## Lici\_Díaz.Rmd

## Lici Díaz

5/12/2022

```
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)

Dataframe from csv files:

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

synthetic\_data <- read.table('synthetic\_data.csv', sep=',', header=TRUE)
head(synthetic\_data)</pre>

```
##
     patient_id age
                      sex
                              race weight_kg height_cm bsa
## 1 PlSf6mx953 68
                                                  154.9 2.27 28.96000
                       M Hispanic
                                        85.6
## 2 sT8IH3ZooD
                 56
                             White
                                       104.0
                                                  172.0
                                                          NA 25.62000
                       Μ
## 3 4Zz1llngXL
                                       115.0
                 24
                        М
                             White
                                                  180.3
                                                          NA 36.99957
## 4 FlV8vFlekH 45
                        М
                             White
                                         61.0
                                                  152.4 2.30 21.75507
## 5 XHODUqel1R
                        F
                                                  170.0 2.39 26.01070
                 54
                             White
                                           NA
## 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>
                         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 7.41
                                                FALSE
                                                             FALSE
## 3
                 TRUE
                      FALSE
                                                   NA
                                                              FALSE
                                                                       TRUE 7.39 42.7
## 4
                FALSE FALSE
                                                FALSE
                                                                      FALSE 7.18 72.0
                                                                 NΑ
## 5
                    NA FALSE
                                                FALSE
                                                              FALSE
                                                                       TRUE 7.44 62.0
## 6
                   NA FALSE
                                                   NA
                                                              FALSE
                                                                      FALSE 7.42
##
      o2 lactate_peak creatinine_peak total_bilirubin_peak mechanical_vent_days
                  3.9
## 1
                                  2.27
                                                                         12h - 24h
      68
                                                         3.9
## 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
                                  2.08
                  2.3
                                                         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
                                                                               1
                                                                      NA
## 5
                      Heparin only
                                                   FALSE
                                                                       8
                                                                              NA
```

```
TRUE
## 6
                   No anticoagulant
                                                                        NA
                                                                                 43
     hospital_los discharge_location
                                                       insurance proning steroids
## 1
                13
                                  <NA>
                                                             UMR
                                                                    FALSE
## 2
                                  Home
                                                             <NA>
                                                                    FALSE
                15
                                                                                Yes
## 3
                20
                                 Death
                                                        Medicare
                                                                     TRUE
                                                                               <NA>
## 4
                49
                                  <NA> Blue Cross/Blue Shield
                                                                               <NA>
                                                                       NΑ
## 5
                                 Death
                                            Aetna Better Health
                                                                               <NA>
                 1
                29
## 6
                                                    Acordia PEIA
                                                                       NA
                                                                                Yes
                                  Home
##
      steroid_name cpc_score
                                                                         infection
## 1
               <NA>
                          <NA> (On-ECLS, Respiratory tract, Virus, Rhinovirus)
## 2
               <NA>
                          <NA>
## 3
                          <NA>
               <NA>
                                                                              <NA>
                                                                       SARS CoV19
## 4
               <NA>
                          <NA>
## 5
               <NA>
                           N/A
                                                                       SARS CoV19
## 6 Dexemethasone
                          <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>
## 2
                    <NA>
                                                   <NA>
                                                                            <NA>
## 3
                    <NA>
                                                   <NA>
                                                                            <NA>
## 4
                        1
                                                      0
                                                                            <NA>
## 5
                                                   <NA>
                     Yes
## 6
                                                   <NA>
                                                                            <NA>
                    None
     complication_metabolic complication_patient_limb il_6_blockers antivirals
## 1
                         <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
     antimalarials support_type transfer number_pt_visits_total_hosp_stay
## 1
                 NA
                          Cardiac
                                     FALSE
                                                                             NA
## 2
                 NA
                             <NA>
                                     FALSE
                                                                             NA
                                     FALSE
                                                                             NA
## 3
                 NA
                       Pulmonary
## 4
                             <NA>
                                      FALSE
                                                                             NA
                 NA
                                     FALSE
## 5
                 NA
                             <NA>
                                                                             NΑ
                             <NA>
                                     FALSE
## 6
                 NA
     or_cannulation covid monoclonal_ab_treatment total_charges pregnant year
## 1
                  NA FALSE
                                                  NA
                                                                  NA
                                                                            NA 2021
## 2
                                               FALSE
                                                                            NA 2018
                  NA
                     TRUE
                                                                  NA
                                                                            NA 2018
## 3
                  NA FALSE
                                                   NA
                                                                  NA
## 4
                                                   NA
                                                           104724.6
                                                                            NA 2020
                  NA FALSE
## 5
                  NA FALSE
                                                   NA
                                                                  NA
                                                                          TRUE 2022
## 6
                  NA
                      TRUE
                                                   NA
                                                           966708.4
                                                                            NA 2020
##
                                     mcs12 qal_ys admission_date discharge_date
     days_to_discharge
                            pcs12
                                                       2021-08-26
## 1
                     70
                               NA
                                        NA
                                               NA
                                                                       2021-09-28
## 2
                      7 23.06103 36.6572
                                               NΑ
                                                       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
                     NΑ
                               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:

sapply(synthetic\_data, function(x) sum(is.na(x)))

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

```
sapply(example_lab_data, function(x) sum(is.na(x)))

## patient_id date lab_exam result
## 0 0 0 0 0
```

## patient\_id age ## 5 ## sex race ## 5 9 weight\_kg ## height\_cm ## 12 9 ## bsa bmi ## 163 8 ## diagnosis diagnosis\_icd10 ## 332 ## supplemental\_diagnoses distal\_perfusion ## 328 ## trauma infective endocarditis ## 118 192 ## reintubation trached ## 181 80 ## ph co2 ## 21 78 ## ο2 lactate\_peak 82 ## ## creatinine\_peak total\_bilirubin\_peak ## 136 ## mechanical\_vent\_days  ${\tt systemic\_anticoagulation\_type}$ ## 57 ## severity\_score acute\_kidney\_injury ## 70 209 ## icu\_los hospital\_los ## 74 71 ## discharge\_location insurance ## 128 81 ## proning steroids

```
##
                                   271
                                                                       273
##
                         steroid_name
                                                                cpc_score
##
                                   326
                                                                       359
##
                            infection
                                                 complication_mechanical
##
                                   206
##
                                               complication_neurological
             complication_hemorrhage
##
##
                  complication_renal
                                             complication_cardiovascular
##
                                   310
                                                                       318
##
              complication_pulmonary
                                                  complication_metabolic
##
                                   324
                                                                       329
           complication_patient_limb
                                                            il_6_blockers
##
##
                                                                       424
##
                           antivirals
                                                            antimalarials
##
                                   424
                                                                       424
##
                         support_type
                                                                 transfer
##
   number_pt_visits_total_hosp_stay
                                                           or_cannulation
##
                                   409
                                                                       384
##
                                covid
                                                 monoclonal ab treatment
##
                                                                       407
##
                       total_charges
                                                                 pregnant
##
                                  329
                                                                       406
                                                       days_to_discharge
##
                                  vear
                                     2
##
                                                                       118
                                pcs12
##
                                                                    mcs12
##
                                   339
                                                                       358
##
                               qal_ys
                                                           admission_date
##
                                   348
##
                      discharge_date
                                                               death_date
##
                                                                       295
```

#drop columns with NA > 300 observations:

```
synthetic_data <- synthetic_data[,!names(synthetic_data) %in% c("diagnosis_icd10","supplemental_diagnos "trauma", "infective_endocarditis", "severity_score", "icu_los", "insurance", "proning", "il_6_blocket
```

Review patient IDs and address repeated patients:

 $For\ example\_lab\_data$ 

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

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</pre>
```

tells you which patient\_id occurred more than once:

```
##
       patient_id
                         date
                                 lab_exam
                                               result
## 1
       cCnBeL4FBu 2021-03-09
                              Hematocrit 0.346785449
##
       X15d5UcCYD 2021-02-03 Cholesterol 0.376306606
## 3
       oa74Ed90gm 2020-03-05
                                      CRP 0.886128495
       rPjBoa86kB 2021-04-20
##
                                Platelets 0.095046618
##
  5
       uDONxQpQ5F 2020-11-01
                                  Glucose 0.015868681
##
  6
       3pZ2TqnNyn 2021-02-24 Lymphocytes 0.093726641
       vlb0gzZhmX 2021-07-25 Hematocrit 0.510330833
##
  7
       XLquXLGSRi 2020-05-22 Cholesterol 0.568893068
## 8
## 9
       argAUZmnvn 2021-11-28
                                      CRP 0.692478949
## 10
       zRlHFeTD3y 2020-10-04
                                Platelets 0.113104761
       9L2XCccHyS 2021-11-20
## 11
                                 Glucose 0.574832540
## 12
       zbFUKiRnqH 2020-09-21 Lymphocytes 0.823637569
       dTTfpgOYcA 2021-10-07
## 13
                              Hematocrit 0.870366165
      kKxSSHlZXd 2020-08-31 Cholesterol 0.649610762
## 14
##
       8NReDzROyU 2021-01-12
                                      CRP 0.148109071
##
  16
       XjRrih0zHr 2020-01-10
                                Platelets 0.192479396
## 17
       d5YupdnG8g 2021-05-07
                                  Glucose 0.450984468
       RPKFkP3mF7 2020-12-18 Lymphocytes 0.829561262
## 18
##
       9RJXcM3JN2 2020-06-02
                              Hematocrit 0.576192793
##
  20
       xH3pHj8yGl 2021-08-25 Cholesterol 0.757487138
  21
       sT8IH3ZooD 2020-09-15
                                      CRP 0.873480387
       I9ioR5P3Fm 2021-01-08
##
  22
                                Platelets 0.718018574
       zEn8g076bg 2021-03-30
##
  23
                                 Glucose 0.627878840
## 24
       C2DRgzRqj7 2021-01-15 Lymphocytes 0.771622997
## 25
       RLIZJgcVd8 2021-02-16
                             Hematocrit 0.814143439
## 26
       d1KObvMArw 2020-06-23 Cholesterol 0.318192038
## 27
       XjRrih0zHr 2020-11-06
                                      CRP 0.108447898
## 28
       6GhDk8AVNM 2021-05-27
                                Platelets 0.620728622
       nDyA0tpdsa 2021-10-16
                                 Glucose 0.300562091
  29
## 30
       PsoF9yzccf 2020-08-21 Lymphocytes 0.136893641
##
  31
       ZVLZ1Cpyfh 2020-12-10
                             Hematocrit 0.440410523
## 32
       5eklKVY8eb 2021-04-13 Cholesterol 0.575704554
## 33
       S65F25Nb7v 2021-07-08
                                      CRP 0.325456802
## 34
       krAu0xufm0 2020-12-25
                                Platelets 0.718835175
##
  35
       qapZgo14KS 2021-06-02
                                  Glucose 0.238981723
##
       sdfifHRB6T 2021-03-18 Lymphocytes 0.993059576
##
                              Hematocrit 0.084000538
  37
       qBAgaxacbM 2020-06-22
   38
       T3W1ZMT5J1 2020-09-24 Cholesterol 0.305750701
       U5z4u340s9 2020-05-18
##
  39
                                      CRP 0.898445460
       wExoR3npUK 2021-08-24
  40
                                Platelets 0.095137071
       q6danf6ZhC 2021-09-03
                                 Glucose 0.621170023
## 41
       4Zz11lngXL 2021-12-01 Lymphocytes 0.090882407
## 43
       VVxY2ojz0G 2020-07-11
                              Hematocrit 0.895942808
  44
       RLIZJgcVd8 2020-10-20 Cholesterol 0.858342817
## 45
       OGY8WsxqAd 2021-01-16
                                      CRP 0.962069004
##
  46
       xxah5hoZVX 2020-05-19
                               Platelets 0.202420654
## 47
       WpXIJg30L2 2021-04-05
                                  Glucose 0.921659399
## 48
       XLquXLGSRi 2021-10-01 Lymphocytes 0.719347612
## 49
       YhxGHvKVSR 2020-08-14 Hematocrit 0.215445751
## 50
       Cwy6w4MuKf 2021-09-28 Cholesterol 0.441443078
```

```
## 51 RUJwtKvHR6 2020-03-23
                                      CRP 0.617166514
## 52
                               Platelets 0.938551971
      5TLquRFvBi 2021-01-09
## 53
       AQXGYHxdC0 2021-07-04
                                 Glucose 0.897141899
## 54
       PBg8B1Rhsi 2021-10-24 Lymphocytes 0.029912528
       a5oybzT4hg 2021-10-20
##
  55
                             Hematocrit 0.028277991
       4WtxRYlnFr 2020-01-04 Cholesterol 0.152705176
##
  56
  57
       ug7L5EgQ8i 2020-09-07
                                      CRP 0.479228812
## 58
       ATxZLWCuMl 2021-12-27
                               Platelets 0.846275419
##
  59
       I4zTRqpHco 2021-03-11
                                 Glucose 0.531514242
##
  60
       3NQYqtSjUW 2021-11-16 Lymphocytes 0.680726675
  61
       SzCWauSPpe 2020-07-21
                              Hematocrit 0.701263714
##
  62
       x09FN6h0qT 2020-06-09 Cholesterol 0.362863051
##
   63
       cePCOQrw8s 2021-01-06
                                      CRP 0.626984159
   64
       aCmgyoBDAU 2020-03-24
##
                                Platelets 0.789064142
##
  65
                                 Glucose 0.479833235
       uQKbY0aHUh 2021-01-21
##
   66
       wfzftPR62C 2021-08-22 Lymphocytes 0.132995063
##
       XLquXLGSRi 2020-07-20
                              Hematocrit 0.761114392
  67
##
       G5zjvv1NHl 2021-11-17 Cholesterol 0.612386186
##
                                      CRP 0.099892192
  69
       zDfCEnOBQv 2021-09-26
##
  70
       gvQFB0NZVL 2020-06-28
                               Platelets 0.965576809
##
  71
       7TZZyYOyMi 2020-01-21
                                 Glucose 0.812468491
  72
       pNzvrqNfXv 2020-03-30 Lymphocytes 0.031166162
       SHVAA5chqV 2021-02-07 Hematocrit 0.030112407
## 73
       8NReDzROvU 2021-03-26 Cholesterol 0.600814934
##
  74
## 75
       d1KObvMArw 2021-12-15
                                      CRP 0.644195586
  76
       UtfCc9UaEM 2021-10-17
                                Platelets 0.750430661
##
  77
       4Zz1llngXL 2021-01-26
                                 Glucose 0.904825663
##
   78
       CUkgYtax4B 2020-04-20 Lymphocytes 0.363570148
##
  79
       w1d5gKl9AF 2021-07-01
                              Hematocrit 0.822260577
  80
       isLH4ZYjDV 2021-06-07 Cholesterol 0.421803570
## 81
       ePV7YZsSGh 2021-01-03
                                      CRP 0.357227643
##
  82
       5u0Xu0Tdc0 2020-01-09
                                Platelets 0.966201182
##
  83
       EtsodwhqNO 2020-02-21
                                  Glucose 0.528181252
##
  84
       FG7WUotlDJ 2021-12-25 Lymphocytes 0.151397730
##
  85
       owdrTVqd26 2020-11-29
                             Hematocrit 0.233605907
##
       lgwsTbQ9bX 2020-03-28 Cholesterol 0.620076907
  86
  87
       nY6IQYyUNJ 2021-07-21
                                      CRP 0.264638053
## 88
       W0709mDWf5 2020-10-22
                               Platelets 0.310774162
## 89
       ENTDqRsfvq 2021-06-23
                                 Glucose 0.732591485
##
  90
       axPHpa6Utq 2020-12-02 Lymphocytes 0.473360851
       lflTgnORgy 2021-09-08
  91
                             Hematocrit 0.811115817
## 92
      LHISeS6iJe 2021-10-09 Cholesterol 0.781288730
##
  93
       iwp8UUS8du 2021-05-10
                                      CRP 0.634983127
##
  94
       7VN31dBvd0 2020-10-09
                                Platelets 0.435099457
  95
       2nb07U2Jjq 2021-05-26
                                  Glucose 0.783531719
       fzGmCWwgYZ 2020-04-29 Lymphocytes 0.975844932
## 96
##
  97
       PlSf6mx953 2020-08-24
                              Hematocrit 0.046336527
##
  98
       v9PAyt2zS6 2020-11-13 Cholesterol 0.752758495
  99
       sdezrCNI9N 2021-02-26
                                      CRP 0.892928984
## 100 jcZ90rMP0D 2021-08-27
                                Platelets 0.968659601
## 101 Cwy6w4MuKf 2021-12-28
                                 Glucose 0.857854674
## 102 cCnBeL4FBu 2020-11-10 Lymphocytes 0.608395800
## 103 f9AMZUlNJL 2021-08-23 Hematocrit 0.147128591
## 104 ar1fphugKw 2020-07-25 Cholesterol 0.635739189
```

