Stroke_STAT488

Stroke and Survival Analysis

STAT488 Project- 2024 Spring Avery Shoemaker

Packages

```
library(survival)
library(tidyverse)
## Warning: package 'ggplot2' was built under R version 4.3.2
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
           1.1.2 v readr
                                   2.1.4
## v forcats 1.0.0 v stringr 1.5.0
## v ggplot2 3.4.4 v tibble 3.2.1
## v lubridate 1.9.2
                       v tidyr
                                   1.3.0
## v purrr
              1.0.2
## -- Conflicts -----
                              ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(dplyr)
library(lubridate)
library(ggsurvfit)
## Warning: package 'ggsurvfit' was built under R version 4.3.2
library(gtsummary)
## Warning: package 'gtsummary' was built under R version 4.3.2
library(tidycmprsk)
## Warning: package 'tidycmprsk' was built under R version 4.3.2
##
## Attaching package: 'tidycmprsk'
## The following object is masked from 'package:gtsummary':
##
      trial
```

```
library(rpart)

## Warning: package 'rpart' was built under R version 4.3.2

library(ranger)

## Warning: package 'ranger' was built under R version 4.3.2

library(ggplot2)
library(ggfortify)
```

Warning: package 'ggfortify' was built under R version 4.3.3

Stroke Dataset

This data set has been cleaned so private information is hidden from my use. The variables are as follows: group: time: date and time of the beginning of data point collection at_home: TRUE/ FALSE if the subject is walking at home dis_max: related to max distance from home? home_endpoint: TRUE/ FALSE dur_U: duration upright dur_s: duration stepping end_time: when the activity is completed events: n/a trial:data collected from 60 days or 90 days subj: the subject

```
stroke_data <- readRDS("C:/Users/avery/Downloads/STAT384/stroke_data.rds")</pre>
```

Filtering and Mutating and Other Fun Stuff

I am first going to filter the data for the trial to be 60 days (or 90 days). sd60: stroke data at 60 days sd90: stroke data at 90 days From there I am making a new variable 'status' where the status 0=alive, 1=dead

Because every instance of walking has a ending, all of the data has a status of 1.

'Figure 1'

We are going to build the standard survival object. Time records survival time and status indicates whether death was observed or censored.

Kaplan-Meier Probability and Survival Function

I made a KM survival function where dur_s (duration stepping) is used as the time variable and status is used as status. "basically a compiled version of the serial time and status". The numbers with a '+' means that the data was censored.

Surv Function: takes time and status as its parameters and makes a survival object from it. This is then used to be fit into different plots.

^{&#}x27;Figure 2'

```
km90 <- with(sd_90, Surv(dur_s, status))</pre>
head(km90,100)
     [1] 575.9 536.6 525.2 516.8 497.1 487.9 446.2 444.1 431.8 428.1 368.3 368.3
    [13] 326.9 292.8 291.6 288.0 283.4 273.6 267.8 258.3 255.1 249.2 248.0 242.4
##
   [25] 240.1 229.4 229.2 208.6 203.1 199.0 196.6 195.0 192.5 187.1 183.8 183.0
   [37] 182.4 182.2 179.4 175.8 174.5 169.9 164.6 164.2 161.1 153.8 152.1 149.3
##
   [49] 144.5 142.0 140.0 138.9 138.3 136.9 134.8 134.4 133.6 133.5 132.0 131.4
  [61] 130.7 127.2 126.1 125.6 122.9 122.8 122.3 121.5 119.7 119.1 115.6 115.5
  [73] 114.7 114.6 114.4 113.5 112.8 112.5 112.3 111.0 110.9 110.3 110.0 109.3
   [85] 107.4 107.4 106.3 106.2 105.1 104.9 103.6 102.4 101.9 100.8 99.3 98.2
##
## [97] 98.1 97.9 97.0 96.8
km60 <- with(sd_60, Surv(dur_s, status))</pre>
head(km60,100)
##
     [1] 938.6 937.3 859.2 824.2 792.6 720.2 711.6 688.7 642.3 602.2 594.6 588.7
    [13] 560.9 549.1 548.4 481.5 466.3 452.0 437.3 414.8 409.6 399.7 389.5 368.8
##
    [25] 365.7 358.4 350.5 343.0 339.8 338.2 336.3 326.9 323.4 305.7 303.3 296.6
## [37] 295.7 295.3 292.1 291.5 276.6 256.1 252.7 247.9 244.6 244.4 235.6 230.2
  [49] 210.9 208.0 204.8 203.1 201.0 195.1 187.4 183.9 179.5 179.0 175.2 169.5
##
  [61] 164.5 163.7 159.5 158.8 158.7 157.4 157.0 155.3 146.4 146.0 143.8 143.1
    [73] 138.1 135.4 134.0 131.9 130.0 129.4 121.6 119.7 118.9 117.4 114.4 108.1
   [85] 107.8 106.6 104.9 104.2 103.3 101.9 96.2 93.5 92.6 89.5 89.4 88.0
##
        85.3 85.0 84.7 83.9
   [97]
```

The fit functions show the survival percentage as well as Confidence intervals for times 1, 25, and every 25 seconds after. Confidence intervals: upper and lower for each time t

1 is the constant term.

'Figure 3'

```
km90_fit <- survfit(Surv(dur_s,status) ~ 1, data = sd_90)
summary(km90_fit, times = c(1,25*(1:10)))</pre>
```

```
## Call: survfit(formula = Surv(dur_s, status) ~ 1, data = sd_90)
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
           1736
                       1
                           0.9994 0.000576
                                                   0.9983
                                                                  1.000
##
      25
           1238
                     498
                           0.7126 0.010862
                                                   0.6916
                                                                  0.734
##
      50
            888
                     350
                                                   0.4880
                                                                  0.535
                           0.5109 0.011998
##
      75
            670
                           0.3859 0.011684
                     217
                                                   0.3637
                                                                  0.410
            509
                           0.2932 0.010926
##
     100
                     161
                                                   0.2726
                                                                  0.315
##
            398
                     111
                           0.2293 0.010089
                                                                  0.250
     125
                                                   0.2103
##
     150
            325
                      73
                           0.1872 0.009362
                                                  0.1697
                                                                  0.206
##
     175
            277
                      48
                           0.1596 0.008789
                                                   0.1432
                                                                  0.178
##
            236
                           0.1359 0.008226
                                                                  0.153
     200
                      41
                                                   0.1207
##
     225
            194
                      42
                           0.1118 0.007562
                                                   0.0979
                                                                  0.128
                      33
                           0.0927 0.006962
##
     250
            161
                                                   0.0801
                                                                 0.107
```

