.170 | 59.0 | 79.0 |
| ## | 421 | | COVID-19 | | FALSE | NA | NA | NA | 42.0 |
| ## | 216 | Cardiovascular | condition | | NA | TRUE | 7.380 | 63.0 | 221.0 |
| ## | 199 | | COVID-19 | | FALSE | TRUE | 7.490 | 49.0 | 83.0 |
| ## | 360 | Other respiratory | condition | | FALSE | FALSE | 7.480 | 34.0 | 112.9 |
| ## | 65 | Other respiratory | infection | | NA | FALSE | 7.400 | NA | 42.0 |
| ## | 68 | | <NA> | | TRUE | TRUE | 7.450 | NA | NA |
| ## | 312 | Other respiratory | infection | | FALSE | TRUE | 7.270 | 72.8 | 60.0 |

| | | | | | | |
|--------|-----------------------------|-------|-------|-------|------|-------|
| ## 101 | COVID-19 | TRUE | FALSE | 7.400 | NA | 91.3 |
| ## 285 | COVID-19 | NA | TRUE | 6.780 | NA | 49.0 |
| ## 91 | COVID-19 | FALSE | FALSE | 7.330 | 56.0 | 46.0 |
| ## 46 | COVID-19 | NA | FALSE | 7.140 | 38.0 | 208.0 |
| ## 203 | COVID-19 | FALSE | TRUE | 7.400 | 37.0 | NA |
| ## 424 | Cardiovascular condition | FALSE | TRUE | 7.190 | 68.0 | 73.0 |
| ## 99 | COVID-19 | FALSE | FALSE | 7.230 | 59.0 | 38.0 |
| ## 310 | Other respiratory infection | FALSE | FALSE | 7.340 | NA | NA |
| ## 412 | Cardiovascular condition | FALSE | TRUE | NA | 48.0 | 58.0 |
| ## 143 | Cardiovascular condition | TRUE | NA | 7.290 | 73.9 | NA |
| ## 311 | <NA> | FALSE | NA | NA | 58.0 | 47.0 |
| ## 175 | Other respiratory condition | NA | FALSE | 7.120 | 48.0 | 82.0 |
| ## 379 | Cardiovascular condition | FALSE | FALSE | 7.350 | 57.0 | 221.0 |
| ## 170 | Cardiovascular condition | TRUE | FALSE | 7.400 | 89.1 | 53.8 |
| ## 377 | Cardiovascular condition | FALSE | TRUE | 7.320 | 38.4 | 74.8 |
| ## 342 | Other | NA | FALSE | 7.230 | 39.4 | NA |
| ## 159 | Cardiovascular condition | FALSE | TRUE | NA | 45.0 | 80.0 |
| ## 335 | Cardiovascular condition | FALSE | FALSE | 7.250 | 39.0 | 118.9 |
| ## 265 | Other respiratory condition | NA | TRUE | 7.150 | 56.0 | 69.0 |
| ## 349 | Other respiratory condition | FALSE | FALSE | 7.320 | 39.0 | 54.0 |
| ## 291 | COVID-19 | NA | FALSE | 7.240 | 45.0 | 70.5 |
| ## 415 | Other respiratory condition | FALSE | FALSE | 7.220 | 43.2 | 42.0 |
| ## 7 | Other | FALSE | FALSE | 7.340 | 44.3 | NA |
| ## 217 | Other respiratory condition | TRUE | NA | 7.370 | NA | 65.0 |
| ## 197 | Other | FALSE | FALSE | NA | 34.0 | NA |
| ## 121 | Cardiovascular condition | FALSE | TRUE | 7.240 | 57.0 | 179.3 |
| ## 241 | Other respiratory condition | FALSE | FALSE | 7.050 | 50.7 | NA |
| ## 240 | Other respiratory infection | NA | TRUE | 7.210 | 56.3 | 94.5 |
| ## 322 | <NA> | FALSE | FALSE | 7.450 | 33.0 | NA |
| ## 109 | Cardiovascular condition | FALSE | FALSE | 7.160 | 79.0 | 57.0 |
| ## 116 | COVID-19 | FALSE | FALSE | 7.220 | 57.0 | 69.0 |
| ## 214 | COVID-19 | FALSE | NA | 7.490 | 44.3 | 106.0 |
| ## 313 | Cardiovascular condition | FALSE | FALSE | NA | 43.0 | 412.0 |
| ## 190 | Other respiratory condition | FALSE | NA | 7.360 | 28.0 | 60.0 |
| ## 371 | Cardiovascular condition | FALSE | FALSE | 7.440 | NA | NA |
| ## 337 | Other | FALSE | FALSE | 7.240 | 42.7 | 208.0 |
| ## 29 | Other respiratory condition | FALSE | TRUE | 7.350 | 38.0 | 130.0 |
| ## 37 | <NA> | NA | NA | 7.460 | 33.0 | 65.0 |
| ## 346 | Cardiovascular condition | NA | FALSE | 7.120 | 43.9 | 59.0 |
| ## 339 | COVID-19 | NA | FALSE | 7.150 | 57.0 | 76.0 |
| ## 229 | COVID-19 | FALSE | FALSE | 7.300 | 43.0 | 63.0 |
| ## 395 | Other | NA | FALSE | 7.320 | 46.4 | 83.0 |
| ## 16 | Other respiratory condition | NA | FALSE | 7.190 | 39.0 | 70.5 |
| ## 114 | <NA> | FALSE | FALSE | 7.150 | 50.2 | NA |
| ## 58 | Other respiratory condition | NA | FALSE | 6.920 | 57.0 | 99.2 |
| ## 135 | Cardiovascular condition | NA | FALSE | 7.090 | 39.4 | NA |
| ## 196 | Other respiratory condition | FALSE | FALSE | NA | NA | 73.0 |
| ## 30 | COVID-19 | FALSE | FALSE | 7.020 | 36.0 | 76.1 |
| ## 50 | Other respiratory condition | FALSE | TRUE | NA | 37.0 | 208.0 |
| ## 356 | Other respiratory infection | FALSE | FALSE | 7.220 | 39.5 | 139.0 |
| ## 193 | Other respiratory condition | NA | FALSE | 7.430 | 24.2 | NA |
| ## 134 | Other respiratory condition | NA | FALSE | 7.100 | 48.0 | 67.0 |
| ## 173 | Cardiovascular condition | FALSE | NA | 7.080 | 43.0 | 91.3 |
| ## 112 | Cardiovascular condition | FALSE | FALSE | NA | 62.0 | 44.0 |

| | | | | | | |
|--------|-----------------------------|-------|-------|-------|-------|-------|
| ## 48 | Other | FALSE | FALSE | 6.950 | NA | 36.0 |
| ## 289 | Other respiratory condition | FALSE | TRUE | NA | 37.3 | 91.1 |
| ## 51 | Other | NA | FALSE | NA | 27.0 | 60.0 |
| ## 215 | Cardiovascular condition | NA | TRUE | 7.330 | 39.0 | 83.0 |
| ## 270 | Other respiratory condition | NA | NA | 7.260 | 125.0 | 116.0 |
| ## 374 | <NA> | FALSE | NA | NA | 39.0 | 118.9 |
| ## 244 | COVID-19 | FALSE | FALSE | 7.250 | 48.0 | 287.0 |
| ## 387 | COVID-19 | NA | FALSE | 7.120 | 86.0 | 117.6 |
| ## 222 | Cardiovascular condition | TRUE | TRUE | 6.950 | NA | 76.0 |
| ## 90 | Other respiratory condition | NA | NA | 7.030 | 28.0 | 37.3 |
| ## 406 | Other respiratory condition | FALSE | TRUE | 7.430 | 40.0 | NA |
| ## 420 | COVID-19 | NA | NA | 7.440 | 56.0 | 123.0 |
| ## 368 | Cardiovascular condition | NA | TRUE | 7.240 | 41.0 | 208.0 |
| ## 179 | Cardiovascular condition | TRUE | NA | 7.310 | 31.0 | 102.6 |
| ## 280 | Cardiovascular condition | FALSE | FALSE | NA | 51.0 | NA |
| ## 284 | COVID-19 | FALSE | TRUE | 7.240 | 30.0 | 92.0 |
| ## 373 | Cardiovascular condition | FALSE | TRUE | 7.470 | 59.0 | 44.0 |
| ## 306 | Cardiovascular condition | FALSE | FALSE | 7.400 | 69.0 | NA |
| ## 183 | COVID-19 | FALSE | TRUE | 7.140 | NA | 67.0 |
| ## 62 | <NA> | FALSE | FALSE | NA | 56.7 | 113.0 |
| ## 131 | Cardiovascular condition | NA | FALSE | NA | NA | 370.0 |
| ## 224 | COVID-19 | FALSE | TRUE | 7.370 | 83.0 | 70.5 |
| ## 4 | COVID-19 | NA | FALSE | 7.180 | 72.0 | 109.0 |
| ## 39 | <NA> | NA | FALSE | 7.490 | 41.6 | 45.8 |
| ## 327 | COVID-19 | FALSE | TRUE | 7.110 | 71.8 | 83.0 |
| ## 138 | Cardiovascular condition | NA | FALSE | 7.450 | 48.0 | NA |
| ## 15 | Cardiovascular condition | NA | FALSE | NA | NA | 42.0 |
| ## 279 | <NA> | FALSE | NA | 7.200 | 63.0 | NA |
| ## 341 | Cardiovascular condition | FALSE | FALSE | 7.100 | 68.0 | 394.4 |
| ## 266 | <NA> | NA | FALSE | 7.300 | 52.0 | 323.0 |
| ## 273 | Other respiratory condition | NA | FALSE | 7.350 | 39.5 | NA |
| ## 24 | COVID-19 | FALSE | FALSE | 7.320 | 72.0 | 62.0 |
| ## 405 | Cardiovascular condition | FALSE | FALSE | NA | 53.0 | 43.0 |
| ## 113 | Other | NA | FALSE | NA | NA | NA |
| ## 6 | COVID-19 | FALSE | FALSE | 7.420 | NA | 49.0 |
| ## 88 | COVID-19 | FALSE | NA | 7.110 | 35.0 | 207.0 |
| ## 71 | <NA> | TRUE | FALSE | NA | 48.0 | 27.0 |
| ## 298 | Other | NA | TRUE | 7.270 | 44.0 | 36.0 |
| ## 340 | COVID-19 | NA | FALSE | 7.440 | 68.0 | 70.0 |
| ## 19 | Cardiovascular condition | TRUE | FALSE | 7.210 | 40.6 | 112.9 |
| ## 127 | Cardiovascular condition | FALSE | TRUE | 7.220 | NA | 87.0 |
| ## 367 | Other respiratory condition | NA | NA | 7.340 | 57.0 | NA |
| ## 20 | <NA> | NA | TRUE | 7.080 | NA | 80.0 |
| ## 120 | COVID-19 | TRUE | NA | 7.350 | 42.0 | 222.0 |
| ## 331 | Cardiovascular condition | FALSE | TRUE | 7.270 | 45.0 | 75.0 |
| ## 303 | Cardiovascular condition | NA | TRUE | 7.310 | 51.0 | 58.0 |
| ## 140 | COVID-19 | NA | FALSE | NA | 12.0 | 525.6 |
| ## 80 | COVID-19 | FALSE | FALSE | 7.480 | NA | 52.7 |
| ## 238 | COVID-19 | FALSE | TRUE | 7.200 | 44.3 | 232.0 |
| ## 253 | COVID-19 | FALSE | FALSE | 7.420 | 39.0 | 37.9 |
| ## 133 | Other respiratory condition | FALSE | TRUE | 7.270 | NA | 232.0 |
| ## 388 | Cardiovascular condition | NA | TRUE | 7.380 | 57.0 | 59.0 |
| ## 38 | COVID-19 | FALSE | NA | 7.480 | 63.7 | 74.0 |
| ## 274 | Cardiovascular condition | FALSE | NA | 7.100 | 48.0 | 88.0 |

| | | | | | | |
|--------|-----------------------------|-------|-------|-------|-------|-------|
| ## 321 | COVID-19 | TRUE | FALSE | 7.270 | 42.0 | 113.0 |
| ## 154 | Cardiovascular condition | FALSE | FALSE | NA | 84.0 | NA |
| ## 79 | Cardiovascular condition | FALSE | FALSE | 7.430 | 61.0 | 253.6 |
| ## 390 | Other respiratory condition | FALSE | TRUE | NA | 39.0 | NA |
| ## 104 | Other respiratory condition | FALSE | FALSE | NA | 74.0 | 99.0 |
| ## 218 | Cardiovascular condition | NA | FALSE | 7.310 | 70.8 | 77.0 |
| ## 211 | Other | FALSE | NA | 7.110 | 47.0 | 64.0 |
| ## 318 | Other respiratory infection | FALSE | TRUE | 7.370 | NA | 90.0 |
| ## 167 | Cardiovascular condition | FALSE | FALSE | 7.230 | 54.0 | NA |
| ## 52 | Other respiratory condition | NA | TRUE | 7.260 | NA | 54.0 |
| ## 119 | COVID-19 | NA | TRUE | NA | 75.0 | 77.0 |
| ## 76 | Other respiratory condition | FALSE | TRUE | 7.490 | NA | 351.0 |
| ## 115 | <NA> | NA | TRUE | NA | 42.0 | 63.0 |
| ## 394 | Other | FALSE | TRUE | 7.270 | 43.0 | 36.0 |
| ## 164 | Other respiratory condition | NA | FALSE | 7.420 | 60.0 | NA |
| ## 110 | <NA> | NA | FALSE | 7.460 | 60.0 | 74.8 |
| ## 81 | Cardiovascular condition | NA | TRUE | 7.370 | NA | NA |
| ## 413 | Cardiovascular condition | NA | NA | 7.210 | 35.3 | 394.4 |
| ## 370 | <NA> | FALSE | TRUE | 7.410 | 46.0 | 113.8 |
| ## 272 | Other respiratory infection | NA | TRUE | 7.300 | 53.0 | 124.0 |
| ## 182 | Cardiovascular condition | FALSE | TRUE | 7.480 | NA | NA |
| ## 31 | <NA> | NA | FALSE | 7.450 | 47.3 | NA |
| ## 17 | Other respiratory condition | NA | FALSE | 7.400 | 33.1 | 103.0 |
| ## 78 | <NA> | FALSE | TRUE | NA | 42.0 | 130.0 |
| ## 410 | Other | FALSE | TRUE | 7.110 | 58.8 | 253.7 |
| ## 161 | Other respiratory condition | FALSE | FALSE | NA | 86.0 | NA |
| ## 254 | Cardiovascular condition | NA | NA | 7.330 | 57.0 | 56.0 |
| ## 100 | Cardiovascular condition | NA | FALSE | 7.370 | 33.8 | 39.0 |
| ## 87 | Other respiratory condition | FALSE | TRUE | 7.140 | 56.0 | 58.0 |
| ## 155 | Cardiovascular condition | NA | NA | 7.420 | NA | NA |
| ## 60 | <NA> | FALSE | FALSE | 7.321 | 56.0 | NA |
| ## 63 | Other respiratory condition | NA | FALSE | 7.110 | 62.0 | 73.0 |
| ## 153 | Cardiovascular condition | NA | NA | 7.400 | 40.0 | 75.0 |
| ## 102 | Cardiovascular condition | FALSE | FALSE | NA | 56.3 | 88.0 |
| ## 359 | Other respiratory infection | FALSE | FALSE | 7.120 | NA | 121.0 |
| ## 307 | Cardiovascular condition | FALSE | FALSE | 7.370 | 115.0 | 83.0 |
| ## 126 | COVID-19 | FALSE | FALSE | NA | NA | 56.0 |
| ## 304 | COVID-19 | NA | FALSE | 7.260 | 77.0 | 222.0 |
| ## 186 | Other respiratory condition | NA | TRUE | NA | 81.0 | 376.0 |
| ## 66 | Cardiovascular condition | FALSE | NA | 7.280 | 51.0 | 59.0 |
| ## 296 | Cardiovascular condition | NA | TRUE | 7.090 | 77.0 | NA |
| ## 103 | COVID-19 | FALSE | NA | 6.780 | 43.0 | 116.0 |
| ## 163 | Other respiratory condition | FALSE | NA | 7.310 | 49.0 | 78.0 |
| ## 281 | Other respiratory condition | FALSE | FALSE | NA | 38.0 | NA |
| ## 212 | Other respiratory infection | NA | FALSE | 7.470 | 79.0 | 66.0 |
| ## 123 | Other respiratory condition | FALSE | FALSE | 7.240 | 75.0 | 64.0 |
| ## 422 | Cardiovascular condition | FALSE | NA | 7.370 | 72.0 | 146.0 |
| ## 172 | COVID-19 | NA | NA | NA | 61.0 | NA |
| ## 56 | Cardiovascular condition | FALSE | FALSE | 7.180 | 37.8 | 101.0 |
| ## 205 | Other respiratory condition | NA | FALSE | 7.220 | 33.1 | 59.8 |
| ## 351 | COVID-19 | FALSE | FALSE | 7.240 | 36.0 | 108.0 |
| ## 325 | COVID-19 | FALSE | FALSE | 7.130 | 49.0 | 53.0 |
| ## 150 | COVID-19 | NA | FALSE | 7.150 | 30.0 | 108.0 |
| ## 111 | Cardiovascular condition | NA | FALSE | 7.420 | 41.9 | 175.0 |

| | | | | | | |
|--------|-----------------------------|-------|-------|-------|-------|-------|
| ## 107 | COVID-19 | NA | FALSE | 7.110 | 71.9 | 68.9 |
| ## 194 | Other respiratory condition | NA | NA | 7.120 | 60.0 | 102.6 |
| ## 343 | Cardiovascular condition | NA | FALSE | NA | 68.0 | 81.0 |
| ## 301 | COVID-19 | FALSE | TRUE | 7.400 | 30.0 | 47.0 |
| ## 73 | COVID-19 | NA | FALSE | 7.150 | 48.0 | 128.0 |
| ## 141 | Cardiovascular condition | FALSE | FALSE | NA | 38.4 | 69.5 |
| ## 213 | Other respiratory condition | NA | TRUE | NA | 91.0 | 80.0 |
| ## 419 | Cardiovascular condition | NA | FALSE | 7.230 | 118.0 | 324.0 |
| ## 57 | Cardiovascular condition | TRUE | FALSE | 7.210 | NA | 253.6 |
| ## 237 | COVID-19 | FALSE | TRUE | 7.340 | 64.0 | 109.0 |
| ## 2 | COVID-19 | FALSE | FALSE | 7.410 | NA | 542.0 |
| ## 221 | Other | FALSE | NA | 7.520 | NA | NA |
| ## 180 | Other respiratory condition | NA | FALSE | 7.350 | 37.0 | 137.8 |
| ## 105 | Cardiovascular condition | NA | TRUE | 7.480 | 39.0 | 41.8 |
| ## 41 | COVID-19 | NA | FALSE | 7.210 | NA | NA |
| ## 403 | COVID-19 | FALSE | FALSE | NA | NA | 87.0 |
| ## 187 | Cardiovascular condition | NA | TRUE | 7.150 | 40.0 | 159.0 |
| ## 132 | COVID-19 | FALSE | NA | 7.110 | 64.0 | NA |
| ## 137 | COVID-19 | TRUE | NA | 7.310 | NA | 73.0 |
| ## 45 | Other respiratory condition | NA | NA | 7.200 | 38.0 | 25.0 |
| ## 369 | <NA> | NA | TRUE | 7.440 | 35.3 | 84.0 |
| ## 23 | Other respiratory condition | FALSE | TRUE | 7.240 | 44.0 | 69.2 |
| ## 320 | Other respiratory condition | TRUE | TRUE | 7.110 | 51.0 | 113.0 |
| ## 329 | COVID-19 | NA | FALSE | 7.110 | 34.9 | 54.0 |
| ## 171 | Other respiratory condition | NA | TRUE | 7.400 | 41.0 | 124.0 |
| ## 191 | COVID-19 | NA | FALSE | 7.200 | 50.7 | 27.0 |
| ## 283 | <NA> | FALSE | NA | 7.160 | 115.0 | 134.0 |
| ## 411 | COVID-19 | NA | FALSE | 6.920 | 49.0 | 124.0 |
| ## 294 | Cardiovascular condition | NA | FALSE | 7.300 | 35.7 | 207.0 |
| ## 267 | Other respiratory condition | FALSE | FALSE | 7.430 | NA | 24.0 |
| ## 317 | COVID-19 | FALSE | TRUE | 7.350 | NA | 86.0 |
| ## 392 | <NA> | NA | FALSE | 7.150 | 37.0 | 207.0 |
| ## 347 | COVID-19 | FALSE | NA | 7.260 | 63.0 | NA |
| ## 316 | Cardiovascular condition | TRUE | TRUE | NA | 45.0 | 90.0 |
| ## 258 | Cardiovascular condition | FALSE | FALSE | 7.250 | NA | 56.0 |
| ## 324 | Other | FALSE | FALSE | 7.170 | 48.0 | 232.0 |
| ## 12 | COVID-19 | FALSE | FALSE | NA | 59.0 | 49.0 |
| ## 290 | Cardiovascular condition | NA | FALSE | 7.020 | NA | 72.0 |
| ## 42 | Other | FALSE | TRUE | 7.110 | NA | 51.0 |
| ## 338 | COVID-19 | FALSE | NA | 7.460 | 20.8 | NA |
| ## 225 | Other respiratory condition | NA | NA | 7.270 | 37.0 | 266.0 |
| ## 269 | Cardiovascular condition | FALSE | FALSE | 7.040 | 70.0 | 266.0 |
| ## 198 | COVID-19 | FALSE | FALSE | 7.080 | NA | 283.0 |
| ## 35 | Other respiratory condition | TRUE | FALSE | 7.390 | 37.0 | 125.0 |
| ## 358 | <NA> | FALSE | TRUE | 7.200 | 81.0 | 69.2 |
| ## 275 | Other respiratory infection | FALSE | FALSE | 7.210 | 61.0 | 52.0 |
| ## 67 | COVID-19 | NA | FALSE | 7.220 | 44.9 | 253.7 |
| ## 401 | COVID-19 | FALSE | FALSE | 7.370 | 33.6 | 378.0 |
| ## 402 | Other | FALSE | TRUE | 7.350 | NA | NA |
| ## 5 | Cardiovascular condition | FALSE | TRUE | 7.440 | 62.0 | NA |
| ## 243 | Other | FALSE | FALSE | NA | 128.0 | NA |
| ## 255 | COVID-19 | FALSE | TRUE | 7.120 | 52.0 | 73.0 |
| ## 27 | Other respiratory condition | NA | FALSE | 7.330 | 40.0 | 282.0 |
| ## 231 | COVID-19 | NA | NA | 7.330 | 39.4 | 54.0 |

| | | | | | | |
|--------|--|-------|-------|-------|------|-----------------|
| ## 354 | <NA> | TRUE | NA | 7.320 | NA | NA |
| ## 130 | Cardiovascular condition | NA | FALSE | 7.370 | 75.0 | 282.0 |
| ## 399 | <NA> | NA | FALSE | 7.420 | 39.0 | 88.0 |
| ## 98 | Other respiratory condition | FALSE | TRUE | 7.270 | 63.4 | NA |
| ## 233 | COVID-19 | NA | FALSE | 7.500 | 46.7 | 62.0 |
| ## 146 | Other respiratory condition | NA | FALSE | 7.530 | 37.8 | 74.8 |
| ## 18 | Other respiratory condition | NA | NA | NA | 62.0 | 67.0 |
| ## 295 | Cardiovascular condition | TRUE | NA | 7.140 | 42.7 | 64.0 |
| ## 228 | COVID-19 | NA | FALSE | NA | 27.1 | 132.0 |
| ## 70 | Cardiovascular condition | NA | NA | NA | 57.0 | 119.0 |
| ## 26 | <NA> | NA | FALSE | 7.470 | NA | 76.1 |
| ## 350 | COVID-19 | FALSE | FALSE | 7.350 | NA | 56.0 |
| ## 382 | Other respiratory condition | FALSE | TRUE | 7.320 | 42.0 | 518.0 |
| ## 362 | Other respiratory condition | FALSE | FALSE | 7.220 | 62.0 | 523.0 |
| ## 232 | Other respiratory condition | NA | TRUE | 7.400 | 43.3 | 90.0 |
| ## 396 | COVID-19 | NA | TRUE | 7.390 | 22.0 | 91.1 |
| ## 219 | COVID-19 | FALSE | FALSE | 7.410 | 48.0 | 86.0 |
| ## 125 | COVID-19 | FALSE | TRUE | 7.520 | 59.0 | NA |
| ## 288 | COVID-19 | NA | FALSE | 7.290 | 57.0 | 62.0 |
| ## 32 | COVID-19 | FALSE | FALSE | NA | 63.0 | 61.0 |
| ## 334 | Cardiovascular condition | NA | FALSE | 7.330 | 77.0 | NA |
| ## 248 | COVID-19 | FALSE | FALSE | 7.390 | 77.0 | 83.0 |
| ## 147 | COVID-19 | FALSE | NA | NA | NA | 101.0 |
| ## | lactate_peak creatinine_peak total_bilirubin_peak mechanical_vent_days | | | | | |
| ## 357 | NA | NA | NA | | | <NA> |
| ## 292 | 11.6 | NA | NA | | | <NA> |
| ## 227 | NA | 2.31 | 0.4 | | | 12h - 24h |
| ## 40 | 1.9 | 1.90 | NA | | | 12h - 24h |
| ## 94 | 17.5 | NA | 1.7 | | | <= 12h |
| ## 96 | 4.4 | 4.09 | 0.9 | | | 12h - 24h |
| ## 414 | 8.9 | 6.02 | 3.0 | | | <NA> |
| ## 192 | 2.1 | NA | 4.7 | | | <NA> |
| ## 208 | 1.9 | 1.08 | 1.3 | | | <NA> |
| ## 33 | 1.5 | 0.17 | 8.9 | | | 12h - 24h |
| ## 118 | 4.3 | 0.71 | 5.6 | | | 2 days - 7 days |
| ## 188 | 1.6 | NA | 19.1 | | | 2 days - 7 days |
| ## 14 | 2.0 | 0.68 | 0.8 | | | 2 days - 7 days |
| ## 250 | NA | 0.71 | 6.1 | | | 12h - 24h |
| ## 22 | 0.5 | NA | NA | | | <= 12h |
| ## 366 | 7.7 | 0.90 | 1.3 | | | >= 7 days |
| ## 181 | 6.4 | NA | 12.6 | | | <NA> |
| ## 309 | NA | NA | 1.1 | | | <= 12h |
| ## 421 | 9.5 | 2.90 | 0.9 | | | <= 12h |
| ## 216 | 3.2 | NA | NA | | | <NA> |
| ## 199 | NA | 2.66 | NA | | | 12h - 24h |
| ## 360 | 6.9 | NA | NA | | | <= 12h |
| ## 65 | 12.4 | 0.40 | 4.7 | | | <NA> |
| ## 68 | 1.6 | 1.39 | 1.8 | | | <= 12h |
| ## 312 | NA | 2.01 | 1.0 | | | 2 days - 7 days |
| ## 101 | 1.5 | 1.11 | 1.2 | | | 12h - 24h |
| ## 285 | NA | NA | 8.1 | | | <= 12h |
| ## 91 | 3.9 | 0.60 | NA | | | 12h - 24h |
| ## 46 | 3.3 | 0.90 | 4.9 | | | <= 12h |
| ## 203 | 15.3 | 2.66 | 0.7 | | | <= 12h |