```
## 105 ds8kizHdyF 2021-10-19
                                    CRP 0.365337409
## 106 7TZZyYOyMi 2020-11-26
                               Platelets 0.486013396
## 107 W9IYIAle7a 2020-01-23
                                 Glucose 0.450646945
## 108 4AAZ92PAwu 2020-05-26 Lymphocytes 0.156555813
## 109 mcVVfH0KEn 2020-03-01 Hematocrit 0.832616475
## 110 76nhLlQkv2 2021-08-13 Cholesterol 0.288940493
## 111 ekDtKmOTAg 2021-05-03
                                     CRP 0.764288299
## 112 LBRVzQu5w9 2021-02-12
                               Platelets 0.959480939
## 113 KL9bwQLGY3 2021-08-30
                                 Glucose 0.077097642
## 114 211PclNASV 2021-07-15 Lymphocytes 0.052558219
## 115 KfxOQ150T8 2020-07-22 Hematocrit 0.137665821
## 116 RLIZJgcVd8 2020-07-12 Cholesterol 0.529833617
## 117 gJ2ERPGGQc 2020-12-29
                                     CRP 0.062546792
## 118 EtsodwhqNO 2021-03-31
                               Platelets 0.181656698
## 119 hPe6cM9zyo 2020-07-24
                                 Glucose 0.357135660
## 120 oa74Ed90gm 2021-01-29 Lymphocytes 0.038691438
## 121 cCnBeL4FBu 2020-02-02 Hematocrit 0.686931974
## 122 X15d5UcCYD 2020-06-17 Cholesterol 0.602943822
## 123 oa74Ed90gm 2020-11-15
                                     CRP 0.098238929
## 124 rPjBoa86kB 2021-07-16
                               Platelets 0.942216641
## 125 uDONxQpQ5F 2020-06-05
                                 Glucose 0.366070434
## 126 3pZ2TqnNyn 2021-06-22 Lymphocytes 0.770144808
## 127 vlb0gzZhmX 2020-03-12 Hematocrit 0.050639349
## 128 XLquXLGSRi 2020-08-25 Cholesterol 0.244553301
## 129 argAUZmnvn 2021-10-10
                                     CRP 0.854903802
## 130 zRlHFeTD3y 2021-12-07
                               Platelets 0.873795579
## 131 9L2XCccHyS 2020-02-15
                                 Glucose 0.094763305
## 132 zbFUKiRnqH 2020-07-27 Lymphocytes 0.756063293
## 133 dTTfpgOYcA 2021-01-04 Hematocrit 0.903058653
## 134 kKxSSHlZXd 2021-09-02 Cholesterol 0.664999282
## 135 8NReDzROyU 2020-08-26
                                     CRP 0.307657089
## 136 XjRrih0zHr 2020-03-29
                               Platelets 0.148782962
## 137 d5YupdnG8g 2020-01-05
                                 Glucose 0.214266529
## 138 RPKFkP3mF7 2021-03-23 Lymphocytes 0.655878888
## 139 9RJXcM3JN2 2020-05-09 Hematocrit 0.012304043
## 140 xH3pHj8yGl 2021-03-10 Cholesterol 0.099392833
## 141 sT8IH3ZooD 2020-04-26
                                     CRP 0.130032565
## 142 I9ioR5P3Fm 2021-02-17
                               Platelets 0.398000024
## 143 zEn8g076bg 2021-12-05
                                 Glucose 0.120947054
## 144 C2DRgzRqj7 2021-04-10 Lymphocytes 0.126596136
## 145 RLIZJgcVd8 2020-03-18 Hematocrit 0.421721060
## 146 d1KObvMArw 2020-10-28 Cholesterol 0.626856897
## 147 XjRrih0zHr 2021-01-30
                                     CRP 0.872599531
## 148 6GhDk8AVNM 2021-01-14
                               Platelets 0.115902185
## 149 nDyAOtpdsa 2020-07-04
                                 Glucose 0.094489854
## 150 PsoF9yzccf 2021-06-28 Lymphocytes 0.988530209
## 151 ZVLZ1Cpyfh 2021-10-21 Hematocrit 0.133064122
## 152 5eklKVY8eb 2020-08-20 Cholesterol 0.969697058
## 153 S65F25Nb7v 2020-11-11
                                     CRP 0.281811720
## 154 krAu0xufm0 2021-08-17
                               Platelets 0.224548736
## 155 qapZgo14KS 2021-09-17
                                 Glucose 0.727053490
## 156 sdfifHRB6T 2021-10-14 Lymphocytes 0.633006003
## 157 qBAgaxacbM 2020-11-02 Hematocrit 0.378760998
## 158 T3W1ZMT5J1 2020-09-13 Cholesterol 0.085396940
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## 159 U5z4u340s9 2021-08-31
                                    CRP 0.303374225
## 160 wExoR3npUK 2020-08-23
                              Platelets 0.686363504
## 161 q6danf6ZhC 2020-04-07
                               Glucose 0.681221531
## 162 4Zz1llngXL 2021-11-01 Lymphocytes 0.427018608
## 163 VVxY2ojz0G 2020-06-14 Hematocrit 0.044457463
## 164 RLIZJgcVd8 2021-05-16 Cholesterol 0.239269632
## 165 OGY8WsxqAd 2021-07-17
                                     CRP 0.366310248
## 166 xxah5hoZVX 2020-04-30
                               Platelets 0.519439106
## 167 WpXIJg30L2 2020-06-30
                                 Glucose 0.291882424
## 168 XLquXLGSRi 2021-03-12 Lymphocytes 0.119705818
## 169 YhxGHvKVSR 2020-12-16 Hematocrit 0.738520296
## 170 Cwy6w4MuKf 2020-11-23 Cholesterol 0.210611552
## 171 RUJwtKyHR6 2021-05-18
                                     CRP 0.438978773
## 172 5TLquRFvBi 2021-10-04
                               Platelets 0.892071775
## 173 AQXGYHxdC0 2020-11-03
                                 Glucose 0.715107390
## 174 PBg8B1Rhsi 2020-10-06 Lymphocytes 0.373934668
## 175 a5oybzT4hg 2020-06-24 Hematocrit 0.789523862
## 176 4WtxRYlnFr 2021-03-14 Cholesterol 0.634103127
## 177 ug7L5EgQ8i 2021-09-10
                                     CRP 0.914455302
## 178 ATxZLWCuMl 2021-10-27
                               Platelets 0.791805379
## 179 I4zTRqpHco 2020-10-01
                                 Glucose 0.019151961
## 180 3NQYqtSjUW 2021-01-07 Lymphocytes 0.444897096
## 181 SzCWauSPpe 2020-10-24 Hematocrit 0.962484237
## 182 x09FN6h0qT 2020-04-15 Cholesterol 0.393372213
## 183 cePCOQrw8s 2020-04-19
                                     CRP 0.338422134
## 184 aCmgyoBDAU 2020-05-28
                               Platelets 0.975513554
## 185 uQKbYOaHUh 2020-02-09
                                Glucose 0.059090007
## 186 wfzftPR62C 2020-09-14 Lymphocytes 0.950302884
## 187 XLquXLGSRi 2021-05-15 Hematocrit 0.222258664
## 188 G5zjyy1NHl 2021-05-29 Cholesterol 0.695711619
## 189 zDfCEnOBQv 2020-04-08
                                     CRP 0.796360935
## 190 gvQFBONZVL 2020-08-16
                               Platelets 0.925823741
## 191 7TZZyYOyMi 2020-10-30
                                Glucose 0.425645039
## 192 pNzvrqNfXv 2021-11-26 Lymphocytes 0.330011227
## 193 SHVAA5chqV 2020-03-03 Hematocrit 0.226864406
## 194 8NReDzROyU 2021-06-10 Cholesterol 0.551282833
## 195 d1KObvMArw 2021-04-06
                                     CRP 0.892592130
## 196 UtfCc9UaEM 2021-05-30
                               Platelets 0.030224378
## 197 4Zz1llngXL 2020-12-14
                                 Glucose 0.870744020
## 198 CUkgYtax4B 2020-01-12 Lymphocytes 0.475415291
## 199 w1d5gKl9AF 2020-10-18 Hematocrit 0.942530180
## 200 isLH4ZYjDV 2020-01-17 Cholesterol 0.774774771
## 201 ePV7YZsSGh 2021-12-08
                                     CRP 0.653328328
## 202 5u0Xu0Tdc0 2020-05-20
                               Platelets 0.756138862
## 203 EtsodwhqNO 2021-08-26
                                 Glucose 0.114096778
## 204 FG7WUotlDJ 2020-02-13 Lymphocytes 0.033038687
## 205 owdrTVqd26 2020-04-01 Hematocrit 0.989403706
## 206 lgwsTbQ9bX 2021-08-07 Cholesterol 0.998552155
## 207 nY6IQYyUNJ 2021-07-06
                                     CRP 0.948136381
## 208 W0709mDWf5 2020-01-29
                               Platelets 0.092984530
## 209 ENTDqRsfvq 2020-08-04
                                 Glucose 0.997730708
## 210 axPHpa6Utq 2020-11-30 Lymphocytes 0.457218633
## 211 lflTgnORgy 2021-05-09 Hematocrit 0.277786447
## 212 LHlSeS6iJe 2021-09-16 Cholesterol 0.261845701
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## 213 iwp8UUS8du 2021-04-18
                                    CRP 0.970435903
## 214 7VN31dBvd0 2021-05-14
                               Platelets 0.696485100
## 215 2nb07U2Jjq 2020-04-25
                                 Glucose 0.598574924
## 216 fzGmCWwgYZ 2020-11-12 Lymphocytes 0.791088210
## 217 PlSf6mx953 2021-06-05 Hematocrit 0.044174696
## 218 v9PAyt2zS6 2020-10-17 Cholesterol 0.748275055
## 219 sdezrCNI9N 2020-09-25
                                     CRP 0.713220872
## 220 jcZ90rMP0D 2021-04-09
                               Platelets 0.441291028
## 221 Cwy6w4MuKf 2020-11-18
                                 Glucose 0.774626835
## 222 cCnBeL4FBu 2020-04-22 Lymphocytes 0.783023270
## 223 f9AMZUlNJL 2021-11-22 Hematocrit 0.343345638
## 224 ar1fphuqKw 2021-01-01 Cholesterol 0.875215858
## 225 ds8kizHdyF 2020-02-28
                                     CRP 0.591384577
## 226 7TZZyYOyMi 2020-06-16
                               Platelets 0.824821159
## 227 W9IYIAle7a 2020-03-16
                                 Glucose 0.265307293
## 228 4AAZ92PAwu 2020-07-02 Lymphocytes 0.543500476
## 229 mcVVfH0KEn 2020-09-05
                             Hematocrit 0.069244299
## 230 76nhLlQkv2 2020-10-11 Cholesterol 0.484883758
## 231 ekDtKmOTAg 2020-03-02
                                     CRP 0.316861829
## 232 LBRVzQu5w9 2020-09-01
                               Platelets 0.350093617
## 233 KL9bwQLGY3 2020-05-14
                                 Glucose 0.275099959
## 234 211PclNASV 2020-03-07 Lymphocytes 0.708251950
## 235 KfxOQ150T8 2020-05-12 Hematocrit 0.991679991
## 236 RLIZJgcVd8 2021-06-04 Cholesterol 0.236016750
## 237 gJ2ERPGGQc 2021-11-30
                                     CRP 0.194514430
## 238 EtsodwhqNO 2020-11-19
                               Platelets 0.060967827
## 239 hPe6cM9zyo 2021-03-20
                                 Glucose 0.090721783
## 240 oa74Ed90gm 2020-11-22 Lymphocytes 0.482355095
## 241 cCnBeL4FBu 2021-04-21 Hematocrit 0.975466004
## 242 X15d5UcCYD 2021-11-12 Cholesterol 0.482542444
## 243 oa74Ed90gm 2021-08-12
                                     CRP 0.628275203
## 244 rPjBoa86kB 2021-04-11
                               Platelets 0.971943749
## 245 uDONxQpQ5F 2020-09-12
                                 Glucose 0.902964072
## 246 3pZ2TqnNyn 2020-07-16 Lymphocytes 0.843968912
## 247 vlb0gzZhmX 2021-06-01 Hematocrit 0.286343969
## 248 XLquXLGSRi 2020-03-04 Cholesterol 0.433966105
## 249 argAUZmnvn 2020-01-25
                                     CRP 0.868127759
## 250 zRlHFeTD3y 2021-12-29
                               Platelets 0.948695913
## 251 9L2XCccHyS 2021-02-08
                                 Glucose 0.015773882
## 252 zbFUKiRnqH 2021-02-04 Lymphocytes 0.907036672
## 253 dTTfpgOYcA 2020-05-11 Hematocrit 0.304994373
## 254 kKxSSHlZXd 2020-12-22 Cholesterol 0.201828417
## 255 8NReDzROyU 2020-02-22
                                     CRP 0.388524927
## 256 XjRrih0zHr 2021-12-12
                               Platelets 0.365280244
## 257 d5YupdnG8g 2021-09-09
                                 Glucose 0.509070439
## 258 RPKFkP3mF7 2020-08-02 Lymphocytes 0.254476132
## 259 9RJXcM3JN2 2020-05-17 Hematocrit 0.993852828
## 260 xH3pHj8yGl 2021-01-31 Cholesterol 0.039904815
## 261 sT8IH3ZooD 2020-07-01
                                     CRP 0.481617356
## 262 I9ioR5P3Fm 2021-07-11
                               Platelets 0.402129882
## 263 zEn8g076bg 2020-07-10
                                 Glucose 0.508754178
## 264 C2DRgzRqj7 2020-12-24 Lymphocytes 0.282835062
## 265 RLIZJgcVd8 2021-10-31 Hematocrit 0.674403101
## 266 d1KObvMArw 2021-03-06 Cholesterol 0.910374189
```

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## 267 XjRrih0zHr 2020-08-10
                                    CRP 0.517385889
## 268 6GhDk8AVNM 2021-04-29
                               Platelets 0.138856819
## 269 nDyAOtpdsa 2020-06-04
                                 Glucose 0.025344846
## 270 PsoF9yzccf 2020-06-07 Lymphocytes 0.318160261
## 271 ZVLZ1Cpyfh 2020-07-26 Hematocrit 0.447170625
## 272 5eklKVY8eb 2020-01-02 Cholesterol 0.288765354
## 273 S65F25Nb7v 2020-07-29
                                     CRP 0.112457871
## 274 krAu0xufm0 2021-06-24
                               Platelets 0.570870237
## 275 qapZgo14KS 2021-01-13
                                 Glucose 0.686386991
## 276 sdfifHRB6T 2020-02-06 Lymphocytes 0.895208716
## 277 qBAgaxacbM 2021-03-27
                             Hematocrit 0.652859360
## 278 T3W1ZMT5J1 2021-03-13 Cholesterol 0.029359938
## 279 U5z4u340s9 2021-02-28
                                     CRP 0.502200558
## 280 wExoR3npUK 2020-09-16
                               Platelets 0.402596772
## 281 q6danf6ZhC 2020-02-24
                                 Glucose 0.293647772
## 282 4Zz1llngXL 2020-05-24 Lymphocytes 0.026592472
## 283 VVxY2ojz0G 2021-12-09 Hematocrit 0.477393371
## 284 RLIZJgcVd8 2020-04-18 Cholesterol 0.048481721
## 285 OGY8WsxqAd 2020-10-31
                                     CRP 0.937607403
## 286 xxah5hoZVX 2021-09-23
                               Platelets 0.841855912
## 287 WpXIJg30L2 2021-07-29
                                 Glucose 0.761004933
## 288 XLquXLGSRi 2020-01-13 Lymphocytes 0.495809025
## 289 YhxGHvKVSR 2021-01-27 Hematocrit 0.703669062
## 290 Cwv6w4MuKf 2021-07-09 Cholesterol 0.588481505
## 291 RUJwtKyHR6 2020-08-19
                                     CRP 0.206111051
## 292 5TLquRFvBi 2020-01-30
                               Platelets 0.607862256
## 293 AQXGYHxdC0 2021-07-22
                                 Glucose 0.053659386
## 294 PBg8B1Rhsi 2021-11-03 Lymphocytes 0.783587211
## 295 a5oybzT4hg 2020-03-17 Hematocrit 0.824875642
## 296 4WtxRYlnFr 2021-02-10 Cholesterol 0.671935383
## 297 ug7L5EgQ8i 2020-04-28
                                     CRP 0.023538585
## 298 ATxZLWCuMl 2021-02-11
                               Platelets 0.030551919
## 299 I4zTRqpHco 2021-11-15
                                 Glucose 0.039934440
## 300 3NQYqtSjUW 2021-02-09 Lymphocytes 0.092617046
## 301 SzCWauSPpe 2020-02-05 Hematocrit 0.484836475
## 302 x09FN6h0qT 2021-09-01 Cholesterol 0.428614217
## 303 cePCOQrw8s 2020-05-27
                                     CRP 0.105722725
## 304 aCmgyoBDAU 2020-07-19
                               Platelets 0.993461577
## 305 uQKbYOaHUh 2021-10-06
                                 Glucose 0.379667510
## 306 wfzftPR62C 2020-11-24 Lymphocytes 0.139718267
## 307 XLquXLGSRi 2021-02-25 Hematocrit 0.028405759
## 308 G5zjyy1NHl 2021-06-30 Cholesterol 0.465668522
## 309 zDfCEnOBQv 2021-09-07
                                     CRP 0.207106964
## 310 gvQFBONZVL 2020-05-07
                               Platelets 0.939238462
## 311 7TZZyYOyMi 2021-04-14
                                 Glucose 0.217461790
## 312 pNzvrqNfXv 2021-07-13 Lymphocytes 0.116740586
## 313 SHVAA5chqV 2021-05-01 Hematocrit 0.170985928
## 314 8NReDzROyU 2021-12-18 Cholesterol 0.924584697
## 315 d1KObvMArw 2021-07-19
                                     CRP 0.375524573
## 316 UtfCc9UaEM 2020-08-03
                               Platelets 0.524008249
## 317 4Zz1llngXL 2021-03-22
                                 Glucose 0.760842006
## 318 CUkgYtax4B 2021-07-20 Lymphocytes 0.416310863
## 319 w1d5gKl9AF 2021-01-20 Hematocrit 0.654121900
## 320 isLH4ZYjDV 2020-01-03 Cholesterol 0.032613600
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## 321 ePV7YZsSGh 2021-10-08
                                     CRP 0.145878215
## 322 5u0Xu0Tdc0 2020-03-25
                               Platelets 0.159323776
## 323 EtsodwhqNO 2021-09-06
                                Glucose 0.531180403
## 324 FG7WUot1DJ 2021-08-08 Lymphocytes 0.246446484
## 325 owdrTVqd26 2021-12-14 Hematocrit 0.034972254
## 326 lgwsTbQ9bX 2021-09-22 Cholesterol 0.837464208
## 327 nY6IQYvUNJ 2020-03-11
                                     CRP 0.836278183
## 328 W0709mDWf5 2021-08-20
                               Platelets 0.904076249
## 329 ENTDqRsfvq 2021-11-04
                                 Glucose 0.719801305
## 330 axPHpa6Utq 2021-11-14 Lymphocytes 0.020531628
## 331 lflTgnORgy 2021-12-23 Hematocrit 0.545684809
## 332 LHlSeS6iJe 2021-03-21 Cholesterol 0.923094574
## 333 iwp8UUS8du 2020-01-01
                                     CRP 0.910676280
## 334 7VN31dBvd0 2020-05-21
                               Platelets 0.812254730
## 335 2nb07U2Jjq 2021-05-06
                                 Glucose 0.392085551
## 336 fzGmCWwgYZ 2020-02-07 Lymphocytes 0.957501827
## 337 PlSf6mx953 2021-04-22
                             Hematocrit 0.539361370
## 338 v9PAyt2zS6 2020-08-28 Cholesterol 0.625978482
## 339 sdezrCNI9N 2020-08-29
                                     CRP 0.521605546
## 340 jcZ90rMP0D 2020-02-16
                               Platelets 0.568816615
## 341 Cwy6w4MuKf 2020-10-07
                                 Glucose 0.991451986
## 342 cCnBeL4FBu 2020-07-30 Lymphocytes 0.788577995
## 343 f9AMZUlNJL 2021-03-17 Hematocrit 0.790077747
## 344 ar1fphugKw 2020-06-01 Cholesterol 0.129328140
## 345 ds8kizHdyF 2020-02-23
                                     CRP 0.922645039
## 346 7TZZyYOyMi 2020-05-13
                               Platelets 0.606605969
## 347 W9IYIAle7a 2021-08-18
                                 Glucose 0.286120473
## 348 4AAZ92PAwu 2021-08-19 Lymphocytes 0.469338000
## 349 mcVVfH0KEn 2021-10-11 Hematocrit 0.288861509
## 350 76nhLlQkv2 2021-11-24 Cholesterol 0.661822313
## 351 ekDtKmOTAg 2020-09-23
                                     CRP 0.919397313
## 352 LBRVzQu5w9 2021-06-21
                               Platelets 0.513658516
## 353 KL9bwQLGY3 2020-04-03
                                 Glucose 0.014517345
## 354 211PclNASV 2021-07-28 Lymphocytes 0.119867011
## 355 KfxOQ150T8 2022-01-01 Hematocrit 0.816642944
## 356 RLIZJgcVd8 2020-12-13 Cholesterol 0.983532345
## 357 gJ2ERPGGQc 2021-10-02
                                     CRP 0.366361852
## 358 EtsodwhqNO 2021-09-30
                               Platelets 0.912379829
## 359 hPe6cM9zyo 2020-06-25
                                 Glucose 0.100849919
## 360 oa74Ed90gm 2020-03-26 Lymphocytes 0.644391948
## 361 cCnBeL4FBu 2021-02-05 Hematocrit 0.638959525
## 362 X15d5UcCYD 2021-11-09 Cholesterol 0.416689709
## 363 oa74Ed90gm 2021-11-07
                                     CRP 0.001068190
## 364 rPjBoa86kB 2020-06-13
                               Platelets 0.534811510
## 365 uDONxQpQ5F 2021-04-02
                                 Glucose 0.452890812
## 366 3pZ2TqnNyn 2021-04-12 Lymphocytes 0.237182715
## 367 vlb0gzZhmX 2021-11-18 Hematocrit 0.242538659
## 368 XLquXLGSRi 2021-08-05 Cholesterol 0.253670813
## 369 argAUZmnvn 2020-01-08
                                     CRP 0.366200881
## 370 zRlHFeTD3y 2021-07-12
                               Platelets 0.834109578
## 371 9L2XCccHyS 2021-10-13
                                 Glucose 0.468687983
## 372 zbFUKiRnqH 2021-04-07 Lymphocytes 0.375831117
## 373 dTTfpgOYcA 2021-12-04 Hematocrit 0.048611448
## 374 kKxSSHlZXd 2021-10-03 Cholesterol 0.947564462
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## 375 8NReDzROyU 2021-10-18
                                    CRP 0.004070355
## 376 XjRrih0zHr 2020-09-02
                               Platelets 0.182214915
## 377 d5YupdnG8g 2021-07-24
                                 Glucose 0.831202549
## 378 RPKFkP3mF7 2020-07-07 Lymphocytes 0.852996543
## 379 9RJXcM3JN2 2020-07-17 Hematocrit 0.399677010
## 380 xH3pHj8yGl 2020-10-10 Cholesterol 0.207483406
## 381 sT8IH3ZooD 2021-11-23
                                     CRP 0.448578177
## 382 I9ioR5P3Fm 2021-11-11
                               Platelets 0.938789801
## 383 zEn8g076bg 2021-09-27
                                 Glucose 0.370977896
## 384 C2DRgzRqj7 2020-01-19 Lymphocytes 0.128409982
## 385 RLIZJgcVd8 2021-09-24 Hematocrit 0.171605104
## 386 d1KObvMArw 2021-07-27 Cholesterol 0.887806539
## 387 XjRrih0zHr 2021-04-27
                                     CRP 0.342692643
## 388 6GhDk8AVNM 2020-02-08
                               Platelets 0.561392690
## 389 nDyA0tpdsa 2021-03-05
                                 Glucose 0.668397279
## 390 PsoF9yzccf 2020-07-05 Lymphocytes 0.342146704
## 391 ZVLZlCpyfh 2020-01-14
                             Hematocrit 0.695522991
## 392 5eklKVY8eb 2021-08-04 Cholesterol 0.644684430
## 393 S65F25Nb7v 2020-11-04
                                     CRP 0.909940208
## 394 krAu0xufm0 2021-03-16
                               Platelets 0.723611807
## 395 qapZgo14KS 2020-06-26
                                 Glucose 0.366637670
## 396 sdfifHRB6T 2021-06-26 Lymphocytes 0.011438892
## 397 qBAgaxacbM 2021-09-18 Hematocrit 0.646561362
## 398 T3W1ZMT5J1 2021-01-11 Cholesterol 0.410748043
## 399 U5z4u340s9 2021-05-12
                                     CRP 0.965352895
## 400 wExoR3npUK 2021-02-22
                               Platelets 0.440601028
## 401 q6danf6ZhC 2021-03-08
                                 Glucose 0.361179671
## 402 4Zz1llngXL 2021-09-05 Lymphocytes 0.076474124
## 403 VVxY2ojz0G 2020-12-05 Hematocrit 0.417900812
## 404 RLIZJgcVd8 2020-08-17 Cholesterol 0.963793466
## 405 OGY8WsxqAd 2020-08-18
                                     CRP 0.478632116
## 406 xxah5hoZVX 2020-04-10
                               Platelets 0.982779108
## 407 WpXIJg30L2 2021-09-15
                                 Glucose 0.623541027
## 408 XLquXLGSRi 2021-03-04 Lymphocytes 0.889432429
## 409 YhxGHvKVSR 2021-08-11 Hematocrit 0.575009966
## 410 Cwy6w4MuKf 2020-04-14 Cholesterol 0.246886212
## 411 RUJwtKyHR6 2020-07-28
                                     CRP 0.256930286
## 412 5TLquRFvBi 2020-06-11
                               Platelets 0.651522061
## 413 AQXGYHxdC0 2021-05-05
                                 Glucose 0.713944716
## 414 PBg8B1Rhsi 2021-08-29 Lymphocytes 0.354325091
## 415 a5oybzT4hg 2020-04-17 Hematocrit 0.264898025
## 416 4WtxRYlnFr 2020-06-03 Cholesterol 0.832662979
## 417 ug7L5EgQ8i 2021-01-23
                                     CRP 0.659306824
## 418 ATxZLWCuMl 2021-05-22
                               Platelets 0.970891166
## 419 I4zTRqpHco 2020-01-28
                                 Glucose 0.347731325
## 420 3NQYqtSjUW 2020-11-08 Lymphocytes 0.751714065
## 421 SzCWauSPpe 2020-12-19 Hematocrit 0.271920412
## 422 x09FN6h0qT 2021-11-19 Cholesterol 0.960174780
## 423 cePCOQrw8s 2021-04-15
                                     CRP 0.213242923
## 424 aCmgyoBDAU 2020-01-31
                               Platelets 0.067254578
## 425 uQKbYOaHUh 2021-10-15
                                 Glucose 0.912686107
## 426 wfzftPR62C 2020-12-27 Lymphocytes 0.313810426
## 427 XLquXLGSRi 2021-01-24 Hematocrit 0.504668652
## 428 G5zjyy1NHl 2020-09-19 Cholesterol 0.536442946
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## 429 zDfCEnOBQv 2021-01-19
                                   CRP 0.263008715
## 430 gvQFBONZVL 2021-08-10 Platelets 0.130408852
                              Glucose 0.027207057
## 431 7TZZyYOyMi 2020-06-15
## 432 pNzvrqNfXv 2020-11-07 Lymphocytes 0.095307493
## 433 SHVAA5chqV 2021-04-23 Hematocrit 0.135216279
## 434 8NReDzROyU 2021-02-01 Cholesterol 0.475492881
## 435 d1KObvMArw 2020-12-08
                                     CRP 0.058702733
## 436 UtfCc9UaEM 2021-06-20
                               Platelets 0.432504629
## 437 4Zz1llngXL 2021-05-04
                                 Glucose 0.672291603
## 438 CUkgYtax4B 2021-02-18 Lymphocytes 0.010129479
## 439 w1d5gKl9AF 2020-06-29 Hematocrit 0.099221234
## 440 isLH4ZYjDV 2020-06-06 Cholesterol 0.400258140
## 441 ePV7YZsSGh 2020-01-26
                                     CRP 0.324779462
## 442 5u0Xu0Tdc0 2021-04-19
                               Platelets 0.365273270
## 443 EtsodwhqNO 2021-01-22
                                 Glucose 0.714730029
## 444 FG7WUotlDJ 2020-12-04 Lymphocytes 0.324142011
## 445 owdrTVqd26 2020-02-27 Hematocrit 0.255017334
## 446 lgwsTbQ9bX 2020-03-09 Cholesterol 0.783335667
## 447 nY6IQYyUNJ 2020-02-25
                                     CRP 0.564372356
## 448 W0709mDWf5 2020-10-27
                               Platelets 0.350601507
## 449 ENTDqRsfvq 2020-05-05
                                 Glucose 0.357675146
## 450 axPHpa6Utq 2021-02-06 Lymphocytes 0.216537481
## 451 lflTgnORgy 2020-09-08 Hematocrit 0.910755286
## 452 LHlSeS6iJe 2020-12-17 Cholesterol 0.356177934
## 453 iwp8UUS8du 2021-12-20
                                     CRP 0.445961018
## 454 7VN31dBvd0 2021-04-26
                               Platelets 0.196650845
## 455 2nb07U2Jjq 2021-06-17
                                Glucose 0.940817768
## 456 fzGmCWwgYZ 2020-03-22 Lymphocytes 0.998475784
## 457 PlSf6mx953 2020-02-19 Hematocrit 0.986426559
## 458 v9PAyt2zS6 2021-04-25 Cholesterol 0.053770982
## 459 sdezrCNI9N 2020-01-15
                                     CRP 0.192906642
## 460 jcZ90rMP0D 2020-02-10
                               Platelets 0.225101442
## 461 Cwy6w4MuKf 2020-04-21
                                Glucose 0.657069384
## 462 cCnBeL4FBu 2021-02-19 Lymphocytes 0.718248196
## 463 f9AMZUlNJL 2020-12-23 Hematocrit 0.036414707
## 464 ar1fphugKw 2020-06-18 Cholesterol 0.630811864
## 465 ds8kizHdyF 2021-12-11
                                    CRP 0.569927769
## 466 7TZZyYOyMi 2021-06-15
                               Platelets 0.373291326
## 467 W9IYIAle7a 2020-09-28
                                 Glucose 0.102620619
## 468 4AAZ92PAwu 2020-12-01 Lymphocytes 0.722377218
## 469 mcVVfH0KEn 2020-05-04 Hematocrit 0.947368746
## 470 76nhLlQkv2 2021-12-30 Cholesterol 0.562077869
## 471 ekDtKmOTAg 2020-08-13
                                     CRP 0.467195074
## 472 LBRVzQu5w9 2021-12-06
                               Platelets 0.469883380
## 473 KL9bwQLGY3 2021-09-19
                                 Glucose 0.539874758
## 474 211PclNASV 2021-10-12 Lymphocytes 0.297283307
## 475 Kfx0Q150T8 2021-06-03 Hematocrit 0.430460595
## 476 RLIZJgcVd8 2021-10-05 Cholesterol 0.965002958
## 477 gJ2ERPGGQc 2020-03-31
                                     CRP 0.966996107
## 478 EtsodwhqNO 2021-07-02
                               Platelets 0.480264119
## 479 hPe6cM9zyo 2021-05-19
                                 Glucose 0.253232165
## 480 oa74Ed90gm 2021-06-06 Lymphocytes 0.727352751
```