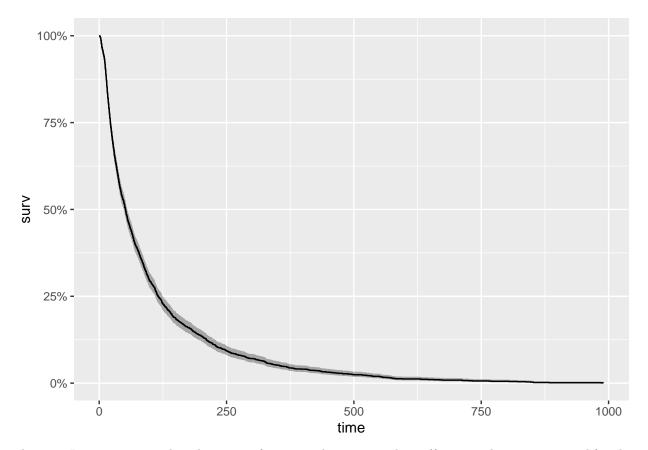
```
km60_fit <- survfit(Surv(dur_s,status) ~ 1, data = sd_60)
summary(km60_fit, times = c(1,25*(1:10)))</pre>
```

```
## Call: survfit(formula = Surv(dur_s, status) ~ 1, data = sd_60)
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       2
##
       1
            1570
                             0.999 0.000899
                                                    0.997
                                                                  1.000
##
      25
            1146
                     426
                             0.728 0.011227
                                                    0.706
                                                                  0.750
##
      50
            856
                     289
                             0.544 0.012562
                                                    0.520
                                                                  0.569
##
      75
             678
                     177
                             0.431 0.012491
                                                    0.407
                                                                  0.456
##
     100
             547
                     131
                             0.348 0.012014
                                                    0.325
                                                                  0.372
##
     125
             455
                      92
                             0.289 0.011438
                                                                  0.313
                                                    0.268
##
     150
             393
                      62
                             0.250 0.010921
                                                    0.229
                                                                  0.272
##
     175
             343
                      51
                             0.218 0.010406
                                                    0.198
                                                                  0.239
##
     200
             296
                      46
                             0.188 0.009860
                                                    0.170
                                                                  0.209
##
     225
             264
                      33
                             0.167 0.009414
                                                                  0.187
                                                    0.150
##
     250
             226
                      37
                             0.144 0.008849
                                                    0.127
                                                                  0.162
```

Plotting the Survival Functions

'Figure 4'

autoplot(km90_fit)



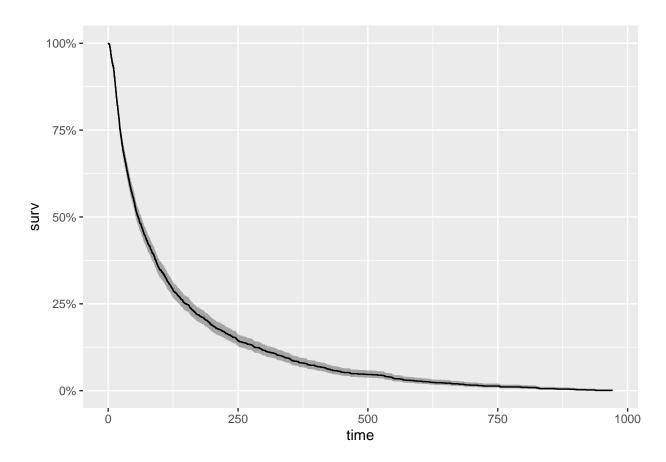
The issue I come across is that there are a few times that are very large (for example 12845.1 seconds). This

is equivalent to 3.56 hours. For that I used the filter function (Filtering and Mutating section) to make the cut off 1000 seconds, which is approximately 16.6 minutes.

We can see in these 2 graphs that both graphs have a similar shape, though 60 days may appear to have a higher survival rate than 90 days.

'Figure 5'

autoplot(km60_fit)



'Figure 6'

```
alld <- stroke_data %>% mutate(status = 1)
all_fit <- survfit(Surv(dur_s,status) ~ subj + trial , data = alld)
summary(all_fit, times = c(1,25*(1:10)))</pre>
```