| | | | | |
|--------|------|------|------|-----------------|
| ## 424 | 1.6 | 0.95 | 0.8 | 2 days - 7 days |
| ## 99 | NA | 1.98 | 1.1 | 12h - 24h |
| ## 310 | 11.6 | 3.48 | 5.7 | <NA> |
| ## 412 | 1.2 | 2.87 | 0.8 | 12h - 24h |
| ## 143 | 3.9 | NA | 3.1 | <= 12h |
| ## 311 | 2.2 | NA | 2.7 | <NA> |
| ## 175 | 1.6 | NA | 2.0 | <NA> |
| ## 379 | 17.5 | 1.00 | NA | <= 12h |
| ## 170 | NA | NA | 4.0 | 2 days - 7 days |
| ## 377 | NA | 3.91 | 2.1 | 12h - 24h |
| ## 342 | 3.1 | 1.46 | 1.3 | <NA> |
| ## 159 | 2.0 | 1.27 | 1.7 | <= 12h |
| ## 335 | 14.9 | 1.66 | NA | 12h - 24h |
| ## 265 | 0.8 | 0.63 | 1.4 | <NA> |
| ## 349 | 2.6 | NA | 1.4 | 2 days - 7 days |
| ## 291 | 2.7 | NA | 1.0 | <NA> |
| ## 415 | 15.4 | NA | NA | <= 12h |
| ## 7 | NA | 3.34 | 1.0 | 2 days - 7 days |
| ## 217 | 2.8 | NA | NA | <NA> |
| ## 197 | 1.9 | NA | NA | <NA> |
| ## 121 | 9.5 | 1.56 | 3.6 | <NA> |
| ## 241 | 3.6 | NA | 6.1 | <NA> |
| ## 240 | 10.2 | NA | 1.8 | 2 days - 7 days |
| ## 322 | 9.6 | 1.80 | NA | <NA> |
| ## 109 | 4.8 | 1.35 | 0.7 | 12h - 24h |
| ## 116 | 2.5 | 0.97 | NA | <= 12h |
| ## 214 | 6.4 | NA | 3.4 | <= 12h |
| ## 313 | 15.3 | 1.67 | 8.1 | 12h - 24h |
| ## 190 | 6.8 | 0.47 | 3.4 | 12h - 24h |
| ## 371 | 9.6 | 0.71 | NA | 2 days - 7 days |
| ## 337 | 9.0 | 1.80 | 27.3 | <NA> |
| ## 29 | 2.6 | 1.90 | 1.5 | <NA> |
| ## 37 | 13.5 | 2.70 | 1.4 | 12h - 24h |
| ## 346 | 4.5 | 0.79 | 6.7 | <NA> |
| ## 339 | 6.2 | 1.18 | NA | 12h - 24h |
| ## 229 | 3.6 | 2.70 | 1.6 | <NA> |
| ## 395 | 2.1 | 1.56 | 1.3 | 12h - 24h |
| ## 16 | 1.3 | NA | 0.4 | <= 12h |
| ## 114 | 2.0 | NA | 0.8 | <= 12h |
| ## 58 | 9.0 | NA | 1.0 | <= 12h |
| ## 135 | 9.4 | 5.12 | NA | <NA> |
| ## 196 | NA | 1.84 | 3.1 | 12h - 24h |
| ## 30 | 6.8 | 0.40 | NA | <= 12h |
| ## 50 | 9.7 | 0.74 | 0.9 | <NA> |
| ## 356 | 7.3 | 1.72 | 7.6 | <NA> |
| ## 193 | 3.0 | 1.19 | 0.8 | <= 12h |
| ## 134 | NA | 3.00 | 2.2 | <= 12h |
| ## 173 | 2.0 | NA | NA | <= 12h |
| ## 112 | 1.5 | 2.97 | NA | <= 12h |
| ## 48 | 8.5 | 2.91 | 5.4 | 12h - 24h |
| ## 289 | 2.7 | 0.88 | NA | 12h - 24h |
| ## 51 | 2.0 | 0.17 | 2.2 | 12h - 24h |
| ## 215 | 2.4 | 2.87 | 4.7 | <= 12h |
| ## 270 | 3.9 | 3.05 | NA | <NA> |

| | | | | |
|--------|------|------|------|-----------------|
| ## 374 | 3.5 | 6.09 | 0.9 | <= 12h |
| ## 244 | 3.5 | 2.15 | 2.2 | 12h - 24h |
| ## 387 | 17.5 | NA | 1.6 | 12h - 24h |
| ## 222 | 3.0 | NA | 1.7 | 2 days - 7 days |
| ## 90 | NA | 4.00 | 1.3 | 12h - 24h |
| ## 406 | 3.8 | NA | 2.0 | >= 7 days |
| ## 420 | 2.3 | 1.71 | 0.7 | <= 12h |
| ## 368 | 15.0 | NA | 1.1 | 2 days - 7 days |
| ## 179 | 3.8 | NA | NA | <NA> |
| ## 280 | 3.2 | 2.01 | 5.3 | 2 days - 7 days |
| ## 284 | 17.5 | 1.07 | 13.5 | <NA> |
| ## 373 | 2.1 | 1.39 | 2.0 | 12h - 24h |
| ## 306 | 2.1 | 2.00 | NA | <NA> |
| ## 183 | 2.9 | 0.69 | NA | 2 days - 7 days |
| ## 62 | 11.0 | 1.04 | 1.8 | >= 7 days |
| ## 131 | 3.5 | 0.64 | 1.2 | 12h - 24h |
| ## 224 | 9.4 | NA | NA | 12h - 24h |
| ## 4 | 2.9 | 0.57 | 0.9 | 2 days - 7 days |
| ## 39 | NA | 0.81 | NA | <NA> |
| ## 327 | 9.4 | 2.64 | NA | 2 days - 7 days |
| ## 138 | NA | 2.42 | NA | 12h - 24h |
| ## 15 | NA | 1.67 | NA | 12h - 24h |
| ## 279 | 2.1 | NA | NA | >= 7 days |
| ## 341 | 5.4 | 2.96 | 1.7 | 2 days - 7 days |
| ## 266 | 1.9 | NA | 5.7 | 12h - 24h |
| ## 273 | 1.9 | NA | NA | 12h - 24h |
| ## 24 | 13.3 | 2.80 | 3.5 | 12h - 24h |
| ## 405 | NA | 0.90 | 0.3 | 12h - 24h |
| ## 113 | NA | 3.00 | NA | 12h - 24h |
| ## 6 | 2.3 | 2.08 | 0.5 | 12h - 24h |
| ## 88 | 2.1 | NA | 0.2 | <NA> |
| ## 71 | 12.0 | NA | NA | <= 12h |
| ## 298 | 7.8 | 0.81 | NA | <NA> |
| ## 340 | 6.9 | 2.50 | 5.9 | <NA> |
| ## 19 | 2.5 | 1.10 | 1.8 | <NA> |
| ## 127 | 2.0 | 1.33 | NA | <= 12h |
| ## 367 | 2.5 | 5.52 | 2.0 | <= 12h |
| ## 20 | 7.3 | 0.64 | 4.4 | 12h - 24h |
| ## 120 | NA | 3.07 | 2.2 | <NA> |
| ## 331 | NA | 2.50 | 3.7 | <= 12h |
| ## 303 | 17.5 | NA | 1.3 | <= 12h |
| ## 140 | 3.9 | 3.41 | NA | 12h - 24h |
| ## 80 | 7.7 | 0.86 | NA | <= 12h |
| ## 238 | 2.9 | NA | 0.4 | <NA> |
| ## 253 | 4.8 | NA | NA | <= 12h |
| ## 133 | 2.3 | 0.95 | 26.1 | <= 12h |
| ## 388 | 7.7 | 1.26 | NA | 12h - 24h |
| ## 38 | 3.3 | NA | NA | 12h - 24h |
| ## 274 | 3.5 | NA | 1.6 | <NA> |
| ## 321 | 3.4 | NA | NA | <= 12h |
| ## 154 | 6.1 | 1.53 | 2.4 | <NA> |
| ## 79 | 2.7 | NA | 1.4 | 12h - 24h |
| ## 390 | 5.2 | 1.38 | 1.5 | 12h - 24h |
| ## 104 | 1.3 | 2.10 | NA | 2 days - 7 days |

| | | | | |
|--------|------|------|------|-----------------|
| ## 218 | NA | NA | 5.7 | <= 12h |
| ## 211 | NA | NA | 4.2 | <= 12h |
| ## 318 | 1.8 | 0.82 | 6.8 | <= 12h |
| ## 167 | 17.5 | 2.30 | 2.8 | 12h - 24h |
| ## 52 | 17.5 | NA | 3.0 | 2 days - 7 days |
| ## 119 | NA | 1.14 | NA | <NA> |
| ## 76 | 1.7 | 0.87 | NA | <NA> |
| ## 115 | 1.7 | 3.85 | NA | <= 12h |
| ## 394 | 10.2 | NA | NA | 12h - 24h |
| ## 164 | 2.3 | 2.88 | 0.8 | 12h - 24h |
| ## 110 | 11.6 | 1.26 | 2.9 | 12h - 24h |
| ## 81 | 8.1 | NA | 26.1 | 12h - 24h |
| ## 413 | 2.4 | NA | NA | <NA> |
| ## 370 | 7.8 | 1.52 | 0.7 | <NA> |
| ## 272 | 8.4 | NA | NA | <NA> |
| ## 182 | 2.7 | NA | 0.5 | <= 12h |
| ## 31 | NA | 2.97 | NA | 2 days - 7 days |
| ## 17 | 2.4 | NA | NA | <= 12h |
| ## 78 | 2.7 | NA | NA | <= 12h |
| ## 410 | 11.6 | NA | 1.3 | 2 days - 7 days |
| ## 161 | 2.0 | 1.35 | NA | 2 days - 7 days |
| ## 254 | NA | 1.57 | 0.3 | <= 12h |
| ## 100 | 2.6 | 1.86 | 1.0 | <= 12h |
| ## 87 | 1.7 | 0.73 | 3.6 | 2 days - 7 days |
| ## 155 | 3.4 | NA | 8.5 | <= 12h |
| ## 60 | 11.7 | NA | 2.3 | 12h - 24h |
| ## 63 | 2.2 | 0.81 | 2.0 | <NA> |
| ## 153 | 16.7 | NA | 2.0 | <NA> |
| ## 102 | NA | NA | 1.4 | <NA> |
| ## 359 | 3.2 | NA | 1.7 | <NA> |
| ## 307 | 1.7 | NA | 0.8 | 12h - 24h |
| ## 126 | 2.0 | NA | NA | >= 7 days |
| ## 304 | 2.1 | 2.31 | 1.1 | <NA> |
| ## 186 | 7.6 | 1.10 | NA | 12h - 24h |
| ## 66 | 5.0 | 0.82 | 5.4 | <= 12h |
| ## 296 | 4.7 | 2.71 | NA | <NA> |
| ## 103 | 0.9 | NA | 2.9 | <NA> |
| ## 163 | 4.3 | NA | 0.5 | <= 12h |
| ## 281 | 9.6 | NA | 0.9 | 12h - 24h |
| ## 212 | NA | NA | NA | <NA> |
| ## 123 | 1.4 | 2.23 | 0.5 | 12h - 24h |
| ## 422 | 5.2 | NA | 2.4 | <NA> |
| ## 172 | NA | 0.87 | NA | <= 12h |
| ## 56 | 4.5 | 3.30 | 1.2 | 12h - 24h |
| ## 205 | 1.3 | 1.52 | 2.5 | <= 12h |
| ## 351 | 5.2 | 2.50 | 2.1 | 12h - 24h |
| ## 325 | 8.4 | 1.66 | 5.6 | 2 days - 7 days |
| ## 150 | 3.0 | NA | NA | 2 days - 7 days |
| ## 111 | 11.4 | 0.90 | 12.1 | 12h - 24h |
| ## 107 | NA | NA | 1.9 | 12h - 24h |
| ## 194 | 2.4 | 5.10 | 1.8 | <= 12h |
| ## 343 | 2.0 | 2.62 | 3.8 | <NA> |
| ## 301 | 1.3 | 0.83 | 2.2 | 2 days - 7 days |
| ## 73 | 1.6 | 6.09 | NA | <= 12h |

| | | | | |
|--------|------|------|-----|-----------------|
| ## 141 | 1.2 | 0.95 | 1.0 | <NA> |
| ## 213 | 3.8 | 0.62 | 4.9 | 12h - 24h |
| ## 419 | 3.5 | NA | 4.3 | <= 12h |
| ## 57 | 8.7 | NA | NA | 2 days - 7 days |
| ## 237 | NA | 1.35 | NA | <NA> |
| ## 2 | NA | 1.67 | NA | <NA> |
| ## 221 | 12.0 | NA | 0.7 | <= 12h |
| ## 180 | 4.7 | 1.15 | 2.5 | <NA> |
| ## 105 | 4.0 | 1.90 | 6.7 | <= 12h |
| ## 41 | 2.4 | 1.80 | NA | 2 days - 7 days |
| ## 403 | 4.8 | 1.38 | 2.0 | <= 12h |
| ## 187 | 2.1 | 5.13 | 4.6 | <NA> |
| ## 132 | 2.9 | 1.15 | 0.4 | 2 days - 7 days |
| ## 137 | 2.1 | 2.70 | 1.2 | >= 7 days |
| ## 45 | 3.5 | 1.69 | NA | 12h - 24h |
| ## 369 | 1.7 | 3.30 | 1.3 | <= 12h |
| ## 23 | 2.6 | NA | 3.4 | <= 12h |
| ## 320 | 8.1 | NA | 2.0 | 12h - 24h |
| ## 329 | 2.1 | 0.90 | NA | <= 12h |
| ## 171 | 0.8 | 1.72 | 0.7 | <= 12h |
| ## 191 | 3.3 | NA | 1.3 | 12h - 24h |
| ## 283 | 8.4 | 1.52 | 3.2 | <NA> |
| ## 411 | 7.9 | NA | 2.1 | <= 12h |
| ## 294 | 11.8 | 0.81 | 2.2 | 12h - 24h |
| ## 267 | NA | 1.73 | 0.9 | 12h - 24h |
| ## 317 | 2.3 | 1.82 | 5.7 | 12h - 24h |
| ## 392 | 3.4 | NA | 0.5 | <NA> |
| ## 347 | 3.9 | 1.73 | NA | <= 12h |
| ## 316 | 3.3 | NA | 0.4 | 12h - 24h |
| ## 258 | 4.3 | 2.42 | NA | <= 12h |
| ## 324 | NA | NA | 4.7 | <= 12h |
| ## 12 | 3.7 | NA | 4.4 | <NA> |
| ## 290 | 6.1 | 2.50 | NA | <NA> |
| ## 42 | 2.4 | 6.09 | 2.5 | 12h - 24h |
| ## 338 | 3.0 | 1.32 | 8.5 | 12h - 24h |
| ## 225 | 5.0 | 3.48 | 1.5 | <= 12h |
| ## 269 | NA | NA | NA | >= 7 days |
| ## 198 | 3.5 | 2.65 | 1.1 | <= 12h |
| ## 35 | 9.0 | NA | 0.7 | 12h - 24h |
| ## 358 | 2.8 | NA | 3.4 | >= 7 days |
| ## 275 | 10.9 | 1.67 | NA | <= 12h |
| ## 67 | 3.0 | 4.17 | 6.8 | <= 12h |
| ## 401 | 1.7 | 0.69 | 0.7 | <= 12h |
| ## 402 | 7.3 | 1.85 | 1.7 | <= 12h |
| ## 5 | 2.3 | 1.04 | 8.9 | <NA> |
| ## 243 | 2.6 | 1.08 | 2.4 | 12h - 24h |
| ## 255 | 12.9 | NA | NA | 2 days - 7 days |
| ## 27 | 13.1 | 0.64 | 0.4 | <= 12h |
| ## 231 | 9.0 | NA | NA | <= 12h |
| ## 354 | 4.2 | 0.63 | 0.4 | <NA> |
| ## 130 | 1.3 | 2.46 | 7.9 | <NA> |
| ## 399 | 17.5 | 1.67 | NA | <NA> |
| ## 98 | 1.2 | 1.57 | 1.6 | <NA> |
| ## 233 | NA | 0.86 | 4.8 | <= 12h |

| | | | | |
|--------|--|-------------------------|-------|-----------------|
| ## 146 | 8.1 | 2.13 | 1.1 | <NA> |
| ## 18 | 9.5 | 0.57 | NA | 12h - 24h |
| ## 295 | 1.6 | 1.00 | 1.2 | <= 12h |
| ## 228 | 15.4 | 2.64 | NA | 12h - 24h |
| ## 70 | 3.0 | NA | 1.7 | <NA> |
| ## 26 | 7.9 | 0.90 | 1.8 | <= 12h |
| ## 350 | 2.7 | 3.75 | NA | <NA> |
| ## 382 | 2.3 | 1.20 | 11.7 | 12h - 24h |
| ## 362 | 1.6 | NA | 0.4 | <= 12h |
| ## 232 | 2.5 | 0.51 | 0.7 | <NA> |
| ## 396 | 17.5 | 1.67 | NA | <NA> |
| ## 219 | 4.6 | 0.81 | NA | <= 12h |
| ## 125 | 2.5 | 1.00 | NA | <= 12h |
| ## 288 | NA | 1.60 | 6.7 | 2 days - 7 days |
| ## 32 | 4.8 | 2.62 | 3.4 | <NA> |
| ## 334 | 6.2 | 0.79 | NA | 12h - 24h |
| ## 248 | 5.1 | 1.02 | 1.1 | 12h - 24h |
| ## 147 | 1.8 | NA | 5.6 | <NA> |
| ## | systemic_anticoagulation_type acute_kidney_injury hospital_los | | | |
| ## 357 | | <NA> | NA | NA |
| ## 292 | | Heparin only | NA | 88.0 |
| ## 227 | | No anticoagulant | FALSE | 27.0 |
| ## 40 | | No anticoagulant | FALSE | 7.0 |
| ## 94 | | Heparin only | FALSE | 67.0 |
| ## 96 | | Bivalirudin only | TRUE | 33.0 |
| ## 414 | | Bivalirudin only | FALSE | 29.0 |
| ## 192 | | <NA> | TRUE | 2.0 |
| ## 208 | | Heparin only | TRUE | 34.0 |
| ## 33 | | Heparin and bivalirudin | FALSE | 10.0 |
| ## 118 | | Bivalirudin only | FALSE | NA |
| ## 188 | | Heparin only | TRUE | NA |
| ## 14 | | Bivalirudin only | TRUE | 43.0 |
| ## 250 | | Bivalirudin only | FALSE | 108.0 |
| ## 22 | | Heparin only | TRUE | 26.0 |
| ## 366 | | <NA> | TRUE | 39.0 |
| ## 181 | | Bivalirudin only | FALSE | 21.0 |
| ## 309 | | Bivalirudin only | TRUE | 153.0 |
| ## 421 | | Heparin and bivalirudin | TRUE | 13.0 |
| ## 216 | | Heparin only | NA | 61.0 |
| ## 199 | | Heparin only | FALSE | 52.0 |
| ## 360 | | Heparin only | FALSE | 10.0 |
| ## 65 | | No anticoagulant | FALSE | 23.0 |
| ## 68 | | Heparin only | NA | 6.0 |
| ## 312 | | Heparin only | TRUE | 38.0 |
| ## 101 | | Heparin only | TRUE | 68.0 |
| ## 285 | | Bivalirudin only | TRUE | 10.0 |
| ## 91 | | No anticoagulant | NA | 38.0 |
| ## 46 | | Bivalirudin only | NA | 8.0 |
| ## 203 | | Bivalirudin only | FALSE | 2.0 |
| ## 424 | | Heparin only | FALSE | 53.0 |
| ## 99 | | No anticoagulant | FALSE | 159.0 |
| ## 310 | | <NA> | FALSE | 22.0 |
| ## 412 | | Heparin only | TRUE | 45.0 |
| ## 143 | | Bivalirudin only | NA | 28.0 |

| | | | |
|--------|-------------------------|-------|-------|
| ## 311 | No anticoagulant | FALSE | 26.0 |
| ## 175 | Heparin only | TRUE | 6.0 |
| ## 379 | Heparin only | TRUE | 60.0 |
| ## 170 | Heparin only | FALSE | 91.0 |
| ## 377 | Heparin only | FALSE | 13.0 |
| ## 342 | Bivalirudin only | TRUE | 35.0 |
| ## 159 | No anticoagulant | FALSE | 28.0 |
| ## 335 | Heparin only | FALSE | 48.0 |
| ## 265 | <NA> | TRUE | 36.0 |
| ## 349 | Heparin only | FALSE | NA |
| ## 291 | No anticoagulant | TRUE | 17.0 |
| ## 415 | Heparin only | TRUE | 26.0 |
| ## 7 | Heparin only | FALSE | 34.0 |
| ## 217 | <NA> | FALSE | 36.8 |
| ## 197 | <NA> | TRUE | NA |
| ## 121 | <NA> | FALSE | 27.0 |
| ## 241 | Heparin only | FALSE | 103.0 |
| ## 240 | Heparin only | TRUE | NA |
| ## 322 | Heparin only | FALSE | 1.0 |
| ## 109 | <NA> | FALSE | NA |
| ## 116 | <NA> | NA | 19.0 |
| ## 214 | Heparin only | NA | 29.0 |
| ## 313 | Bivalirudin only | NA | 26.0 |
| ## 190 | Bivalirudin only | FALSE | 28.0 |
| ## 371 | No anticoagulant | TRUE | 32.0 |
| ## 337 | Bivalirudin only | FALSE | 2.0 |
| ## 29 | Heparin only | FALSE | 29.0 |
| ## 37 | Heparin and bivalirudin | FALSE | 13.0 |
| ## 346 | Bivalirudin only | TRUE | 49.0 |
| ## 339 | Heparin and bivalirudin | TRUE | 1.0 |
| ## 229 | Heparin only | FALSE | 94.0 |
| ## 395 | Bivalirudin only | NA | 12.0 |
| ## 16 | Heparin only | FALSE | 8.0 |
| ## 114 | Heparin only | FALSE | 45.0 |
| ## 58 | Heparin only | TRUE | 54.0 |
| ## 135 | Heparin only | TRUE | 8.0 |
| ## 196 | Heparin only | FALSE | 15.0 |
| ## 30 | Heparin only | FALSE | 26.0 |
| ## 50 | Heparin only | FALSE | 101.0 |
| ## 356 | Heparin only | FALSE | NA |
| ## 193 | Heparin and bivalirudin | TRUE | 42.0 |
| ## 134 | No anticoagulant | FALSE | 20.0 |
| ## 173 | No anticoagulant | FALSE | 15.0 |
| ## 112 | Heparin only | FALSE | 17.0 |
| ## 48 | Bivalirudin only | FALSE | 36.8 |
| ## 289 | No anticoagulant | NA | 25.0 |
| ## 51 | Heparin and bivalirudin | TRUE | 75.0 |
| ## 215 | <NA> | TRUE | 67.0 |
| ## 270 | Heparin only | TRUE | 12.0 |
| ## 374 | Bivalirudin only | NA | NA |
| ## 244 | Heparin only | TRUE | 101.0 |
| ## 387 | Heparin only | FALSE | 14.0 |
| ## 222 | Heparin only | TRUE | 13.0 |
| ## 90 | Heparin only | FALSE | 5.0 |