##		<pre>patient_id</pre>	_	sex	race	weight_kg	• –	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	F1V8vFIekH	45	M	White	61.0	152.40	21.75507
##	5	XHODUqel1R	54	F	White	NA	170.00	26.01070
##	6	gvQFBONZVL	60	Male	White	190.5	177.80	42.86250
##	7	9RJXcM3JN2	23	М	White	104.8	154.90	28.75295
##	8	zsEX1QoxFm	46	М	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		Female	White	90.4	188.00	32.49000
##	20	IcjCW6rMOW	65	M	Other	91.4	173.00	22.68000
##	21	usAagb3Ys8		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			Hispanic	NA	170.20	28.32000
##	28	DjjRrZGNhd	48	M	Black	84.0	177.80	36.49000
##	29	bpjYMzIhem		Female	White	88.7	177.80	36.78670
##	30	Cwy6w4MuKf	63	M	White	60.0	159.00	32.11000
##	31	nDyAOtpdsa	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	Oshbw3gvsR	49	Male	White	155.0	177.80	37.51850
##	42	w1d5gKl9AF	72	F	White	145.0	175.30	50.58000
##	43	XjRrih0zHr	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	CxsoWMlPJ7	53	Male	White	66.2	188.00	33.55795
##	52	10dDAKKGyk	67	M	White	79.0	172.70	36.00000
##		nDyAOtpdsa	63	F	Other	112.0	182.90	49.78000
##	54	oa74Ed90gm	43	F	Black	100.3	180.30	21.40290
##	55 57	IqkI11WYK7		Female	White	87.8	185.00	39.03000
##	57 50	SHVAA5chqV	67	Male	White	103.0	173.50	37.67000
##	59	fbbgoc1RTa	60	Male	White	93.0	180.00	43.27000
##	61	eTIP4hpddm		Female	Black	104.0	160.00	19.20000
##	64	A85a96UqL3	55	Male	White	198.0	172.00	33.38000
##	66 60	pL7cjkuchS		Female	White	126.1	165.10	23.71094
##	69 71	3KSfMkioqd	81	F	White	79.8	178.00	25.86000
##	71	hOAW4YaVS6	56	F	White	161.0	182.90	43.61000
##	72	GMM5IIMsks	32	M	White	74.0	160.00	28.96000
##	74 75	Kfx0Q150T8	49	M F	White	82.5	175.00	39.49000
##	75 76	7kQUZ43oC8	23		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	Kfx0Q150T8	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		74	M	White	149.2	188.00	29.19184
	85	owdrTVqd26	46	F	White	61.9	170.20	34.22041
	86	TeelIO19by		Female		100.3	170.20 NA	29.96000
	88	C2DRgzRqj7	40	F	White	68.4	182.30	21.53000
	oo 89	GW3gmyWKj7	47	r F	White	71.7	172.50	42.58000
## ##	91	5TLquRFvBi	41	F	Black <na></na>	VI.V NA	185.00	28.96000
##	92	5TLquRFvBi	24	<na></na>	White	136.9	170.00	18.79000
##	93	e2XxEm3acg	28	M	White	141.0	165.10	56.78000
##	95 95	I4zTRqpHco	44	M	Black	86.5	167.60	37.20000
##	96	SzCWauSPpe 1P5kPzvd9t	27	Male		90.8	185.00	24.94000
##	97	F1V8vF1ekH	56	Mare	Hispanic White	110.0	177.80	32.55764
##	98		46	Male	Black	96.4	177.80	32.33704 NA
##	100	xxah5hoZVX	61		White	79.7	177.80	25.41000
##	100	O	53	Female		95.7	162.60	53.20000
##		pNzvrqNfXv	62	M M	White White	106.0	175.30	33.44000
##		KL9bwQLGY3	64	M	White	127.3	162.60	15.54000
##			52	M	White	112.4	177.80	26.84000
##		SzCWauSPpe	56	F	White	121.8	177.00	45.75000
##	107	argAUZmnvn rPjBoa86kB	56	Male	White	64.5	170.20	27.65000
##		RPKFkP3mF7	67	Mare	White	170.0	180.30	36.70000
##		AQXGYHxdC0	59	M	White	72.0	177.80	50.58000
##		RLIZJgcVd8	64	M	White	69.4	180.00	32.03000
##		DjjRrZGNhd	35	Male	White	155.0	185.00	36.02736
##		GRgi1BcRFF	78	Male	White	106.0	165.10	29.70341
##		ar1fphuqKw	30		Hispanic	79.7	177.80	27.02979
##	117		48	M	White	97.6		347.88167
##		A85a96UqL3	30	Male	White	124.0	170.20	26.01000
##		fxfMuneuZ4	51	М	White	65.0	152.00	39.03000
##		q6danf6ZhC	57	F	White	91.7	170.20	21.53000
##		IwoGIkuRxW	31	Male	White	106.0	175.30	NA
##		p3uCdY5XSk	52	М	White	74.8	180.30	25.51000
##	127	_	73	F	White	76.3	180.00	35.18232
##		OwwryljbEQ	32	М	White	131.0	172.00	25.62000
##		sT8IH3ZooD	43	Male	Black	96.1	183.00	28.32000
##		d5YupdnG8g	39	М	White	101.0	167.60	27.60000
##		CUkgYtax4B		Female	White	84.0	177.80	43.51834
##		d5YupdnG8g	54	М	White	74.0	157.50	49.78000
##		TqQ4YnODN5	23	Male	Black	85.7	188.00	28.52043
##		8NReDzROyU	73	F	White	55.0	152.40	28.97000
##		IqkI11WYK7		Female	White	104.5	189.00	26.84000
##		S65F25Nb7v	57	М	Black	62.0	182.60	21.70000
##		p3uCdY5XSk	58	Male	<na></na>	82.1	170.20	33.24000
##		WpXIJg30L2		Female	White	87.8	167.00	23.11000
##		lgwsTbQ9bX	57	F	White	114.8	172.70	26.57000
##		1uksyaSHeL	52	M	White	95.0	162.60	33.95201
##		qBAgaxacbM	56	Male	White	74.0	170.20	34.21687
##		XLquXLGSRi	33	Male	White	94.7	157.50	29.52000
##		eTIP4hpddm	78	F	White	96.9	185.00	38.04000
##		SzCWauSPpe	56	М	White	122.0	177.80	19.57000
		-	57	М	White	114.6	167.60	
##	157	Cwy6w4MuKf	: D /	141	wii i i.⊖	J 14. D	101.00	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	7TZZyYOyMi	51	М	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	${\tt bGRYJRCGmT}$	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	$\mathtt{qBAgaxacbM}$	57	М	White	58.7	131.30	36.50000
##	174	TeelI019by	53	М	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	М	White	101.0	182.90	21.24000
##		${\tt EtsodwhqN0}$	73	М	White	109.0	182.90	28.47001
##		fbbgoc1RTa	65	М	White	65.0	157.00	32.98000
##	184	q6danf6ZhC	54	Male	White	113.0	174.00	26.12862
##		ds8kizHdyF	28	М	White	117.0	152.00	18.53688
##		3KSfMkioqd	52	М	White	107.0	165.10	36.35000
##		EtsodwhqN0	57	F	White	76.3	176.00	35.18232
##		d1KObvMArw	22	Male	White	136.0	182.90	53.52000
##		RPKFkP3mF7	59	М	White	118.6	184.00	45.75000
##		GRgi1BcRFF	19	М	White	104.5	170.00	26.60000
##		5dVrn2ayfY	23	F	White	96.0	180.30	44.74000
##		erG5SEIJWp	NA	M	White	115.2	170.20	27.02380
##		TqQ4YnODN5	38	Male	White	106.8	167.00	44.25000
##		uD0NxQpQ5F	56	M	White	77.8	170.20	28.12000
##		oa74Ed90gm	59	Male	White	124.0	165.10	36.89000
##		Eg09gedBMk	56	Male	White	96.4	159.00	28.72738
##		DjjRrZGNhd	52	F	White	159.2	185.00	22.79000
##		8NReDzROyU		Female	White	96.0	172.70	51.61000
##		uQKbY0aHUh	49	M	White	96.1	190.00	16.00043
##		argAUZmnvn	40	M	Other	65.0	177.80	52.64000
##		4Zz1llngXL	37	M	White	122.0 58.0	175.30	33.04000
##		9wMC9Rqblr	77	Male	White		175.30 NA	24.63531 27.80000
		nY6IQYyUNJ	29	M	White White	101.0 98.9	175.30	
##		pL7cjkuchS 9RJXcM3JN2	49 65	M Male	White	115.0		20.20000 40.84000
##		cCnBeL4FBu	67	Male	White	107.0	180.30 189.00	23.84620
##		3KSfMkioqd	28	Male	White	NA	161.30	22.80852
##		XLquXLGSRi	64	M	White	107.0	162.60	32.72000
##		5u0Xu0Tdc0	64	F	White	73.7	180.30	52.70000
##		CxsoWMlPJ7	52	M	White	95.0	170.20	39.14000
##		AQXGYHxdCO	47	Male	White	96.0	196.00	32.06000
##		sMJ8f6IKAW	65	М	White	110.0	175.30	42.21000
##		isLH4ZYjDV	65	M	White	154.7	175.30	36.56337
##		SHVAA5chqV	78	F	White	66.2	162.60	36.56337
##		aCmgyoBDAU	61	M	White	99.9	182.90	23.20312
##		Yx4YroY44a	29	F	White	85.6	162.60	46.48022
##		Eg09gedBMk	69	М	White	113.7	NA	34.81000
##		wExoR3npUK		Female	White	96.1	NA	39.71000
##		RLIZJgcVd8	57	М	Other	77.9	180.00	32.50000
##		pNzvrqNfXv		Female	White	125.2	170.00	21.53000
	•	1	-					