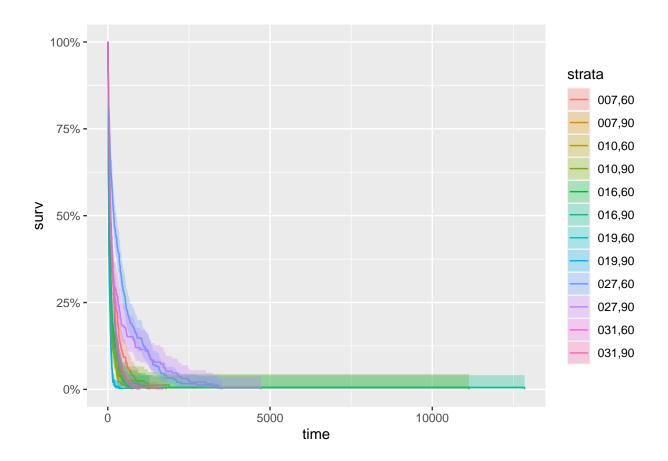
```
## Call: survfit(formula = Surv(dur_s, status) ~ subj + trial, data = alld)
##
##
                    subj=007, trial=60
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
            194
                       0
                            1.000 0.0000
                                                  1.000
                                                               1.000
                      33
                                                  0.779
      25
            162
                            0.830 0.0270
                                                               0.884
##
##
      50
            133
                      29
                            0.680 0.0335
                                                  0.618
                                                               0.749
            106
                            0.546
                                                  0.481
                                                               0.621
##
      75
                      26
                                  0.0357
##
     100
             93
                      13
                            0.479 0.0359
                                                  0.414
                                                               0.555
```

```
125
             81
                             0.418 0.0354
                                                   0.354
                                                                 0.493
##
                      12
##
     150
             71
                      10
                             0.366 0.0346
                                                   0.304
                                                                 0.440
                                                                 0.392
##
     175
             62
                       9
                             0.320 0.0335
                                                   0.260
##
     200
             56
                       6
                             0.289 0.0325
                                                   0.231
                                                                 0.360
##
     225
             51
                       5
                             0.263 0.0316
                                                   0.208
                                                                 0.333
##
     250
             46
                       5
                             0.237 0.0305
                                                   0.184
                                                                 0.305
##
##
                    subj=007, trial=90
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.0000 0.0000
##
             344
                       0
                                                  1.0000
                                                                  1.000
       1
             263
                            0.7645 0.0229
##
      25
                      81
                                                  0.7210
                                                                  0.811
##
      50
             183
                      80
                            0.5320 0.0269
                                                  0.4818
                                                                 0.587
##
      75
             127
                      56
                            0.3692 0.0260
                                                  0.3216
                                                                 0.424
##
     100
             97
                      30
                            0.2820 0.0243
                                                                 0.334
                                                  0.2382
##
     125
             67
                      30
                            0.1948 0.0214
                                                  0.1571
                                                                 0.241
##
     150
             50
                      17
                            0.1453 0.0190
                                                  0.1125
                                                                 0.188
##
     175
             43
                       7
                            0.1250 0.0178
                                                  0.0945
                                                                 0.165
##
     200
             32
                            0.0930 0.0157
                                                  0.0669
                                                                 0.129
                      11
                            0.0872 0.0152
##
     225
             30
                       2
                                                  0.0620
                                                                 0.123
                            0.0698 0.0137
     250
             24
                       6
##
                                                  0.0474
                                                                 0.103
##
##
                    subj=010, trial=60
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.0000 0.0000
##
       1
             230
                       0
                                                  1.0000
                                                                  1.000
             142
                            0.6174 0.0320
                                                                 0.684
##
      25
                      88
                                                  0.5577
##
      50
             96
                      46
                            0.4174 0.0325
                                                  0.3583
                                                                 0.486
##
      75
             67
                      29
                            0.2913 0.0300
                                                  0.2381
                                                                 0.356
##
     100
             47
                      20
                            0.2043 0.0266
                                                  0.1584
                                                                 0.264
##
     125
             37
                      10
                            0.1609 0.0242
                                                                 0.216
                                                  0.1198
##
     150
                       6
                            0.1348 0.0225
                                                  0.0971
             31
                                                                 0.187
##
     175
                       2
                            0.1261 0.0219
             29
                                                  0.0897
                                                                 0.177
##
     200
             22
                       7
                            0.0957 0.0194
                                                  0.0643
                                                                 0.142
##
     225
             19
                       3
                            0.0826 0.0182
                                                  0.0537
                                                                 0.127
                            0.0696 0.0168
##
     250
             16
                       3
                                                  0.0434
                                                                 0.112
##
##
                    subj=010, trial=90
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             159
                       1
                            0.9937 0.00627
                                                  0.9815
                                                                  1.000
      25
             94
                            0.5912 0.03899
                                                  0.5195
                                                                 0.673
##
                      64
##
      50
             67
                      28
                            0.4151 0.03908
                                                  0.3452
                                                                 0.499
##
      75
             47
                      19
                            0.2956 0.03619
                                                  0.2325
                                                                 0.376
                            0.2138 0.03252
                                                                 0.288
##
     100
             34
                      13
                                                  0.1587
##
     125
             26
                       8
                            0.1635 0.02933
                                                  0.1151
                                                                 0.232
##
     150
             20
                       6
                            0.1258 0.02630
                                                  0.0835
                                                                 0.189
##
     175
             17
                       3
                            0.1069 0.02451
                                                  0.0682
                                                                 0.168
                       2
##
     200
             15
                            0.0943 0.02318
                                                  0.0583
                                                                 0.153
##
     225
             15
                       0
                            0.0943 0.02318
                                                  0.0583
                                                                 0.153
##
     250
             10
                       5
                            0.0629 0.01925
                                                  0.0345
                                                                 0.115
##
##
                    subj=016, trial=60
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
##
             169
                       0
                                                  1.0000
                                                                  1.000
       1
                                                  0.5462
             104
                                                                  0.693
##
      25
                      65
                             0.615 0.0374
##
      50
             69
                      35
                            0.408 0.0378
                                                  0.3405
                                                                 0.490
```

```
75
             58
                            0.343 0.0365
                                                 0.2786
                                                                0.423
##
                      11
##
     100
             49
                       9
                            0.290 0.0349
                                                 0.2290
                                                                0.367
##
     125
             38
                            0.225 0.0321
                                                 0.1700
                                                                0.297
                      11
##
     150
             32
                       6
                            0.189 0.0301
                                                 0.1386
                                                                0.259
                            0.166 0.0286
##
     175
             28
                       4
                                                 0.1181
                                                                0.232
##
     200
             27
                       1
                            0.160 0.0282
                                                 0.1131
                                                                0.226
##
     225
             25
                       2
                            0.148 0.0273
                                                 0.1030
                                                                0.212
                            0.124 0.0254
##
     250
             21
                       4
                                                 0.0833
                                                                0.185
##
##
                   subj=016, trial=90
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
      1
            173
                            0.711 0.0345
      25
            123
                      50
                                                 0.6465
                                                                0.782
##
##
             89
                            0.514 0.0380
                                                                0.595
      50
                      34
                                                 0.4451
##
      75
             72
                      17
                            0.416 0.0375
                                                 0.3488
                                                                0.497
                            0.295 0.0347
##
     100
             51
                      21
                                                 0.2341
                                                                0.371
##
     125
             40
                      11
                            0.231 0.0321
                                                 0.1762
                                                                0.303
##
             31
                       9
                            0.179 0.0292
                                                 0.1303
                                                                0.247
     150
##
     175
             28
                       3
                            0.162 0.0280
                                                 0.1153
                                                                0.227
     200
             24
                            0.139 0.0263
##
                       4
                                                 0.0957
                                                                0.201
                                                                0.181
##
     225
             21
                       3
                            0.121 0.0248
                                                 0.0813
##
     250
                       0