| | | | |
|--------|--|-------|-------|
| ## 406 | Heparin only | TRUE | 1.5 |
| ## 420 | <NA> | NA | NA |
| ## 368 | No anticoagulant | NA | 2.0 |
| ## 179 | Heparin only | TRUE | 16.0 |
| ## 280 | Bivalirudin only | TRUE | NA |
| ## 284 | Heparin only | TRUE | NA |
| ## 373 | Heparin only | FALSE | 1.5 |
| ## 306 | Heparin only | TRUE | 46.0 |
| ## 183 | Heparin only | FALSE | NA |
| ## 62 | Heparin only | TRUE | 22.0 |
| ## 131 | Heparin only | TRUE | 20.0 |
| ## 224 | Heparin only | FALSE | 18.0 |
| ## 4 | Heparin and bivalirudin | TRUE | 49.0 |
| ## 39 | Heparin and bivalirudin | NA | 6.0 |
| ## 327 | Bivalirudin only | TRUE | NA |
| ## 138 | Bivalirudin only | TRUE | 29.0 |
| ## 15 | Heparin only | FALSE | 61.0 |
| ## 279 | Heparin only | TRUE | NA |
| ## 341 | No anticoagulant | FALSE | 12.0 |
| ## 266 | Heparin and anticoagulant sodium citrate | FALSE | 75.0 |
| ## 273 | Heparin only | FALSE | NA |
| ## 24 | Heparin only | TRUE | 34.0 |
| ## 405 | Bivalirudin only | TRUE | 10.0 |
| ## 113 | Bivalirudin only | NA | 8.0 |
| ## 6 | No anticoagulant | TRUE | 29.0 |
| ## 88 | Heparin only | FALSE | NA |
| ## 71 | Heparin only | NA | 13.0 |
| ## 298 | Heparin only | FALSE | 14.0 |
| ## 340 | Heparin only | FALSE | 20.0 |
| ## 19 | <NA> | TRUE | NA |
| ## 127 | <NA> | FALSE | 4.0 |
| ## 367 | Heparin only | TRUE | NA |
| ## 20 | <NA> | FALSE | 12.0 |
| ## 120 | Heparin only | FALSE | 24.0 |
| ## 331 | Bivalirudin only | FALSE | 26.0 |
| ## 303 | <NA> | NA | 23.0 |
| ## 140 | Bivalirudin only | FALSE | NA |
| ## 80 | Heparin and bivalirudin | NA | NA |
| ## 238 | <NA> | FALSE | 46.0 |
| ## 253 | No anticoagulant | TRUE | NA |
| ## 133 | Heparin only | TRUE | 70.0 |
| ## 388 | Heparin only | FALSE | 181.0 |
| ## 38 | Heparin only | FALSE | 32.0 |
| ## 274 | <NA> | TRUE | 11.0 |
| ## 321 | Heparin only | FALSE | 42.0 |
| ## 154 | Heparin only | TRUE | 8.0 |
| ## 79 | Heparin only | FALSE | 6.0 |
| ## 390 | <NA> | TRUE | 42.0 |
| ## 104 | Heparin only | NA | 67.0 |
| ## 218 | Heparin only | FALSE | 61.0 |
| ## 211 | Heparin only | FALSE | 1.0 |
| ## 318 | Heparin only | FALSE | 21.0 |
| ## 167 | Heparin only | TRUE | 16.0 |
| ## 52 | <NA> | FALSE | 12.0 |

| | | | |
|--------|-------------------------|-------|-------|
| ## 119 | Bivalirudin only | TRUE | 38.0 |
| ## 76 | Heparin only | TRUE | 15.0 |
| ## 115 | Bivalirudin only | TRUE | 32.0 |
| ## 394 | Heparin only | FALSE | 13.0 |
| ## 164 | Bivalirudin only | TRUE | 37.0 |
| ## 110 | Bivalirudin only | TRUE | 10.0 |
| ## 81 | Heparin only | TRUE | 57.0 |
| ## 413 | <NA> | FALSE | 38.0 |
| ## 370 | Bivalirudin only | NA | 38.0 |
| ## 272 | Bivalirudin only | FALSE | 36.0 |
| ## 182 | Heparin only | FALSE | 23.0 |
| ## 31 | No anticoagulant | FALSE | 20.0 |
| ## 17 | Heparin only | TRUE | 29.0 |
| ## 78 | Bivalirudin only | FALSE | NA |
| ## 410 | Heparin only | TRUE | 9.0 |
| ## 161 | Heparin only | TRUE | 16.0 |
| ## 254 | Bivalirudin only | TRUE | 32.0 |
| ## 100 | No anticoagulant | TRUE | 22.0 |
| ## 87 | Bivalirudin only | FALSE | 23.0 |
| ## 155 | <NA> | TRUE | 15.0 |
| ## 60 | Heparin and bivalirudin | TRUE | 8.0 |
| ## 63 | Heparin only | FALSE | 58.0 |
| ## 153 | Bivalirudin only | FALSE | 19.0 |
| ## 102 | Heparin only | FALSE | 103.0 |
| ## 359 | <NA> | TRUE | 7.0 |
| ## 307 | No anticoagulant | TRUE | NA |
| ## 126 | Bivalirudin only | NA | 27.0 |
| ## 304 | Bivalirudin only | TRUE | 12.0 |
| ## 186 | Heparin only | NA | 16.0 |
| ## 66 | <NA> | FALSE | 51.0 |
| ## 296 | Heparin only | TRUE | 10.0 |
| ## 103 | Bivalirudin only | TRUE | 12.0 |
| ## 163 | Bivalirudin only | FALSE | 3.0 |
| ## 281 | Heparin only | FALSE | 1.0 |
| ## 212 | Bivalirudin only | TRUE | 58.0 |
| ## 123 | No anticoagulant | TRUE | 38.0 |
| ## 422 | No anticoagulant | FALSE | 8.0 |
| ## 172 | Heparin and bivalirudin | FALSE | 43.0 |
| ## 56 | No anticoagulant | TRUE | NA |
| ## 205 | Heparin only | TRUE | NA |
| ## 351 | <NA> | FALSE | 18.0 |
| ## 325 | Heparin only | FALSE | 57.0 |
| ## 150 | <NA> | FALSE | 10.0 |
| ## 111 | Heparin only | FALSE | 1.0 |
| ## 107 | Bivalirudin only | NA | 70.0 |
| ## 194 | Heparin only | FALSE | NA |
| ## 343 | Heparin only | FALSE | 6.0 |
| ## 301 | Heparin only | TRUE | 17.0 |
| ## 73 | Bivalirudin only | TRUE | 22.0 |
| ## 141 | <NA> | FALSE | 12.0 |
| ## 213 | Heparin only | TRUE | NA |
| ## 419 | Heparin only | TRUE | 53.0 |
| ## 57 | Heparin only | FALSE | NA |
| ## 237 | Heparin and bivalirudin | FALSE | 70.0 |

| | | | |
|--------|------------------|-------|-------|
| ## 2 | Heparin only | FALSE | 15.0 |
| ## 221 | Heparin only | FALSE | 9.0 |
| ## 180 | <NA> | TRUE | 15.0 |
| ## 105 | <NA> | FALSE | 7.0 |
| ## 41 | Bivalirudin only | NA | 38.0 |
| ## 403 | Heparin only | TRUE | 1.0 |
| ## 187 | Heparin only | FALSE | 16.0 |
| ## 132 | Bivalirudin only | FALSE | NA |
| ## 137 | <NA> | NA | NA |
| ## 45 | Bivalirudin only | NA | 13.0 |
| ## 369 | Heparin only | FALSE | 173.0 |
| ## 23 | Heparin only | TRUE | 88.0 |
| ## 320 | Heparin only | NA | 10.0 |
| ## 329 | Bivalirudin only | NA | 12.0 |
| ## 171 | Heparin only | NA | 13.0 |
| ## 191 | <NA> | FALSE | 57.0 |
| ## 283 | Bivalirudin only | FALSE | 6.0 |
| ## 411 | Bivalirudin only | NA | 38.0 |
| ## 294 | <NA> | FALSE | 106.8 |
| ## 267 | Bivalirudin only | FALSE | 14.0 |
| ## 317 | Bivalirudin only | FALSE | 18.0 |
| ## 392 | Bivalirudin only | FALSE | NA |
| ## 347 | Heparin only | NA | 1.0 |
| ## 316 | Heparin only | TRUE | 12.0 |
| ## 258 | <NA> | TRUE | NA |
| ## 324 | <NA> | TRUE | 153.0 |
| ## 12 | Bivalirudin only | NA | NA |
| ## 290 | Heparin only | FALSE | 12.0 |
| ## 42 | No anticoagulant | TRUE | 8.0 |
| ## 338 | Heparin only | TRUE | 19.0 |
| ## 225 | Heparin only | NA | 42.0 |
| ## 269 | Bivalirudin only | FALSE | 27.0 |
| ## 198 | Bivalirudin only | TRUE | 28.0 |
| ## 35 | Bivalirudin only | TRUE | 2.0 |
| ## 358 | <NA> | NA | 16.0 |
| ## 275 | Bivalirudin only | TRUE | 23.0 |
| ## 67 | Heparin only | TRUE | 15.0 |
| ## 401 | No anticoagulant | FALSE | 16.0 |
| ## 402 | Heparin only | TRUE | 22.0 |
| ## 5 | Heparin only | FALSE | 1.0 |
| ## 243 | Heparin only | FALSE | 42.0 |
| ## 255 | Heparin only | TRUE | NA |
| ## 27 | Bivalirudin only | TRUE | 36.8 |
| ## 231 | Heparin only | NA | 21.0 |
| ## 354 | Heparin only | FALSE | 29.0 |
| ## 130 | Heparin only | FALSE | 24.0 |
| ## 399 | <NA> | NA | 8.0 |
| ## 98 | Bivalirudin only | TRUE | NA |
| ## 233 | <NA> | TRUE | 7.0 |
| ## 146 | Heparin only | TRUE | 6.0 |
| ## 18 | Bivalirudin only | TRUE | 70.0 |
| ## 295 | Heparin only | FALSE | NA |
| ## 228 | Heparin only | TRUE | 11.0 |
| ## 70 | Heparin only | FALSE | NA |

| | | | | |
|--------|--------------------|----------|-------|-------|
| ## 26 | | <NA> | TRUE | 9.0 |
| ## 350 | Bivalirudin only | | TRUE | 41.0 |
| ## 382 | Heparin only | | TRUE | 26.0 |
| ## 362 | Heparin only | | TRUE | 43.0 |
| ## 232 | Heparin only | | NA | 10.0 |
| ## 396 | Heparin only | | FALSE | 6.0 |
| ## 219 | Heparin only | | FALSE | 2.0 |
| ## 125 | Heparin only | | NA | 43.0 |
| ## 288 | Heparin only | | NA | NA |
| ## 32 | | <NA> | FALSE | 67.0 |
| ## 334 | Heparin only | | TRUE | 58.0 |
| ## 248 | Bivalirudin only | | TRUE | 53.0 |
| ## 147 | Heparin only | | FALSE | 101.0 |
| ## | discharge_location | steroids | | |
| ## 357 | | <NA> | <NA> | |
| ## 292 | Death | Unk | | |
| ## 227 | LTAC/rehab | Yes | | |
| ## 40 | | <NA> | No | |
| ## 94 | Death | <NA> | | |
| ## 96 | Death | <NA> | | |
| ## 414 | Home | <NA> | | |
| ## 192 | Death | <NA> | | |
| ## 208 | | <NA> | <NA> | |
| ## 33 | LTAC/rehab | <NA> | | |
| ## 118 | | <NA> | <NA> | |
| ## 188 | | <NA> | <NA> | |
| ## 14 | LTAC/rehab | Yes | | |
| ## 250 | | <NA> | No | |
| ## 22 | Home | Yes | | |
| ## 366 | LTAC/rehab | Yes | | |
| ## 181 | | <NA> | Yes | |
| ## 309 | | <NA> | <NA> | |
| ## 421 | | <NA> | <NA> | |
| ## 216 | | <NA> | Yes | |
| ## 199 | Death | <NA> | | |
| ## 360 | | <NA> | Yes | |
| ## 65 | Death | <NA> | | |
| ## 68 | Home | <NA> | | |
| ## 312 | Home | <NA> | | |
| ## 101 | LTAC/rehab | Yes | | |
| ## 285 | | <NA> | <NA> | |
| ## 91 | Death | <NA> | | |
| ## 46 | | <NA> | Yes | |
| ## 203 | Death | No | | |
| ## 424 | Home | <NA> | | |
| ## 99 | Home | <NA> | | |
| ## 310 | Death | <NA> | | |
| ## 412 | Home | No | | |
| ## 143 | LTAC/rehab | <NA> | | |
| ## 311 | Death | No | | |
| ## 175 | Home | Yes | | |
| ## 379 | Death | <NA> | | |
| ## 170 | Death | <NA> | | |
| ## 377 | | <NA> | <NA> | |

| | | |
|--------|------------|------|
| ## 342 | <NA> | <NA> |
| ## 159 | Home | Yes |
| ## 335 | Death | <NA> |
| ## 265 | LTAC/rehab | No |
| ## 349 | Other | Yes |
| ## 291 | Death | <NA> |
| ## 415 | Death | No |
| ## 7 | Home | <NA> |
| ## 217 | Death | Yes |
| ## 197 | LTAC/rehab | No |
| ## 121 | Death | <NA> |
| ## 241 | Death | Yes |
| ## 240 | Home | No |
| ## 322 | LTAC/rehab | <NA> |
| ## 109 | Death | <NA> |
| ## 116 | LTAC/rehab | <NA> |
| ## 214 | LTAC/rehab | Yes |
| ## 313 | Death | unk |
| ## 190 | LTAC/rehab | <NA> |
| ## 371 | Death | No |
| ## 337 | Home | <NA> |
| ## 29 | LTAC/rehab | <NA> |
| ## 37 | Home | <NA> |
| ## 346 | Home | <NA> |
| ## 339 | Home | No |
| ## 229 | Death | <NA> |
| ## 395 | <NA> | <NA> |
| ## 16 | Home | <NA> |
| ## 114 | <NA> | <NA> |
| ## 58 | <NA> | <NA> |
| ## 135 | <NA> | Yes |
| ## 196 | LTAC/rehab | <NA> |
| ## 30 | Death | No |
| ## 50 | Death | <NA> |
| ## 356 | <NA> | <NA> |
| ## 193 | Death | <NA> |
| ## 134 | Death | No |
| ## 173 | <NA> | <NA> |
| ## 112 | Death | <NA> |
| ## 48 | Home | <NA> |
| ## 289 | <NA> | <NA> |
| ## 51 | LTAC/rehab | <NA> |
| ## 215 | <NA> | <NA> |
| ## 270 | <NA> | <NA> |
| ## 374 | <NA> | <NA> |
| ## 244 | LTAC/rehab | No |
| ## 387 | <NA> | <NA> |
| ## 222 | Home | Yes |
| ## 90 | Death | <NA> |
| ## 406 | Death | Yes |
| ## 420 | <NA> | Yes |
| ## 368 | Death | No |
| ## 179 | Home | <NA> |
| ## 280 | LTAC/rehab | No |

| | | |
|--------|------------|------|
| ## 284 | Death | <NA> |
| ## 373 | Home | No |
| ## 306 | Death | <NA> |
| ## 183 | Home | <NA> |
| ## 62 | LTAC/rehab | <NA> |
| ## 131 | Death | <NA> |
| ## 224 | <NA> | <NA> |
| ## 4 | <NA> | <NA> |
| ## 39 | Home | <NA> |
| ## 327 | Home | Yes |
| ## 138 | Death | <NA> |
| ## 15 | Home | <NA> |
| ## 279 | Death | <NA> |
| ## 341 | Home | <NA> |
| ## 266 | LTAC/rehab | Yes |
| ## 273 | LTAC/rehab | <NA> |
| ## 24 | Home | <NA> |
| ## 405 | Death | <NA> |
| ## 113 | <NA> | <NA> |
| ## 6 | Home | Yes |
| ## 88 | LTAC/rehab | Yes |
| ## 71 | Death | Yes |
| ## 298 | <NA> | Yes |
| ## 340 | Death | <NA> |
| ## 19 | LTAC/rehab | <NA> |
| ## 127 | Home | No |
| ## 367 | Home | <NA> |
| ## 20 | Home | <NA> |
| ## 120 | <NA> | <NA> |
| ## 331 | Death | <NA> |
| ## 303 | <NA> | <NA> |
| ## 140 | LTAC/rehab | <NA> |
| ## 80 | Death | Yes |
| ## 238 | <NA> | <NA> |
| ## 253 | <NA> | Yes |
| ## 133 | Home | No |
| ## 388 | <NA> | <NA> |
| ## 38 | LTAC/rehab | <NA> |
| ## 274 | LTAC/rehab | No |
| ## 321 | LTAC/rehab | Yes |
| ## 154 | Death | <NA> |
| ## 79 | <NA> | No |
| ## 390 | <NA> | <NA> |
| ## 104 | Death | <NA> |
| ## 218 | <NA> | No |
| ## 211 | Home | <NA> |
| ## 318 | LTAC/rehab | Yes |
| ## 167 | Home | <NA> |
| ## 52 | LTAC/rehab | <NA> |
| ## 119 | Death | <NA> |
| ## 76 | LTAC/rehab | No |
| ## 115 | Death | <NA> |
| ## 394 | Death | <NA> |
| ## 164 | LTAC/rehab | Yes |

| | | |
|--------|------------|------|
| ## 110 | LTAC/rehab | <NA> |
| ## 81 | Death | <NA> |
| ## 413 | <NA> | <NA> |
| ## 370 | Home | Yes |
| ## 272 | Home | <NA> |
| ## 182 | <NA> | <NA> |
| ## 31 | <NA> | Yes |
| ## 17 | LTAC/rehab | <NA> |
| ## 78 | Home | <NA> |
| ## 410 | Death | <NA> |
| ## 161 | Other | <NA> |
| ## 254 | <NA> | Yes |
| ## 100 | Death | <NA> |
| ## 87 | Home | <NA> |
| ## 155 | Death | <NA> |
| ## 60 | <NA> | No |
| ## 63 | <NA> | <NA> |
| ## 153 | LTAC/rehab | <NA> |
| ## 102 | Home | Yes |
| ## 359 | <NA> | <NA> |
| ## 307 | Death | <NA> |
| ## 126 | LTAC/rehab | <NA> |
| ## 304 | <NA> | <NA> |
| ## 186 | <NA> | <NA> |
| ## 66 | <NA> | <NA> |
| ## 296 | <NA> | <NA> |
| ## 103 | Home | <NA> |
| ## 163 | LTAC/rehab | No |
| ## 281 | Death | <NA> |
| ## 212 | <NA> | <NA> |
| ## 123 | Home | <NA> |
| ## 422 | <NA> | No |
| ## 172 | <NA> | No |
| ## 56 | <NA> | <NA> |
| ## 205 | Death | Yes |
| ## 351 | Death | <NA> |
| ## 325 | Death | Yes |
| ## 150 | LTAC/rehab | <NA> |
| ## 111 | LTAC/rehab | No |
| ## 107 | <NA> | Yes |
| ## 194 | Death | Yes |
| ## 343 | <NA> | <NA> |
| ## 301 | Death | Yes |
| ## 73 | Death | Yes |
| ## 141 | Home | Yes |
| ## 213 | LTAC/rehab | <NA> |
| ## 419 | <NA> | <NA> |
| ## 57 | <NA> | <NA> |
| ## 237 | Death | <NA> |
| ## 2 | Home | Yes |
| ## 221 | <NA> | <NA> |
| ## 180 | Death | Yes |
| ## 105 | Home | No |
| ## 41 | Death | No |

| | | |
|--------|------------|------|
| ## 403 | Death | Yes |
| ## 187 | LTAC/rehab | <NA> |
| ## 132 | LTAC/rehab | No |
| ## 137 | <NA> | <NA> |
| ## 45 | Home | <NA> |
| ## 369 | Death | Yes |
| ## 23 | <NA> | Yes |
| ## 320 | Death | <NA> |
| ## 329 | Home | <NA> |
| ## 171 | Death | No |
| ## 191 | Home | No |
| ## 283 | Death | <NA> |
| ## 411 | <NA> | <NA> |
| ## 294 | <NA> | <NA> |
| ## 267 | Death | <NA> |
| ## 317 | Home | <NA> |
| ## 392 | Death | <NA> |
| ## 347 | Home | <NA> |
| ## 316 | Death | No |
| ## 258 | LTAC/rehab | <NA> |
| ## 324 | <NA> | <NA> |
| ## 12 | <NA> | <NA> |
| ## 290 | <NA> | <NA> |
| ## 42 | Death | No |
| ## 338 | LTAC/rehab | <NA> |
| ## 225 | <NA> | No |
| ## 269 | <NA> | <NA> |
| ## 198 | <NA> | No |
| ## 35 | Death | No |
| ## 358 | Death | Yes |
| ## 275 | Other | <NA> |
| ## 67 | Death | <NA> |
| ## 401 | Death | <NA> |
| ## 402 | Death | <NA> |
| ## 5 | Death | <NA> |
| ## 243 | Death | No |
| ## 255 | Death | <NA> |
| ## 27 | <NA> | <NA> |
| ## 231 | Home | Yes |
| ## 354 | Home | <NA> |
| ## 130 | Home | <NA> |
| ## 399 | <NA> | <NA> |
| ## 98 | Home | <NA> |
| ## 233 | <NA> | <NA> |
| ## 146 | Death | <NA> |
| ## 18 | Death | <NA> |
| ## 295 | Home | <NA> |
| ## 228 | LTAC/rehab | <NA> |
| ## 70 | Home | <NA> |
| ## 26 | Death | <NA> |
| ## 350 | <NA> | <NA> |
| ## 382 | <NA> | <NA> |
| ## 362 | LTAC/rehab | Unk |
| ## 232 | Death | <NA> |

| | | |
|--------|------------|------|
| ## 396 | <NA> | <NA> |
| ## 219 | Death | <NA> |
| ## 125 | Other | <NA> |
| ## 288 | Death | <NA> |
| ## 32 | LTAC/rehab | <NA> |
| ## 334 | Home | <NA> |
| ## 248 | Death | <NA> |
| ## 147 | Home | Unk |
| ## | | |
| ## 357 | | |
| ## 292 | | |
| ## 227 | | |
| ## 40 | | |
| ## 94 | | |
| ## 96 | | |
| ## 414 | | |
| ## 192 | | |
| ## 208 | | |
| ## 33 | | |
| ## 118 | | |
| ## 188 | | |
| ## 14 | | |
| ## 250 | | |
| ## 22 | | |
| ## 366 | | |
| ## 181 | | |
| ## 309 | | |
| ## 421 | | |
| ## 216 | | |
| ## 199 | | |
| ## 360 | | |
| ## 65 | | |
| ## 68 | | |
| ## 312 | | |
| ## 101 | | |
| ## 285 | | |
| ## 91 | | |
| ## 46 | | |
| ## 203 | | |
| ## 424 | | |
| ## 99 | | |
| ## 310 | | |
| ## 412 | | |
| ## 143 | | |
| ## 311 | | |
| ## 175 | | |
| ## 379 | | |
| ## 170 | | |
| ## 377 | | |
| ## 342 | | |
| ## 159 | | |
| ## 335 | | |
| ## 265 | | |
| ## 349 | | |

(On-ECLS, Stool, Bacter

(Pre-ECL


```

## 291
## 415
## 7
## 217
## 197
## 121
## 241
## 240 (Pre-ECLS, Urine, Bacteria, Enterococcus), (Pre-ECLS, Blood, Bacter
## 322
## 109
## 116 (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Respira
## 214
## 313
## 190
## 371
## 337
## 29
## 37
## 346
## 339
## 229
## 395
## 16
## 114
## 58
## 135
## 196
## 30
## 50
## 356
## 193 (Pre-ECLS, Skin/Soft Tis
## 134
## 173
## 112
## 48
## 289
## 51
## 215
## 270
## 374
## 244
## 387
## 222
## 90
## 406
## 420
## 368
## 179
## 280
## 284
## 373
## 306
## 183
## 62

```

```

## 131
## 224
## 4
## 39 (On-ECLS, Blood, Bacteria, Enterobacter cloacae), (On-ECLS, Respiratory Tract, Bacteria, Enterobacter cloacae)
## 327 (On-ECLS, Blood, Bacteria, Enterobacter cloacae), (On-ECLS, Respiratory Tract, Bacteria, Enterobacter cloacae)
## 138
## 15 (On-ECLS, Blood, Bacteria, Enterobacter cloacae), (On-ECLS, Respiratory Tract, Bacteria, Enterobacter cloacae)
## 279
## 341
## 266
## 273
## 24
## 405
## 113
## 6
## 88
## 71
## 298 (On-ECLS, Blood, Bacteria, Enterobacter cloacae)
## 340
## 19
## 127
## 367
## 20
## 120
## 331
## 303
## 140
## 80
## 238
## 253 (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Respiratory Tract, Bacteria, E. coli)
## 133
## 388 (Pre-ECLS, Blood, Bacteria, Enterobacter cloacae)
## 38
## 274
## 321
## 154
## 79
## 390
## 104
## 218
## 211
## 318
## 167
## 52
## 119
## 76
## 115
## 394
## 164
## 110
## 81
## 413
## 370
## 272 (On-ECLS, Blood, Bacteria, Enterobacter cloacae)

```

182
31
17
78
410
161
254
100
87
155
60
63
153
102
359
307
126
304
186
66
296
103
163
281
212
123
422
172
56
205
351
325
150
111
107
194
343
301
73
141
213
419
57
237
2
221
180
105
41
403
187
132
137
45