##	240	0074Ed00am	70	F	White	105.3	185.40	30.75000
		oa74Ed90gm 3NQYqtSjUW	67	r F	White	122.0	160.54	28.90000
##		dt1qZYVvWv	65	M	White	100.3	182.90	32.50000
##		3NQYqtSjUW		Female	White	75.2	163.00	26.90644
##		IwoGIkuRxW	40	F	Black	110.0	172.70	38.19000
##		nY6IQYyUNJ	30	F	White	110.0	160.54	48.44000
##		XjRrihOzHr	56	М	White	94.1	184.00	26.01000
##		sMJ8f6IKAW	70	Male	White	82.0	163.00	34.45000
##	257	, ,	54	F	White	115.0	162.00	34.32992
##		gvQFBONZVL	78	F	White	50.4	160.00	26.90644
##		wfzftPR62C	40	Male	White	127.3	188.00	34.58000
##		xPNg98Rj2c	36	М	<na></na>	95.0	175.30	32.85000
##		XLquXLGSRi	40	F	White	104.0	152.40	NA
##		5u0Xu0Tdc0	47	M	White	124.0	170.20	23.71094
##	264	oa74Ed90gm	67	M	White	160.0	172.50	17.40000
##	265	8NReDzROyU	56	M	White	97.5	154.90	31.01507
##	268	AQXGYHxdC0	53	${\tt Female}$	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	${\tt mcVVfHOKEn}$	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	М	White	114.8	172.70	31.88000
##	276	sMJ8f6IKAW	54	М	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
##		ghGLxbqUot	29	Female	<na></na>	136.9	170.20	32.29000
##		eWV175w604	57	F	White	123.0	185.40	22.48000
##	282	7VN31dBvd0	29	F	White	73.0	172.00	35.80000
##	286	mcVVfHOKEn	31	F	White	80.4	175.00	34.43000
##		ghGLxbqUot	59	М	White	55.7	149.90	31.59122
##	289		44	М	White	107.0	170.20	56.78000
##		W0709mDWf5	27	Male	Black	140.0	180.00	19.57000
##		10dDAKKGyk	48		Hispanic	76.8	167.60	31.77000
##		usAagb3Ys8	63	F	White	64.7	177.80	42.58000
		PlSf6mx953	52	M	White	85.7	162.60	26.08525
##		7TZZyYOyMi	49	F	White	51.3	167.60	37.33000
##		HDHj5t6h8Q	31	M	White	99.2	183.00	34.76000
##		u8FjkVujGh	44	M	White	69.2	173.60	42.14943
##		pL7cjkuchS	58	M	White	86.5	185.40	25.78740
##		RUJwtKyHR6	17	M	White	115.3	162.60	38.71000
##		XjRrih0zHr		Female	White	102.9	179.60	26.01000
##		IqbiKaQrSQ	39	М	White	98.5	182.90	31.67000
##		3KSfMkioqd	64	F	White	148.0	170.20	33.53012
##		KL9bwQLGY3		Female	White	90.4		35.80000
##		w1d5gKl9AF	67	M	White	86.3	175.30	29.30000
##		•	32			82.4	152.00	46.58000
##		d1KObvMArw	32 81	M M	White	50.2	170.20	
		vlb0gzZhmX		M M	White		170.20	43.27000
##		rPjBoa86kB	49	M	White	114.8	163.00	21.53000
##		u8FjkVujGh		Female	White	88.4	198.10	53.20000
##		F1V8vFIekH	49	M	Black	97.6	170.20	41.79592
##		vSewHcBXnT	61	F	White	132.0	188.00	25.51000
##	326	GMM5IIMsks	53	Female	White	85.4	182.90	40.39018

шш	200		г.	-	< AT A >	NT A	147 20	00 70000
		ysIXFTGIsU	51 55	F M	<na> White</na>	NA 124.0	147.30 160.00	29.76000 31.26370
		9wMC9Rqblr		Female	White	105.0	162.90	36.08000
		zsEX1QoxFm CUkgYtax4B	14	remare	White	70.1	163.00	36.00000
		_	49	F		122.0	183.00	41.54000
		zsEX1QoxFm			White		157.00	
		sdfifHRB6T	25	M F	White	83.2		28.38000
		bGRYJRCGmT	53	=	White	79.7	170.20	33.82641
		7TZZyYOyMi	50	Male	White	96.4	150.00	26.57000
		EePz5z50fK	43	F F	White	170.0	188.00	32.29000
		nY6IQYyUNJ	69		White	146.0	171.50	37.05333
##		C2DRgzRqj7	61	Male	White	92.8	172.70	24.82459
##		v9PAyt2zS6	14	Male	White	124.0	182.90	38.59000
##		gJ2ERPGGQc	65	M	White	122.0	170.20	30.27000
##		ysIXFTGIsU	83	M	White	65.0	160.00	37.17000
##		v9PAyt2zS6	61	M	White	64.5	160.00	32.49000
##		gJ2ERPGGQc	36	F	White	86.5	170.20	31.44437
##		XjRrih0zHr	60	Male	Black	100.3	170.00	33.53012
	357		NA		<na></na>	NA	NA	NA
	359	<i>J J</i>	44	Male	White	193.7	177.00	34.22041
		vSewHcBXnT	35	М	White	79.0	154.90	30.53000
	363		NA	_	<na></na>	NA	NA	NA
		ekDtKmOTAg	38	F	White	84.1	190.50	31.44766
##		v9PAyt2zS6	63	Male	Black	132.0	185.00	34.81000
##		eTIP4hpddm	30	F	Black	110.9	180.30	40.13841
##		TXgFTizXwY	39	<na></na>	Black	75.2	185.40	27.70000
##		1P5kPzvd9t	76	F	White	80.7	157.70	26.01070
##		EePz5z50fK	62	F	Hispanic	96.0	172.70	21.81000
##		VVxY2ojz0G	76	М	White	125.0	170.20	51.60000
##		TXgFTizXwY	59	М	White	89.9	182.90	33.82641
##		GW3gmyWKj7	48	М	White	79.4	172.00	37.47000
##		7kQUZ43oC8	53	Male	White	90.7	NA	24.68372
##	380	IqbiKaQrSQ	51	F	White	81.6	165.10	33.62000
##		XHODUqel1R	65	Female	White	78.3	195.60	25.28000
##		Yx4YroY44a	39	М	Black	94.7	172.70	NA
##		nY6IQYyUNJ	72	Male	White	113.7	183.00	23.84620
##		sMJ8f6IKAW	NA	М	White	78.3	157.00	15.60000
		5TLquRFvBi	43	F	White	69.8	177.80	39.03000
		${\tt ar1fphuqKw}$	58	Male	White	115.0	163.00	37.08000
##		ekDtKmOTAg		Female	White	78.2	131.30	18.53688
##		qapZgo14KS	53	F	White	90.8	182.90	28.38000
##		vlb0gzZhmX	26	Male	White	160.0	185.40	38.44212
##		PlSf6mx953	22	F	White	83.5	162.60	38.43000
##		4Zz1llngXL	30	Male	White	154.7	198.10	18.79425
##		S65F25Nb7v	54	<na></na>	White	96.0	182.90	22.25945
##		xPNg98Rj2c	49	F	White	58.3	175.00	26.11877
##		sMJ8f6IKAW	32	Male	White	95.7	165.10	17.40000
##		TeelI019by	18	M	White	82.0	188.00	31.59750
##	404	${\tt aCmgyoBDAU}$	35	M	White	190.5	185.40	26.55000
##	406	erG5SEIJWp	40	Male	White	114.0	167.00	35.19692
##		IcjCW6rMOW	24	M	White	95.4	190.50	26.57000
##	408	isLH4ZYjDV	68	${\tt Female}$	White	123.0	182.90	38.68000
		RLIZJgcVd8	60	F	White	164.9	175.30	50.58000
##	411	$\mathtt{uQKbY0aHUh}$	25	Male	White	100.0	182.90	37.51850
##	414	${\tt 1uksyaSHeL}$	44	${\tt Female}$	White	105.3	160.00	21.40290

```
## 416 WpXIJg30L2
                    32
                                   White
                                               79.8
                                                        160.00 33.11000
                             Μ
## 417 JibNJxmh9o
                    23
                             F
                                                        74.00
                                                                26.31000
                                  White
                                               90.8
                    47 Female
                                                        167.60
## 418 1uksyaSHeL
                                   White
                                              122.0
                                                                32.22488
## 419 sdfifHRB6T
                                   White
                                              159.2
                                                        162.90
                                                                32.06000
                    59
                             F
## 422 qapZgo14KS
                    67
                             М
                                   Black
                                              132.0
                                                        175.30
                                                                27.04000
  423 xxah5hoZVX
                             F
                                                        160.00
                                                                37.67000
                                   White
                                               82.7
##
                           diagnosis reintubation trached
                                                                                     co2
                                                                                ρh
## 1
                                                                                    33.1
                            COVID-19
                                                 NA
                                                      FALSE
                                                                             6.96
## 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
                                                                             7.44
                                                                                    62.0
           Cardiovascular condition
                                              FALSE
                                                       TRUE
##
  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
                                                                             7.09
                                                                                    77.0
                                                 NA
                                                      FALSE
                                <NA>
## 11
                            COVID-19
                                                 NA
                                                       TRUE
                                                                              7.6
                                                                                    39.0
## 12
                                                      FALSE
                                                                              NDA
                                                                                    59.0
                            COVID-19
                                             FALSE
##
  13
       Other respiratory condition
                                             FALSE
                                                      FALSE
                                                                              NDA
                                                                                    59.0
##
  20
                                 <NA>
                                                 NΑ
                                                       TRUE
                                                                             7.08
                                                                                      NΔ
##
  21
       Other respiratory condition
                                                      FALSE
                                                                              <NA>
                                                                                    35.7
                                                 NA
## 23
                                             FALSE
                                                       TRUE
                                                                             7.24
                                                                                    44.0
       Other respiratory condition
                            COVID-19
                                              FALSE
                                                      FALSE
                                                                             7.32
                                                                                    72.0
##
  24
## 25
           Cardiovascular condition
                                                 NΑ
                                                      FALSE
                                                                             7.32
                                                                                    58.3
  28
           Cardiovascular condition
                                                 NA
                                                        TRUE
                                                                             7.09
                                                                                      NA
##
  29
                                                        TRUE
                                                                             7.35
                                                                                    38.0
       Other respiratory condition
                                              FALSE
   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
                                                      FALSE
                                                                             7.49
                                                                                    41.6
                                 <NA>
                                                                             7.39
                                                                                    30.0
##
  40
                                               TRUE
                                                          NA
       Other respiratory infection
##
  42
                                              FALSE
                                                        TRUE
                                                                             7.11
                                                                                      NA
                               Other
##
  43
                            COVID-19
                                                        TRUE
                                                                             7.36 100.0
                                                 NA
## 44
       Other respiratory infection
                                             FALSE
                                                        TRUE
                                                                             7.41
                                                                                    75.0
## 46
                            COVID-19
                                                      FALSE
                                                                             7.14
                                                                                    38.0
                                                 NA
## 47
                            COVID-19
                                             FALSE
                                                        TRUE
                                                                              7.2
                                                                                    45.0
## 48
                                                                             6.95
                                                                                      NA
                                             FALSE
                                                      FALSE
                               Other
                                                                             7.20
                                                                                    19.5
   49
       Other respiratory condition
                                             FALSE
                                                        TRUE
##
       Other respiratory condition
                                             FALSE
                                                        TRUE
                                                                              NDA
                                                                                    37.0
   50
##
   52
       Other respiratory condition
                                                 NA
                                                       TRUE
                                                                             7.26
                                                                                      NA
## 53
                            COVID-19
                                                      FALSE
                                                                              NDA
                                                                                      NA
                                                 NA
## 54
                            COVID-19
                                                 NA
                                                      FALSE
                                                                             7.40
                                                                                      NA
                                                                             7.37
## 55
                                                                                    72.0
       Other respiratory condition
                                              FALSE
                                                          NA
## 57
           Cardiovascular condition
                                               TRUE
                                                      FALSE
                                                                             7.21
                                                                                      NA
## 59
                                 <NA>
                                                 NA
                                                      FALSE
                                                                             7.46
                                                                                    64.0
## 61
           Cardiovascular condition
                                             FALSE
                                                        TRUE
                                                                             7.38
                                                                                      NΑ
## 64
                                 <NA>
                                              FALSE
                                                      FALSE
                                                                             7.10
                                                                                    59.0
## 66
                                                                             7.28
           Cardiovascular condition
                                              FALSE
                                                          NA
                                                                                    51.0
## 69
                            COVID-19
                                                 NA
                                                        TRUE
                                                                              NDA
                                                                                    30.0
                                                      FALSE
## 71
                                 <NA>
                                               TRUE
                                                                             <NA>
                                                                                    48.0
## 72
           Cardiovascular condition
                                                 NA
                                                        TRUE
                                                                             7.44
                                                                                    39.0
```

	- 4	~					
	74	Cardiovascular		FALSE	NA		101.8
##		Cardiovascular		FALSE	FALSE	NDA	86.0
##		Other respiratory		FALSE	TRUE	7.49	NA
##			<na></na>	FALSE	TRUE	7.43	NA
##		Cardiovascular		FALSE	FALSE	7.43	61.0
##			COVID-19	FALSE	FALSE	NDA	NA
##			<na></na>	FALSE	NA	7.11	56.3
	84		Other	FALSE	FALSE		115.0
	85	Cardiovascular		FALSE	TRUE	7.36	NA
	86		<na></na>	FALSE	TRUE	7.40	36.0
##			COVID-19	FALSE	NA	7.11	35.0
##			Other	NA	FALSE	7.27	41.0
##			COVID-19	FALSE	FALSE	7.33	56.0
	92	Other respiratory		NA	NA	NDA	44.0
##			COVID-19	NA	FALSE	7.36	46.0
##			<na></na>	FALSE	TRUE	7.22	39.0
	96	Other respiratory		FALSE	TRUE	7.08	41.0
##			Other	TRUE	FALSE	7.36	NA
	98	Other respiratory		FALSE	TRUE	7.27	63.4
	100	Cardiovascular		NA	FALSE	7.37	33.8
	102	Cardiovascular		FALSE	FALSE	NDA	56.3
	103		COVID-19	FALSE	NA	6.78	43.0
		Other respiratory		FALSE	FALSE	NDA	74.0
	105	Cardiovascular		NA	TRUE	7.48	39.0
	106	Cardiovascular		TRUE	TRUE	7.11	35.0
	107		COVID-19	NA	FALSE	7.11	71.9
	108	Cardiovascular		NA	FALSE	NDA	40.0
##	1 / \a	Cardiovascular	condition	FALSE	FALSE	7.16	79.0
##	111	Cardiovascular	condition	NA	FALSE	7.42	41.9
## ##	111 112		condition condition	NA FALSE	FALSE FALSE	7.42 NDA	41.9 62.0
## ## ##	111 112 113	Cardiovascular	condition condition Other	NA FALSE NA	FALSE FALSE FALSE	7.42 NDA no info from OSH	41.9 62.0 NA
## ## ## ##	111 112 113 116	Cardiovascular	condition condition Other COVID-19	NA FALSE NA FALSE	FALSE FALSE FALSE FALSE	7.42 NDA no info from OSH 7.22	41.9 62.0 NA 57.0
## ## ## ##	111 112 113 116 117	Cardiovascular Cardiovascular	condition condition Other COVID-19 Other	NA FALSE NA FALSE NA	FALSE FALSE FALSE FALSE NA	7.42 NDA no info from OSH 7.22 <na></na>	41.9 62.0 NA 57.0 48.0
## ## ## ## ##	111 112 113 116 117 121	Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition	NA FALSE NA FALSE NA FALSE	FALSE FALSE FALSE FALSE NA TRUE	7.42 NDA no info from OSH 7.22 <na> 7.24</na>	41.9 62.0 NA 57.0 48.0 57.0
## ## ## ## ## ##	111 112 113 116 117 121 122	Cardiovascular Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition	NA FALSE NA FALSE FALSE FALSE	FALSE FALSE FALSE NA TRUE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0
## ## ## ## ## ##	111 112 113 116 117 121 122 123	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory	condition condition Other COVID-19 Other condition condition	NA FALSE NA FALSE FALSE FALSE FALSE	FALSE FALSE FALSE NA TRUE NA FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0
## ## ## ## ## ##	111 112 113 116 117 121 122 123 124	Cardiovascular Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection	NA FALSE NA FALSE FALSE FALSE FALSE	FALSE FALSE FALSE NA TRUE NA FALSE FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3
## ## ## ## ## ##	111 112 113 116 117 121 122 123 124 126	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Other respiratory	condition condition Other COVID-19 Other condition condition condition infection COVID-19	NA FALSE NA FALSE FALSE FALSE FALSE NA FALSE	FALSE FALSE FALSE NA TRUE NA FALSE FALSE FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA
## ## ## ## ## ## ##	111 112 113 116 117 121 122 123 124 126 127	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition	NA FALSE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE	FALSE FALSE FALSE NA TRUE NA FALSE FALSE FALSE TRUE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA
## ## ## ## ## ## ##	111 112 113 116 117 121 122 123 124 126 127 128	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition infection	NA FALSE NA FALSE FALSE FALSE FALSE TALSE TALSE TALSE	FALSE FALSE FALSE NA TRUE NA FALSE FALSE TRUE FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.22</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0
## ## ## ## ## ## ## ## ## ## ## ## ##	111 112 113 116 117 121 122 123 124 126 127 128 129	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory	condition condition Other COVID-19 Other condition condition infection COVID-19 condition infection condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA	FALSE FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.22 7.33</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0
## ## ## ## ## ## ## ## ## ## ## ## ##	111 112 113 116 117 121 122 123 124 126 127 128 129 134	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Other respiratory	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition infection condition condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA	FALSE FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.33</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0
## ## ## ## ## ## ## ## ## ## ## ## ##	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition infection condition condition condition condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA	FALSE FALSE FALSE NA TRUE NA FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.33 7.1</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4
######################################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Other respiratory	condition condition Other COVID-19 Other condition condition infection COVID-19 condition infection condition condition condition condition condition condition condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA	FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE NA	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.22 7.33 7.1 7.09 7.06</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0
######################################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Other respiratory Cardiovascular	condition condition Other COVID-19 Other condition condition infection COVID-19 condition infection condition condition condition condition condition condition condition COVID-19 COVID-19	NA FALSE NA FALSE FALSE FALSE TALSE TRUE NA NA NA NA TRUE	FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE NA NA	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.22 7.3 7.1 7.09 7.06 7.31</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA
######################################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Other respiratory	condition condition Other COVID-19 Other condition condition infection COVID-19 condition infection condition condition condition condition condition condition condition condition condition COVID-19 COVID-19 condition	NA FALSE NA FALSE FALSE FALSE TALSE TALSE TALSE TRUE NA NA NA NA TRUE NA	FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE NA NA FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0
######################################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition infection COVID-19 condition infection condition condition condition condition condition condition condition COVID-19 COVID-19 condition COVID-19	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA NA TRUE NA	FALSE FALSE NA TRUE NA FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0
# # # # # # # # # # # # # # # # # # #	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139 140	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Other respiratory Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition condition condition condition condition condition condition condition COVID-19 condition COVID-19 condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA NA TRUE NA NA TRUE NA NA TRUE	FALSE FALSE FALSE NA TRUE NA FALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA NDA NDA</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0 12.0 38.4
######################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139 140 141	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition condition condition condition condition condition COVID-19 COVID-19 condition COVID-19 condition COVID-19 condition COVID-19 condition COVID-19 condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA NA TRUE NA NA FALSE NA	FALSE FALSE FALSE NA TRUE NA FALSE TRUE FALSE TALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA NDA NDA NDA 7.34</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0 12.0 38.4 47.0
#######################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139 140 141 142	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition condition condition condition condition condition condition COVID-19 COVID-19 condition COVID-19 condition Other Other	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA TRUE NA NA FALSE NA TRUE NA NA	FALSE FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA NDA NDA 7.34 7.34 7.35</na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0 12.0 38.4 47.0 71.8
#########################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139 140 141 142 144 145	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Cardiovascular Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition condition condition condition condition condition condition condition condition COVID-19 COVID-19 condition Other Other condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA TRUE NA NA TRUE NA NA FALSE NA FALSE	FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TALSE TRUE TALSE TRUE TALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA NDA NDA 7.34 7.35 <na></na></na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0 12.0 38.4 47.0 71.8 31.0
#########################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139 140 141 142 144 145 148	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition condition condition condition condition condition condition COVID-19 COVID-19 condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA NA TRUE NA NA FALSE NA FALSE NA	FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TALSE TRUE TALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA NDA NDA 7.34 7.35 <na> 7.35</na></na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0 12.0 38.4 47.0 71.8 31.0 37.0
##########################	111 112 113 116 117 121 122 123 124 126 127 128 129 134 135 136 137 139 140 141 142 144 145	Cardiovascular Cardiovascular Cardiovascular Cardiovascular Other respiratory Cardiovascular Other respiratory Other respiratory Other respiratory Cardiovascular Cardiovascular Cardiovascular Cardiovascular	condition condition Other COVID-19 Other condition condition condition infection COVID-19 condition condition condition condition condition condition condition condition condition COVID-19 COVID-19 condition Other Other condition	NA FALSE NA FALSE FALSE FALSE FALSE TRUE NA NA NA TRUE NA NA TRUE NA NA FALSE NA FALSE	FALSE FALSE NA TRUE NA FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TALSE TRUE TALSE TRUE TALSE	7.42 NDA no info from OSH 7.22 <na> 7.24 7.47 7.24 7.31 NDA 7.22 7.32 7.3 7.1 7.09 7.06 7.31 7.32 NDA NDA NDA 7.34 7.35 <na></na></na>	41.9 62.0 NA 57.0 48.0 57.0 128.0 75.0 56.3 NA NA 37.0 60.0 48.0 39.4 37.0 NA 59.0 12.0 38.4 47.0 71.8 31.0