                            0.121 0.0248
                                                 0.0813
                                                                0.181
##
##
                   subj=019, trial=60
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
            313
                       0 1.00000 0.00000
                                                1.00000
                                                               1.0000
##
      25
            184
                    130 0.58466 0.02785
                                                0.53254
                                                               0.6419
##
      50
            101
                      82 0.32268 0.02642
                                                0.27483
                                                               0.3789
##
      75
             66
                      35 0.21086 0.02306
                                                0.17019
                                                               0.2613
##
     100
             38
                          0.12141 0.01846
                                                0.09012
                                                               0.1636
     125
                          0.06709 0.01414
##
             21
                      17
                                                0.04439
                                                               0.1014
                          0.03195 0.00994
##
     150
             10
                      11
                                                0.01736
                                                               0.0588
##
     175
             8
                      2
                          0.02556 0.00892
                                                0.01290
                                                               0.0507
##
     200
              6
                          0.01917 0.00775
                                                0.00868
                                                               0.0423
     225
              3
                          0.00958 0.00551
##
                                                0.00311
                                                               0.0296
                       1 0.00639 0.00450
##
     250
              2
                                                0.00161
                                                               0.0254
##
##
                   subj=019, trial=90
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
            345
                           1.0000 0.00000
                                                1.00000
                                                               1.0000
      1
                       0
            183
                                                0.48030
##
      25
                     162
                           0.5304 0.02687
                                                               0.5858
            103
                           0.2986 0.02464
##
      50
                     80
                                                0.25396
                                                               0.3510
##
      75
             74
                      29
                           0.2145 0.02210
                                                0.17527
                                                               0.2625
##
     100
             36
                      38
                           0.1043 0.01646
                                                0.07660
                                                               0.1421
##
     125
             22
                      14
                           0.0638 0.01315
                                                0.04256
                                                               0.0955
##
     150
             10
                      12
                           0.0290 0.00903
                                                0.01574
                                                               0.0534
                                                               0.0422
##
     175
              7
                       3
                           0.0203 0.00759
                                                0.00975
##
     200
              5
                       2
                           0.0145 0.00643
                                                0.00607
                                                               0.0346
                           0.0087 0.00500
##
     225
              3
                                                0.00282
                                                               0.0268
##
     250
              3
                       0
                           0.0087 0.00500
                                                0.00282
                                                               0.0268
##
##
                   subj=027, trial=60
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       0 1.000 0.0000
                                                  1.000
##
       1
            243
                                                                1.000
```

```
25
            204
                      39
                            0.840 0.0235
                                                  0.795
                                                                0.887
##
            184
##
      50
                      20
                            0.757 0.0275
                                                  0.705
                                                                0.813
##
      75
            163
                            0.671 0.0301
                                                  0.614
                                                                0.733
                      21
##
     100
            151
                            0.621 0.0311
                                                  0.563
                                                                0.685
                      12
                            0.584 0.0316
##
     125
            142
                       9
                                                  0.526
                                                                0.650
##
     150
            133
                       9
                            0.547 0.0319
                                                  0.488
                                                                0.614
##
     175
            125
                       8
                            0.514 0.0321
                                                  0.455
                                                                0.581
##
     200
                       9
                            0.477 0.0320
                                                  0.419
                                                                0.544
            116
##
     225
            112
                       4
                            0.461 0.0320
                                                  0.402
                                                                0.528
##
     250
            107
                       5
                            0.440 0.0318
                                                  0.382
                                                                0.507
##
##
                    subj=027, trial=90
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.000 0.0000
      1
            191
                       0
                                                  1.000
                                                                1.000
##
      25
            150
                      41
                            0.785 0.0297
                                                  0.729
                                                                0.846
                            0.623 0.0351
##
      50
            119
                      31
                                                  0.558
                                                                0.696
##
      75
            101
                      18
                            0.529 0.0361
                                                  0.463
                                                                0.605
##
            89
                            0.466 0.0361
                                                  0.400
                                                                0.542
     100
                      12
##
     125
             74
                      15
                            0.387 0.0352
                                                  0.324
                                                                0.463
##
     150
                            0.346 0.0344
             66
                       8
                                                  0.284
                                                                0.420
##
     175
             61
                       5
                            0.319 0.0337
                                                  0.260
                                                                0.393
##
     200
             57
                       4
                            0.298 0.0331
                                                  0.240
                                                                0.371
##
     225
                            0.293 0.0329
                                                                0.365
             56
                                                  0.235
                       1
##
     250
             55
                       1
                            0.288 0.0328
                                                  0.230
                                                                0.360
##
##
                   subj=031, trial=60
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
            465
                       2
                            0.996 0.00302
                                                  0.990
                                                                1.000
      25
            394
##
                      71
                            0.844 0.01680
                                                  0.811
                                                                0.877
##
      50
            317
                      77
                            0.679 0.02161
                                                  0.638
                                                                0.722
      75
            262
                      55
                            0.561 0.02296
##
                                                  0.518
                                                                0.608
                            0.456 0.02305
##
     100
            213
                      49
                                                  0.413
                                                                0.504
##
     125
            180
                      33
                            0.385 0.02252
                                                  0.344
                                                                0.432
            160
##
     150
                      20
                            0.343 0.02196
                                                  0.302
                                                                0.388
##
            135
                            0.287 0.02093
                                                                0.331
     175
                      26
                                                  0.249
                            0.242 0.01982
##
     200
            113
                      21
                                                  0.206
                                                                0.284
##
     225
            98
                      16
                            0.208 0.01877
                                                  0.174
                                                                0.248
##
     250
             78
                      19
                            0.167 0.01726
                                                  0.136
                                                                0.205
##
##
                   subj=031, trial=90
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.000 0.0000
                                                                1.000
##
       1
            554
                       0
                                                  1.000
##
      25
            455
                     100
                            0.819 0.0163
                                                  0.788
                                                                0.852
##
      50
            357
                      97
                            0.644 0.0203
                                                  0.606
                                                                0.686
##
      75
            279
                      78
                            0.504 0.0212
                                                  0.464
                                                                0.547
            232
##
     100
                      47
                            0.419 0.0210
                                                  0.380
                                                                0.462
##
     125
            199
                      33
                            0.359 0.0204
                                                  0.321
                                                                0.401
##
     150
            178
                      21
                            0.321 0.0198
                                                  0.285
                                                                0.363
##
            151
                            0.273 0.0189
                                                  0.238
                                                                0.312
     175
                      27
                            0.240 0.0181
##
     200
            133
                      18
                                                                0.278
                                                  0.207
                            0.179 0.0163
##
     225
             99
                      34
                                                  0.149
                                                                0.214
##
     250
             78
                            0.141 0.0148
                      21
                                                  0.115
                                                                0.173
```