(Pre-ECLS, Urine, Bacteria, Enterococcus), (Pre-ECLS, Blood, Bacte

| | |
|--------|--|
| ## 369 | |
| ## 23 | |
| ## 320 | |
| ## 329 | |
| ## 171 | (On-ECLS, Stool, Bacter |
| ## 191 | |
| ## 283 | |
| ## 411 | |
| ## 294 | |
| ## 267 | |
| ## 317 | |
| ## 392 | |
| ## 347 | (Pre-ECLS, Peritoneal F |
| ## 316 | |
| ## 258 | |
| ## 324 | |
| ## 12 | |
| ## 290 | |
| ## 42 | |
| ## 338 | |
| ## 225 | |
| ## 269 | (On-ECLS, Re |
| ## 198 | |
| ## 35 | |
| ## 358 | |
| ## 275 | |
| ## 67 | |
| ## 401 | (Pre-ECL |
| ## 402 | |
| ## 5 | |
| ## 243 | |
| ## 255 | |
| ## 27 | |
| ## 231 | |
| ## 354 | |
| ## 130 | |
| ## 399 | |
| ## 98 | |
| ## 233 | |
| ## 146 | |
| ## 18 | |
| ## 295 | (On-ECLS, Blood, Bacteria, Klebsiella pneumoniae), (On-ECLS, |
| ## 228 | |
| ## 70 | |
| ## 26 | |
| ## 350 | |
| ## 382 | |
| ## 362 | |
| ## 232 | |
| ## 396 | |
| ## 219 | |
| ## 125 | |
| ## 288 | |
| ## 32 | |

```

## 334
## 248
## 147
##      support_type transfer covid pregnant year days_to_discharge admission_date
## 357      <NA>      NA      NA      NA      NA      NA      <NA>
## 292    Pulmonary    FALSE FALSE      NA 2021      36    2021-02-09
## 227      <NA>    FALSE FALSE      NA 2021      20    2020-10-06
## 40      Cardiac    FALSE FALSE      NA 2021      14    2021-10-25
## 94      <NA>    FALSE  TRUE      NA 2020       9    2021-05-25
## 96      <NA>    FALSE  TRUE      NA 2019     NA    2020-03-09
## 414      <NA>    FALSE FALSE      NA 2019       1    2021-04-10
## 192      <NA>    FALSE  TRUE      NA 2019      19    2021-10-22
## 208      <NA>    FALSE FALSE      NA 2020     48    2020-10-21
## 33      <NA>    FALSE FALSE      NA 2021     33    2021-06-11
## 118      <NA>    FALSE FALSE      NA 2018     NA    2021-10-11
## 188      <NA>    FALSE  TRUE      NA 2019       1    2020-01-05
## 14      <NA>    FALSE FALSE      NA 2020       0    2020-03-15
## 250    Cardiac    FALSE FALSE      NA 2019       5    2020-09-24
## 22      <NA>    FALSE  TRUE      NA 2020     55    2020-05-26
## 366    Pulmonary    FALSE  TRUE      NA 2018     95    2021-05-01
## 181      <NA>    FALSE FALSE      NA 2019     35    2020-10-12
## 309      <NA>    FALSE FALSE      NA 2020     NA    2021-03-09
## 421      <NA>    FALSE FALSE      NA 2021     30    2021-07-28
## 216    Cardiac    FALSE  TRUE      NA 2021       6    2020-12-21
## 199      <NA>    FALSE FALSE      NA 2020     NA    2020-07-24
## 360      ECPR    FALSE FALSE      NA 2020     NA    2021-05-27
## 65      <NA>    FALSE FALSE      NA 2018     NA    2021-04-13
## 68      Cardiac    FALSE FALSE      NA 2020      10    2021-02-07
## 312      <NA>    FALSE FALSE      NA 2018     27    2021-05-21
## 101    Cardiac    FALSE FALSE      NA 2018     50    2021-09-23
## 285      <NA>    FALSE  TRUE      NA 2020     NA    2021-08-28
## 91      Pulmonary    FALSE FALSE      NA 2022     12    2020-08-15
## 46      ECPR    FALSE FALSE      NA 2020     19    2020-07-03
## 203      <NA>    FALSE FALSE      NA 2020     NA    2020-11-05
## 424      <NA>    FALSE FALSE      NA 2020     NA    2021-05-29
## 99      <NA>    FALSE FALSE      NA 2020     12    2020-10-25
## 310    Pulmonary    FALSE FALSE      NA 2020     37    2020-08-27
## 412      <NA>    FALSE FALSE      NA 2020     14    2020-01-20
## 143      <NA>    FALSE FALSE      TRUE 2018     14    2021-03-12
## 311    Cardiac     TRUE FALSE      NA 2019       7    2021-11-24
## 175      <NA>    FALSE  TRUE      NA 2021       7    2020-09-28
## 379      <NA>    FALSE   NA      NA 2019     NA    2020-09-25
## 170    Cardiac    FALSE FALSE      NA 2020       7    2020-08-19
## 377      <NA>    FALSE FALSE      NA 2020     26    2020-01-26
## 342    Pulmonary    FALSE  TRUE      NA 2019       7    2020-04-27
## 159      <NA>    FALSE FALSE      NA 2018       3    2020-09-11
## 335    Cardiac    FALSE FALSE      NA 2018       8    2020-02-05
## 265      <NA>    FALSE FALSE      NA 2020     12    2020-03-28
## 349    Cardiac    FALSE FALSE      NA 2020     30    2021-10-13
## 291      <NA>    FALSE  TRUE      TRUE 2020     17    2021-02-19
## 415      ECPR    FALSE FALSE      NA 2019       1    2020-12-07
## 7      <NA>    FALSE  TRUE      NA 2020     NA    2020-05-10
## 217      <NA>    FALSE  TRUE      TRUE 2020       3    2020-05-06
## 197      <NA>    FALSE FALSE      NA 2019       9    2021-06-08

```

| | | | | | |
|--------|-----------|-------------|-----------|-----|------------|
| ## 121 | ECPR | FALSE FALSE | NA 2019 | NA | 2021-03-17 |
| ## 241 | Pulmonary | FALSE TRUE | NA 2018 | 15 | 2021-05-08 |
| ## 240 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-07-13 |
| ## 322 | ECPR | FALSE FALSE | NA 2020 | 23 | 2020-09-23 |
| ## 109 | <NA> | FALSE FALSE | NA 2018 | 35 | 2020-03-07 |
| ## 116 | <NA> | FALSE FALSE | NA 2018 | 11 | 2020-03-16 |
| ## 214 | <NA> | FALSE TRUE | NA 2020 | 20 | 2020-07-14 |
| ## 313 | <NA> | FALSE FALSE | NA 2019 | 4 | 2021-01-15 |
| ## 190 | Pulmonary | FALSE TRUE | NA 2020 | 19 | 2021-01-11 |
| ## 371 | <NA> | FALSE FALSE | NA 2020 | 11 | 2021-03-01 |
| ## 337 | <NA> | FALSE FALSE | NA 2019 | 20 | 2020-03-13 |
| ## 29 | <NA> | FALSE FALSE | NA 2018 | 101 | 2020-10-05 |
| ## 37 | <NA> | FALSE FALSE | NA 2019 | 10 | 2021-12-05 |
| ## 346 | <NA> | FALSE FALSE | NA 2021 | 19 | 2021-10-17 |
| ## 339 | ECPR | FALSE FALSE | NA 2020 | 103 | 2021-11-07 |
| ## 229 | Cardiac | FALSE FALSE | NA 2020 | NA | 2020-02-28 |
| ## 395 | <NA> | FALSE TRUE | NA 2019 | 12 | 2021-02-13 |
| ## 16 | Pulmonary | FALSE FALSE | NA 2018 | 9 | 2020-10-14 |
| ## 114 | <NA> | TRUE TRUE | NA 2019 | NA | 2021-04-02 |
| ## 58 | Cardiac | FALSE TRUE | NA 2020 | 15 | 2020-11-28 |
| ## 135 | <NA> | FALSE TRUE | NA 2019 | NA | 2020-08-14 |
| ## 196 | Cardiac | FALSE FALSE | NA 2020 | 58 | 2020-11-06 |
| ## 30 | Cardiac | FALSE TRUE | NA 2019 | NA | 2020-07-16 |
| ## 50 | Pulmonary | FALSE FALSE | NA 2019 | NA | 2020-03-21 |
| ## 356 | Pulmonary | FALSE FALSE | NA 2020 | 10 | 2020-09-27 |
| ## 193 | <NA> | FALSE FALSE | NA 2018 | 42 | 2020-02-14 |
| ## 134 | Pulmonary | FALSE FALSE | NA 2021 | 26 | 2020-08-21 |
| ## 173 | ECPR | FALSE FALSE | NA 2018 | NA | 2020-01-07 |
| ## 112 | <NA> | FALSE FALSE | NA 2018 | 10 | 2020-04-09 |
| ## 48 | <NA> | FALSE FALSE | NA 2019 | 9 | 2020-02-06 |
| ## 289 | <NA> | FALSE FALSE | NA 2018 | NA | 2020-06-17 |
| ## 51 | <NA> | FALSE TRUE | NA 2019 | 27 | 2021-08-31 |
| ## 215 | <NA> | FALSE FALSE | TRUE 2019 | 33 | 2021-12-15 |
| ## 270 | <NA> | FALSE TRUE | NA 2021 | 16 | 2021-01-06 |
| ## 374 | <NA> | FALSE FALSE | NA 2021 | 22 | 2020-05-12 |
| ## 244 | <NA> | FALSE FALSE | NA 2020 | 6 | 2020-04-22 |
| ## 387 | <NA> | FALSE TRUE | NA 2021 | 27 | 2021-01-25 |
| ## 222 | <NA> | FALSE FALSE | NA 2020 | 16 | 2021-10-20 |
| ## 90 | Pulmonary | FALSE FALSE | NA 2022 | 65 | 2020-03-10 |
| ## 406 | <NA> | FALSE TRUE | NA 2020 | 103 | 2020-08-09 |
| ## 420 | <NA> | FALSE TRUE | NA 2019 | NA | 2021-04-17 |
| ## 368 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-08-26 |
| ## 179 | <NA> | FALSE FALSE | NA 2017 | 58 | 2020-08-17 |
| ## 280 | <NA> | FALSE FALSE | NA 2020 | 15 | 2021-01-27 |
| ## 284 | <NA> | FALSE FALSE | NA 2022 | NA | 2021-10-09 |
| ## 373 | <NA> | FALSE TRUE | NA 2019 | 58 | 2021-07-21 |
| ## 306 | <NA> | FALSE FALSE | NA 2020 | NA | 2021-12-20 |
| ## 183 | <NA> | FALSE FALSE | NA 2019 | NA | 2021-06-13 |
| ## 62 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-05-27 |
| ## 131 | <NA> | FALSE TRUE | NA 2019 | NA | 2021-05-13 |
| ## 224 | <NA> | FALSE TRUE | NA 2019 | 23 | 2021-11-28 |
| ## 4 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-01-29 |
| ## 39 | Pulmonary | FALSE FALSE | NA 2021 | 27 | 2020-04-14 |
| ## 327 | <NA> | FALSE TRUE | NA 2020 | 6 | 2021-04-04 |

| | | | | | |
|--------|-----------|-------------|-----------|-----|------------|
| ## 138 | <NA> | FALSE FALSE | NA 2020 | 28 | 2020-12-03 |
| ## 15 | <NA> | FALSE FALSE | NA 2020 | NA | 2020-06-11 |
| ## 279 | Cardiac | FALSE TRUE | NA 2020 | 38 | 2020-11-26 |
| ## 341 | <NA> | FALSE FALSE | NA 2021 | 6 | 2020-05-28 |
| ## 266 | <NA> | FALSE FALSE | NA 2021 | 13 | 2020-05-20 |
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```

#Some variables will have more than one value in the same cell, separated by a comma.

Use average for mechanical_vent_days in days not hours

#drop first row (just NA values)

```
synthetic_data = synthetic_data[-1,]
```

Evaluate if categorical variables have any category with a low frequency:

#Uses frequency tables:

#standardizes sex colum:

```
synthetic_data$sex[synthetic_data$sex == 'Female'] <- "F"  
synthetic_data$sex[synthetic_data$sex == 'Male'] <- "M"
```

```
table(synthetic_data$sex)
```

```
##  
##   F   M  
##  91 169
```

```
table(synthetic_data$race)
```

```
##  
##   Black Hispanic   Other   White  
##    23         12     8     216
```

```
table(synthetic_data$diagnosis)
```

```
##  
##   Cardiovascular condition          COVID-19  
##                73                75  
##           Other Other respiratory condition  
##                18                60  
## Other respiratory infection  
##                11
```

```
table(synthetic_data$reintubation)
```

```
##  
## FALSE  TRUE  
##  139    19
```

```
table(synthetic_data$trached)
```

```
##  
## FALSE  TRUE  
##  142    76
```

```
table(synthetic_data$systemic_anticoagulation_type)
```

```
##
##           Bivalirudin only
##           62
## Heparin and anticoagulant sodium citrate
##           1
##           Heparin and bivalirudin
##           12
##           Heparin only
##           126
##           No anticoagulant
##           24
```

```
table(synthetic_data$acute_kidney_injury)
```

```
##
## FALSE TRUE
##   117   106
```

```
table(synthetic_data$discharge_location)
```

```
##
##      Death      Home LTAC/rehab      Other
##      84        56         45         4
```

```
synthetic_data$steroids[synthetic_data$steroids == 'Unk'] <- "unk"
synthetic_data$steroids[synthetic_data$steroids == 'unk'] <- NA
table(synthetic_data$steroids)
```

```
##
## No Yes
##  39  48
```

```
synthetic_data$infection[synthetic_data$infection == 'R/V/SARS CoV19'] <- 'SARS CoV19'
synthetic_data$infection[synthetic_data$infection == 'R/V/COVID-19'] <- 'SARS CoV19'
synthetic_data$infection[synthetic_data$infection == 'Hx of COVID19 - 1/2022'] <- 'SARS CoV19'
synthetic_data$infection[synthetic_data$infection == 'P/R/V/ Covid-19, P/R/GM+/ Strep sp, P/B/GM+/ Stap']
```

```
synthetic_data$infection[synthetic_data$infection != 'SARS CoV19'] <- 'Other'
table(synthetic_data$infection)
```

```
##
##      Other SARS CoV19
##      57         71
```

```
table(synthetic_data$support_type)
```

```
##
## Cardiac      ECPR Pulmonary
##      48        14         30
```



```
table(synthetic_data$transfer)
```

```
##  
## FALSE TRUE  
## 252 11
```

```
table(synthetic_data$covid)
```

```
##  
## FALSE TRUE  
## 192 70
```

```
table(synthetic_data$pregnant)
```

```
##  
## TRUE  
## 11
```

```
table(synthetic_data$mechanical_vent_days)
```

```
##  
## <= 12h >= 7 days 12h - 24h 2 days - 7 days  
## 77 8 73 31
```

#for example_lab_data:

```
table(example_lab_data$lab_exam)
```

```
##  
## Cholesterol CRP Glucose Hematocrit Lymphocytes Platelets  
## 80 80 80 80 80 80
```

Make sure that time variables are consistently coded: #convert char column into posixct

```
synthetic_data[['admission_date']] <- as.POSIXct(synthetic_data[['admission_date']],  
format = "%Y-%m-%d")
```

```
synthetic_data[['discharge_date']] <- as.POSIXct(synthetic_data[['discharge_date']],  
format = "%Y-%m-%d")
```

```
synthetic_data[['death_date']] <- as.POSIXct(synthetic_data[['death_date']],  
format = "%Y-%m-%d")
```

#for example_lab_data:

```
example_lab_data[['date']] <- as.POSIXct(example_lab_data[['date']],  
format = "%Y-%m-%d")
```

Evaluate categorical variables:

#for that, first convert to factors:

```

#example_lab_data$lab_exam <- as.factor(example_lab_data$lab_exam)

synthetic_data$sex <- as.factor(synthetic_data$sex)
synthetic_data$race <- as.factor(synthetic_data$race)
synthetic_data$diagnosis <- as.factor(synthetic_data$diagnosis)
synthetic_data$reintubation <- as.factor(synthetic_data$reintubation)
synthetic_data$trached <- as.factor(synthetic_data$trached)

synthetic_data$systemic_anticoagulation_type <- as.factor(synthetic_data$systemic_anticoagulation_type)

synthetic_data$acute_kidney_injury <- as.factor(synthetic_data$acute_kidney_injury)

synthetic_data$discharge_location <- as.factor(synthetic_data$discharge_location)

synthetic_data$steroids <- as.factor(synthetic_data$steroids)
synthetic_data$infection <- as.factor(synthetic_data$infection)
synthetic_data$support_type <- as.factor(synthetic_data$support_type)
synthetic_data$transfer <- as.factor(synthetic_data$transfer)
synthetic_data$covid <- as.factor(synthetic_data$covid)
synthetic_data$pregnant <- as.factor(synthetic_data$pregnant)
synthetic_data$mechanical_vent_days <- as.factor(synthetic_data$mechanical_vent_days)

```

Evaluate the distribution of numeric variables:

We can evaluate normality according to skew and kurtosis: #statistical summary number variables:

```
describe(synthetic_data$weight_kg)
```

```
##      vars    n  mean sd median trimmed  mad min   max range skew kurtosis   se
## X1      1 257 101.39 29   99.9   99.34 27.72  40 200.6 160.6 0.82    1.18 1.81
```

```
describe(synthetic_data$height_cm)
```

```
##      vars    n  mean   sd median trimmed  mad   min   max range skew kurtosis
## X1      1 260 172.96 11.43   175   173.43 11.71 131.3 198.1  66.8 -0.49    0.24
##          se
## X1 0.71
```

```
describe(synthetic_data$bmi)
```

```
##      vars    n mean   sd median trimmed  mad   min   max range skew kurtosis
## X1      1 259 33.6 21.4   31.6   31.66 8.12 15.54 347.88 332.34 12.25   176.58
##          se
## X1 1.33
```

```
describe(synthetic_data$ph)
```

```
##      vars    n mean   sd median trimmed  mad   min   max range skew kurtosis   se
## X1      1 214 7.27 0.14   7.28   7.28 0.17 6.78 7.53  0.75 -0.53    0.09 0.01
```

```
describe(synthetic_data$co2)
```

```
##      vars    n mean    sd median trimmed  mad min max range skew kurtosis  se
## X1      1 215 52.12 18.37    48  50.26 14.83 12 128  116 1.31    2.76 1.25
```

```
describe(synthetic_data$o2)
```

```
##      vars    n mean    sd median trimmed  mad min max range skew kurtosis  se
## X1      1 216 120.88 101.32  82.5  100.59 42.25 19 542  523 2.05    4.11 6.89
```

```
describe(synthetic_data$lactate_peak)
```

```
##      vars    n mean    sd median trimmed  mad min  max range skew kurtosis  se
## X1      1 227  5.48  4.4    3.5   4.77 2.37 0.5 17.5   17 1.25    0.65 0.29
```

```
describe(synthetic_data$creatinine_peak)
```

```
##      vars    n mean    sd median trimmed  mad min  max range skew kurtosis  se
## X1      1 175  1.87  1.23    1.6    1.7 1.08 0.17 6.09  5.92 1.42    2.14 0.09
```

```
describe(synthetic_data$total_bilirubin_peak)
```

```
##      vars    n mean    sd median trimmed  mad min  max range skew kurtosis  se
## X1      1 182  3.27  4.12    1.85    2.45 1.56 0.2 27.3  27.1 3.56    15.71 0.31
```

```
describe(synthetic_data$hospital_los)
```

```
##      vars    n mean    sd median trimmed  mad min max range skew kurtosis  se
## X1      1 225 32.05 31.26    23  26.65 20.76  1 181  180 2.13    5.68 2.08
```

```
describe(synthetic_data$days_to_discharge)
```

```
##      vars    n mean    sd median trimmed  mad min max range skew kurtosis  se
## X1      1 197 24.84 23.51    17  20.82 14.83  0 107  107 1.69    2.71 1.68
```

normal graph

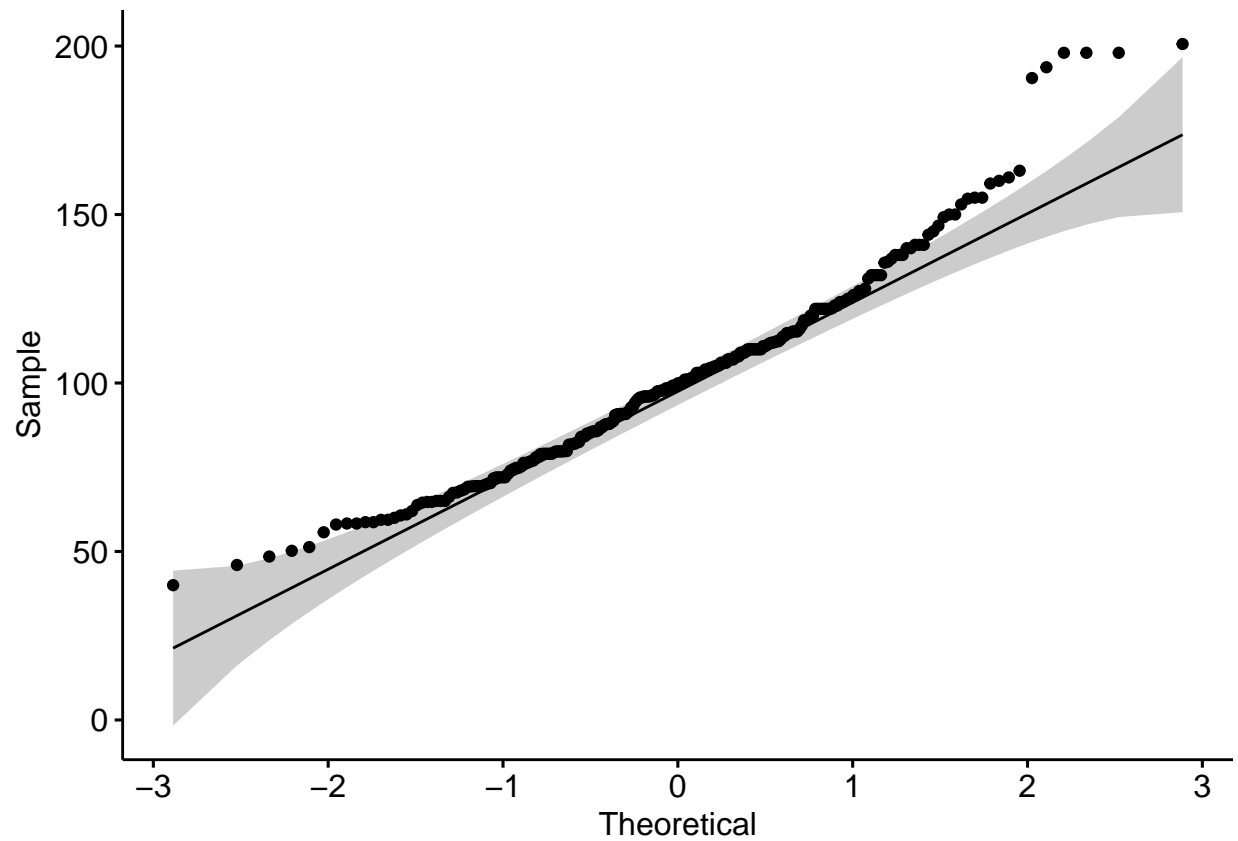
#As all the points fall approximately along this reference line, we can assume normality.

```
ggqqplot(synthetic_data$weight_kg)
```

```
## Warning: Removed 6 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 6 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 6 rows containing non-finite values (stat_qq_line).
```

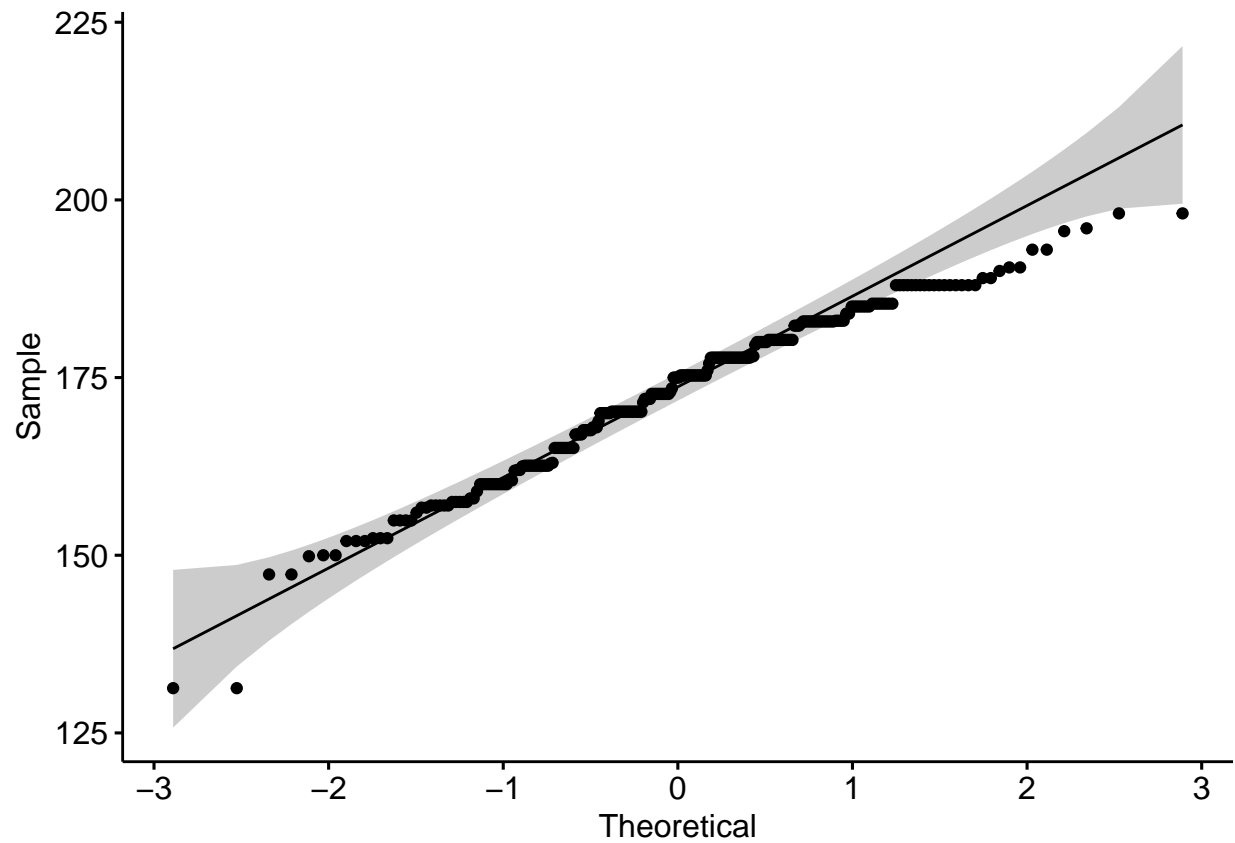


```
ggqqplot(synthetic_data$height_cm)
```

```
## Warning: Removed 3 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 3 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 3 rows containing non-finite values (stat_qq_line).
```