##	152	Cardiovascular	condition	TRUE	FALSE	7.35	NA
	156	Cardiovascular		FALSE	NA	7.46	63.4
	157	oararovaboarar	COVID-19	NA	NA	7.11	77.0
	158	Cardiovascular		NA	TRUE	7.21	59.0
	159	Cardiovascular		FALSE	TRUE	no info from OSH	45.0
##	160	odrafovabourar	COVID-19	NA	NA	7.31	47.3
##	162		Other	NA	TRUE	Not Available	46.0
		Other respiratory		NA	FALSE	7.42	60.0
##	165	Cardiovascular		NA	TRUE	7.04	43.0
	166	our uro vabourar	<na></na>	NA		7.3209999999999884	46.0
	168	Cardiovascular		NA	FALSE	7.11	36.0
##		Other respiratory		NA	TRUE	7.22	34.0
##		Other respiratory		NA	TRUE	7.4	41.0
	172	j	COVID-19	NA	NA	NDA	61.0
	174	Cardiovascular		FALSE	FALSE	7.27	24.2
	176	Cardiovascular		FALSE	TRUE	7.04	71.6
	177	Cardiovascular		FALSE	TRUE	6.78	64.0
	178		COVID-19	NA	FALSE	7.52	31.0
	179	Cardiovascular		TRUE	NA	7.31	31.0
##	183		COVID-19	FALSE	TRUE	7.14	NA
##	184		COVID-19	NA	TRUE	<na></na>	56.0
##	185	Cardiovascular	condition	NA	FALSE	7.31	75.0
##	188	Other respiratory	condition	FALSE	TRUE	not measured	81.0
	189	1	COVID-19	NA	NA	7.52	53.0
##	193	Other respiratory	condition	NA	FALSE	7.43	24.2
		Other respiratory		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></na>	64.8
##	201		COVID-19	NA	TRUE	7.37	128.0
##	202		<na></na>	FALSE	NA	7.31	33.1
##	204	Cardiovascular	condition	FALSE	TRUE	7.11	NA
##	206	Cardiovascular	condition	NA	FALSE	<na></na>	86.0
##	207		COVID-19	NA	TRUE	7.42	NA
##	209		<na></na>	NA	TRUE	7.31	50.7
##	210	Other respiratory		FALSE	FALSE	7.32	NA
	214		COVID-19	FALSE	NA	7.49	44.3
	216	Cardiovascular		NA	TRUE	7.38	63.0
		Other respiratory		TRUE	NA	7.37	NA
	220		COVID-19	TRUE	TRUE	7.39	NA
		Other respiratory		NA	FALSE	7.39	34.0
	226	Cardiovascular		FALSE	FALSE	7.25	53.0
	229		COVID-19	FALSE	FALSE	7.30	43.0
	230	Cardiovascular		FALSE	FALSE	7.26	43.0
	231		COVID-19	NA	NA	7.33	39.4
		Other respiratory		FALSE	FALSE	7.40	NA
	235	0.1	COVID-19	FALSE	TRUE	7.33	43.9
		Other respiratory		NA	FALSE	7.29	NA
	237		COVID-19	FALSE	TRUE	7.34	64.0
	238		COVID-19	FALSE	TRUE	7.20	44.3
	239	O+b	COVID-19	NA	NA	7.6	63.0
		Other respiratory		NA NA	TRUE	7.21	56.3
		Other respiratory		NA	FALSE	N 7.05	63.0
##	244		COVID-19	FALSE	FALSE	7.25	48.0

	045		COULTD 40	TALOR	EAT OF	7 44	40.0
	245		COVID-19	FALSE	FALSE	7.41	40.0
	246		COVID-19	FALSE	FALSE	7.45	47.3
##	247	Cardiovascular		NA	NA	6.78	36.2
##	249	Cardiovascular		FALSE	TRUE	<na></na>	57.0
##	250		COVID-19	NA	FALSE	7.11	86.0
##		Other respiratory		NA	TRUE	7.38	60.0
##	252	Cardiovascular		TRUE	TRUE	7.38	58.0
##	253	<b>a</b>	COVID-19	FALSE	FALSE	7.42	39.0
##	254	Cardiovascular		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		FALSE	NA	7.36	19.5
##	262		COVID-19	FALSE	NA	7.16	24.2
##	263		COVID-19	NA		7.1529999999999958	NA
##	264		Other	NA	FALSE	7.37	43.9
		Other respiratory		NA	TRUE	7.15	56.0
	268		<na></na>	TRUE	TRUE	7.24	52.0
	269	Cardiovascular		FALSE	FALSE	7.04	70.0
		Other respiratory		NA	NA		125.0
	271		COVID-19	NA	TRUE	7.22	57.0
		Other respiratory		NA	TRUE	7.30	53.0
##	273	Other respiratory	condition	NA	FALSE	7.35	39.5
	274	Cardiovascular		FALSE	NA	7.10	48.0
		Other respiratory		FALSE	FALSE	7.21	61.0
##	276	Other respiratory		FALSE	FALSE	NDA	77.0
	277	Cardiovascular		NA	FALSE	7.24	NA
	278		COVID-19	NA	FALSE	7.26	52.0
	279		<na></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		FALSE	NA	7.53	31.0
		Other respiratory ${f 0}$	condition	FALSE	TRUE	NDA	37.3
	290	Cardiovascular		NA	FALSE	7.02	NA
	293		<na></na>	FALSE	FALSE	NDA	49.0
	294	Cardiovascular	condition	NA	FALSE	7.3	35.7
	296	Cardiovascular		NA	TRUE	7.09	77.0
	297		COVID-19	NA	FALSE	V: 6.92	
	298		Other	NA	TRUE	7.27	44.0
##	299		COVID-19	NA	FALSE	7.36	62.5
		Other respiratory		NA	TRUE	7.35	39.4
	301		COVID-19	FALSE	TRUE	7.40	30.0
##	302		COVID-19	NA	TRUE	NDA	NA
	303	Cardiovascular		NA	TRUE	7.31	51.0
##	305	${\tt Other\ respiratory}$	condition	TRUE	TRUE	7.52	37.3
##	308		Other	TRUE	NA	NDA	48.0
##	314	${\tt Other\ respiratory}$	${\tt condition}$	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 ${f 0}$	condition	TRUE	TRUE	7.11	51.0

		$\hbox{\tt Other respiratory}$		FALSE	FALSE	7.34	39.0
	324		Other	FALSE	FALSE	7.17	48.0
		Other respiratory		NA	FALSE	7.43	39.0
		Other respiratory		FALSE	NA	7.49	33.0
	330		COVID-19	TRUE	TRUE	7.44	NA
		Other respiratory		FALSE	NA	7.27	42.7
	333	Cardiovascular		FALSE	TRUE	7.41	45.0
	334	Cardiovascular		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	01:	COVID-19	FALSE	FALSE	7.10	NA
	346	Cardiovascular		NA EALGE	FALSE	7.12	43.9
	347		COVID-19	FALSE	NA	7.26	63.0
	348		<na></na>	TRUE	TRUE		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 NA	FALSE	7.14	NA NA
	357	0+1	<na></na>	NA EALGE	NA EALCE	7 10	NA NA
		Other respiratory		FALSE	FALSE	7.12	NA MA
	361 363		COVID-19 <na></na>	FALSE NA	NA NA	7.40	NA NA
		Other meanimeters			FALSE	7.42	39.5
	365	Other respiratory Cardiovascular		FALSE	TRUE	7.42	72.0
	368	Cardiovascular		NA NA	TRUE	7.24	41.0
	369	Caldiovasculai	<na></na>	NA NA	TRUE	7.44	35.3
		Other respiratory		TRUE	NA	7.44	80.0
	374	other respiratory	<na></na>	FALSE	NA NA	<na></na>	39.0
		Other respiratory		FALSE	NA	7.37	43.0
	376	other respiratory	COVID-19	NA	FALSE	7.49	80.3
	378		COVID-19	TRUE	TRUE	7.4	32.0
	379	Cardiovascular		FALSE	FALSE	7.35	57.0
	380	odrafovabourar	Other	FALSE	NA	7.48	NA
	381		COVID-19	NA	FALSE	7.05	71.9
		Other respiratory		FALSE	TRUE	7.32	42.0
		Other respiratory		FALSE	FALSE	7.50	52.0
	384	<i>j</i>	COVID-19	FALSE	NA	7.54	25.0
	385		COVID-19	NA	TRUE	7.36	62.0
	386	Cardiovascular		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></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></na>	FALSE	FALSE	7.32	NA
	399		<na></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	${\tt condition}$	FALSE	TRUE	7.43	40.0
##	407		<na></na>	FALSE	TRUE	7.28	57.0
##	408		Other	NA	FALSE	7.28	37.0

	409 411	Cai	rdiovascular	condition COVID-19	NA NA			V:	7.33 6.92	140.0 49.0
##	414	Other	respiratory	condition	NA	FALSE			7.03	53.0
##	416	Cai	rdiovascular	condition	FALSE	NA			7.3	70.8
##	417	Cai	rdiovascular	condition	NA	TRUE			7.23	52.0
##	418	Cai	rdiovascular	condition	FALSE	TRUE			7.31	38.0
##	419	Cai	rdiovascular	condition	NA	FALSE			7.23	118.0
##	422	Cai	rdiovascular	condition	FALSE	NA			7.37	72.0
	423			<na></na>	FALSE				7.25	59.0
##			=	creatinine_peak		_bilirubin	_			
##		68.0	3.9				3.9			
##		542.0	NA				NA			
##		NA	NA				NA			
##		109.0	2.9				0.9			
##		NA	2.3				8.9			
##		49.0	2.3				0.5			
##		NA 13E O	NA 3				1.0			
## ##		135.0 NA	3.0 8.5				$\frac{2.7}{1.4}$			
##		116.0	9.0				NA			
##		NA	4.8				NA			
	12	49.0	3.7				4.4			
	13	232.0	3.2				NA			
##		80.0	7.3				4.4			
##		186.0	1.5				1.3			
	23	69.2	2.6				3.4			
	24	62.0	13.3				3.5			
	25	11.0	2.9				8.9			
	28	NA	2.0				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	N A				NA			
##		116.0	1.9	1.90			NA			
##		51.0	2.4				2.5			
##		419.0	NA				4.8			
	44	66.0	3.7				NA			
##		208.0	3.3				4.9			
	47	121.0	13.1				1.1			
##		36.0	8.5				5.4			
## ##		NA 208.0	4.2 9.7				NA 0.9			
##		54.0	17.5				3.0			
##		NA	2.6				29.8			
##		394.4	10.0				NA			
##		NA	1.0				14.0			
##		253.6	8.7				NA			
##		79.0	4.9				1.6			
##		323.0	1.9				NA			
##		76.0	3.7				2.2			
##		59.0	5.0				5.4			

##		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 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
		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		9.5	1.56	3.6
	122	38.0	2.6	0.95	NA NA
	123	64.0	1.4	2.23	0.5
		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
		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
##		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
##		109.6	2.4	1.33	2.6
##		135.0	10.9	1.56	12.6
##		174.0	2.1	1.14	2.1
##		124.0	0.8	1.72	0.7
##	172	NA	NA	0.87	NA
##		330.4	17.5	2.88	40.0
##		152.0	6.2	0.92	3.4
##	177	19.0	4.3	NA	1.1
##	178	NA	2.3	NA	13.3
##		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 10.1
## ##	189	330.4	1.6	NA 1.66	19.1 NA
##	193	NA NA	1.5 3.0		
##				1.19 5.10	0.8
##		102.6 288.0	2.4	2.70	NA
##	199	83.0	2.0 NA	2.66	NA NA
##		383.0	6.9	1.56	NA NA
##		112.0	5.4	NA	NA
##		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
		106.0	6.4	NA	3.4
		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
		109.0	NA	1.35	NA
		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
		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
	<ul><li>265</li><li>268</li></ul>	69.0	0.8	0.63	1.4
		68.9 266.0	15.4 NA	1.10 NA	1.1 NA
	270	116.0	3.9	3.05	NA NA
	271	87.0	11.7	1.96	0.3
##		124.0	8.4	NA	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
		360.0	9.0	1.65	0.7
		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
		288.0	2.3	0.71	2.6
	301	47.0	1.3	0.83	2.2
	302	76.0	9.6	NA NA	1.7
	303 305	58.0 59.0	17.5 6.0	NA NA	1.3
		123.0	1.1	4.46	3.1
		130.0	17.5	1.35	NA
	315	68.0	4.0	0.57	7.9
ir <del>iT</del>	010	50.0	4.0	0.57	1.9

шш	216	00 0	0.0	NT A	0.4
	316	90.0	3.3	NA	0.4
	319	NA	4.7	NA	NA
		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
		464.0	0.9	0.47	8.2
	334	NA	6.2	0.79	NA
	336	66.4	7.7	2.40	1.3
##		208.0	9.0	1.80	27.3
##	342	NA	3.1	1.46	1.3
##		139.4	7.8	2.11	0.5
##		139.4	15.0	NA	1.0
##	346	59.0	4.5	0.79	6.7
	347	NA	3.9	1.73	NA
		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
##		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
##		118.9	3.5	6.09	0.9
##	375	54.0	NA F. O	NA 1 F7	0.4
	376	42.0	5.9	1.57	1.9
##	378	58.0	NA	1.65	1.1
		221.0	17.5	1.00	NA
	380	91.1	NA	3.27	0.8
	381	NA	11.8	1.90	NA
		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
##		351.0	1.9	1.39	1.1
##		119.0	3.8	NA	3.1
##	398	NA	1.3	5.12	NA
	399	88.0	17.5	1.67	NA
		317.0	NA	2.40	NA
	403	87.0	4.8	1.38	2.0
##	404	NA	5.9	2.23	0.5

```
## 406
                       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>
                                                                             FALSE
                                                Heparin only
## 3
                      <= 12h
                                            No anticoagulant
                                                                              TRUE
## 4
             2 days - 7 days
                                    Heparin and bivalirudin
                                                                              TRUE
## 5
                        <NA>
                                                Heparin only
                                                                             FALSE
## 6
                   12h - 24h
                                                                              TRUE
                                            No anticoagulant
## 7
             2 days - 7 days
                                                Heparin only
                                                                             FALSE
## 8
                   12h - 24h
                                            Bivalirudin only
                                                                                 NA
## 9
                   12h - 24h
                                                Heparin only
                                                                              TRUE
             2 days - 7 days
## 10
                                            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
                                                                              TRUE
                                                Heparin only
## 24
                   12h - 24h
                                                                              TRUE
                                                Heparin only
                   12h - 24h
## 25
                                                         <NA>
                                                                             FALSE
## 28
                      <= 12h
                                                Heparin only
                                                                              TRUE
## 29
                        <NA>
                                                Heparin only
                                                                             FALSE
## 30
                      <= 12h
                                                                             FALSE
                                                Heparin only
             2 days - 7 days
## 31
                                            No anticoagulant
                                                                             FALSE
## 34
                   12h - 24h
                                                                             FALSE
                                            Bivalirudin only
## 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
                   12h - 24h
## 43
                                                Heparin only
                                                                              TRUE
## 44
                   >= 7 \text{ days}
                                                Heparin only
                                                                             FALSE
## 46
                      <= 12h
                                            Bivalirudin only
                                                                                 NA
## 47
                      <= 12h
                                    Heparin and bivalirudin
                                                                              TRUE
                   12h - 24h
## 48
                                            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
                                                                             FALSE
                                                Heparin only
## 55
                   12h - 24h
                                            Bivalirudin only
                                                                             FALSE
## 57
             2 days - 7 days
                                                Heparin only
                                                                             FALSE
## 59
                   12h - 24h
                                                Heparin only
                                                                             FALSE
```