Does Day Have an Effect?

I will use the Lubridate package here to determine the days that each of the subjects were observed for.

'Figure 7'

```
# Load the lubridate package
library(lubridate)
```

I want to see if there is any effect that day of week has on how the survival curve.

We create variable dayofweek which will be Sun-Sat from the time variable.

'Figure 8'

```
# Sample POSIXct datetime
SDdate <- stroke_data %>%
  mutate(dayofweek = wday(alld$time, label = TRUE)) %>%
  mutate( status = 1)
```

From there I am able to draw a survival curve that shows the effect of day of week. This is the only co-variate I am using in this graph, but participant could also be added.

Based on the graph, most of the days appear to have a similar shape, but Friday is has a larger survival percentage, which leads us to our next question...

NOTE: xlim creates a limit to the graph without actually removing data (in the instance of Friday, there was a case where time went way beyond the others, so I decided to truncate the data to be more visibly understandable) facet_wrap separates the graphs into each of variable objects (dayofweek would create 7 different graphs based on the day of the week) scale_y_log10 transforms the y axis to represent powers of 10 rather than a linear system

'Figure 9'

```
date_fit <- survfit(Surv(dur_s,status) ~ dayofweek , data = SDdate)
summary(date_fit, times = c(1,25*(1:10)))</pre>
```