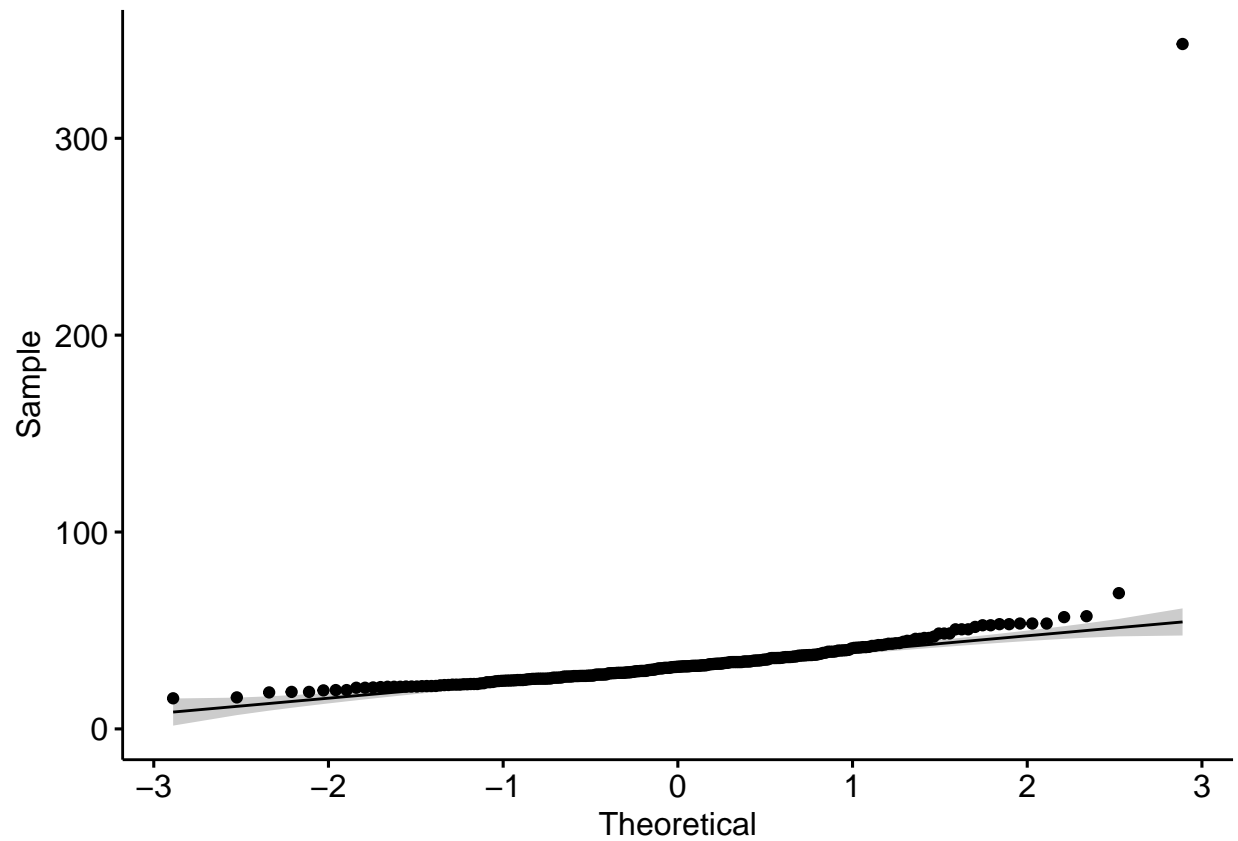


```
ggqqplot(synthetic_data$bmi)
```

```
## Warning: Removed 4 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 4 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 4 rows containing non-finite values (stat_qq_line).
```

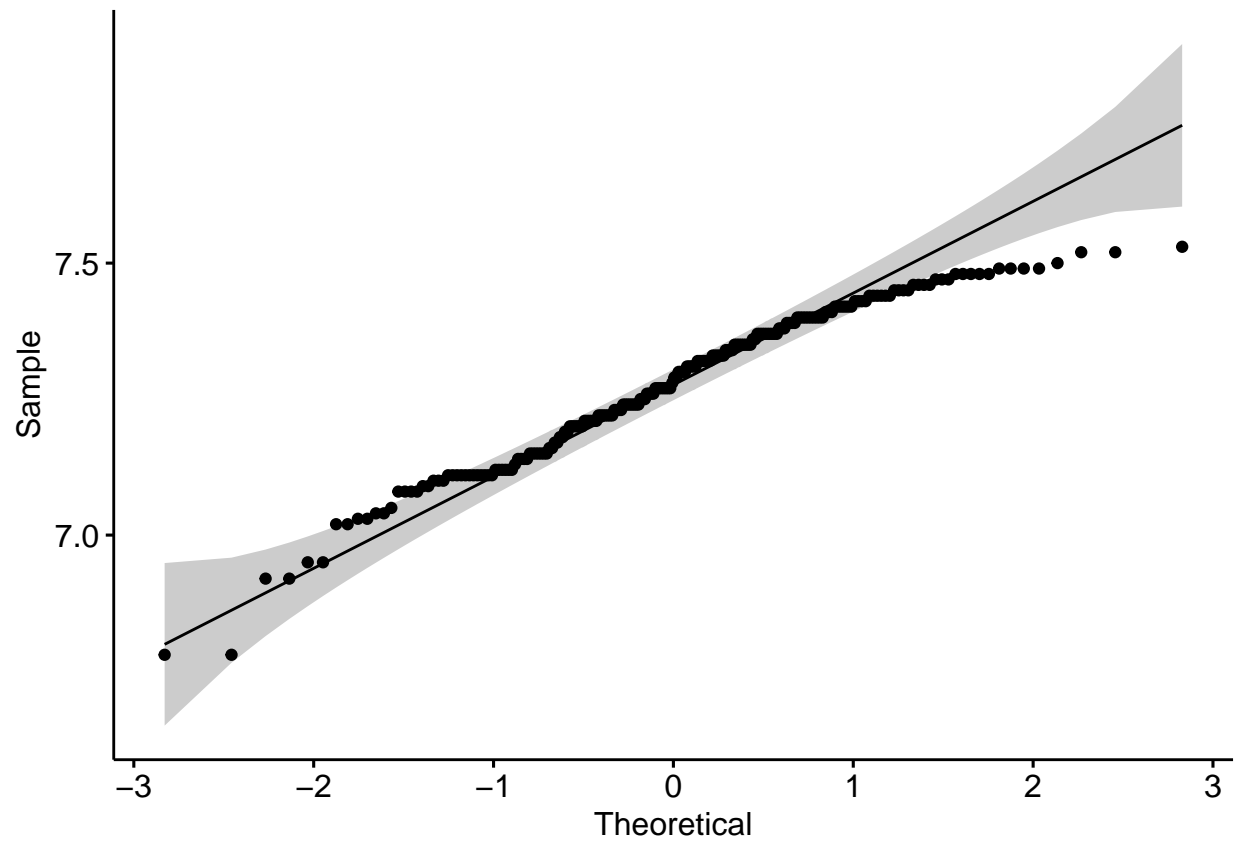


```
ggqqplot(synthetic_data$ph)
```

```
## Warning: Removed 49 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 49 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 49 rows containing non-finite values (stat_qq_line).
```

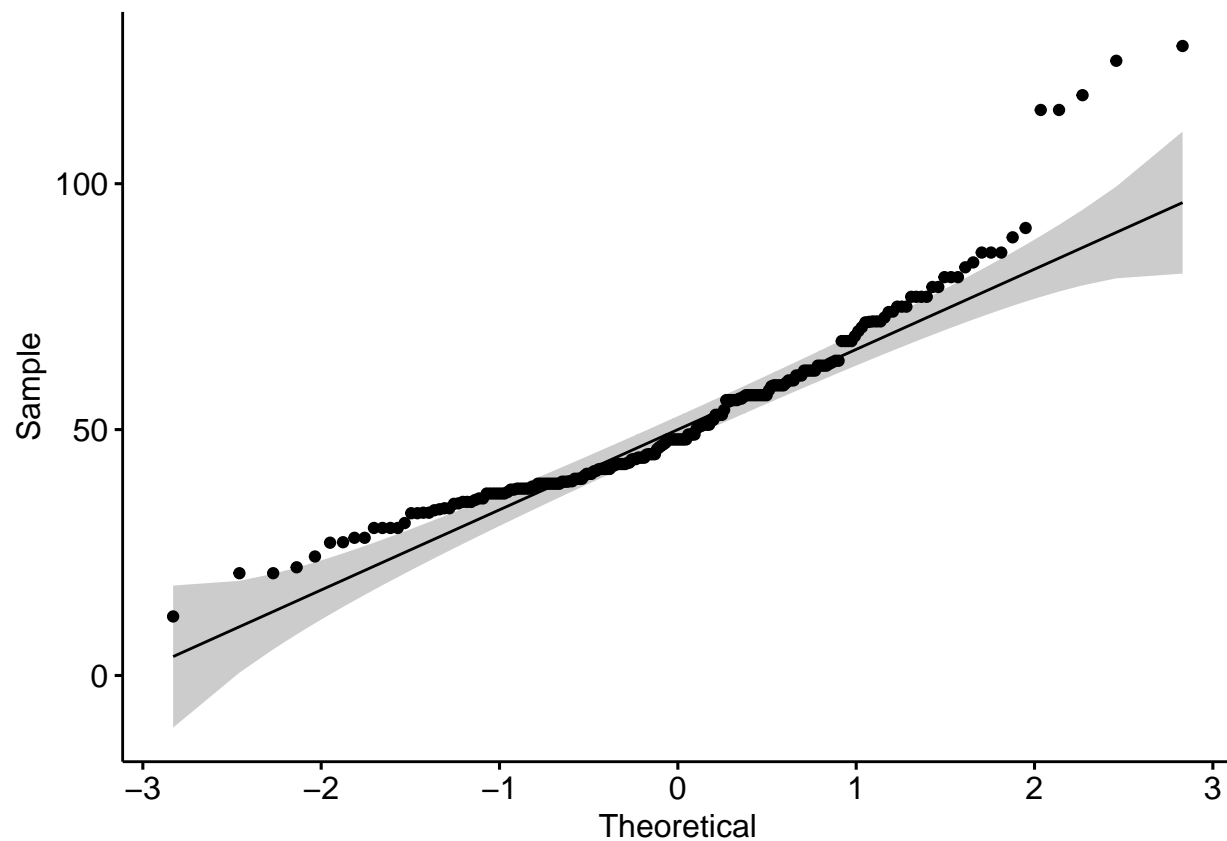


```
ggqqplot(synthetic_data$co2)
```

```
## Warning: Removed 48 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 48 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 48 rows containing non-finite values (stat_qq_line).
```

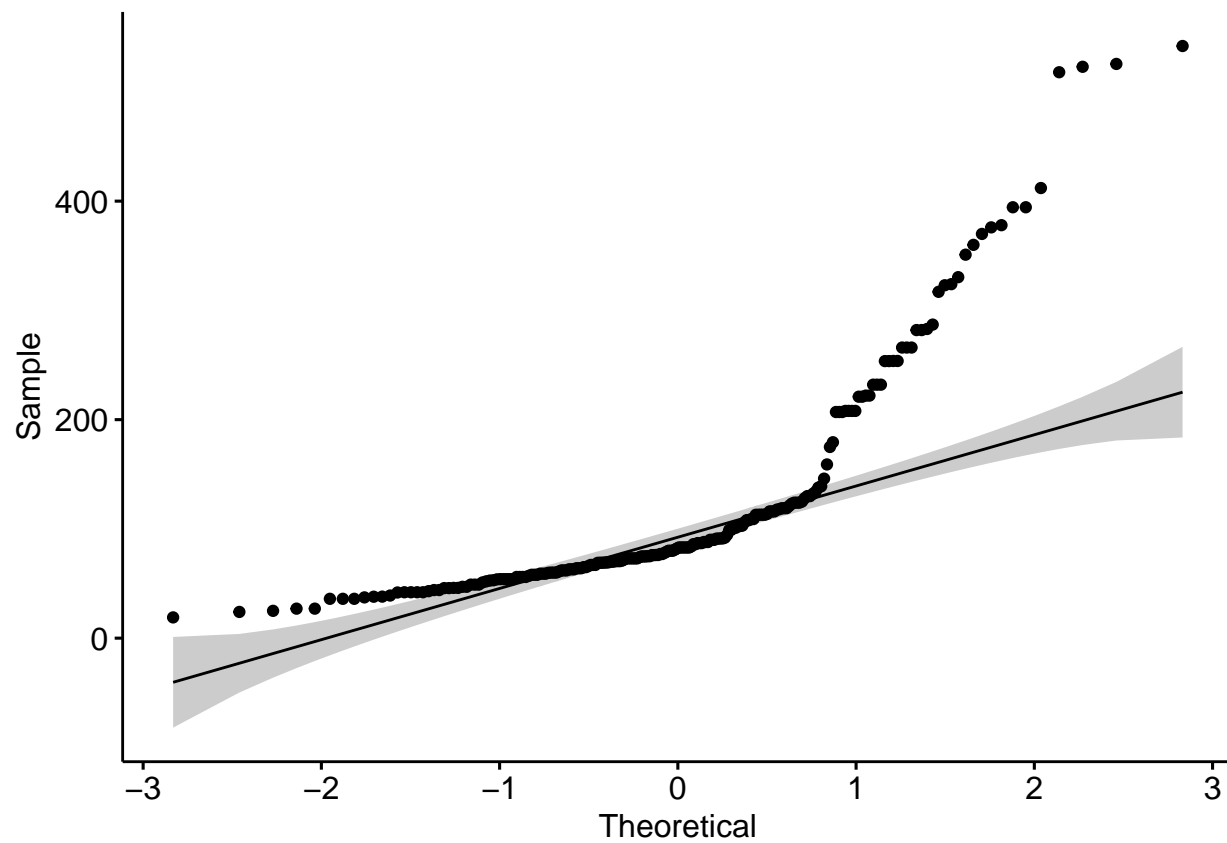


```
ggqqplot(synthetic_data$o2)
```

```
## Warning: Removed 47 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 47 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 47 rows containing non-finite values (stat_qq_line).
```

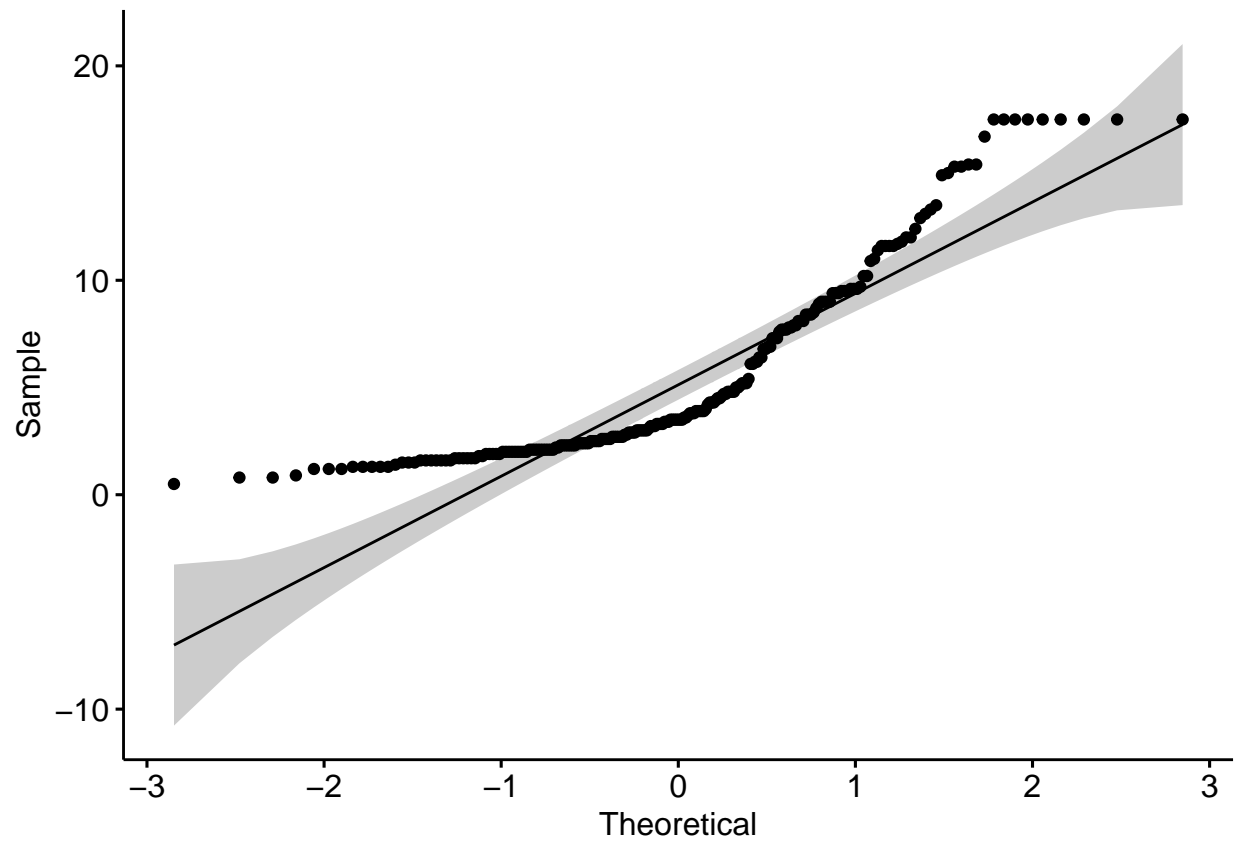



```
ggqqplot(synthetic_data$lactate_peak)
```

```
## Warning: Removed 36 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 36 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 36 rows containing non-finite values (stat_qq_line).
```

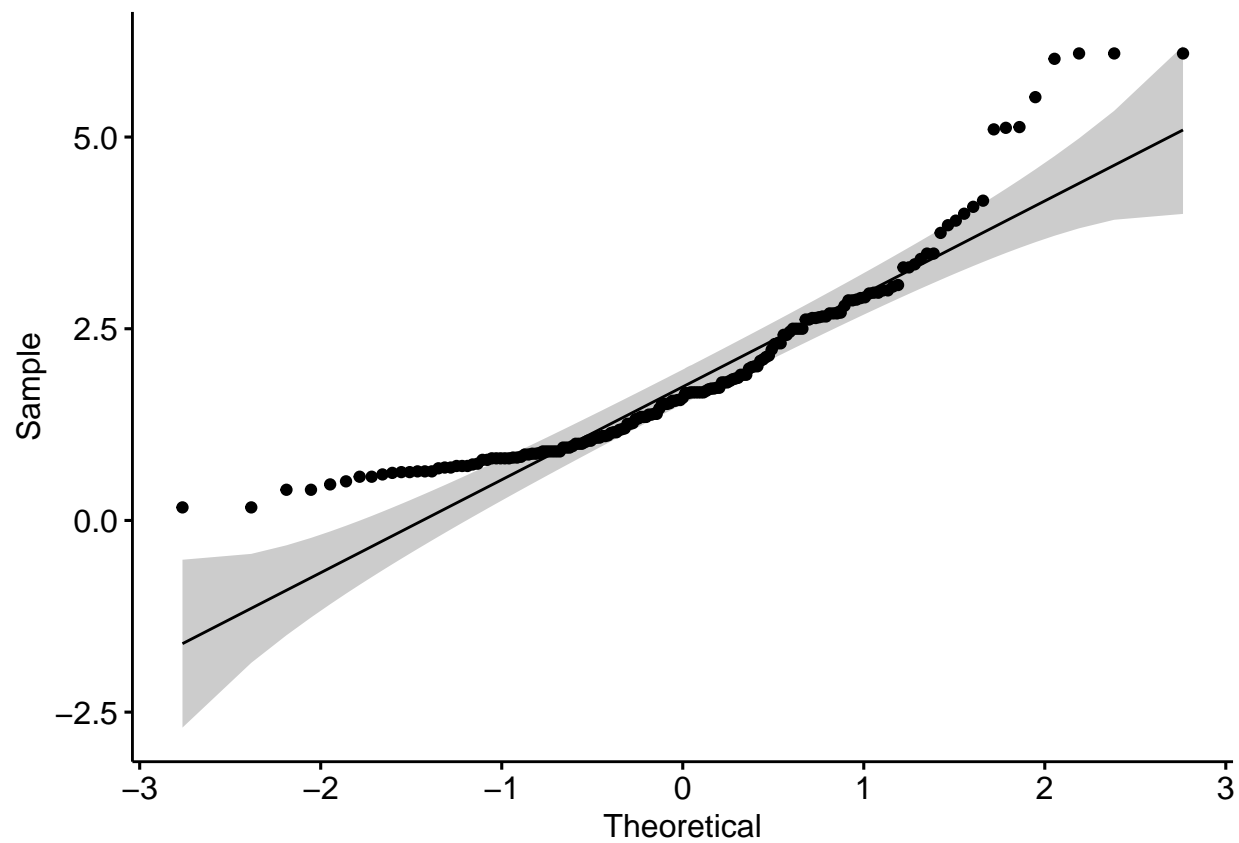


```
ggqqplot(synthetic_data$creatinine_peak)
```

```
## Warning: Removed 88 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 88 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 88 rows containing non-finite values (stat_qq_line).
```

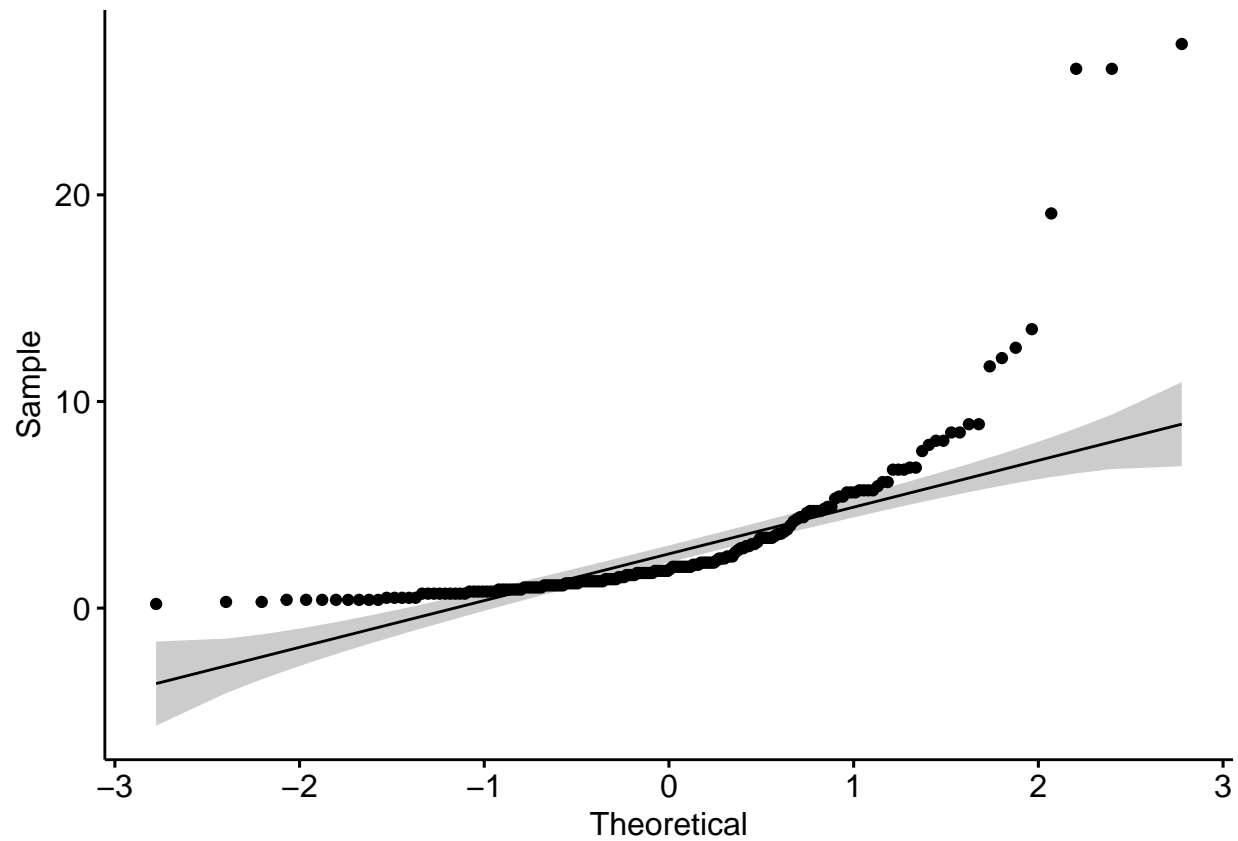


```
ggqqplot(synthetic_data$total_bilirubin_peak)
```

```
## Warning: Removed 81 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 81 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 81 rows containing non-finite values (stat_qq_line).
```