##		2 days - 7 days	Heparin only	FALSE
##		<= 12h	No anticoagulant	TRUE
##		<= 12h	<na></na>	FALSE
##		<na></na>	Heparin only	NA
##		<= 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></na>	Heparin only	TRUE
##	77	<na></na>	Bivalirudin only	TRUE
##	79	12h - 24h	Heparin only	FALSE
##	82	12h - 24h	No anticoagulant	FALSE
##	83	<na></na>	Heparin only	FALSE
##	84	12h - 24h	Bivalirudin only	FALSE
##	85	<na></na>	<na></na>	FALSE
##	86	<na></na>	Heparin only	FALSE
##	88	<na></na>	Heparin only	FALSE
##	89	<na></na>	<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></na>	Bivalirudin only	TRUE
##	100	<= 12h	No anticoagulant	TRUE
##	102	<na></na>	Heparin only	FALSE
##	103	<na></na>	Bivalirudin only	TRUE
##	104	2 days - 7 days	Heparin only	NA
##	105	<= 12h	<na></na>	FALSE
	106	<na></na>	Heparin only	TRUE
##	107	12h - 24h	Bivalirudin only	NA
##	108	2 days - 7 days	Bivalirudin only	FALSE
	109	12h - 24h	<na></na>	FALSE
	111	12h - 24h	Heparin only	FALSE
	112	<= 12h	Heparin only	FALSE
	113	12h - 24h	Bivalirudin only	NA
	116	<= 12h	<na></na>	NA
	117	<na></na>	Heparin only	FALSE
	121	<na></na>	<na></na>	FALSE
	122	<= 12h	<na></na>	FALSE
	123	12h - 24h	No anticoagulant	TRUE
	124	12h - 24h	No anticoagulant	TRUE
	126	>= 7 days	Bivalirudin only	NA
	127	<= 12h	<na></na>	FALSE
	128	12h - 24h	Heparin only	FALSE
	129	12h - 24h	No anticoagulant	FALSE
	134	<= 12h	No anticoagulant	FALSE
	135	<na></na>	No anticoagulant Heparin only	TRUE
	136	>= 7 days	Heparin only	FALSE
	137	•	neparin only <na></na>	r alse NA
	137	>= 7 days 12h - 24h		FALSE
		12h - 24h	No anticoagulant	
	140		Bivalirudin only	FALSE
##	141	<na></na>	<na></na>	FALSE

##	142	<= 12h	Heparin only	NA
	144	<= 12h	Heparin only	FALSE
	145	<na></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></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></na>	Heparin and bivalirudin	TRUE
##	171	<= 12h	Heparin only	NA
##	172	<= 12h	Heparin and bivalirudin	FALSE
	174	<na></na>	<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></na>	Heparin only	TRUE
	183	2 days - 7 days	Heparin only	FALSE
	184	12h - 24h	Heparin only	NA
	185	<na></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
	200 201	12h - 24h >= 7 days	No anticoagulant	FALSE NA
	201	>- / days <na></na>	Heparin only Bivalirudin only	FALSE
	204		<na></na>	r alse NA
	204	>= 7 days <= 12h		NA NA
	207	>= 7 days	No anticoagulant Heparin only	FALSE
	209	2 days - 7 days	Heparin only	TRUE
	210	12h - 24h	Heparin only	TRUE
	214	<= 12h	Heparin only	NA
	216	<na></na>	Heparin only	NA
	217	<na></na>	<na></na>	FALSE
	220	<= 12h	<na></na>	FALSE
	223	<= 12h	Heparin and bivalirudin	TRUE
	226	2 days - 7 days	Heparin only	FALSE
	229	<na></na>	Heparin only	FALSE
	230	<na></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></na>	Heparin and bivalirudin	FALSE
	238	<na></na>	NA>	FALSE
	239	12h - 24h	Heparin only	TRUE
	240	2 days - 7 days	Heparin only	TRUE
	242	<na></na>	<pre>Nopulin only <na></na></pre>	NA
	244	12h - 24h	Heparin only	TRUE
	245	<na></na>	Heparin only	FALSE
	246	<na></na>	Heparin only	FALSE
	247	<na></na>	No anticoagulant	FALSE
##	249	12h - 24h	No anticoagulant	FALSE
##	250	12h - 24h	Bivalirudin only	FALSE
##	251	<= 12h	<na></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>	<na></na>	TRUE
	268	12h - 24h	Heparin only	NA
	269	>= 7 days	Bivalirudin only	FALSE
	270	<na></na>	Heparin only	TRUE
	271	12h - 24h	Bivalirudin only	TRUE
	272	<na></na>	Bivalirudin only	FALSE
	273	12h - 24h	Heparin only	FALSE
	274	<na></na>	<na></na>	TRUE
	275	<= 12h	Bivalirudin only	TRUE
	276	<na></na>	No anticoagulant	TRUE
	277	>= 7 days	<na></na>	TRUE
	278	<na></na>	Heparin only	FALSE TRUE
	279	>= 7 days 2 days - 7 days	Heparin only Bivalirudin only	TRUE
	280 282	2  days - 7  days $12h - 24h$		FALSE
	286	12h - 24h	Heparin only No anticoagulant	TRUE
	287	<= 12h	No anticoagulant Heparin only	TRUE
	289	12h - 24h	No anticoagulant	NA
	290	<na></na>	Heparin only	FALSE
	293	>= 7 days	Heparin only	FALSE
	294	12h - 24h	<na></na>	FALSE
	296	<na></na>	Heparin only	TRUE
	297	12h - 24h	Heparin only	TRUE
##	298	<na></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>	NA
##	305	12h - 24h	Bivalirudin only	NA

##	308	12h - 24h	Hanamin an	ly TRUE
	314	2 days - 7 days	Heparin on Heparin on	•
	315	Z days / days <na></na>	Heparin on	J
	316	12h - 24h	Heparin on	•
	319	<= 12h	Bivalirudin on	•
	320	12h - 24h	Heparin on	•
	323	<= 12h	No anticoagula	•
	324	<= 12h	No anologada	
	326	12h - 24h	Heparin on	
	328	12h - 24h	N-)	J
	330	<= 12h	Heparin on	
	332	12h - 24h	<n.< th=""><th>•</th></n.<>	•
	333	12h - 24h	<n.< th=""><th>A&gt; TRUE</th></n.<>	A> TRUE
	334	12h - 24h	Heparin on	
	336	<= 12h	Heparin on	-
	337	<na></na>	Bivalirudin on	=
##	342	<na></na>	Bivalirudin on	•
##	344	<= 12h	< N.	•
##	345	<na></na>	Heparin on	Ly TRUE
##	346	<na></na>	Bivalirudin on	Ly TRUE
##	347	<= 12h	Heparin on	Ly NA
##	348	<= 12h	Heparin on	ly FALSE
##	350	<na></na>	Bivalirudin on	Ly TRUE
##	352	<na></na>	No anticoagula:	nt FALSE
##	353	<na></na>	Bivalirudin on	Ly TRUE
##	355	12h - 24h	Bivalirudin on	Ly FALSE
##	357	<na></na>	< N.	A> NA
	359	<na></na>	< N.	
	361	<na></na>	Heparin on	ly FALSE
	363	<na></na>	< N.	
	364	12h - 24h	Heparin on	-
	365	<na></na>	Heparin and bivalirud	
	368	2 days - 7 days	No anticoagula:	
	369	<= 12h	Heparin on	=
	372	<na></na>	Bivalirudin on	•
	374	<= 12h	Bivalirudin on	•
	375	12h - 24h	< N.	
	376	<= 12h	Bivalirudin on	=
	378 379	2 days - 7 days <= 12h	Bivalirudin on Heparin on	•
	380	>= 7 days	-	•
	381	>= 7 days	Heparin on Heparin on	•
	382	12h - 24h	Heparin on	•
	383	12h - 24h	Heparin on	•
	384	<= 12h	Heparin on	•
	385	>= 7 days	Bivalirudin on	=
	386	12h - 24h	Bivalirudin on	· ·
	387	12h - 24h	Heparin on	•
	389	<= 12h	Heparin on	-
	391	12h - 24h	No anticoagula:	•
	393	<= 12h	Heparin on	
	397	<na></na>	No anticoagula	
	398	<= 12h	<n.< th=""><th></th></n.<>	
	399	<na></na>	<n.< th=""><th></th></n.<>	

```
2 days - 7 days
                                             No anticoagulant
## 400
                                                                                 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
                                                                                 TRUE
## 418
                         <NA>
                                             Bivalirudin only
## 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
                                                <NA>
                                     Home
## 8
                32.0
                                      <NA>
                                                  No
## 9
                16.0
                                                  No
                                    Death
## 10
               109.0
                                      <NA>
                                                 No
## 11
                34.0
                                    Death
                                                <NA>
## 12
                  NA
                                      <NA>
                                                <NA>
## 13
               153.0
                                      <NA>
                                                <NA>
## 20
                                                <NA>
                12.0
                                     Home
## 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
                                                <NA>
                                     Home
##
   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
                                                <NA>
                                    Death
## 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>	<na></na>
##	59	10.0	<na></na>	<na></na>
##	61	NA	LTAC/rehab	<na></na>
##	64	13.0	LTAC/rehab	<na></na>
##	66	51.0	<na></na>	<na></na>
##	69	43.0	Death	<na></na>
##	71	13.0	Death	Yes
##	72	NA	Home	<na></na>
##	74	38.0	<na></na>	<na></na>
##	75	56.0	<na></na>	Yes
##	76	15.0	LTAC/rehab	No
##	77	36.0	Death	<na></na>
##	79	6.0	<na></na>	No
##	82	27.0	Home	<na></na>
##	83	46.0	<na></na>	<na></na>
##	84	NA	LTAC/rehab	Yes
##	85	12.0	LTAC/rehab	<na></na>
##	86	18.0	LTAC/rehab	<na></na>
##	88	NA	LTAC/rehab	Yes
##	89	47.0	Home	Yes
##	91	38.0	Death	<na></na>
##	92	NA	Death	Yes
##	93	NA	Death	<na></na>
##	95	54.0	Death	<na></na>
##	96	33.0	Death	<na></na>
##	97	1.0	Death	<na></na>
##	98	NA	Home	<na></na>
##	100	22.0	Death	<na></na>
##	102	103.0	Home	Yes
##	103	12.0	Home	<na></na>
##	104	67.0	Death	<na></na>
##	105	7.0	Home	No
##	106	NA	Death	<na></na>
##	107	70.0	<na></na>	Yes
##	108	23.0	<na></na>	Yes
##	109	NA	Death	<na></na>
##	111	1.0	LTAC/rehab	No
##	112	17.0	Death	<na></na>
##	113	8.0	<na></na>	<na></na>
##	116	19.0	LTAC/rehab	<na></na>
##	117	54.0	Death	<na></na>
##	121	27.0	Death	<na></na>
##	122	1.0	LTAC/rehab	<na></na>
##	123	38.0	Home	<na></na>
##	124	26.0	<na></na>	No
##	126	27.0	LTAC/rehab	<na></na>
##	127	4.0	Home	No
##	128	13.0	<na></na>	<na></na>
##	129	19.0	<na></na>	<na></na>
##	134	20.0	Death	No
##	135	8.0	<na></na>	Yes
##	136	22.0	Home	Yes
##	137	NA	<na></na>	<na></na>

"" 400	40.0	23T.A.S.	237.A.S
## 139	16.0	<na></na>	<na></na>
## 140	NA 10.0	LTAC/rehab	<na></na>
## 141	12.0	Home	Yes
## 142 ## 144	5.0 123.0	Death <na></na>	<na></na>
## 145	123.0	LTAC/rehab	No
## 148	NA	Death	<na></na>
## 149	23.0 32.0	<na></na>	<na></na>
## 151 ## 152		LTAC/rehab	<na></na>
## 152 ## 156	79.0	<na></na>	<na></na>
	77.0	Death	Yes
## 157	16.0	<na></na>	<na></na>
## 158	25.0	Home	<na></na>
## 159	28.0	Home	Yes
## 160	2.0	Death	<na></na>
## 162	77.0	<na></na>	<na></na>
## 164	37.0	LTAC/rehab	Yes
## 165	NA	<na></na>	<na></na>
## 166	NA 10.0	Home	<na></na>
## 168	19.0	Death	<na></na>
## 169	NA 13.0	Other	<na></na>
## 171	13.0	Death	No
## 172	43.0	<na></na>	No
## 174	27.0	<na></na>	<na></na>
## 176	NA	Death	No
## 177	8.0	<na></na>	<na></na>
## 178	58.0	Death	<na></na>
## 179	16.0	Home	<na></na>
## 183	NA	Home	<na></na>
## 184	73.0	Home	<na></na>
## 185	26.0	Death	<na></na>
## 188	NA FF 0	<na></na>	<na></na>
## 189	55.0	<na></na>	<na></na>
## 193	42.0	Death	<na></na>
## 194	NA	Death	Yes
## 195	43.0	Home	<na></na>
## 199	52.0 58.0	Death	<na></na>
## 200		Home	Yes
## 201	NA	LTAC/rehab	No
## 202 ## 204	31.0	Death	Yes
	NA SE O	Death	<na></na>
## 206	85.0	Death	<na></na>
## 207	19.0	LTAC/rehab	<na></na>
## 209	NA 15 O	<na></na>	<na></na>
## 210 ## 214	15.0	<na> LTAC/rehab</na>	
	29.0	CIAC/Tellab	Yes
## 216 ## 217	61.0	Death	Yes
## 217	36.8		Yes
## 220	40.0	<na></na>	<na></na>
## 223	1.0	Death	<na></na>
## 226	NA O4 O	Death	Yes
## 229	94.0	Death	<na></na>
## 230	17.0	<na></na>	No
## 231	21.0	Home	Yes

##	234	86.0	Death	N/A
##	235	NA	<na></na>	Yes
##	236	2.0	Home	<na></na>
##	237	70.0	Death	<na></na>
##	238	46.0	<na></na>	N/A
##	239	37.0	Death	<na></na>
##	240	NA	Home	No
##	242	NA	LTAC/rehab	<na></na>
##	244	101.0	LTAC/rehab	No
##	245	NA	Death	<na></na>
##	246	17.0	Home	<na></na>
##	247	47.0	<na></na>	<na></na>
##	249	26.0	LTAC/rehab	Yes
##	250	108.0	<na></na>	No
##	251	16.0	<na></na>	<na></na>
##	252	33.0	<na></na>	No
##	253	NA	<na></na>	Yes
##	254	32.0	<na></na>	Yes
##	255	NA	Death	<na></na>
##	256	24.0	Death	<na></na>
##	257	43.0	<na></na>	<na></na>
##	259	NA	<na></na>	<na></na>
##	260	52.0	LTAC/rehab	<na></na>
##	261	75.0	Death	<na></na>
##	262	30.0	Death	<na></na>
##	263	49.0	<na></na>	Yes
##	264	29.0	<na></na>	<na></na>
##	265	36.0	LTAC/rehab	No
##	268	29.0	Home	Yes
##	269	27.0	<na></na>	<na></na>
##	270	12.0	<na></na>	<na></na>
##	271	53.0	LTAC/rehab	Yes
##	272	36.0	Home	<na></na>
##	273	NA	LTAC/rehab	<na></na>
##	274	11.0	LTAC/rehab	No
##	275	23.0	Other	<na></na>
##	276	33.0	<na></na>	<na></na>
##	277	17.0	LTAC/rehab	<na></na>
##	278	10.0	<na></na>	Yes
##	279	NA NA	Death	<na></na>
##	280	NA 103.0	LTAC/rehab	No
##	282	123.0	Home	<na></na>
##	286	19.0	<na></na>	No
##	287	56.0	Death	<na></na>
##	289	25.0	<na></na>	<na></na>
## ##	290 293	12.0 NA	<na></na>	<na></na>
		106.8		
## ##	294 296	10.0	<na></na>	<na></na>
##	297	22.0	Death	<na></na>
##	298	14.0	<na></na>	Yes
##	299	77.0	<na></na>	<na></na>
##	300	33.0	Home	<na></na>
##	301	17.0	Death	Yes
π#	501	11.0	pearii	162

##	302	46.0	Death	<na></na>
##	303	23.0	<na></na>	<na></na>
##	305	12.0	<na></na>	Yes
##	308	19.0	Death	Yes
##	314	36.8	Death	<na></na>
##	315	24.0	Death	Yes
##	316	12.0	Death	No
##	319	NA	<na></na>	No
##	320	10.0	Death	<na></na>
##	323	NA	Death	Yes
##	324	153.0	<na></na>	<na></na>
##	326	52.0	Death	<na></na>
##	328	7.0	<na></na>	<na></na>
##	330	42.0	Death	<na></na>
##	332	NA	Home	<na></na>
##	333	62.0	<na></na>	<na></na>
##	334	58.0	Home	<na></na>
##	336	3.0	Home	<na></na>
##	337	2.0	Home	<na></na>
##	342	35.0	<na></na>	<na></na>
##	344	11.0	LTAC/rehab	<na></na>
##	345	22.0	<na></na>	No
##	346	49.0	Home	<na></na>
##	347	1.0	Home	<na></na>
##	348	NA	Home	Yes
##	350	41.0	<na></na>	<na></na>
##	352	4.0	Death	<na></na>
##	353	NA	Death	<na></na>
##	355	7.0	<na></na>	<na></na>
##	357	NA		
##	359	7.0	<na></na>	<na></na>
##	361	46.0	Death	N/A
##	363	NA		
##	364	NA	LTAC/rehab	<na></na>
##	365	11.0	Death	<na></na>
##	368	2.0	Death	No
##	369	173.0	Death	Yes
##	372	38.0	<na></na>	Yes
##	374	NA	<na></na>	<na></na>
##	375	57.0	Home	<na></na>
##	376	37.0	LTAC/rehab	<na></na>
##	378	7.0	Death	No
##	379	60.0	Death	<na></na>
##	380	21.0	Death	<na></na>
##	381	17.0	Home	<na></na>
##	382	26.0	<na></na>	<na></na>
##	383	15.0	Death	No
##	384	2.0	Home	No
##	385	9.0	Home	<na></na>
##	386	103.0	LTAC/rehab	No
##	387	14.0	<na></na>	<na></na>
##	389	8.0	LTAC/rehab	No
##	391	41.0	<na></na>	<na></na>
##	393	12.0	LTAC/rehab	<na></na>