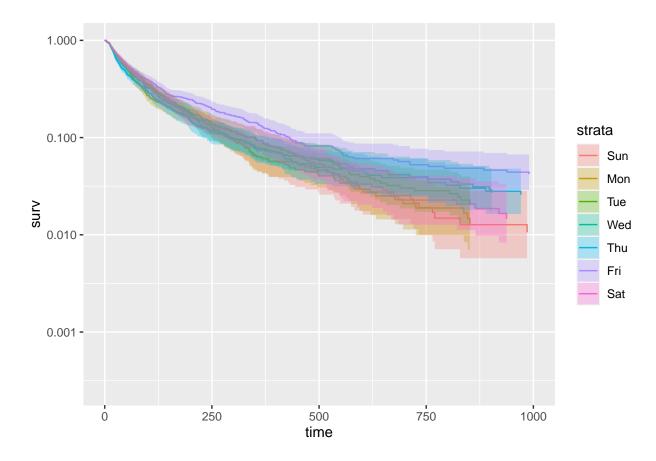
```
Call: survfit(formula = Surv(dur_s, status) ~ dayofweek, data = SDdate)
##
##
                    dayofweek=Sun
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             472
                       0
                             1.000 0.0000
                                                   1.0000
                                                                  1.000
       1
##
      25
             355
                     117
                             0.752
                                    0.0199
                                                   0.7142
                                                                  0.792
##
      50
             268
                      88
                             0.566
                                    0.0228
                                                   0.5227
                                                                  0.612
      75
                             0.445
                                    0.0229
                                                   0.4023
                                                                  0.492
##
             210
                      57
##
     100
             172
                      38
                             0.364
                                    0.0222
                                                   0.3235
                                                                  0.411
##
     125
             139
                      33
                             0.294
                                    0.0210
                                                   0.2561
                                                                  0.339
             119
                      20
                             0.252
                                    0.0200
                                                   0.2158
                                                                  0.294
##
     150
##
     175
              97
                      22
                             0.206
                                    0.0186
                                                   0.1721
                                                                  0.245
##
     200
              85
                      12
                             0.180 0.0177
                                                   0.1486
                                                                  0.218
##
     225
              71
                      14
                             0.150
                                    0.0165
                                                   0.1214
                                                                  0.186
     250
              59
                      12
##
                             0.125
                                    0.0152
                                                   0.0985
                                                                  0.159
##
##
                    dayofweek=Mon
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             477
                       0
                             1.000
                                    0.0000
                                                   1.0000
                                                                  1.000
       1
##
      25
             359
                     119
                             0.751
                                    0.0198
                                                   0.7127
                                                                  0.790
##
      50
             254
                     105
                             0.530
                                    0.0229
                                                   0.4874
                                                                  0.577
##
      75
             174
                      79
                             0.365
                                    0.0220
                                                   0.3240
                                                                  0.411
##
     100
             129
                      45
                             0.270
                                    0.0203
                                                   0.2334
                                                                  0.313
##
     125
             110
                      19
                             0.231
                                    0.0193
                                                   0.1957
                                                                  0.272
##
              98
                             0.205
                                    0.0185
                                                                  0.245
     150
                      12
                                                   0.1722
##
     175
              87
                             0.182
                                    0.0177
                                                   0.1508
                                                                  0.221
                      11
##
     200
              77
                      10
                             0.161
                                    0.0168
                                                   0.1316
                                                                  0.198
##
     225
              71
                       7
                             0.147
                                    0.0162
                                                   0.1182
                                                                  0.182
##
     250
              60
                      10
                             0.126 0.0152
                                                   0.0993
                                                                  0.159
##
##
                    dayofweek=Tue
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             528
                       0
                             1.000
                                    0.0000
                                                    1.000
                                                                  1.000
       1
##
      25
             379
                     149
                             0.718
                                    0.0196
                                                    0.680
                                                                  0.757
##
      50
             291
                      88
                             0.551
                                    0.0216
                                                    0.510
                                                                  0.595
##
      75
             240
                      51
                             0.455
                                    0.0217
                                                    0.414
                                                                  0.499
##
     100
             185
                                                    0.312
                                                                  0.394
                      55
                             0.350
                                    0.0208
##
     125
             150
                      35
                             0.284
                                    0.0196
                                                    0.248
                                                                  0.325
                      22
##
     150
             128
                             0.242
                                    0.0187
                                                    0.208
                                                                  0.282
##
     175
             112
                      16
                             0.212
                                    0.0178
                                                    0.180
                                                                  0.250
     200
                                                    0.150
                                                                  0.216
##
              95
                      17
                             0.180
                                    0.0167
```

##	225	86	9	0.163	0.0161		0.134		0.198
##	250	74	12	0.140	0.0151		0.113		0.173
##									
##			dayot	fweek=Wed					
##	time	n.risk	${\tt n.event}$	survival	std.err	lower	95% CI	upper	95% CI
##	1	482	0	1.000	0.0000		1.0000		1.000
##	25	340	142	0.705	0.0208		0.6658		0.747
##	50	250	90	0.519	0.0228		0.4759		0.565
##	75	197	53	0.409	0.0224		0.3671		0.455
##	100	157	40	0.326	0.0213		0.2865		0.370
##	125	130	27	0.270	0.0202		0.2329		0.312
##	150	108	22	0.224	0.0190		0.1898		0.265
##	175	96	13	0.197	0.0181		0.1646		0.236
##	200	84	11	0.174	0.0173		0.1435		0.212
##	225	65	19	0.135	0.0156		0.1076		0.169
##	250	57	8	0.118	0.0147		0.0927		0.151
##									
##			davoi	fweek=Thu					
##	time	n.risk	•	survival	std.err	lower	95% CI	upper	95% CI
##	1	462	2		0.00304		0.9897	11	1.000
##	25	310	153		0.02190		0.6244		0.710
##	50	216	93		0.02316		0.4223		0.513
##	75	173	43		0.02245		0.3313		0.420
##	100	138	35		0.02122		0.2586		0.342
##	125	111	27		0.01980		0.2034		0.281
##	150	95	16		0.01873		0.1711		0.245
##	175	82	13		0.01771		0.1452		0.215
##	200	69	13		0.01652		0.1196		0.185
##	225	59	10		0.01547		0.1002		0.161
##	250	52	7		0.01464		0.0867		0.145
##	200	02	•	0.112	0.01101		0.0001		0.110
##			davot	fweek=Fri					
##	+imo	n rick	•	survival	etd orr	lower	95% CT	unnar	95% CT
##	1	476	1.event	0.998	0.0021	TOWEL	0.994	upper	1.000
##	25	359	117	0.752	0.0021		0.714		0.792
##	50	271	87	0.752	0.0130		0.714		0.732
##	75	221	50	0.464	0.0227		0.422		0.511
##	100	187	34	0.393	0.0223		0.351		0.439
##	125	157	30	0.330	0.0224		0.290		0.375
##	150	132	25	0.330	0.0215		0.240		0.373
	175		25 7						
##		125	8	0.263 0.246	0.0202		0.226		0.305
##	200	117			0.0197		0.210		0.288
##	225	106	11	0.223	0.0191		0.188		0.263
##	250	93	13	0.195	0.0182		0.163		0.234
##			3	f1					
##				fweek=Sat		-	05% 95		0.E% GT
##				survival		lower		upper	
##	1	483	0	1.000	0.0000		1.000		1.000
##	25	356	127	0.737	0.0200		0.699		0.777
##	50	268	88	0.555	0.0226		0.512		0.601
##	75	207	61	0.429	0.0225		0.387		0.475
##	100	162	45	0.335	0.0215		0.296		0.380
##	125	130	32	0.269	0.0202		0.232		0.312
##	150	112	18	0.232	0.0192		0.197		0.273

```
##
     175
                      17
                             0.197 0.0181
                                                    0.164
                                                                  0.236
##
     200
              79
                      16
                             0.164 0.0168
                                                    0.134
                                                                  0.200
                             0.153 0.0164
##
     225
              74
                       5
                                                    0.124
                                                                  0.189
     250
                       8
                                                    0.109
##
              66
                             0.137 0.0156
                                                                  0.171
```

```
autoplot(date_fit) +
  xlim(c(0,1000)) +
  # facet_wrap(~strata) +
  scale_y_log10()
```

- ## Scale for y is already present.
- ## Adding another scale for y, which will replace the existing scale.
- ## Warning: Transformation introduced infinite values in continuous y-axis
- ## Transformation introduced infinite values in continuous y-axis
- ## Warning: Removed 74 rows containing missing values ('geom_step()').