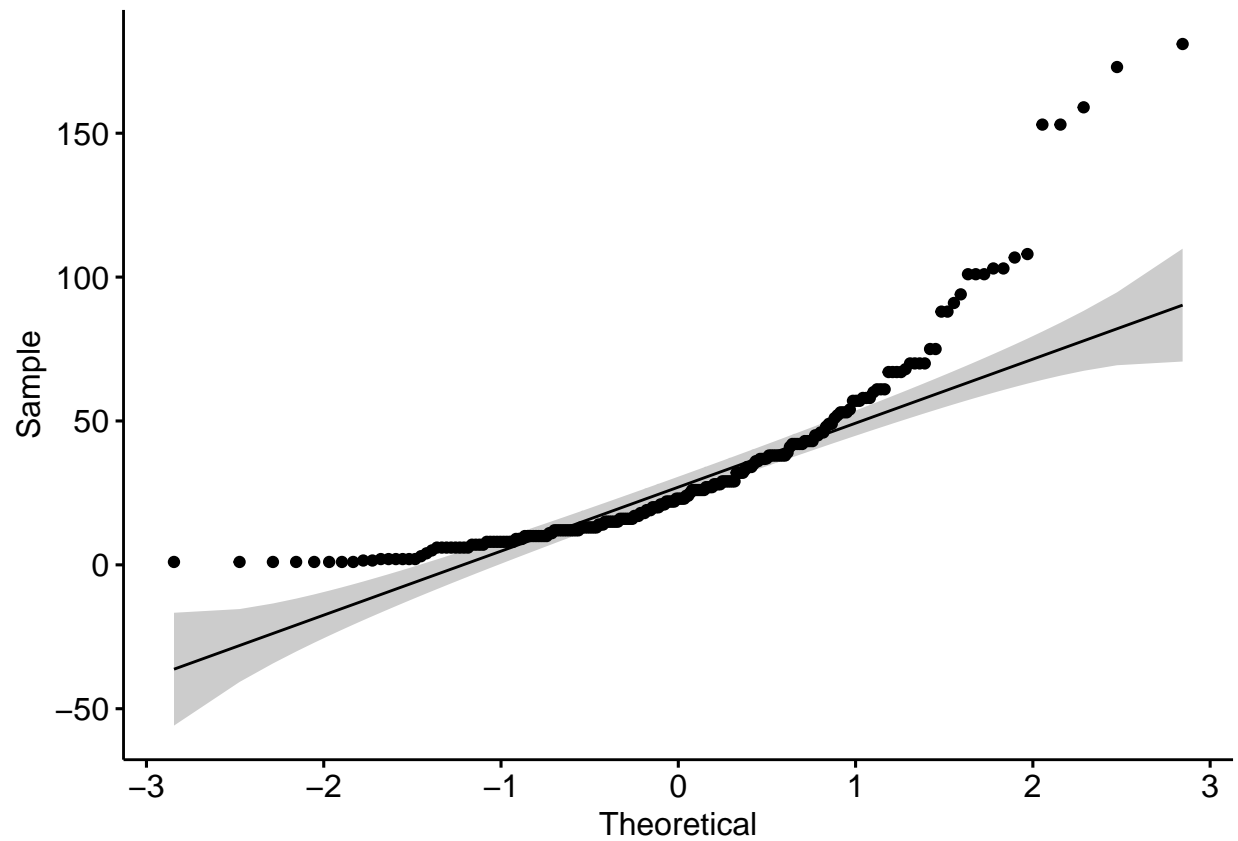


```
ggqqplot(synthetic_data$hospital_los)
```

```
## Warning: Removed 38 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 38 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 38 rows containing non-finite values (stat_qq_line).
```

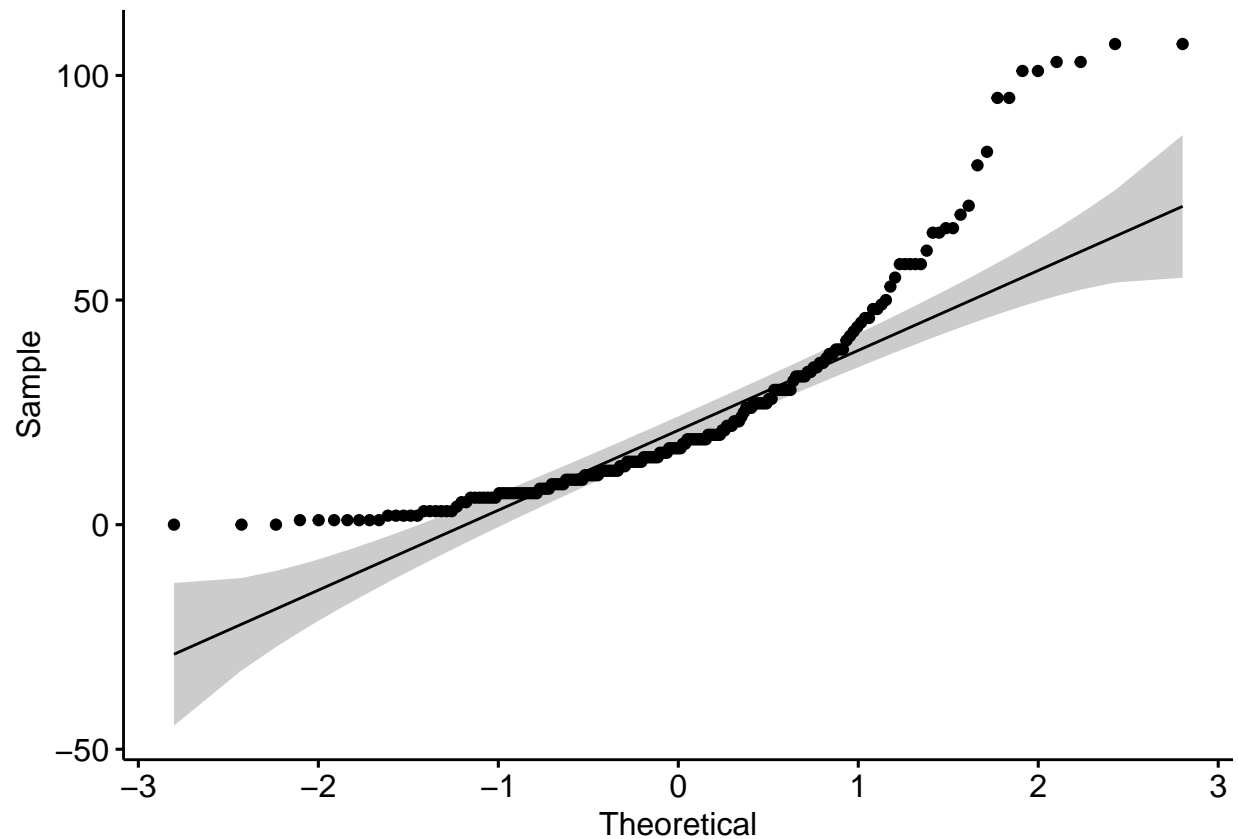


```
ggqqplot(synthetic_data$days_to_discharge)
```

```
## Warning: Removed 66 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 66 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 66 rows containing non-finite values (stat_qq_line).
```



not normal numeric variables:

`synthetic_data$bmi` `synthetic_data$atao2` `synthetic_data$lactate_peak` `synthetic_data$total_bilirubin_peak` `synthetic_data$hospital_los`

If a numeric variable does not have a normal distribution, you may log transform it and re-evaluate the distribuion:

#log transformation:

```
synthetic_data$bmi_log = log(synthetic_data$bmi)
```

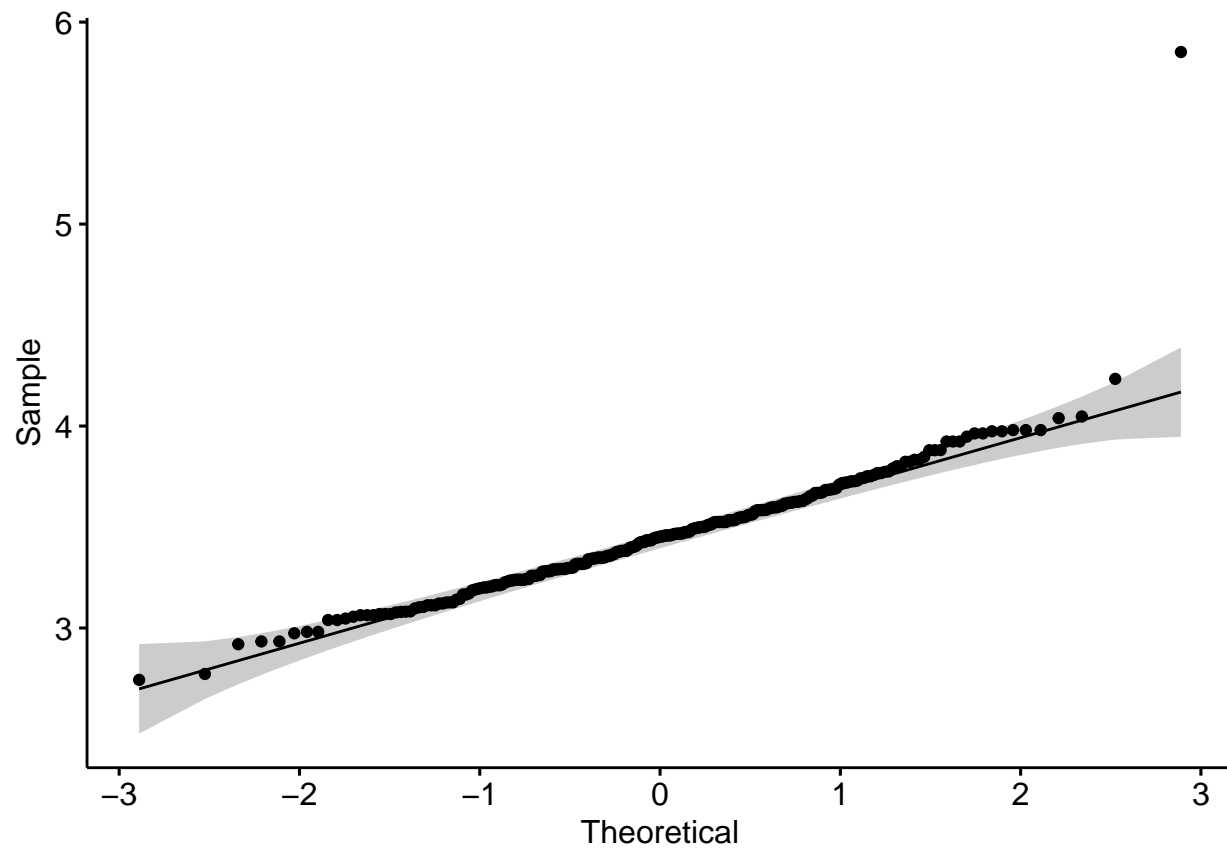
#graph to evaluate normality

```
ggqqplot(synthetic_data$bmi_log)
```

```
## Warning: Removed 4 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 4 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 4 rows containing non-finite values (stat_qq_line).
```

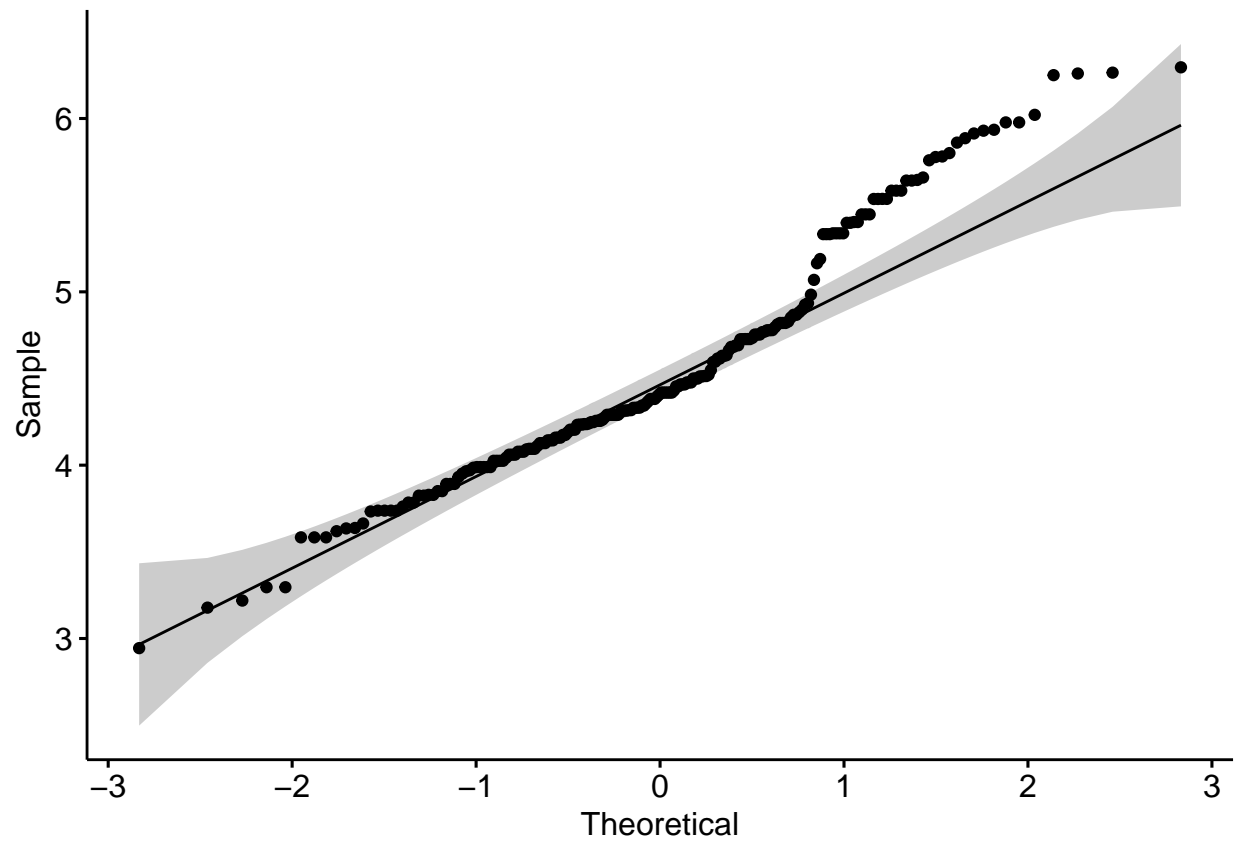


```
synthetic_data$o2_log = log(synthetic_data$o2)
ggqqplot(synthetic_data$o2_log)
```

```
## Warning: Removed 47 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 47 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 47 rows containing non-finite values (stat_qq_line).
```

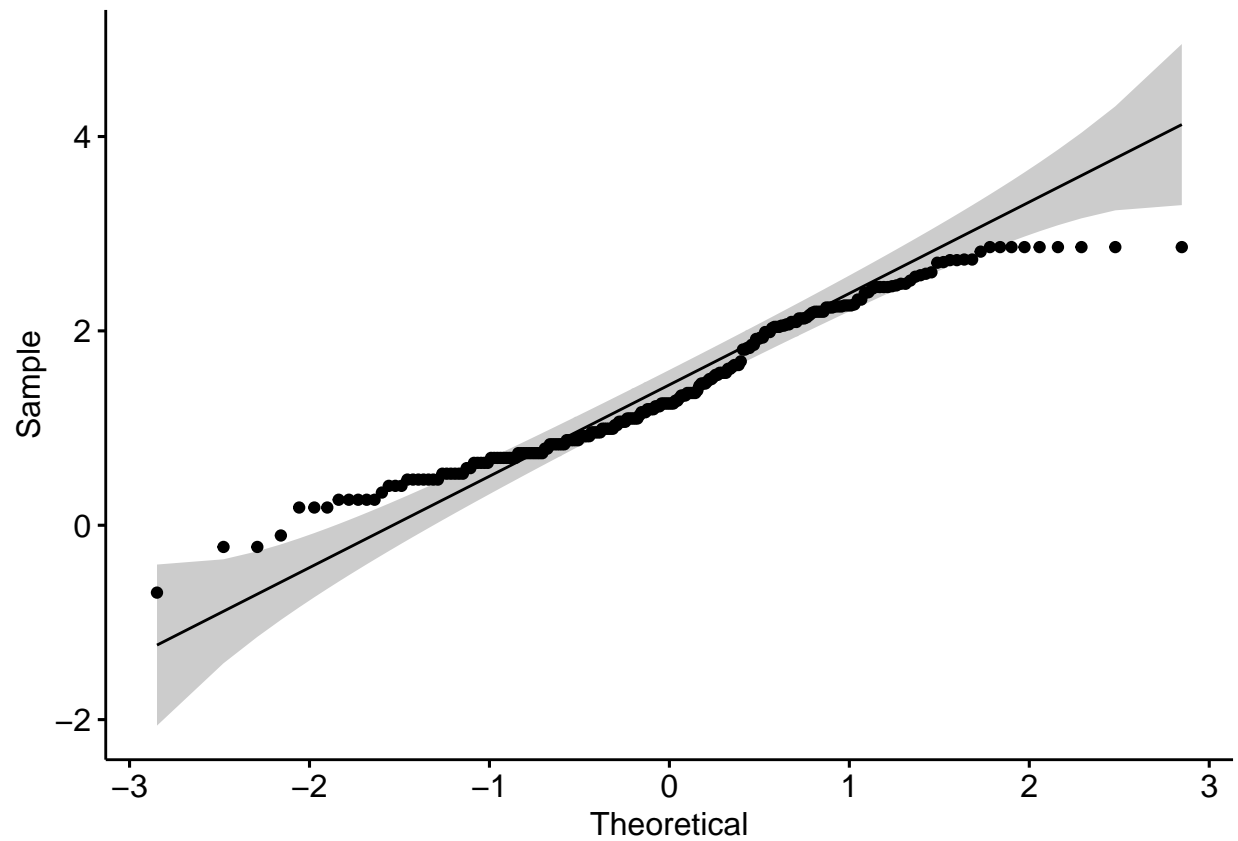


```
synthetic_data$lactate_peak_log = log(synthetic_data$lactate_peak)
ggqqplot(synthetic_data$lactate_peak_log)
```

```
## Warning: Removed 36 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 36 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 36 rows containing non-finite values (stat_qq_line).
```

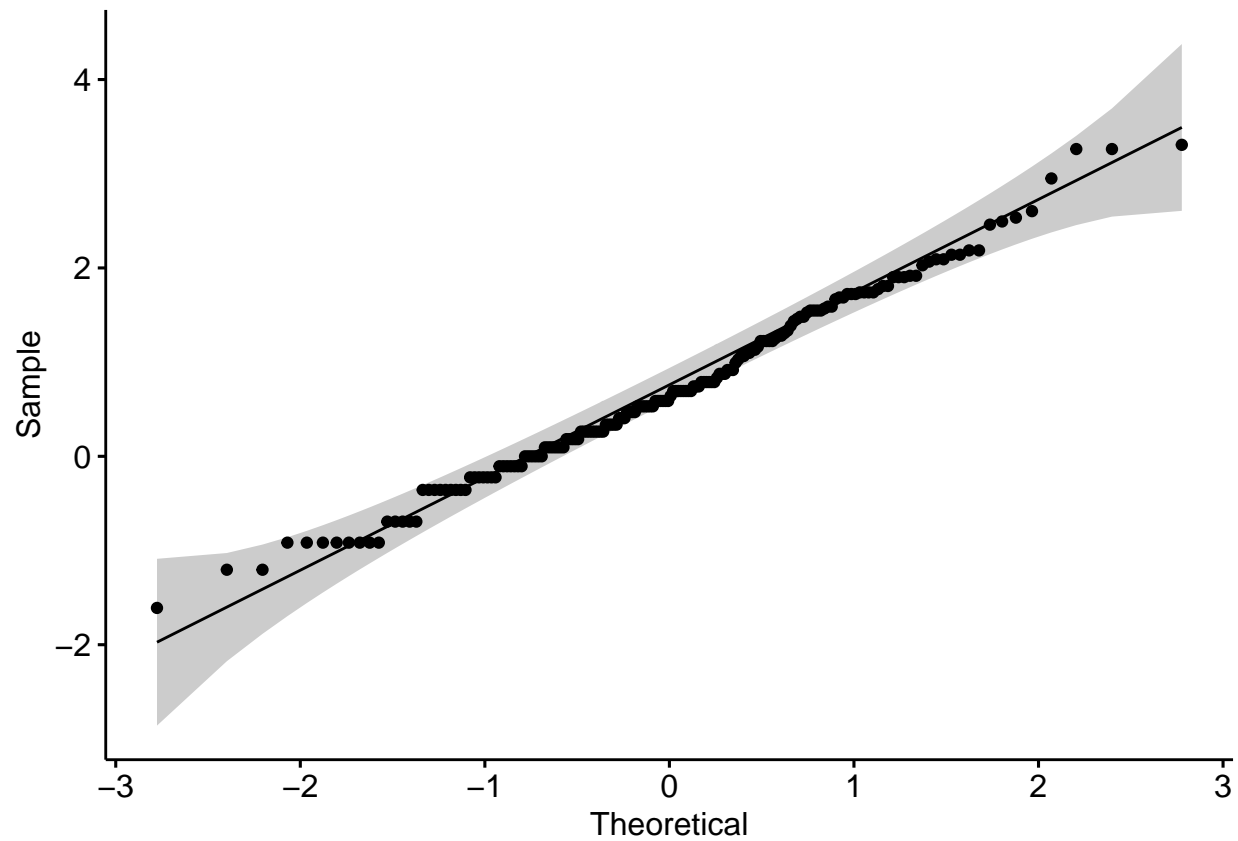



```
synthetic_data$total_bilirubin_peak_log = log(synthetic_data$total_bilirubin_peak)
ggqqplot(synthetic_data$total_bilirubin_peak_log)
```

```
## Warning: Removed 81 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 81 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 81 rows containing non-finite values (stat_qq_line).
```

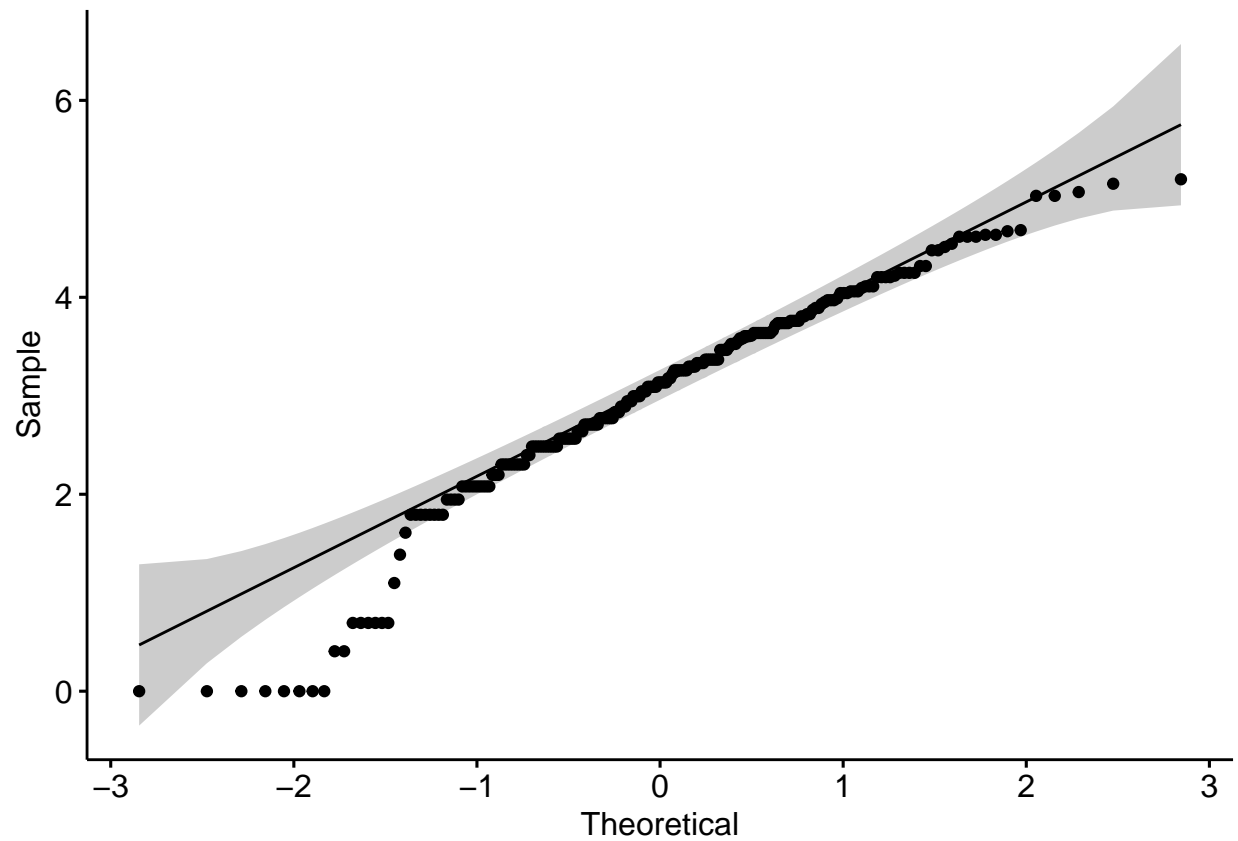


```
synthetic_data$hospital_los_log = log(synthetic_data$hospital_los)
ggqqplot(synthetic_data$hospital_los_log)
```

```
## Warning: Removed 38 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 38 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 38 rows containing non-finite values (stat_qq_line).
```