```
117.0
                              LTAC/rehab
## 397
                                                No
## 398
                  NA
                                   Death
                                               <NA>
## 399
                 8.0
                                     <NA>
                                               <NA>
## 400
                37.0
                                     <NA>
                                               <NA>
## 403
                 1.0
                                    {\tt Death}
                                               Yes
## 404
                  NA
                                    Death
                                               <NA>
## 406
                 1.5
                                    Death
                                               Yes
## 407
                29.0
                              LTAC/rehab
                                               <NA>
## 408
                  NA
                                     {\tt Home}
                                               <NA>
## 409
                                     <NA>
                23.0
                                                 No
## 411
                38.0
                                     <NA>
                                               <NA>
                29.0
## 414
                                               <NA>
                                     Home
## 416
                              LTAC/rehab
                 7.0
                                                 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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## 20
## 21
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## 24
## 25
## 28
## 29
## 30
## 31
## 34
## 35
## 36
## 39
                                               (On-ECLS, Blood, Bacteria, Enterobacter cloacae), (On-ECLS,
## 40
## 42
## 43
## 44
## 46
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## 48
## 49
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## 52
## 53
## 54
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## 66
## 69
## 71
## 72
## 74
## 75
                                                                            (Pre-ECLS, Urine, Bacteria, En
## 76
## 77
## 79
## 82
## 83
## 84
## 85
                                                    (Pre-ECLS, Respiratory Tract, Bacteria, Serratia mars
## 86
## 88
## 89
## 91
## 92
## 93
## 95
## 96
## 97
## 98
## 100
## 102
## 103
## 104
## 105
## 106
## 107
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## 109
## 111
## 112
## 113
## 116
                                               (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Ba
## 117
## 121
## 122
## 123
## 124
## 126
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## 129
## 134
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## 135
## 136
## 137
## 139
## 140
## 141
## 142
## 144
## 145
## 148
## 149
## 151
## 152
## 156
## 157
                                                                       (On-ECLS, Respiratory tract, Fungu
## 158
## 159
## 160
## 162
## 164
## 165
## 166
## 168
## 169
## 171
## 172
## 174
## 176 (On-ECLS, Respiratory Tract, Fungus, Candida Albicans), (On-ECLS, Respiratory Tract, Bacteria, C
## 177
## 178
## 179
## 183
## 184
## 185
## 188
## 189
## 193
## 194
## 195
## 199
## 200
## 201
## 202
                                                                       (On-ECLS, Respiratory tract, Fungu
## 204
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## 214
## 216
## 217
## 220
## 223
## 226
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## 229
## 230
## 231
## 234
## 235
## 236
## 237
## 238
## 239
## 240
                                                                           (Pre-ECLS, Urine, Bacteria, En
## 242
## 244
## 245
## 246
## 247
## 249
## 250
## 251
## 252
## 253
                                              (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Ba
## 254
## 255
## 256
                                              (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Ba
## 257
## 259
## 260
## 261
## 262
## 263
## 264
## 265
## 268
## 269
## 270
## 271
                                              (Pre-ECLS, Blood, Bacteria, E. coli), (Pre-ECLS, Blood, Ba
## 272
## 273
## 274
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## 296 ## 297 ## 298 ## 299

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## 305 ## 308

## 314 ## 315

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## 378 ## 379

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## 422
## 423
##
       support_type transfer covid pregnant year days_to_discharge admission_date
                                                                             2021-08-26
## 1
                        FALSE FALSE
                                            NA 2021
                                                                     70
             Cardiac
## 2
                        FALSE TRUE
                                            NA 2018
                                                                      7
                                                                             2020-10-17
                <NA>
## 3
                        FALSE FALSE
                                            NA 2018
                                                                             2021-12-25
          Pulmonary
                                                                     NA
## 4
                <NA>
                        FALSE FALSE
                                            NA 2020
                                                                     NA
                                                                             2020-01-29
## 5
                <NA>
                         FALSE FALSE
                                          TRUE 2022
                                                                     NA
                                                                             2021-07-02
## 6
                         FALSE
                                TRUE
                                            NA 2020
                                                                             2021-06-18
                <NA>
                                                                     NA
## 7
                         FALSE
                               TRUE
                                            NA 2020
                                                                     NA
                                                                             2020-05-10
                < NA >
## 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
                        FALSE FALSE
                                            NA 2018
                                                                             2021-05-15
             Cardiac
                                                                     NA
## 13
                <NA>
                        FALSE FALSE
                                            NA 2018
                                                                     10
                                                                             2021-12-30
## 20
                        FALSE FALSE
                                            NA 2020
                                                                     36
                                                                             2020-02-19
          Pulmonary
## 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
                                            NA 2019
## 25
                <NA>
                        FALSE FALSE
                                                                             2021-11-01
                                                                     NA
## 28
                <NA>
                        FALSE FALSE
                                            NA 2020
                                                                             2021-01-08
                                                                     NA
## 29
                <NA>
                        FALSE FALSE
                                            NA 2018
                                                                    101
                                                                             2020-10-05
##
  30
                        FALSE TRUE
                                            NA 2019
                                                                             2020-07-16
             Cardiac
                                                                     NA
## 31
                        FALSE FALSE
                                            NA 2018
                                                                             2020-05-08
                ECPR
                                                                     12
## 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
                         FALSE FALSE
                                            NA 2021
                                                                     27
          Pulmonary
                                                                             2020-04-14
## 40
             Cardiac
                         FALSE FALSE
                                            NA 2021
                                                                     14
                                                                             2021-10-25
                                            NA 2018
## 42
                <NA>
                        FALSE FALSE
                                                                     48
                                                                             2020-08-23
                        FALSE FALSE
## 43
                                            NA 2019
                                                                     75
                                                                             2020-12-17
             Cardiac
## 44
                        FALSE TRUE
                <NA>
                                            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
```

## 389

##		<na></na>	FALSE FALSE	NA 2019	9	2020-02-06
##		<na></na>	FALSE FALSE	NA 2021	NA	2020-09-19
	50	Pulmonary	FALSE FALSE	NA 2019	NA	2020-03-21
	52	<na></na>	FALSE TRUE	NA 2021	45	2020-03-20
	53	<na></na>	FALSE NA	NA 2020	107	2020-09-06
##		<na></na>	FALSE FALSE	NA 2020	NA	2021-12-23
	55	<na></na>	FALSE FALSE	NA 2020	21	2020-08-28
##		<na></na>	FALSE TRUE	NA 2021	69	2020-02-17
	59	Pulmonary	FALSE TRUE	NA 2020	17	2021-07-30
	61	<na></na>	FALSE TRUE	NA 2021	NA	2020-10-10
	64	<na></na>	FALSE TRUE	NA 2021	26	2021-10-07
##	66	Pulmonary	FALSE FALSE	NA 2019	8	2020-12-29
	69	<na></na>	FALSE TRUE	NA 2019	11	2021-06-29
	71	Pulmonary	FALSE FALSE	NA 2019	NA	2020-03-14
	72	<na></na>	FALSE FALSE	NA 2020	54	2021-07-22
	74	<na></na>	FALSE FALSE	NA 2020	18	2020-07-29
##	75	<na></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></na>	FALSE FALSE	NA 2021	19	2021-08-04
##	83	Cardiac	FALSE FALSE	NA 2019	23	2020-11-24
##	84	<na></na>	FALSE FALSE	NA 2019	46	2021-07-20
##	85	Cardiac	FALSE FALSE	NA 2020	37	2021-10-08
##	86	<na></na>	FALSE FALSE	NA 2019	17	2021-11-19
##	88	<na></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></na>	FALSE TRUE	NA 2021	43	2021-12-21
##	95	<na></na>	FALSE FALSE	NA 2021	NA	2021-07-27
##	96	<na></na>	FALSE TRUE	NA 2019	NA	2020-03-09
##	97	Cardiac	FALSE FALSE	NA 2021	53	2020-09-20
##	98	<na></na>	FALSE FALSE	NA 2021	13	2021-04-14
##	100	<na></na>	FALSE FALSE	NA 2018	71	2020-06-10
##	102	<na></na>	FALSE FALSE	NA 2020	8	2020-02-04
##	103	<na></na>	FALSE FALSE	NA 2021	NA	2020-05-25
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##	105	<na></na>	FALSE FALSE	NA 2020	NA	2020-07-22
##	106	Cardiac	FALSE TRUE	NA 2019	58	2021-02-08
##	107	<na></na>	FALSE FALSE	NA 2019	NA	2020-02-11
##	108	<na></na>	FALSE FALSE	NA 2019	48	2021-07-13
##	109	<na></na>	FALSE FALSE	NA 2018	35	2020-03-07
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##	112	<na></na>	FALSE FALSE	NA 2018	10	2020-04-09
##	113	<na></na>	FALSE FALSE	NA 2020	NA	2020-02-22
##	116	<na></na>	FALSE FALSE	NA 2018	11	2020-03-16
##	117	<na></na>	FALSE FALSE	NA 2022	15	2021-07-10
##	121	ECPR	FALSE FALSE	NA 2019	NA	2021-03-17
##	122	<na></na>	FALSE FALSE	NA 2018	11	2020-11-19
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##	124	<na></na>	FALSE FALSE	NA 2020	NA	2020-05-02
##	126	Cardiac	FALSE TRUE	NA 2018	3	2020-12-12
##	127	<na></na>	FALSE FALSE	NA 2022	8	2020-12-31

##	128	<na></na>	FALSE	FALSE	NA	2021	55	2021-08-07
	129	<na></na>	FALSE			2018	32	2021-11-09
	134	Pulmonary	FALSE			2021	26	2020-08-21
	135	<na></na>	FALSE	TRUE		2019	NA	2020-08-14
##	136	<na></na>	FALSE	TRUE	NA	2021	35	2021-07-09
##	137	ECPR	FALSE	TRUE	NA	2018	0	2021-05-19
##	139	<na></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></na>	FALSE	TRUE	NA	2019	2	2021-02-03
##	148	<na></na>	FALSE	FALSE	NA	2017	NA	2021-06-17
	149	<na></na>	FALSE			2020	54	2021-05-10
	151	<na></na>	FALSE	TRUE		2021	88	2021-11-20
	152	ECPR	FALSE			2018	NA	2021-11-22
	156	ECPR	FALSE			2020	45	2020-11-20
	157	<na></na>	FALSE			2020	NA	2021-06-16
	158	<na></na>	FALSE			2018	44	2021-08-03
	159	<na></na>	FALSE			2018	3	2020-09-11
	160	Pulmonary	FALSE	TRUE		2019	NA	2021-03-26
	162	<na></na>	FALSE			2020	NA	2021-05-02
	164	<na></na>	FALSE	TRUE		2019	12	2020-02-08
	165	Cardiac	FALSE			2020	11	2021-03-27
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           2020-07-20
                              <NA>
## 302
           2021-04-04
                              <NA>
## 303
           2021-07-06
                              <NA>
## 305
           2020-02-28
                              <NA>
## 308
           2021-11-08
                              <NA>
## 314
           2021-06-06
                              <NA>
## 315
           2020-11-11
                              <NA>
## 316
           2021-03-03
                              <NA>
## 319
           2021-07-27
                              <NA>
## 320
           2020-02-26 2020-02-26
## 323
           2021-05-16 2021-05-16
## 324
           2020-06-07
                              <NA>
## 326
           2020-05-14
                              <NA>
## 328
           2021-06-28 2021-06-28
## 330
           2020-09-24 2020-09-24
## 332
           2021-04-03
## 333
           2020-10-17 2020-10-17
## 334
           2020-05-16
                              <NA>
## 336
           2021-01-29 2021-01-29
##
  337
           2020-04-27
                             <NA>
           2020-04-29 2020-04-29
## 342
## 344
           2021-04-24 2021-04-24
## 345
           2021-05-26
                             <NA>
## 346
           2021-11-01
                              <NA>
## 347
           2020-03-30 2020-03-30
## 348
           2021-01-26 2021-01-26
## 350
           2020-11-02
                             <NA>
## 352
           2020-07-23 2020-07-23
           2020-10-06 2020-10-06
## 353
## 355
           2021-02-13 2021-02-13
## 357
                  <NA>
## 359
           2020-07-29
                              <NA>
## 361
           2021-05-05
                              <NA>
## 363
                  <NA>
  364
           2021-07-13
                              <NA>
##
## 365
           2021-07-23
                              <NA>
## 368
           2020-10-15 2020-10-15
## 369
           2020-06-22
                              <NA>
## 372
           2020-12-20
                              <NA>
## 374
           2020-05-25
                              <NA>
## 375
           2021-12-18
                              <NA>
## 376
           2021-08-20
                              <NA>
## 378
           2021-11-18
                              <NA>
## 379
           2020-10-30
                              <NA>
## 380
           2021-10-30
                              <NA>
## 381
           2021-09-25 2021-09-25
```

```
## 382
           2021-06-18 2021-06-18
## 383
           2021-10-07
                              < NA >
## 384
           2020-08-04
                              <NA>
## 385
           2021-10-29
                              <NA>
## 386
           2021-01-07
                              <NA>
## 387
           2021-03-12 2021-03-12
## 389
           2021-03-17 2021-03-17
           2021-08-12 2021-08-12
## 391
## 393
           2021-01-22
                              <NA>
## 397
           2021-02-10
                              <NA>
## 398
           2020-09-14
                              <NA>
## 399
           2020-05-12 2020-05-12
## 400
           2021-09-20
                              <NA>
## 403
           2020-03-23
                              < NA >
## 404
           2021-12-07
                              <NA>
## 406
           2020-08-13 2020-08-13
## 407
           2021-02-23
                              <NA>
## 408
           2021-02-12
                              <NA>
## 409
           2021-09-08 2021-09-08
## 411
           2021-02-17 2021-02-17
## 414
           2021-05-09
                              <NA>
## 416
           2021-07-21 2021-07-21
## 417
           2020-10-02 2020-10-02
## 418
           2021-12-14 2021-12-14
           2020-07-08 2020-07-08
## 419
## 422
           2020-05-10
                              <NA>
## 423
           2021-11-02 2021-11-02
drop duplicate patient_id, use only the first (oldest) visit:
#For example lab data, Sort dataframe by patient id and date:
example_lab_data <- example_lab_data[order(example_lab_data$patient_id,example_lab_data$date),]
#Drop duplicates dataframe by patient id:
example_lab_data <- example_lab_data[!duplicated(example_lab_data$patient_id), ]</pre>
#For synthetic data, Sort dataframe by patient id and admission date:
synthetic_data <- synthetic_data[order(synthetic_data$patient_id,synthetic_data$admission_date ),]</pre>
#Drop duplicates dataframe by patient id:
synthetic_data <- synthetic_data[!duplicated(synthetic_data$patient_id), ]</pre>
Ensure that columns with numeric variables don't have characters
#Fill empty values with NA:
example_lab_data[example_lab_data == ''] <- NA</pre>
synthetic_data[synthetic_data == ''] <- NA</pre>
```

```
example_lab_data[example_lab_data == 'UTC'] <- NA</pre>
synthetic_data[synthetic_data == 'UTC'] <- NA</pre>
example_lab_data[example_lab_data == 'NDA'] <- NA</pre>
synthetic_data[synthetic_data == 'NDA'] <- NA</pre>
example_lab_data[example_lab_data == 'N/A'] <- NA</pre>
synthetic_data[synthetic_data == 'N/A'] <- NA
#find character on numeric columns:
synthetic_data[synthetic_data == 'Not Available' ] <- NA</pre>
synthetic data[synthetic data == 'no info from OSH' ] <- NA</pre>
synthetic_data[synthetic_data == 'No data avail' ] <- NA</pre>
synthetic_data[synthetic_data == 'Not Measured, pt coded'] <- NA
synthetic_data[synthetic_data == 'not measured' ] <- NA</pre>
synthetic_data$ph <- parse_number(synthetic_data$ph)</pre>
## Warning: 1 parsing failure.
## row col expected actual
## 137 -- a number
#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
synthetic_data$mechanical_vent_days[synthetic_data$mechanical_vent_days == '<= 12h'] <- 0.5
synthetic_data$mechanical_vent_days[synthetic_data$mechanical_vent_days == '12h - 24h'] <- 7
synthetic_data$mechanical_vent_days[synthetic_data$mechanical_vent_days == '>= 7 days'] <- 0.75
synthetic_data$mechanical_vent_days[synthetic_data$mechanical_vent_days == '2 days - 7 days'] <- 4.5
#change chr to number column
synthetic_data$mechanical_vent_days <- as.numeric(synthetic_data$mechanical_vent_days)</pre>
#drop first row (just NA values)
synthetic_data = synthetic_data[-1,]
Evaluate if categorical variables have any category with a low frequency:
#Uses frecuency tables:
#standarizes sex colum:
synthetic_data$sex[synthetic_data$sex == 'Female'] <- "F"</pre>
synthetic_data$sex[synthetic_data$sex == 'Male'] <- "M"</pre>
table(synthetic data$sex)
##
##
     F
         Μ
```

## 91 169

```
table(synthetic_data$race)
##
##
      Black Hispanic
                        Other
                                 White
                                   216
##
         23
table(synthetic_data$diagnosis)
##
##
      Cardiovascular condition
                                                   COVID-19
##
                         Other Other respiratory condition
##
##
## Other respiratory infection
##
table(synthetic_data$reintubation)
##
## FALSE TRUE
     139
            19
##
table(synthetic_data$trached)
##
## FALSE TRUE
     142
table(synthetic_data$systemic_anticoagulation_type)
##
##
                           Bivalirudin only
##
## Heparin and anticoagulant sodium citrate
##
##
                    Heparin and bivalirudin
##
                                          12
##
                               Heparin only
##
                                         126
                           No anticoagulant
##
##
                                          24
table(synthetic_data$acute_kidney_injury)
## FALSE TRUE
     117
           106
```

```
table(synthetic_data$discharge_location)
##
##
        Death
                    Home LTAC/rehab
                                          Other
                      56
##
           84
synthetic_data$steroids[synthetic_data$steroids == 'Unk'] <- "unk"</pre>
synthetic_data$steroids[synthetic_data$steroids == 'unk'] <- NA</pre>
table(synthetic_data$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
#for example_lab_data:
table(example_lab_data$lab_exam)
##
## Cholesterol
                         CR.P
                                  Glucose Hematocrit Lymphocytes
                                                                       Platelets
##
                          18
                                       18
Make sure that time variables are consistently coded: #convert char column into posixct
synthetic_data[['admission_date']] <- as.POSIXct(synthetic_data[['admission_date']],</pre>
                                      format = "%Y-%m-%d")
synthetic_data[['discharge_date']] <- as.POSIXct(synthetic_data[['discharge_date']],</pre>
                                      format = "%Y-%m-%d")
synthetic_data[['death_date']] <- as.POSIXct(synthetic_data[['death_date']],</pre>
                                     format = "%Y-%m-%d")
#for example_lab_data:
example_lab_data[['date']] <- as.POSIXct(example_lab_data[['date']],</pre>
                                      format = "\%Y - \%m - \%d")
Evaluate the distribution of numeric variables:
#for that, first convert to factors:
example_lab_data$lab_exam <- as.factor(example_lab_data$lab_exam)</pre>
synthetic_data$sex <- as.factor(synthetic_data$sex)</pre>
synthetic_data$race <- as.factor(synthetic_data$race)</pre>
synthetic_data$diagnosis <- as.factor(synthetic_data$diagnosis)</pre>
synthetic_data$reintubation <- as.factor(synthetic_data$reintubation)</pre>
synthetic_data$trached <- as.factor(synthetic_data$trached)</pre>
synthetic_data$systemic_anticoagulation_type <- as.factor(synthetic_data$systemic_anticoagulation_type)
synthetic_data$acute_kidney_injury <- as.factor(synthetic_data$acute_kidney_injury)</pre>
synthetic_data$discharge_location <- as.factor(synthetic_data$discharge_location)</pre>
synthetic_data$steroids <- as.factor(synthetic_data$steroids)</pre>
synthetic_data$infection <- as.factor(synthetic_data$infection)</pre>
synthetic_data$support_type <- as.factor(synthetic_data$support_type)</pre>
synthetic_data$transfer <- as.factor(synthetic_data$transfer)</pre>
synthetic_data$covid <- as.factor(synthetic_data$covid)</pre>
synthetic data$pregnant <- as.factor(synthetic data$pregnant)</pre>
synthetic_data$mechanical_vent_days <- as.factor(synthetic_data$mechanical_vent_days)</pre>
```

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

#### describe(synthetic\_data\$weight\_kg)

#### 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)

### 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\$02)

## 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)

### describe(synthetic\_data\$total\_bilirubin\_peak)

### 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

### $normal\ graph$

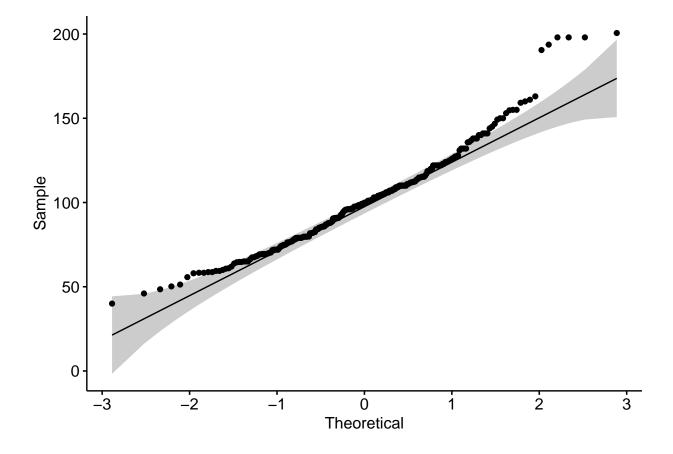
#As all the points fall approximately along this reference line, we can assume normality.