Is the pattern for Friday consistent for everybody?

I am first going to break apart the data for each subject as each subject may have been given a tracking device on different days. Then I can break that apart by day to see if there appears to be any differences in days. I am doing this because Friday appears to have a higher survival percentage than the other days, but I want to find out if this is just because one or a few people are causing this effect or if can be generalized.

'Figure 10'

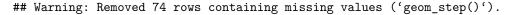
```
date_fit2 <- survfit(Surv(dur_s,status) ~ dayofweek , data = SDdate)
summary(date_fit, times = c(1,25*(1:10)))</pre>
```

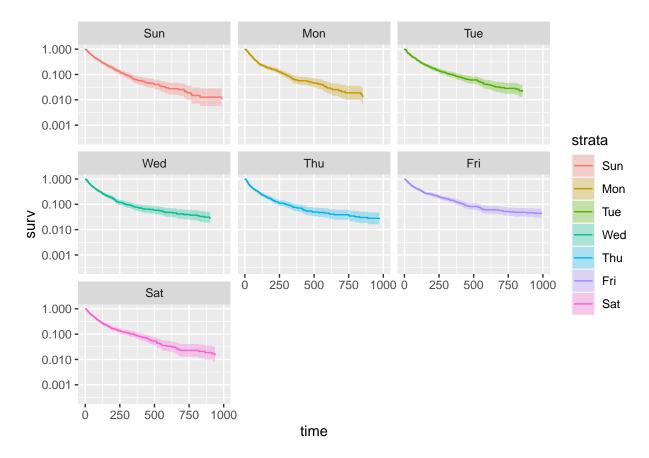
```
## Call: survfit(formula = Surv(dur_s, status) ~ dayofweek, data = SDdate)
##
##
                    dayofweek=Sun
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
            472
                       0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
      25
            355
                            0.752 0.0199
                                                                0.792
                     117
                                                 0.7142
##
      50
            268
                      88
                            0.566 0.0228
                                                 0.5227
                                                                0.612
##
      75
            210
                      57
                            0.445 0.0229
                                                 0.4023
                                                                0.492
##
     100
            172
                      38
                            0.364 0.0222
                                                 0.3235
                                                                0.411
##
     125
            139
                      33
                            0.294 0.0210
                                                 0.2561
                                                                0.339
##
     150
            119
                      20
                            0.252 0.0200
                                                 0.2158
                                                                0.294
##
     175
             97
                      22
                            0.206 0.0186
                                                 0.1721
                                                                0.245
##
     200
             85
                      12
                            0.180 0.0177
                                                 0.1486
                                                                0.218
##
     225
             71
                      14
                            0.150 0.0165
                                                 0.1214
                                                                0.186
                                                                0.159
##
     250
             59
                      12
                            0.125 0.0152
                                                 0.0985
##
##
                    dayofweek=Mon
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                       0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
       1
            477
                            0.751 0.0198
      25
            359
                                                 0.7127
                                                                0.790
##
                     119
##
      50
            254
                     105
                            0.530 0.0229
                                                 0.4874
                                                                0.577
##
      75
            174
                      79
                            0.365 0.0220
                                                 0.3240
                                                                0.411
##
     100
            129
                      45
                            0.270 0.0203
                                                 0.2334
                                                                0.313
##
     125
            110
                      19
                            0.231 0.0193
                                                 0.1957
                                                                0.272
##
     150
             98
                      12
                            0.205 0.0185
                                                 0.1722
                                                                0.245
##
     175
             87
                            0.182 0.0177
                                                 0.1508
                                                                0.221
                      11
##
     200
             77
                      10
                            0.161 0.0168
                                                 0.1316
                                                                0.198
##
                                                                0.182
     225
             71
                       7
                            0.147 0.0162
                                                 0.1182
##
     250
                      10
                            0.126 0.0152
                                                 0.0993
                                                                0.159
##
##
                    dayofweek=Tue
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
                            1.000 0.0000
                                                  1.000
                                                                1.000
       1
            528
                       0
##
      25
            379
                     149
                            0.718 0.0196
                                                  0.680
                                                                0.757
            291
##
      50
                      88
                            0.551 0.0216
                                                  0.510
                                                                0.595
##
      75
            240
                      51
                            0.455 0.0217
                                                  0.414
                                                                0.499
##
     100
            185
                      55
                            0.350 0.0208
                                                  0.312
                                                                0.394
##
     125
            150
                      35
                            0.284 0.0196
                                                  0.248
                                                                0.325
##
     150
            128
                      22
                            0.242 0.0187
                                                  0.208
                                                                0.282
##
            112
     175
                      16
                            0.212 0.0178
                                                  0.180
                                                                0.250
##
     200
             95
                      17
                            0.180 0.0167
                                                  0.150
                                                                0.216
##
     225
             86
                       9
                            0.163 0.0161
                                                  0.134
                                                                0.198
##
             74
                      12
                            0.140 0.0151
     250
                                                  0.113
                                                                0.173
##
##
                    dayofweek=Wed
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.000 0.0000
                                                 1.0000
       1
            482
                       0
                                                                1.000
##
      25
            340
                     142
                            0.705 0.0208
                                                 0.6658
                                                                0.747
##
      50
            250
                            0.519 0.0228
                                                 0.4759
                                                                0.565
                      90
```

```
75
             197
                      53
                             0.409 0.0224
                                                  0.3671
                                                                 0.455
##
     100
                                                                 0.370
##
             157
                      40
                             0.326 0.0213
                                                  0.2865
##
     125
             130
                      27
                             0.270 0.0202
                                                  0.2329
                                                                 0.312
##
     150
             108
                      22
                             0.224 0.0190
                                                  0.1898
                                                                 0.265
##
     175
             96
                      13
                             0.197 0.0181
                                                  0.1646
                                                                 0.236
##
     200
             84
                      11
                             0.174 0.0173
                                                  0.1435
                                                                 0.212
##
     225
             65
                      19
                             0.135 0.0156
                                                  0.1076
                                                                 0.169
##
     250
             57
                       8
                             0.118 0.0147
                                                  0.0927
                                                                 0.151
##
##
                    dayofweek=Thu
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                       2
                             0.996 0.00304
                                                  0.9897
                                                                 1.000
       1
             462
##
      25
             310
                     153
                             0.666 0.02190
                                                  0.6244
                                                                 0.710
##
             216
                      93
      50
                             0.466 0.02316
                                                  0.4223
                                                                 0.513
##
      75
             173
                      43
                             0.373 0.02245
                                                  0.3313
                                                                 0.420
##
     100
             138
                      35
                             0.297 0.02122
                                                  0.2586
                                                                 0.342
##
     125
             111
                      27
                             0.239 0.01980
                                                  0.2034
                                                                 0.281
##
             95
                             0.205 0.01873
                                                                 0.245
     150
                      16
                                                  0.1711
                      13
##
     175
             82
                             0.177 0.01771
                                                  0.1452
                                                                 0.215
##
     200
             69
                      13
                             0.149 0.01652
                                                  0.1196
                                                                 0.185
##
     225
             59
                      10
                             0.127 0.01547
                                                  0.1002
                                                                 0.161
##
     250
                       7
                             0.112 0.01464
                                                  0.0867
                                                                 0.145
##
##
                    dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             476
                       1
                             0.998 0.0021
                                                   0.994
                                                                 1.000
##
      25
             359
                     117
                             0.752 0.0198
                                                   0.714
                                                                 0.792
##
      50
             271
                      87
                             0.569 0.0227
                                                   0.527
                                                                 0.616
##
      75
             221
                      50
                             0.464 0.0229
                                                                 0.511
                                                   0.422
##
     100
             187
                             0.393 0.0224
                                                                 0.439
                      34
                                                   0.351
##
     125
             157
                                                                 0.375
                      30
                             0.330 0.0215
                                                   0.290
##
     150
             132
                      25
                             0.277 0.0205
                                                   0.240
                                                                 0.321
##
     175
             125
                       7
                             0.263 0.0202
                                                                 0.305
                                                   0.226
##
     200
             117
                       8
                             0.246 0.0197
                                                   0.210
                                                                 0.288
##
     225
             106
                             0.223 0.0191
                                                                 0.263
                      11
                                                   0.188
##
     250
             93
                      13
                             0.195 0.0182
                                                   0.163
                                                                 0.234
##
##
                    dayofweek=Sat
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             483
                             1.000 0.0000
                                                   1.000
                                                                 1.000
       1
                       0
##
      25
             356
                     127
                             0.737 0.0200
                                                   0.699
                                                                 0.777
             268
                             0.555 0.0226
                                                                 0.601
##
      50
                      88
                                                   0.512
##
      75
             207
                      61
                             0.429 0.0225
                                                   0.387
                                                                 0.475
##
     100
             162
                      45
                             0.335 0.0215
                                                   0.296
                                                                 0.380
##
     125
             130
                      32
                             0.269 0.0202
                                                   0.232
                                                                 0.312
##
     150
             112
                      18
                             0.232 0.0192
                                                                 0.273
                                                   0.197
##
     175
             95
                      17
                             0.197 0.0181
                                                                 0.236
                                                   0.164
##
     200
             79
                      16
                             0.164 0.0168
                                                   0.134
                                                                 0.200
##
     225
             74
                       5
                             0.153 0.0164
                                                   0.124
                                                                 0.189
##
     250
             66
                       8
                             0.137 0.0156
                                                   0.109
                                                                 0.171
autoplot(date_fit2) +
  xlim(c(0,1000)) +
  facet wrap(~strata) +
```