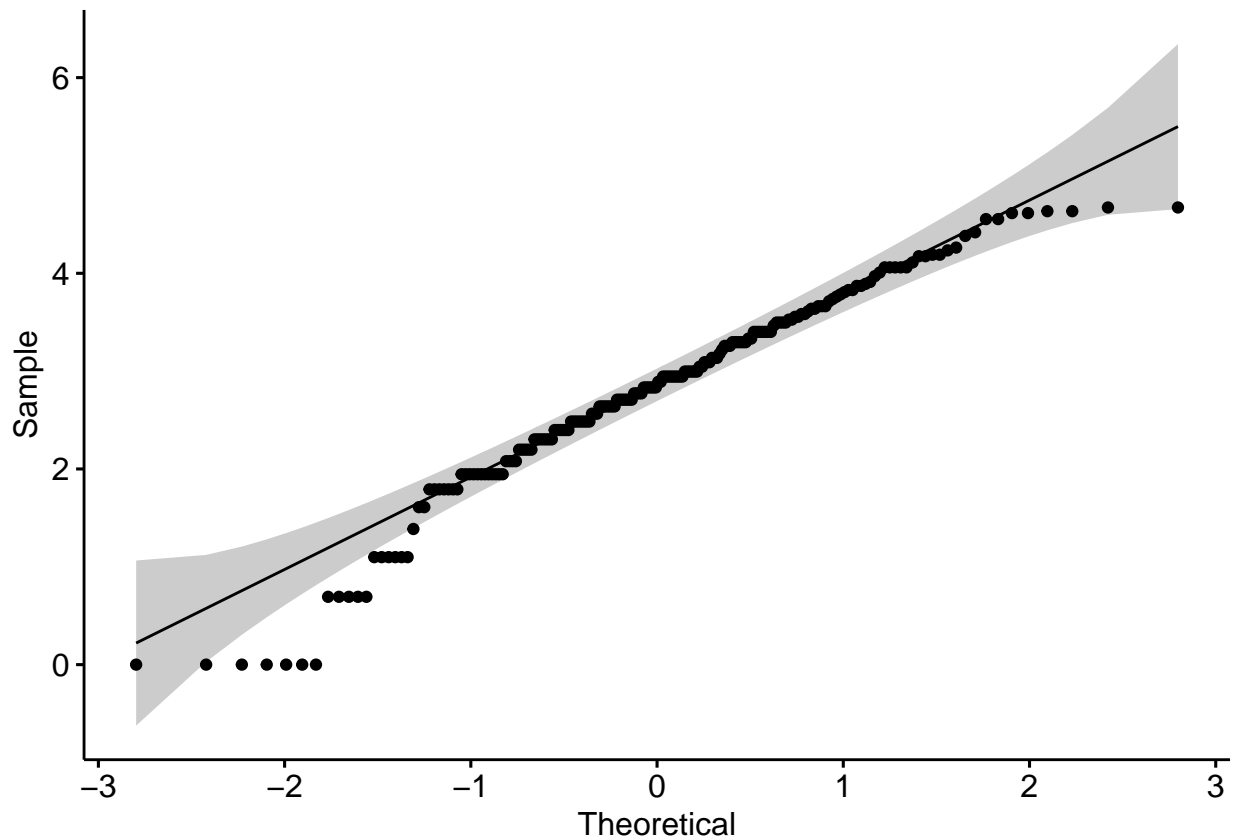


```
synthetic_data$days_to_discharge_log = log(synthetic_data$days_to_discharge)
ggqqplot(synthetic_data$days_to_discharge_log)
```

```
## Warning: Removed 69 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 69 rows containing non-finite values (stat_qq_line).
```

```
## Warning: Removed 69 rows containing non-finite values (stat_qq_line).
```



Bonus challenge: Convert dataframe to tibble:

```
synthetic_data <- as.tbl(synthetic_data)
```

```
## Warning: 'as.tbl()' was deprecated in dplyr 1.0.0.
## Please use 'tibble::as_tibble()' instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was generated.
```

```
example_lab_data <- as.tbl(example_lab_data)
```

To link the example_lab_data with synthetic_data i decide that is not well done calculate the mean of the values, because there are taken on too many different times, and some values are not even near to each other, so I decide to link it by the year and month and patient_id

#Create a column "month" and "year" for synthetic data:

```
#synthetic_data <- synthetic_data %>%
# add_column(month_admission = month(as.POSIXlt(synthetic_data$admission_date, #format="%d/%m/%Y")))

#synthetic_data <- synthetic_data[,!names(synthetic_data) %in% c("year_admission ", "month_admission", "

synthetic_data$month_discharge = month(as.POSIXlt(synthetic_data$discharge_date, format="%d/%m/%Y"))
synthetic_data$month_admission = month(as.POSIXlt(synthetic_data$admission_date, format="%d/%m/%Y"))
```

```
synthetic_data$year_admission = year(as.POSIXlt(synthetic_data$admission_date, format="%d/%m/%Y"))
synthetic_data$year_discharge = year(as.POSIXlt(synthetic_data$discharge_date, format="%d/%m/%Y"))
```

#Create a column “year” and “month” for example_lab_data:

```
example_lab_data$month = month(as.POSIXlt(example_lab_data$date, format="%d/%m/%Y"))
example_lab_data$year = year(as.POSIXlt(example_lab_data$date, format="%d/%m/%Y"))
```

#cchange format for example_lab_data from long to wide:

```
example_lab_data_wide <- pivot_wider(
  example_lab_data,
  id_cols = NULL,
  id_expand = FALSE,
  names_from = lab_exam,
  values_from = result)
print(example_lab_data_wide)
```

```
## # A tibble: 480 x 10
##   patient_id date          month year Hematocrit Cholesterol CRP
##   <chr>      <dtm>          <dbl> <dbl>      <dbl>      <dbl> <dbl>
## 1 cCnBeL4FBu 2021-03-09 00:00:00      3  2021      0.347      NA      NA
## 2 Xl5d5UcCYD 2021-02-03 00:00:00      2  2021      NA          0.376  NA
## 3 oa74Ed90gm 2020-03-05 00:00:00      3  2020      NA          NA      0.886
## 4 rPjBoa86kB 2021-04-20 00:00:00      4  2021      NA          NA      NA
## 5 uD0NxQpQ5F 2020-11-01 00:00:00     11  2020      NA          NA      NA
## 6 3pZ2TqnNyn 2021-02-24 00:00:00      2  2021      NA          NA      NA
## 7 vlb0gzZhmX 2021-07-25 00:00:00      7  2021      0.510      NA      NA
## 8 XLquXLGSRi 2020-05-22 00:00:00      5  2020      NA          0.569  NA
## 9 argAUZmnvn 2021-11-28 00:00:00     11  2021      NA          NA      0.692
## 10 zRlHFeTD3y 2020-10-04 00:00:00     10  2020      NA          NA      NA
## # ... with 470 more rows, and 3 more variables: Platelets <dbl>, Glucose <dbl>,
## #   Lymphocytes <dbl>
```

Left join synthetic_data with example_lab_data_wide:

#This join able to concate all the data, for extract coherent data for the time that the patient was on the hospital, could be based on admission_date or discharge_date:

```
linkdataset <- merge(x = synthetic_data, y = example_lab_data_wide, by = "patient_id")
```

#to obtained coherent lab_exam values, gonna choose those lab exam who was made the year when the patient was on the hospital and drop the others.

```
linkdataset_year <- subset(linkdataset, linkdataset$year.y == linkdataset$year_admission)
```

#And with linkdataset_year, gonna choose those patient_id where the month of the lab exam was taken between the months of the patients on the hospital, it means between the month of admission or discharge, that because is is not coherent take information about the lab exams about the patient where they was not on the hospital, conditions of the patient could change between months and years, some values are too far

from each other to make an average. This is an small dataset, but this information is enough trusted to realize if those lab exams results have relationship with the output variable of the model, on other way, we can take the large dataset without this lab exams, but after check correlation between the variables:

```
linkdataset_month <- subset(linkdataset_year, linkdataset$month >= linkdataset$month_admission & linkda

linkdataset_month <- subset(linkdataset_year, linkdataset_year$month >= linkdataset_year$month_admission

linkdataset_month
```

| ## | patient_id | age | sex | race | weight_kg | height_cm | bmi | | |
|--------|-------------------|-----|-----|-----------|--------------|-----------|----------|------|------|
| ## 1 | 21lPc1NASV | 74 | M | White | 114.8 | 195.60 | 22.80852 | | |
| ## 46 | 6GhDk8AVNM | 41 | M | White | 103.4 | 180.30 | 35.31250 | | |
| ## 51 | 76nhLlQkv2 | 45 | M | White | 98.4 | 183.00 | 33.95201 | | |
| ## 63 | 7VN31dBvd0 | 29 | F | White | 95.3 | 152.00 | NA | | |
| ## 77 | 9RJXcM3JN2 | 23 | M | White | 104.8 | 154.90 | 28.75295 | | |
| ## 79 | 9RJXcM3JN2 | 23 | M | White | 104.8 | 154.90 | 28.75295 | | |
| ## 87 | aCmgyoBDAU | 61 | M | White | 99.9 | 182.90 | 23.20312 | | |
| ## 103 | ATxZLWCuMl | 46 | F | White | 96.1 | 188.00 | 31.00000 | | |
| ## 117 | cCnBeL4FBu | 67 | M | White | 107.0 | 189.00 | 23.84620 | | |
| ## 120 | cCnBeL4FBu | 67 | M | White | 107.0 | 189.00 | 23.84620 | | |
| ## 149 | ds8kizHdyF | 55 | M | White | 126.1 | 170.20 | 42.14943 | | |
| ## 152 | ds8kizHdyF | 55 | M | White | 126.1 | 170.20 | 42.14943 | | |
| ## 164 | ENTDqRsfvq | 35 | M | Black | 72.0 | 177.80 | 35.80000 | | |
| ## 180 | f9AMZU1NJL | 61 | M | White | 141.0 | 168.00 | 29.30000 | | |
| ## 218 | iwp8UUS8du | 53 | M | White | 98.9 | 167.60 | 44.74000 | | |
| ## 226 | Kfx0Ql50T8 | 55 | M | White | 79.8 | 162.60 | 41.16000 | | |
| ## 239 | krAuOxufm0 | 78 | M | White | 120.0 | 170.00 | 46.20000 | | |
| ## 249 | lgwsTbQ9bX | 46 | F | White | 72.0 | 180.00 | 22.48000 | | |
| ## 252 | lgwsTbQ9bX | 46 | F | White | 72.0 | 180.00 | 22.48000 | | |
| ## 260 | mcVVFH0KEn | 47 | F | White | 105.0 | 185.40 | 46.87297 | | |
| ## 262 | nDyA0tpdsa | 71 | M | White | NA | 182.90 | 37.68000 | | |
| ## 268 | nY6IQYyUNJ | 30 | F | White | 110.0 | 160.54 | 48.44000 | | |
| ## 277 | OGY8WsxqAd | 29 | M | Hispanic | 82.4 | 167.00 | 18.79425 | | |
| ## 284 | owdrTVqd26 | 53 | M | White | 95.7 | 162.60 | 53.20000 | | |
| ## 301 | q6danf6ZhC | 57 | F | White | 91.7 | 170.20 | 21.53000 | | |
| ## 324 | RLIZJgcVd8 | 64 | M | White | 69.4 | 180.00 | 32.03000 | | |
| ## 331 | RPKFkP3mF7 | 59 | M | White | 118.6 | 184.00 | 45.75000 | | |
| ## 333 | RUJwKyHR6 | 17 | M | White | 115.3 | 162.60 | 38.71000 | | |
| ## 343 | sdezrCNI9N | 63 | M | Hispanic | 122.0 | 188.00 | 29.22000 | | |
| ## 357 | SzCWauSPpe | 52 | M | White | 112.4 | 177.80 | 26.84000 | | |
| ## 365 | U5z4u340s9 | 28 | F | White | 104.0 | 160.00 | 37.33000 | | |
| ## 376 | ug7L5EgQ8i | 60 | F | Hispanic | 79.0 | 175.00 | 21.78000 | | |
| ## 418 | WpXIJg30L2 | 27 | M | White | 114.8 | 172.70 | 31.88000 | | |
| ## 428 | xH3pHj8yG1 | 41 | M | Black | 128.0 | 188.00 | 23.11000 | | |
| ## 439 | Xl5d5UcCYD | 23 | M | White | 87.9 | 162.00 | 34.25000 | | |
| ## 460 | YhxGHvKVR | 29 | M | White | 103.0 | 171.50 | 31.77671 | | |
| ## 465 | zDfCEn0BQv | 60 | F | White | 153.0 | 185.40 | 26.89000 | | |
| ## 469 | zEn8g076bg | 80 | F | Black | 79.0 | 190.50 | 45.75000 | | |
| ## 478 | ZVLZ1Cpyfh | 62 | F | White | 95.7 | 165.10 | 34.69136 | | |
| ## | | | | diagnosis | reintubation | trached | ph | co2 | o2 |
| ## 1 | | | | COVID-19 | <NA> | FALSE | NA | NA | 54.0 |
| ## 46 | Cardiovascular | | | condition | FALSE | TRUE | NA | 48.0 | 58.0 |
| ## 51 | Other respiratory | | | condition | <NA> | FALSE | 7.12 | 48.0 | 82.0 |

| | | | | | | |
|--------|--|-------|-------|------|-----------------|--------|
| ## 63 | Cardiovascular condition | FALSE | TRUE | NA | 45.0 | 80.0 |
| ## 77 | Other | FALSE | FALSE | 7.34 | 44.3 | NA |
| ## 79 | Other | FALSE | FALSE | 7.34 | 44.3 | NA |
| ## 87 | Other respiratory infection | <NA> | TRUE | 7.21 | 56.3 | 94.5 |
| ## 103 | Cardiovascular condition | FALSE | FALSE | NA | 43.0 | 412.0 |
| ## 117 | COVID-19 | FALSE | FALSE | 7.30 | 43.0 | 63.0 |
| ## 120 | COVID-19 | FALSE | FALSE | 7.30 | 43.0 | 63.0 |
| ## 149 | Other | FALSE | FALSE | 6.95 | NA | 36.0 |
| ## 152 | Other | FALSE | FALSE | 6.95 | NA | 36.0 |
| ## 164 | Cardiovascular condition | TRUE | TRUE | 6.95 | NA | 76.0 |
| ## 180 | Cardiovascular condition | FALSE | TRUE | 7.47 | 59.0 | 44.0 |
| ## 218 | Other respiratory condition | FALSE | TRUE | 7.27 | NA | 232.0 |
| ## 226 | Cardiovascular condition | FALSE | FALSE | 7.43 | 61.0 | 253.6 |
| ## 239 | Cardiovascular condition | FALSE | FALSE | 7.23 | 54.0 | NA |
| ## 249 | Other respiratory condition | <NA> | FALSE | 7.42 | 60.0 | NA |
| ## 252 | Other respiratory condition | <NA> | FALSE | 7.42 | 60.0 | NA |
| ## 260 | Other respiratory infection | <NA> | TRUE | 7.30 | 53.0 | 124.0 |
| ## 262 | <NA> | <NA> | FALSE | 7.45 | 47.3 | NA |
| ## 268 | Cardiovascular condition | <NA> | <NA> | 7.33 | 57.0 | 56.0 |
| ## 277 | Cardiovascular condition | <NA> | <NA> | 7.42 | NA | NA |
| ## 284 | Cardiovascular condition | FALSE | FALSE | NA | 56.3 | 88.0 |
| ## 301 | Other respiratory condition | FALSE | FALSE | 7.24 | 75.0 | 64.0 |
| ## 324 | Cardiovascular condition | <NA> | FALSE | 7.42 | 41.9 | 175.0 |
| ## 331 | Other respiratory condition | <NA> | <NA> | 7.12 | 60.0 | 102.6 |
| ## 333 | COVID-19 | FALSE | TRUE | 7.40 | 30.0 | 47.0 |
| ## 343 | Other respiratory condition | <NA> | TRUE | NA | 91.0 | 80.0 |
| ## 357 | Cardiovascular condition | <NA> | TRUE | 7.48 | 39.0 | 41.8 |
| ## 365 | Other respiratory condition | FALSE | TRUE | 7.24 | 44.0 | 69.2 |
| ## 376 | COVID-19 | <NA> | FALSE | 7.20 | 50.7 | 27.0 |
| ## 418 | Other respiratory infection | FALSE | FALSE | 7.21 | 61.0 | 52.0 |
| ## 428 | Other | FALSE | FALSE | NA | 128.0 | NA |
| ## 439 | Other respiratory condition | <NA> | FALSE | 7.33 | 40.0 | 282.0 |
| ## 460 | Cardiovascular condition | <NA> | <NA> | NA | 57.0 | 119.0 |
| ## 465 | COVID-19 | <NA> | TRUE | 7.39 | 22.0 | 91.1 |
| ## 469 | COVID-19 | FALSE | FALSE | 7.41 | 48.0 | 86.0 |
| ## 478 | COVID-19 | FALSE | <NA> | NA | NA | 101.0 |
| ## | lactate_peak creatinine_peak total_bilirubin_peak mechanical_vent_days | | | | | |
| ## 1 | 2.1 | NA | 4.7 | | | <NA> |
| ## 46 | 1.2 | 2.87 | 0.8 | | 12h - 24h | |
| ## 51 | 1.6 | NA | 2.0 | | | <NA> |
| ## 63 | 2.0 | 1.27 | 1.7 | | | <= 12h |
| ## 77 | NA | 3.34 | 1.0 | | 2 days - 7 days | |
| ## 79 | NA | 3.34 | 1.0 | | 2 days - 7 days | |
| ## 87 | 10.2 | NA | 1.8 | | 2 days - 7 days | |
| ## 103 | 15.3 | 1.67 | 8.1 | | 12h - 24h | |
| ## 117 | 3.6 | 2.70 | 1.6 | | | <NA> |
| ## 120 | 3.6 | 2.70 | 1.6 | | | <NA> |
| ## 149 | 8.5 | 2.91 | 5.4 | | 12h - 24h | |
| ## 152 | 8.5 | 2.91 | 5.4 | | 12h - 24h | |
| ## 164 | 3.0 | NA | 1.7 | | 2 days - 7 days | |
| ## 180 | 2.1 | 1.39 | 2.0 | | 12h - 24h | |
| ## 218 | 2.3 | 0.95 | 26.1 | | | <= 12h |
| ## 226 | 2.7 | NA | 1.4 | | 12h - 24h | |
| ## 239 | 17.5 | 2.30 | 2.8 | | 12h - 24h | |

| | | | | |
|--------|-------------------------------|---------------------|--------------|-----------------|
| ## 249 | 2.3 | 2.88 | 0.8 | 12h - 24h |
| ## 252 | 2.3 | 2.88 | 0.8 | 12h - 24h |
| ## 260 | 8.4 | NA | NA | <NA> |
| ## 262 | NA | 2.97 | NA | 2 days - 7 days |
| ## 268 | NA | 1.57 | 0.3 | <= 12h |
| ## 277 | 3.4 | NA | 8.5 | <= 12h |
| ## 284 | NA | NA | 1.4 | <NA> |
| ## 301 | 1.4 | 2.23 | 0.5 | 12h - 24h |
| ## 324 | 11.4 | 0.90 | 12.1 | 12h - 24h |
| ## 331 | 2.4 | 5.10 | 1.8 | <= 12h |
| ## 333 | 1.3 | 0.83 | 2.2 | 2 days - 7 days |
| ## 343 | 3.8 | 0.62 | 4.9 | 12h - 24h |
| ## 357 | 4.0 | 1.90 | 6.7 | <= 12h |
| ## 365 | 2.6 | NA | 3.4 | <= 12h |
| ## 376 | 3.3 | NA | 1.3 | 12h - 24h |
| ## 418 | 10.9 | 1.67 | NA | <= 12h |
| ## 428 | 2.6 | 1.08 | 2.4 | 12h - 24h |
| ## 439 | 13.1 | 0.64 | 0.4 | <= 12h |
| ## 460 | 3.0 | NA | 1.7 | <NA> |
| ## 465 | 17.5 | 1.67 | NA | <NA> |
| ## 469 | 4.6 | 0.81 | NA | <= 12h |
| ## 478 | 1.8 | NA | 5.6 | <NA> |
| ## | systemic_anticoagulation_type | acute_kidney_injury | hospital_los | |
| ## 1 | | <NA> | TRUE | 2.0 |
| ## 46 | Heparin only | | TRUE | 45.0 |
| ## 51 | Heparin only | | TRUE | 6.0 |
| ## 63 | No anticoagulant | | FALSE | 28.0 |
| ## 77 | Heparin only | | FALSE | 34.0 |
| ## 79 | Heparin only | | FALSE | 34.0 |
| ## 87 | Heparin only | | TRUE | NA |
| ## 103 | Bivalirudin only | | <NA> | 26.0 |
| ## 117 | Heparin only | | FALSE | 94.0 |
| ## 120 | Heparin only | | FALSE | 94.0 |
| ## 149 | Bivalirudin only | | FALSE | 36.8 |
| ## 152 | Bivalirudin only | | FALSE | 36.8 |
| ## 164 | Heparin only | | TRUE | 13.0 |
| ## 180 | Heparin only | | FALSE | 1.5 |
| ## 218 | Heparin only | | TRUE | 70.0 |
| ## 226 | Heparin only | | FALSE | 6.0 |
| ## 239 | Heparin only | | TRUE | 16.0 |
| ## 249 | Bivalirudin only | | TRUE | 37.0 |
| ## 252 | Bivalirudin only | | TRUE | 37.0 |
| ## 260 | Bivalirudin only | | FALSE | 36.0 |
| ## 262 | No anticoagulant | | FALSE | 20.0 |
| ## 268 | Bivalirudin only | | TRUE | 32.0 |
| ## 277 | | <NA> | TRUE | 15.0 |
| ## 284 | Heparin only | | FALSE | 103.0 |
| ## 301 | No anticoagulant | | TRUE | 38.0 |
| ## 324 | Heparin only | | FALSE | 1.0 |
| ## 331 | Heparin only | | FALSE | NA |
| ## 333 | Heparin only | | TRUE | 17.0 |
| ## 343 | Heparin only | | TRUE | NA |
| ## 357 | | <NA> | FALSE | 7.0 |
| ## 365 | Heparin only | | TRUE | 88.0 |

| | | | | | | | |
|--------|--------------------|-------------------|----------------|----------------|------------|----------|----------|
| ## 376 | | <NA> | | FALSE | 57.0 | | |
| ## 418 | Bivalirudin only | | | TRUE | 23.0 | | |
| ## 428 | Heparin only | | | FALSE | 42.0 | | |
| ## 439 | Bivalirudin only | | | TRUE | 36.8 | | |
| ## 460 | Heparin only | | | FALSE | NA | | |
| ## 465 | Heparin only | | | FALSE | 6.0 | | |
| ## 469 | Heparin only | | | FALSE | 2.0 | | |
| ## 478 | Heparin only | | | FALSE | 101.0 | | |
| ## | discharge_location | steroids | infection | support_type | transfer | covid | pregnant |
| ## 1 | Death | <NA> | Other | <NA> | FALSE | TRUE | <NA> |
| ## 46 | Home | No | SARS CoV19 | <NA> | FALSE | FALSE | <NA> |
| ## 51 | Home | Yes | SARS CoV19 | <NA> | FALSE | TRUE | <NA> |
| ## 63 | Home | Yes | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 77 | Home | <NA> | SARS CoV19 | <NA> | FALSE | TRUE | <NA> |
| ## 79 | Home | <NA> | SARS CoV19 | <NA> | FALSE | TRUE | <NA> |
| ## 87 | Home | No | Other | <NA> | FALSE | FALSE | <NA> |
| ## 103 | Death | <NA> | Other | <NA> | FALSE | FALSE | <NA> |
| ## 117 | Death | <NA> | SARS CoV19 | Cardiac | FALSE | FALSE | <NA> |
| ## 120 | Death | <NA> | SARS CoV19 | Cardiac | FALSE | FALSE | <NA> |
| ## 149 | Home | <NA> | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 152 | Home | <NA> | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 164 | Home | Yes | SARS CoV19 | <NA> | FALSE | FALSE | <NA> |
| ## 180 | Home | No | <NA> | <NA> | FALSE | TRUE | <NA> |
| ## 218 | Home | No | SARS CoV19 | <NA> | FALSE | FALSE | <NA> |
| ## 226 | <NA> | No | Other | Pulmonary | FALSE | TRUE | <NA> |
| ## 239 | Home | <NA> | <NA> | Cardiac | FALSE | FALSE | <NA> |
| ## 249 | LTAC/rehab | Yes | Other | <NA> | FALSE | TRUE | <NA> |
| ## 252 | LTAC/rehab | Yes | Other | <NA> | FALSE | TRUE | <NA> |
| ## 260 | Home | <NA> | Other | Cardiac | FALSE | FALSE | <NA> |
| ## 262 | <NA> | Yes | <NA> | ECPR | FALSE | FALSE | <NA> |
| ## 268 | <NA> | Yes | SARS CoV19 | <NA> | FALSE | FALSE | <NA> |
| ## 277 | Death | <NA> | Other | Cardiac | FALSE | FALSE | <NA> |
| ## 284 | Home | Yes | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 301 | Home | <NA> | <NA> | ECPR | TRUE | FALSE | <NA> |
| ## 324 | LTAC/rehab | No | <NA> | <NA> | FALSE | TRUE | <NA> |
| ## 331 | Death | Yes | Other | <NA> | FALSE | FALSE | <NA> |
| ## 333 | Death | Yes | <NA> | <NA> | TRUE | FALSE | <NA> |
| ## 343 | LTAC/rehab | <NA> | <NA> | <NA> | FALSE | TRUE | <NA> |
| ## 357 | Home | No | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 365 | <NA> | Yes | <NA> | Cardiac | FALSE | FALSE | <NA> |
| ## 376 | Home | No | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 418 | Other | <NA> | <NA> | <NA> | FALSE | FALSE | <NA> |
| ## 428 | Death | No | SARS CoV19 | <NA> | FALSE | TRUE | <NA> |
| ## 439 | <NA> | <NA> | <NA> | <NA> | FALSE | TRUE | <NA> |
| ## 460 | Home | <NA> | SARS CoV19 | <NA> | FALSE | FALSE | <NA> |
| ## 465 | <NA> | <NA> | Other | <NA> | FALSE | FALSE | <NA> |
| ## 469 | Death | <NA> | <NA> | <NA> | FALSE | TRUE | <NA> |
| ## 478 | Home | <NA> | Other | Cardiac | FALSE | FALSE | <NA> |
| ## | year.x | days_to_discharge | admission_date | discharge_date | death_date | bmi_log | |
| ## 1 | 2019 | 19 | 2021-10-22 | 2021-11-06 | <NA> | 3.127134 | |
| ## 46 | 2020 | 14 | 2020-01-20 | 2020-02-07 | <NA> | 3.564237 | |
| ## 51 | 2021 | 7 | 2020-09-28 | 2020-10-26 | <NA> | 3.524948 | |
| ## 63 | 2018 | 3 | 2020-09-11 | 2020-10-08 | <NA> | NA | |
| ## 77 | 2020 | NA | 2020-05-10 | 2020-05-31 | <NA> | 3.358740 | |