### 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).

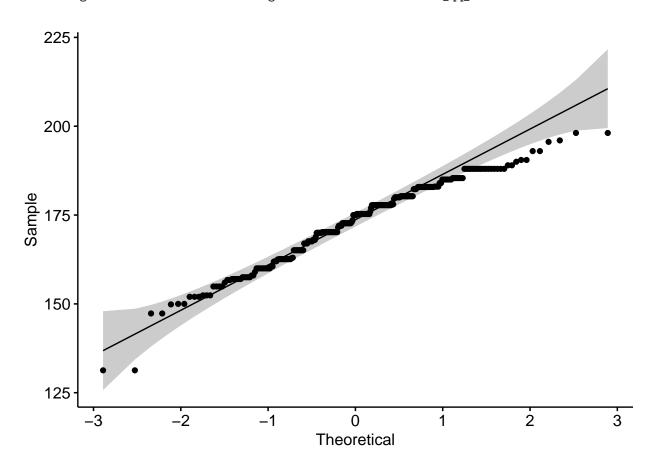


## ggqqplot(synthetic\_data\$height\_cm)

```
## 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).

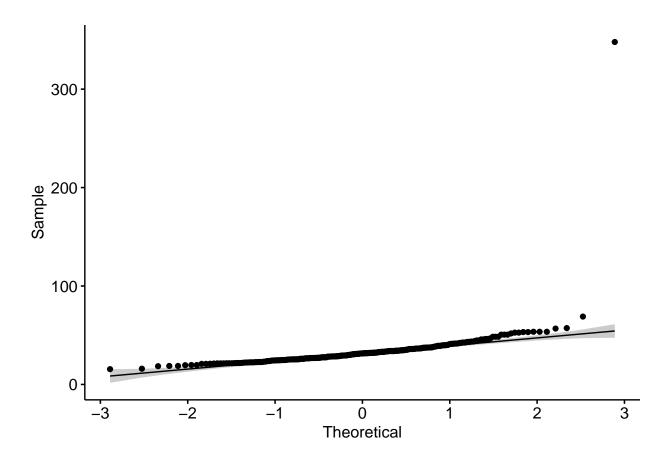


## ggqqplot(synthetic\_data\$bmi)

## 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).

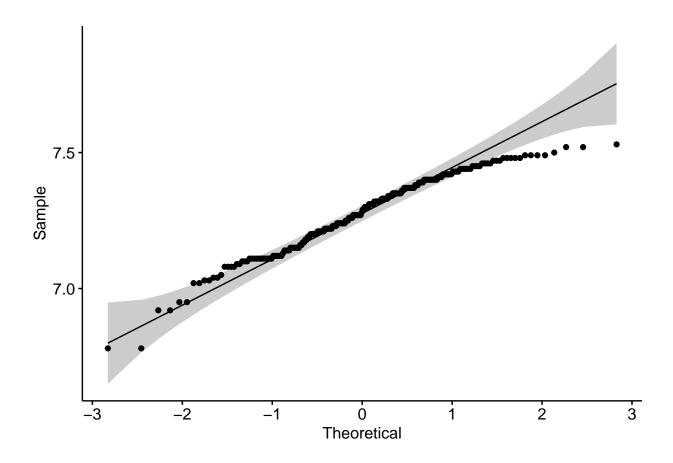


# ggqqplot(synthetic\_data\$ph)

## Warning: Removed 49 rows containing non-finite values (stat\_qq).

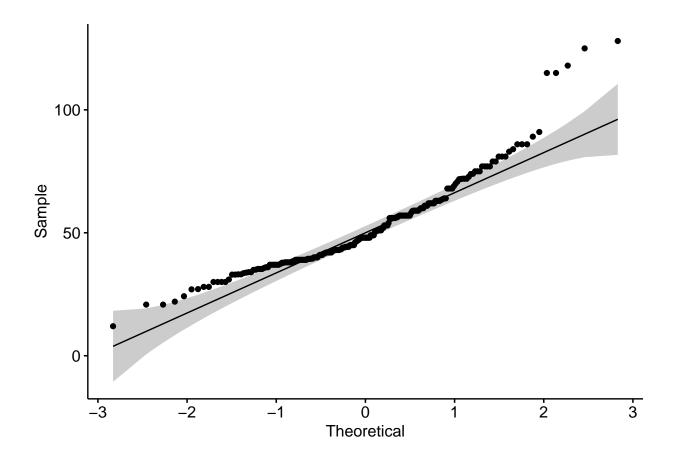
## Warning: Removed 49 rows containing non-finite values (stat\_qq\_line).

## 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).

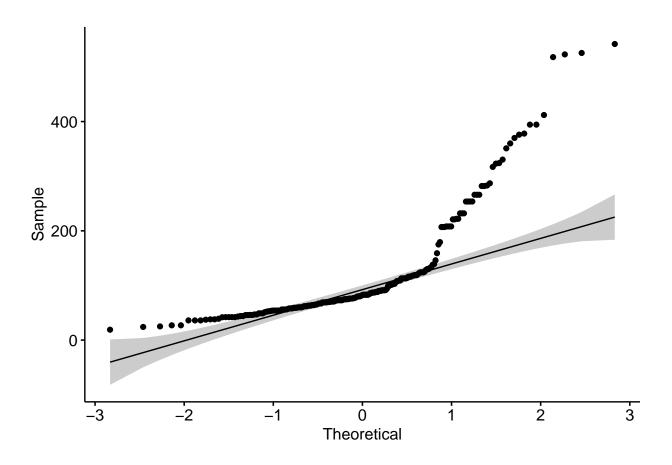


# ggqqplot(synthetic\_data\$02)

## 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).

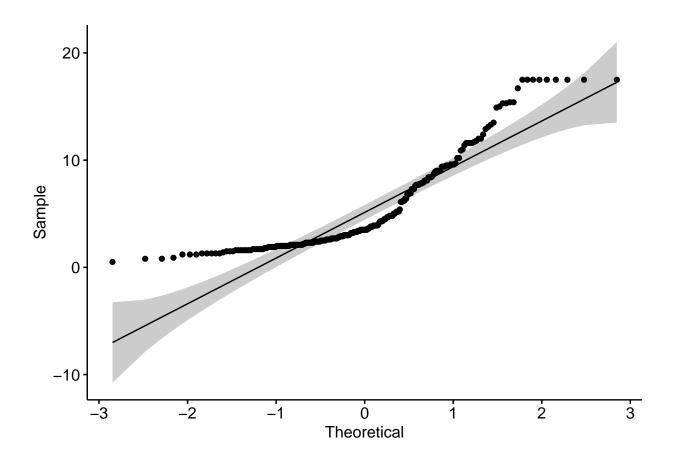


# ggqqplot(synthetic\_data\$lactate\_peak)

## Warning: Removed 36 rows containing non-finite values (stat\_qq).

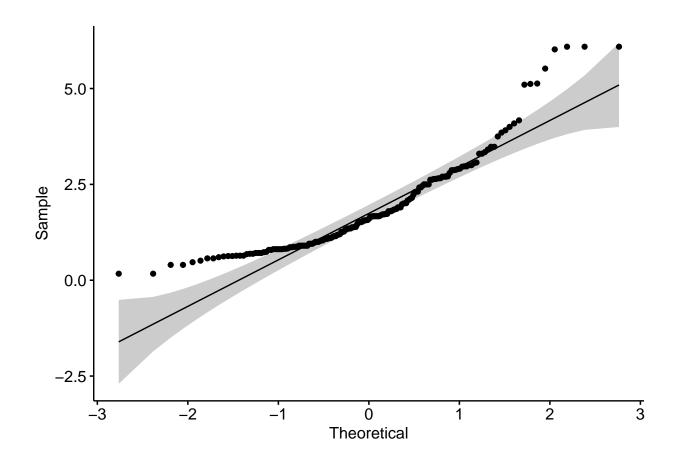
## Warning: Removed 36 rows containing non-finite values (stat\_qq\_line).

## Warning: Removed 36 rows containing non-finite values (stat\_qq\_line).



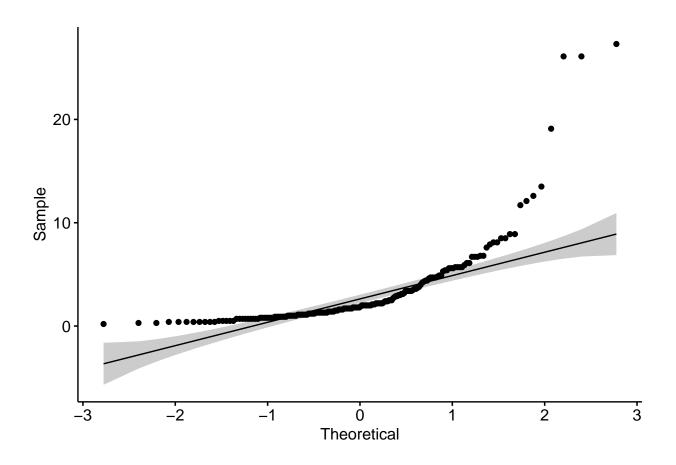
# ggqqplot(synthetic\_data\$creatinine\_peak)

- ## 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).

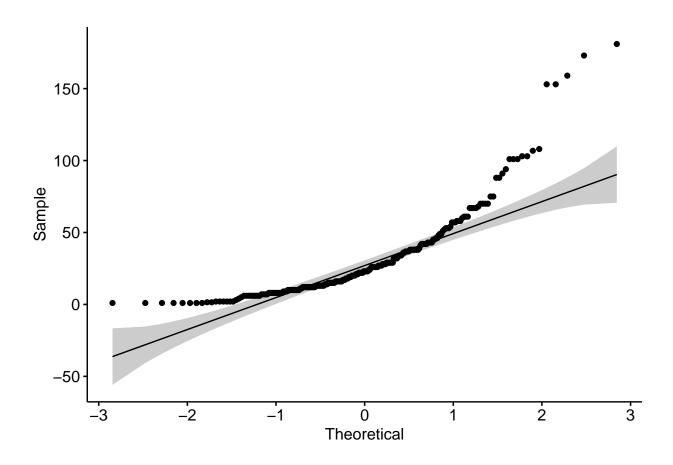


# ggqqplot(synthetic\_data\$hospital\_los)

## Warning: Removed 38 rows containing non-finite values (stat\_qq).

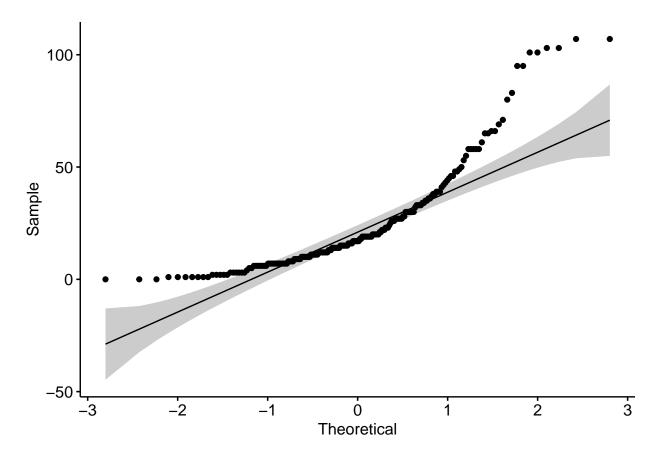
## Warning: Removed 38 rows containing non-finite values (stat\_qq\_line).

## 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\_databmisynthetic\_datao2 synthetic\_datalactate\_peaksynthetic\_datatotal\_bilirubin\_peak synthetic\_datahospital\_los If a numeric variable does not have a normal distribution, you may log transform it and re-evaluate the distribution:

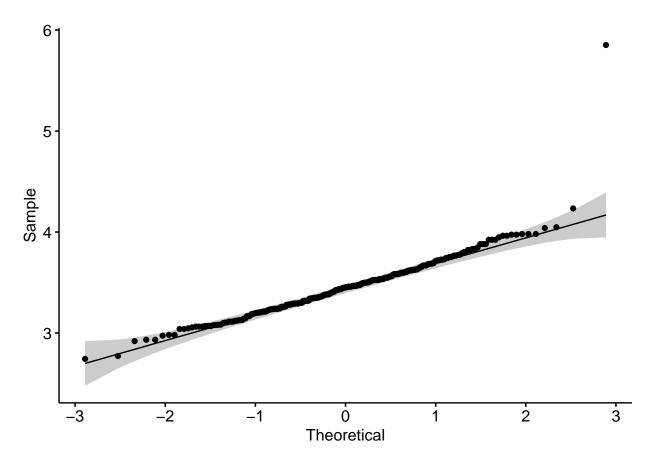
 $\#\log$  transformation:

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

#graph to evaluate normality

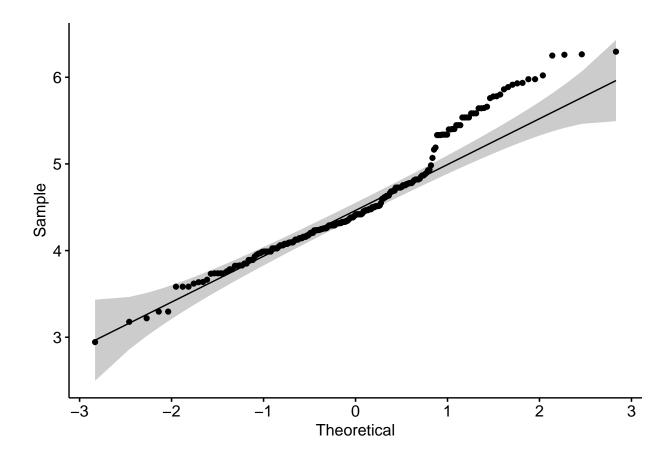
## ggqqplot(synthetic\_data\$bmi\_log)

- $\hbox{\tt \#\# Warning: Removed 4 rows containing non-finite values (stat\_qq).}$
- ## Warning: Removed 4 rows containing non-finite values (stat\_qq\_line).
- ## Warning: Removed 4 rows containing non-finite values (stat\_qq\_line).



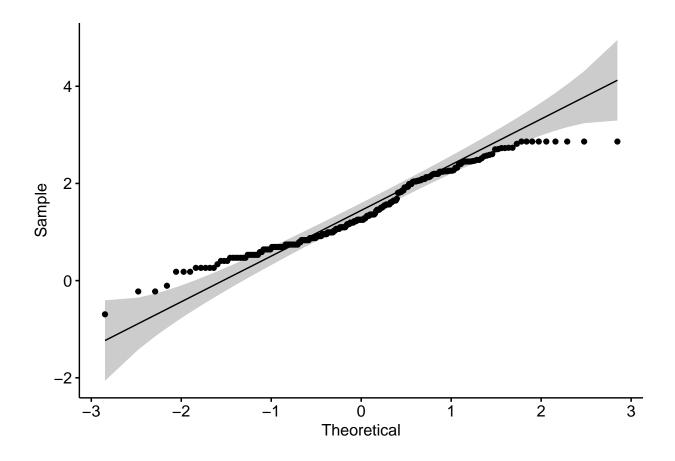
```
synthetic_data$02_log = log(synthetic_data$02)
ggqqplot(synthetic_data$02_log)
```

- ## 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).



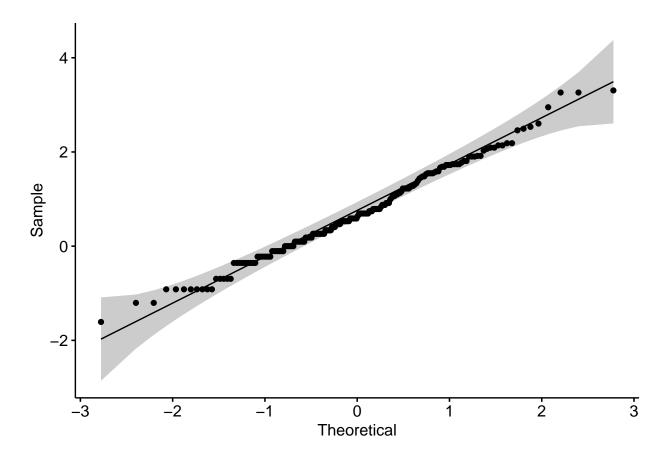
synthetic\_data\$lactate\_peak\_log = log(synthetic\_data\$lactate\_peak)
ggqqplot(synthetic\_data\$lactate\_peak\_log)

- ## 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).



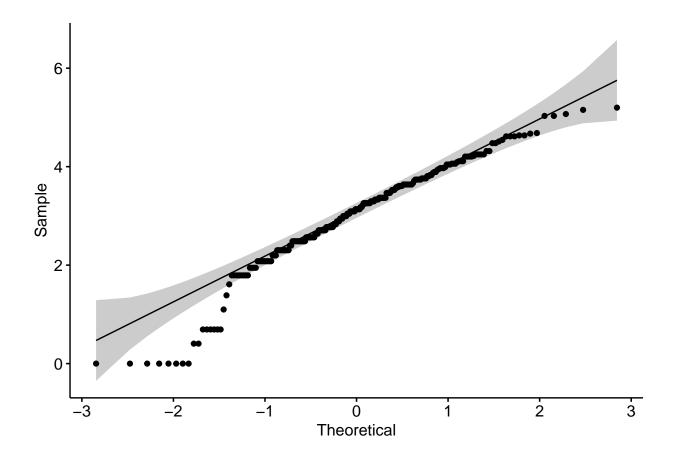
synthetic\_data\$total\_bilirubin\_peak\_log = log(synthetic\_data\$total\_bilirubin\_peak)
ggqqplot(synthetic\_data\$total\_bilirubin\_peak\_log)

- ## 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).