| | | | | | | | |
|----|---|----------|-----------|------------|------------|------------|----------|
| ## | 79 | 2020 | NA | 2020-05-10 | 2020-05-31 | <NA> | 3.358740 |
| ## | 87 | 2020 | NA | 2020-07-13 | 2020-07-23 | <NA> | 3.144287 |
| ## | 103 | 2019 | 4 | 2021-01-15 | 2021-02-28 | 2021-02-28 | 3.433987 |
| ## | 117 | 2020 | NA | 2020-02-28 | 2020-04-09 | <NA> | 3.171625 |
| ## | 120 | 2020 | NA | 2020-02-28 | 2020-04-09 | <NA> | 3.171625 |
| ## | 149 | 2019 | 9 | 2020-02-06 | 2020-03-16 | <NA> | 3.741221 |
| ## | 152 | 2019 | 9 | 2020-02-06 | 2020-03-16 | <NA> | 3.741221 |
| ## | 164 | 2020 | 16 | 2021-10-20 | 2021-12-06 | <NA> | 3.577948 |
| ## | 180 | 2019 | 58 | 2021-07-21 | 2021-08-18 | <NA> | 3.377588 |
| ## | 218 | 2021 | 11 | 2021-05-30 | 2021-06-20 | <NA> | 3.800868 |
| ## | 226 | 2020 | 19 | 2020-07-25 | 2020-07-29 | 2020-07-29 | 3.717467 |
| ## | 239 | 2019 | NA | 2021-06-10 | 2021-07-28 | 2021-07-28 | 3.832980 |
| ## | 249 | 2019 | 12 | 2020-02-08 | 2020-03-18 | <NA> | 3.112626 |
| ## | 252 | 2019 | 12 | 2020-02-08 | 2020-03-18 | <NA> | 3.112626 |
| ## | 260 | 2018 | 20 | 2020-08-12 | 2020-09-07 | <NA> | 3.847441 |
| ## | 262 | 2018 | 12 | 2020-05-08 | 2020-06-27 | <NA> | 3.629129 |
| ## | 268 | 2021 | 6 | 2020-01-04 | 2020-02-23 | <NA> | 3.880326 |
| ## | 277 | 2019 | NA | 2021-05-28 | 2021-07-02 | 2021-07-02 | 2.933551 |
| ## | 284 | 2020 | 8 | 2020-02-04 | 2020-02-18 | <NA> | 3.974058 |
| ## | 301 | 2018 | 83 | 2020-01-13 | 2020-02-05 | <NA> | 3.069447 |
| ## | 324 | 2022 | 58 | 2020-08-18 | 2020-09-20 | <NA> | 3.466673 |
| ## | 331 | 2020 | 39 | 2020-11-18 | 2020-12-23 | <NA> | 3.823192 |
| ## | 333 | 2017 | 38 | 2020-06-21 | 2020-07-20 | <NA> | 3.656098 |
| ## | 343 | 2021 | 1 | 2020-01-06 | 2020-02-17 | <NA> | 3.374853 |
| ## | 357 | 2020 | NA | 2020-07-22 | 2020-08-22 | 2020-08-22 | 3.289893 |
| ## | 365 | 2020 | 66 | 2020-05-15 | 2020-05-30 | <NA> | 3.619797 |
| ## | 376 | 2020 | 43 | 2021-09-19 | 2021-10-25 | <NA> | 3.080992 |
| ## | 418 | 2018 | NA | 2020-06-06 | 2020-06-07 | 2020-06-07 | 3.461979 |
| ## | 428 | 2020 | 18 | 2021-02-05 | 2021-03-16 | <NA> | 3.140265 |
| ## | 439 | 2020 | 2 | 2020-04-26 | 2020-06-09 | <NA> | 3.533687 |
| ## | 460 | 2021 | 19 | 2021-08-16 | 2021-08-24 | <NA> | 3.458733 |
| ## | 465 | 2022 | 53 | 2020-03-23 | 2020-04-18 | 2020-04-18 | 3.291754 |
| ## | 469 | 2018 | 30 | 2021-11-14 | 2021-12-04 | <NA> | 3.823192 |
| ## | 478 | 2019 | 2 | 2020-11-30 | 2020-12-26 | <NA> | 3.546491 |
| ## | o2_log lactate_peak_log total_bilirubin_peak_log hospital_los_log | | | | | | |
| ## | 1 | 3.988984 | 0.7419373 | 1.5475625 | 0.6931472 | | |
| ## | 46 | 4.060443 | 0.1823216 | -0.2231436 | 3.8066625 | | |
| ## | 51 | 4.406719 | 0.4700036 | 0.6931472 | 1.7917595 | | |
| ## | 63 | 4.382027 | 0.6931472 | 0.5306283 | 3.3322045 | | |
| ## | 77 | NA | NA | 0.0000000 | 3.5263605 | | |
| ## | 79 | NA | NA | 0.0000000 | 3.5263605 | | |
| ## | 87 | 4.548600 | 2.3223877 | 0.5877867 | NA | | |
| ## | 103 | 6.021023 | 2.7278528 | 2.0918641 | 3.2580965 | | |
| ## | 117 | 4.143135 | 1.2809338 | 0.4700036 | 4.5432948 | | |
| ## | 120 | 4.143135 | 1.2809338 | 0.4700036 | 4.5432948 | | |
| ## | 149 | 3.583519 | 2.1400662 | 1.6863990 | 3.6054978 | | |
| ## | 152 | 3.583519 | 2.1400662 | 1.6863990 | 3.6054978 | | |
| ## | 164 | 4.330733 | 1.0986123 | 0.5306283 | 2.5649494 | | |
| ## | 180 | 3.784190 | 0.7419373 | 0.6931472 | 0.4054651 | | |
| ## | 218 | 5.446737 | 0.8329091 | 3.2619353 | 4.2484952 | | |
| ## | 226 | 5.535758 | 0.9932518 | 0.3364722 | 1.7917595 | | |
| ## | 239 | NA | 2.8622009 | 1.0296194 | 2.7725887 | | |
| ## | 249 | NA | 0.8329091 | -0.2231436 | 3.6109179 | | |
| ## | 252 | NA | 0.8329091 | -0.2231436 | 3.6109179 | | |

| | | | | |
|--------|-----------------------|-----------------|-----------------|----------------|
| ## 260 | 4.820282 | 2.1282317 | NA | 3.5835189 |
| ## 262 | NA | NA | NA | 2.9957323 |
| ## 268 | 4.025352 | NA | -1.2039728 | 3.4657359 |
| ## 277 | NA | 1.2237754 | 2.1400662 | 2.7080502 |
| ## 284 | 4.477337 | NA | 0.3364722 | 4.6347290 |
| ## 301 | 4.158883 | 0.3364722 | -0.6931472 | 3.6375862 |
| ## 324 | 5.164786 | 2.4336134 | 2.4932055 | 0.0000000 |
| ## 331 | 4.630838 | 0.8754687 | 0.5877867 | NA |
| ## 333 | 3.850148 | 0.2623643 | 0.7884574 | 2.8332133 |
| ## 343 | 4.382027 | 1.3350011 | 1.5892352 | NA |
| ## 357 | 3.732896 | 1.3862944 | 1.9021075 | 1.9459101 |
| ## 365 | 4.237001 | 0.9555114 | 1.2237754 | 4.4773368 |
| ## 376 | 3.295837 | 1.1939225 | 0.2623643 | 4.0430513 |
| ## 418 | 3.951244 | 2.3887628 | NA | 3.1354942 |
| ## 428 | NA | 0.9555114 | 0.8754687 | 3.7376696 |
| ## 439 | 5.641907 | 2.5726122 | -0.9162907 | 3.6054978 |
| ## 460 | 4.779123 | 1.0986123 | 0.5306283 | NA |
| ## 465 | 4.511958 | 2.8622009 | NA | 1.7917595 |
| ## 469 | 4.454347 | 1.5260563 | NA | 0.6931472 |
| ## 478 | 4.615121 | 0.5877867 | 1.7227666 | 4.6151205 |
| ## | days_to_discharge_log | month_discharge | month_admission | year_admission |
| ## 1 | 2.9444390 | 11 | 10 | 2021 |
| ## 46 | 2.6390573 | 2 | 1 | 2020 |
| ## 51 | 1.9459101 | 10 | 9 | 2020 |
| ## 63 | 1.0986123 | 10 | 9 | 2020 |
| ## 77 | NA | 5 | 5 | 2020 |
| ## 79 | NA | 5 | 5 | 2020 |
| ## 87 | NA | 7 | 7 | 2020 |
| ## 103 | 1.3862944 | 2 | 1 | 2021 |
| ## 117 | NA | 4 | 2 | 2020 |
| ## 120 | NA | 4 | 2 | 2020 |
| ## 149 | 2.1972246 | 3 | 2 | 2020 |
| ## 152 | 2.1972246 | 3 | 2 | 2020 |
| ## 164 | 2.7725887 | 12 | 10 | 2021 |
| ## 180 | 4.0604430 | 8 | 7 | 2021 |
| ## 218 | 2.3978953 | 6 | 5 | 2021 |
| ## 226 | 2.9444390 | 7 | 7 | 2020 |
| ## 239 | NA | 7 | 6 | 2021 |
| ## 249 | 2.4849066 | 3 | 2 | 2020 |
| ## 252 | 2.4849066 | 3 | 2 | 2020 |
| ## 260 | 2.9957323 | 9 | 8 | 2020 |
| ## 262 | 2.4849066 | 6 | 5 | 2020 |
| ## 268 | 1.7917595 | 2 | 1 | 2020 |
| ## 277 | NA | 7 | 5 | 2021 |
| ## 284 | 2.0794415 | 2 | 2 | 2020 |
| ## 301 | 4.4188406 | 2 | 1 | 2020 |
| ## 324 | 4.0604430 | 9 | 8 | 2020 |
| ## 331 | 3.6635616 | 12 | 11 | 2020 |
| ## 333 | 3.6375862 | 7 | 6 | 2020 |
| ## 343 | 0.0000000 | 2 | 1 | 2020 |
| ## 357 | NA | 8 | 7 | 2020 |
| ## 365 | 4.1896547 | 5 | 5 | 2020 |
| ## 376 | 3.7612001 | 10 | 9 | 2021 |
| ## 418 | NA | 6 | 6 | 2020 |

| | | | | | | | |
|--------|----------------|------------|-------------|--------|------------|-------------|-----------|
| ## 428 | 2.8903718 | | 3 | | 2 | 2021 | |
| ## 439 | 0.6931472 | | 6 | | 4 | 2020 | |
| ## 460 | 2.9444390 | | 8 | | 8 | 2021 | |
| ## 465 | 3.9702919 | | 4 | | 3 | 2020 | |
| ## 469 | 3.4011974 | | 12 | | 11 | 2021 | |
| ## 478 | 0.6931472 | | 12 | | 11 | 2020 | |
| ## | year_discharge | date | month | year.y | Hematocrit | Cholesterol | CRP |
| ## 1 | 2021 | 2021-10-12 | 10 | 2021 | NA | NA | NA |
| ## 46 | 2020 | 2020-02-08 | 2 | 2020 | NA | NA | NA |
| ## 51 | 2020 | 2020-10-11 | 10 | 2020 | NA | 0.48488376 | NA |
| ## 63 | 2020 | 2020-10-09 | 10 | 2020 | NA | NA | NA |
| ## 77 | 2020 | 2020-05-09 | 5 | 2020 | 0.01230404 | NA | NA |
| ## 79 | 2020 | 2020-05-17 | 5 | 2020 | 0.99385283 | NA | NA |
| ## 87 | 2020 | 2020-07-19 | 7 | 2020 | NA | NA | NA |
| ## 103 | 2021 | 2021-02-11 | 2 | 2021 | NA | NA | NA |
| ## 117 | 2020 | 2020-02-02 | 2 | 2020 | 0.68693197 | NA | NA |
| ## 120 | 2020 | 2020-04-22 | 4 | 2020 | NA | NA | NA |
| ## 149 | 2020 | 2020-02-23 | 2 | 2020 | NA | NA | 0.9226450 |
| ## 152 | 2020 | 2020-02-28 | 2 | 2020 | NA | NA | 0.5913846 |
| ## 164 | 2021 | 2021-11-04 | 11 | 2021 | NA | NA | NA |
| ## 180 | 2021 | 2021-08-23 | 8 | 2021 | 0.14712859 | NA | NA |
| ## 218 | 2021 | 2021-05-10 | 5 | 2021 | NA | NA | 0.6349831 |
| ## 226 | 2020 | 2020-07-22 | 7 | 2020 | 0.13766582 | NA | NA |
| ## 239 | 2021 | 2021-06-24 | 6 | 2021 | NA | NA | NA |
| ## 249 | 2020 | 2020-03-09 | 3 | 2020 | NA | 0.78333567 | NA |
| ## 252 | 2020 | 2020-03-28 | 3 | 2020 | NA | 0.62007691 | NA |
| ## 260 | 2020 | 2020-09-05 | 9 | 2020 | 0.06924430 | NA | NA |
| ## 262 | 2020 | 2020-06-04 | 6 | 2020 | NA | NA | NA |
| ## 268 | 2020 | 2020-02-25 | 2 | 2020 | NA | NA | 0.5643724 |
| ## 277 | 2021 | 2021-07-17 | 7 | 2021 | NA | NA | 0.3663102 |
| ## 284 | 2020 | 2020-02-27 | 2 | 2020 | 0.25501733 | NA | NA |
| ## 301 | 2020 | 2020-02-24 | 2 | 2020 | NA | NA | NA |
| ## 324 | 2020 | 2020-08-17 | 8 | 2020 | NA | 0.96379347 | NA |
| ## 331 | 2020 | 2020-12-18 | 12 | 2020 | NA | NA | NA |
| ## 333 | 2020 | 2020-07-28 | 7 | 2020 | NA | NA | 0.2569303 |
| ## 343 | 2020 | 2020-01-15 | 1 | 2020 | NA | NA | 0.1929066 |
| ## 357 | 2020 | 2020-07-21 | 7 | 2020 | 0.70126371 | NA | NA |
| ## 365 | 2020 | 2020-05-18 | 5 | 2020 | NA | NA | 0.8984455 |
| ## 376 | 2021 | 2021-09-10 | 9 | 2021 | NA | NA | 0.9144553 |
| ## 418 | 2020 | 2020-06-30 | 6 | 2020 | NA | NA | NA |
| ## 428 | 2021 | 2021-03-10 | 3 | 2021 | NA | 0.09939283 | NA |
| ## 439 | 2020 | 2020-06-17 | 6 | 2020 | NA | 0.60294382 | NA |
| ## 460 | 2021 | 2021-08-11 | 8 | 2021 | 0.57500997 | NA | NA |
| ## 465 | 2020 | 2020-04-08 | 4 | 2020 | NA | NA | 0.7963609 |
| ## 469 | 2021 | 2021-12-05 | 12 | 2021 | NA | NA | NA |
| ## 478 | 2020 | 2020-12-10 | 12 | 2020 | 0.44041052 | NA | NA |
| ## | Platelets | Glucose | Lymphocytes | | | | |
| ## 1 | NA | NA | 0.2972833 | | | | |
| ## 46 | 0.56139269 | NA | NA | | | | |
| ## 51 | NA | NA | NA | | | | |
| ## 63 | 0.43509946 | NA | NA | | | | |
| ## 77 | NA | NA | NA | | | | |
| ## 79 | NA | NA | NA | | | | |
| ## 87 | 0.99346158 | NA | NA | | | | |

```
## 103 0.03055192      NA      NA
## 117      NA      NA      NA
## 120      NA      NA 0.7830233
## 149      NA      NA      NA
## 152      NA      NA      NA
## 164      NA 0.71980130      NA
## 180      NA      NA      NA
## 218      NA      NA      NA
## 226      NA      NA      NA
## 239 0.57087024      NA      NA
## 249      NA      NA      NA
## 252      NA      NA      NA
## 260      NA      NA      NA
## 262      NA 0.02534485      NA
## 268      NA      NA      NA
## 277      NA      NA      NA
## 284      NA      NA      NA
## 301      NA 0.29364777      NA
## 324      NA      NA      NA
## 331      NA      NA 0.8295613
## 333      NA      NA      NA
## 343      NA      NA      NA
## 357      NA      NA      NA
## 365      NA      NA      NA
## 376      NA      NA      NA
## 418      NA 0.29188242      NA
## 428      NA      NA      NA
## 439      NA      NA      NA
## 460      NA      NA      NA
## 465      NA      NA      NA
## 469      NA 0.12094705      NA
## 478      NA      NA      NA
```

Exploratory analysis

Summary table stratified by covid diagnosis:

#first have to separate variable between numeric and categorical:

first prepare the function variables:

```
# Select numeric variables:
myVars <- colnames(linkdataset_month[,!names(linkdataset_month) %in% c("covid", "sex", "race",
"diagnosis", "reintubation", "trached", "systemic_anticoagulation_type", "acute_kidney_injury", "discha

#select categorical variables:
catVars <- colnames(linkdataset_month[,names(linkdataset_month) %in% c("sex", "race", "diagnosis", "rein

#Summary table:
tab <- CreateTableOne(vars = myVars, strata = "covid" , data = linkdataset_month, factorVars = catVars)
```

```
## Warning in ModuleReturnVarsExist(factorVars, data): These variables only have
## NA/NaN: pregnant Dropped
```

```
## Warning in CreateTableOne(vars = myVars, strata = "covid", data = linkdataset_month, : Dropping vari
```

```
## Warning in min(x, na.rm = TRUE): ningún argumento finito para min; retornando
## Inf
```

```
## Warning in max(x, na.rm = TRUE): ningun argumento finito para max; retornando
## -Inf
```

```
## Warning in min(x, na.rm = TRUE): ningún argumento finito para min; retornando
## Inf
```

```
## Warning in max(x, na.rm = TRUE): ningun argumento finito para max; retornando
## -Inf
```

```
## Warning in StdDiff(variable = var, group = strataVar): Variable has only NA's in
## at least one stratum. na.rm turned off.
```

```
## Warning in StdDiff(variable = var, group = strataVar): Variable has only NA's in
## at least one stratum. na.rm turned off.
```

```
print(tab)
```

| | Stratified by covid | | |
|--------------------------------------|---------------------|----------------|-------|
| | FALSE | TRUE | p |
| n | 26 | 13 | |
| age (mean (SD)) | 48.77 (16.23) | 49.54 (18.95) | 0.896 |
| weight_kg (mean (SD)) | 105.30 (16.79) | 97.99 (23.57) | 0.276 |
| height_cm (mean (SD)) | 173.84 (10.18) | 175.96 (13.87) | 0.590 |
| bmi (mean (SD)) | 34.82 (9.77) | 30.31 (7.22) | 0.152 |
| ph (mean (SD)) | 7.25 (0.16) | 7.37 (0.10) | 0.033 |
| co2 (mean (SD)) | 49.23 (11.61) | 60.46 (25.39) | 0.097 |
| o2 (mean (SD)) | 92.75 (81.59) | 132.07 (92.80) | 0.266 |
| lactate_peak (mean (SD)) | 5.90 (5.21) | 4.42 (3.98) | 0.411 |
| creatinine_peak (mean (SD)) | 2.25 (1.02) | 1.79 (1.17) | 0.293 |
| total_bilirubin_peak (mean (SD)) | 4.11 (5.48) | 2.79 (3.28) | 0.454 |
| hospital_los (mean (SD)) | 43.59 (32.04) | 19.94 (17.79) | 0.024 |
| days_to_discharge (mean (SD)) | 23.95 (23.26) | 21.45 (19.88) | 0.768 |
| bmi_log (mean (SD)) | 3.51 (0.30) | 3.39 (0.23) | 0.200 |
| o2_log (mean (SD)) | 4.32 (0.60) | 4.67 (0.70) | 0.183 |
| lactate_peak_log (mean (SD)) | 1.43 (0.84) | 1.22 (0.70) | 0.485 |
| total_bilirubin_peak_log (mean (SD)) | 0.90 (1.01) | 0.57 (0.95) | 0.369 |
| hospital_los_log (mean (SD)) | 3.48 (0.82) | 2.25 (1.50) | 0.003 |
| days_to_discharge_log (mean (SD)) | 2.70 (1.06) | 2.54 (1.27) | 0.706 |
| Hematocrit (mean (SD)) | 0.45 (0.25) | 0.32 (0.45) | 0.565 |
| Cholesterol (mean (SD)) | NaN (NA) | 0.59 (0.29) | NA |
| CRP (mean (SD)) | 0.66 (0.24) | 0.19 (NA) | NA |
| Platelets (mean (SD)) | 0.52 (0.34) | NaN (NA) | NA |
| Glucose (mean (SD)) | 0.33 (0.29) | 0.12 (NA) | NA |
| Lymphocytes (mean (SD)) | 0.81 (0.03) | 0.30 (NA) | NA |

```

##                                     Stratified by covid
##                                     test
## n
## age (mean (SD))
## weight_kg (mean (SD))
## height_cm (mean (SD))
## bmi (mean (SD))
## ph (mean (SD))
## co2 (mean (SD))
## o2 (mean (SD))
## lactate_peak (mean (SD))
## creatinine_peak (mean (SD))
## total_bilirubin_peak (mean (SD))
## hospital_los (mean (SD))
## days_to_discharge (mean (SD))
## bmi_log (mean (SD))
## o2_log (mean (SD))
## lactate_peak_log (mean (SD))
## total_bilirubin_peak_log (mean (SD))
## hospital_los_log (mean (SD))
## days_to_discharge_log (mean (SD))
## Hematocrit (mean (SD))
## Cholesterol (mean (SD))
## CRP (mean (SD))
## Platelets (mean (SD))
## Glucose (mean (SD))
## Lymphocytes (mean (SD))

```

```
print(tab,formatOptions = list(big.mark = ","))
```

| | Stratified by covid | | |
|--------------------------------------|---------------------|----------------|-------|
| | FALSE | TRUE | p |
| n | 26 | 13 | |
| age (mean (SD)) | 48.77 (16.23) | 49.54 (18.95) | 0.896 |
| weight_kg (mean (SD)) | 105.30 (16.79) | 97.99 (23.57) | 0.276 |
| height_cm (mean (SD)) | 173.84 (10.18) | 175.96 (13.87) | 0.590 |
| bmi (mean (SD)) | 34.82 (9.77) | 30.31 (7.22) | 0.152 |
| ph (mean (SD)) | 7.25 (0.16) | 7.37 (0.10) | 0.033 |
| co2 (mean (SD)) | 49.23 (11.61) | 60.46 (25.39) | 0.097 |
| o2 (mean (SD)) | 92.75 (81.59) | 132.07 (92.80) | 0.266 |
| lactate_peak (mean (SD)) | 5.90 (5.21) | 4.42 (3.98) | 0.411 |
| creatinine_peak (mean (SD)) | 2.25 (1.02) | 1.79 (1.17) | 0.293 |
| total_bilirubin_peak (mean (SD)) | 4.11 (5.48) | 2.79 (3.28) | 0.454 |
| hospital_los (mean (SD)) | 43.59 (32.04) | 19.94 (17.79) | 0.024 |
| days_to_discharge (mean (SD)) | 23.95 (23.26) | 21.45 (19.88) | 0.768 |
| bmi_log (mean (SD)) | 3.51 (0.30) | 3.39 (0.23) | 0.200 |
| o2_log (mean (SD)) | 4.32 (0.60) | 4.67 (0.70) | 0.183 |
| lactate_peak_log (mean (SD)) | 1.43 (0.84) | 1.22 (0.70) | 0.485 |
| total_bilirubin_peak_log (mean (SD)) | 0.90 (1.01) | 0.57 (0.95) | 0.369 |
| hospital_los_log (mean (SD)) | 3.48 (0.82) | 2.25 (1.50) | 0.003 |
| days_to_discharge_log (mean (SD)) | 2.70 (1.06) | 2.54 (1.27) | 0.706 |
| Hematocrit (mean (SD)) | 0.45 (0.25) | 0.32 (0.45) | 0.565 |
| Cholesterol (mean (SD)) | NaN (NA) | 0.59 (0.29) | NA |
| CRP (mean (SD)) | 0.66 (0.24) | 0.19 (NA) | NA |

```
## Platelets (mean (SD))          0.52 (0.34)      NaN (NA)      NA
## Glucose (mean (SD))           0.33 (0.29)      0.12 (NA)      NA
## Lymphocytes (mean (SD))       0.81 (0.03)      0.30 (NA)      NA
##                               Stratified by covid
##                               test
## n
## age (mean (SD))
## weight_kg (mean (SD))
## height_cm (mean (SD))
## bmi (mean (SD))
## ph (mean (SD))
## co2 (mean (SD))
## o2 (mean (SD))
## lactate_peak (mean (SD))
## creatinine_peak (mean (SD))
## total_bilirubin_peak (mean (SD))
## hospital_los (mean (SD))
## days_to_discharge (mean (SD))
## bmi_log (mean (SD))
## o2_log (mean (SD))
## lactate_peak_log (mean (SD))
## total_bilirubin_peak_log (mean (SD))
## hospital_los_log (mean (SD))
## days_to_discharge_log (mean (SD))
## Hematocrit (mean (SD))
## Cholesterol (mean (SD))
## CRP (mean (SD))
## Platelets (mean (SD))
## Glucose (mean (SD))
## Lymphocytes (mean (SD))
```

```
tab <- CreateTableOne(vars = myVars, strata = "covid", data = linkdataset_month, factorVars = catVars)
print(tab3, nonnormal = biomarkers, formatOptions = list(big.mark = ","))
```