scale_y_log10()

```
## Scale for y is already present.
## Adding another scale for y, which will replace the existing scale.
## Warning: Transformation introduced infinite values in continuous y-axis
## Transformation introduced infinite values in continuous y-axis
```





We can see that there does appear to be a slight difference based on day of week, but I am going to dig further to see if there is any difference based on subjects. It is known that the subjects received the tracking device on different days, so I want to explore if that makes a difference.

'Figure 11'

```
25
                            0.837 0.0373
                                                  0.7667
##
             82
                      16
                                                                 0.913
##
      50
             57
                      26
                            0.571 0.0500
                                                  0.4814
                                                                 0.678
##
      75
             46
                            0.469 0.0504
                                                  0.3803
                                                                 0.579
                      10
##
     100
             37
                       9
                            0.378 0.0490
                                                  0.2928
                                                                 0.487
##
     125
             28
                       9
                            0.286 0.0456
                                                  0.2089
                                                                 0.391
##
     150
             22
                       6
                            0.224 0.0421
                                                  0.1554
                                                                 0.324
##
     175
             19
                       3
                            0.194 0.0399
                                                  0.1295
                                                                 0.290
##
     200
                       4
                            0.153
                                   0.0364
                                                  0.0961
                                                                 0.244
             15
##
     225
             14
                       1
                            0.143 0.0353
                                                  0.0880
                                                                 0.232
##
     250
             14
                       0
                            0.143 0.0353
                                                  0.0880
                                                                 0.232
##
##
                    subj=007, dayofweek=Mon
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             98
                       0
                           1.0000 0.0000
                                                  1.0000
                                                                 1.000
       1
##
      25
             80
                      19
                           0.8061 0.0399
                                                  0.7315
                                                                 0.888
##
      50
             57
                      22
                           0.5816 0.0498
                                                  0.4917
                                                                 0.688
##
      75
             30
                      27
                           0.3061 0.0466
                                                  0.2272
                                                                 0.412
##
                                   0.0421
     100
             22
                       8
                           0.2245
                                                  0.1554
                                                                 0.324
##
     125
             17
                       5
                           0.1735 0.0382
                                                  0.1126
                                                                 0.267
##
     150
             14
                       3
                           0.1429 0.0353
                                                  0.0880
                                                                 0.232
##
     175
             13
                       1
                           0.1327 0.0343
                                                  0.0800
                                                                 0.220
##
     200
             12
                       1
                           0.1224 0.0331
                                                  0.0721
                                                                 0.208
##
     225
                           0.1224 0.0331
                                                                 0.208
             12
                       0
                                                  0.0721
##
     250
              9
                       3
                           0.0918 0.0292
                                                  0.0493
                                                                 0.171
##
                    subj=007, dayofweek=Tue
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             98
                       0
                            1.000 0.0000
                                                   1.000
                                                                 1.000
       1
             78
##
      25
                      20
                            0.796 0.0407
                                                   0.720
                                                                 0.880
##
      50
                            0.633 0.0487
                                                                 0.736
             62
                      16
                                                   0.544
##
      75
             52
                      10
                            0.531 0.0504
                                                   0.440
                                                                 0.639
##
     100
             46
                       6
                            0.469 0.0504
                                                   0.380
                                                                 0.579
##
     125
             41
                       5
                            0.418 0.0498
                                                   0.331
                                                                 0.528
##
     150
             35
                       6
                            0.357 0.0484
                                                   0.274
                                                                 0.466
                            0.306 0.0466
##
     175
             30
                       5
                                                   0.227
                                                                 0.412
                       7
##
     200
             23
                            0.235 0.0428
                                                   0.164
                                                                 0.336
                            0.235 0.0428
##
     225
             23
                       0
                                                   0.164
                                                                 0.336
##
     250
             20
                       3
                            0.204 0.0407
                                                   0.138
                                                                 0.302
##
##
                    subj=007, dayofweek=Wed
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             53
                       0
                           1.0000 0.0000
                                                  1.0000
                                                                 1.000
##
      25
             39
                      14
                           0.7358 0.0606
                                                  0.6262
                                                                 0.865
##
      50
             28
                           0.5283 0.0686
                                                  0.4096
                                                                 0.681
                      11
##
      75
             21
                       7
                           0.3962 0.0672
                                                  0.2842
                                                                 0.552
##
     100
                       5
                           0.3019
                                                  0.2005
                                                                 0.455
             16
                                   0.0631
##
     125
             10
                       6
                           0.1887 0.0537
                                                                 0.330
                                                  0.1080
##
     150
              9
                       1
                           0.1698 0.0516
                                                  0.0936
                                                                 0.308
##
     175
              9
                       0
                           0.1698 0.0516
                                                  0.0936
                                                                 0.308
##
     200
              9
                       0
                           0.1698 0.0516
                                                  0.0936
                                                                 0.308
##
     225
              5
                       4
                           0.0943 0.0402
                                                  0.0410
                                                                 0.217
##
              3
     250
                           0.0566 0.0317
                                                  0.0189
                                                                 0.170
##
##
                    subj=007, dayofweek=Thu
```

```
time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             39
                       0
                           1.0000 0.0000
                                                  1,0000
                                                                 1.000
##
      25
             23
                           0.5897 0.0788
                                                  0.4539
                                                                 0.766
                      16
##
      50
                       7
                           0.4103 0.0788
                                                  0.2816
                                                                 0.598
             16
      75
##
             13
                       3
                           0.3333 0.0755
                                                  0.2139
                                                                 0.520
##
     100
             10
                       3
                           0.2564 0.0699
                                                  0.1503
                                                                 0.438
##
     125
              6
                       4
                           0.1538 0.0578
                                                  0.0737
                                                                 0.321
##
     150
              4
                       2
                           0.1026 0.0486
                                                                 0.260
                                                  0.0405
##
     175
              2
                       2
                           0.0513
                                   0.0353
                                                  0.0133
                                                                 0.198
##
     200
                           0.0256
                                   0.0253
                                                  0.0037
                                                                 0.177
              1
                       1
                                                  0.0037
##
     225
              1
                       0
                           0.0256 0.0253
                                                                 0.177
##
     250
                           0.0256 0.0253
               1
                       0
                                                  0.0037
                                                                 0.177
##
##
                    subj=007, dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             47
                       0
                            1.000 0.0000
                                                   1.000
                                                                 1.000
##
      25
             38
                       9
                            0.809 0.0574
                                                   0.703
                                                                 0.929
      50
             29
                            0.617 0.0709
                                                   0.493
##
                       9
                                                                 0.773
##
      75
             24
                       5
                            0.511 0.0729
                                                   0.386
                                                                 0.676
##
     100
             21
                       3
                            0.447 0.0725
                                                   0.325
                                                                 0.614
##
     125
             19
                       2
                            0.404 0.0716
                                                   0.286
                                                                 0.572
##
     150
             16
                       3
                            0.340 0.0691
                                                   0.229
                                                                 0.507
##
                                                                 0.507
     175
             16
                       0
                            0.340 0.0691
                                                   0.229
##
     200
             14
                       2
                            0.298 0.0667
                                                   0.192
                                                                 0.462
##
     225
             13
                            0.277 0.0652
                                                                 0.439
                       1
                                                   0.174
##
     250
             11
                       2
                            0.234 0.0618
                                                   0.140
                                                                 0.393
##
##
                    subj=007, dayofweek=Sat
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
            105
                       0
                            1.000 0.0000
                                                  1.0000
                                                                 1.000
##
       1
      25
             85
                      20
                                                  0.7378
                                                                 0.888
##
                            0.810 0.0383
##
      50
             67
                      18
                            0.638 0.0469
                                                  0.5525
                                                                 0.737
##
      75
             47
                      20
                            0.448 0.0485
                                                                 0.554
                                                  0.3619
##
     100
             38
                       9
                            0.362 0.0469
                                                  0.2807
                                                                 0.467
##
     125
             27
                      11
                            0.257 0.0427
                                                  0.1858
                                                                 0.356
##
     150
             21
                       6
                            0.200 0.0390
                                                  0.1364
                                                                 0.293
##
     175
             16
                       5
                            0.152 0.0351
                                                  0.0971
                                                                 0.239
##
     200
             14
                       2
                            0.133 0.0332
                                                  0.0819
                                                                 0.217
##
     225
             13
                       1
                            0.124 0.0321
                                                  0.0744
                                                                 0.206
##
     250
             12
                            0.114 0.0310
                       1
                                                  0.0671
                                                                 0.195
##
##
                    subj=010, dayofweek=Sun
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             52
                       0
                           1.0000 0.0000
                                                  1.0000
                                                                 1.000
       1
##
      25
             32
                      20
                           0.6154 0.0675
                                                  0.4964
                                                                 0.763
                      12
##
      50
             20
                           0.3846 0.0675
                                                                 0.542
                                                  0.2727
##
      75
                       6
                           0.2692 0.0615
                                                                 0.421
             14
                                                  0.1720
##
     100
             10
                       4
                           0.1923 0.0547
                                                  0.1102
                                                                 0.336
##
     125
              8
                       2
                           0.1538 0.0500
                                                  0.0813
                                                                 0.291
##
              6
                       2
                                                                 0.245
     150
                           0.1154 0.0443
                                                  0.0544
##
     175
              6
                       0
                           0.1154 0.0443
                                                  0.0544
                                                                 0.245
                       2
##
     200
              4
                           0.0769 0.0370
                                                  0.0300
                                                                 0.197
##
     225
              4
                       0
                           0.0769 0.0370
                                                  0.0300
                                                                 0.197
##
     250
              4
                       0
                           0.0769 0.0370
                                                  0.0300
                                                                 0.197
```

```
##
##
                    subj=010, dayofweek=Mon
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.0000 0.0000
                                                 1.00000
                                                                 1.000
       1
             46
                       0
##
      25
             25
                      21
                            0.5435 0.0734
                                                 0.41702
                                                                 0.708
##
      50
             16
                      10
                           0.3261 0.0691
                                                 0.21523
                                                                 0.494
##
      75
              9
                       6
                            0.1957 0.0585
                                                 0.10890
                                                                 0.352
##
     100
                       4
                            0.1087 0.0459
                                                 0.04751
                                                                 0.249
              5
##
     125
               4
                       1
                            0.0870 0.0415
                                                 0.03409
                                                                 0.222
##
     150
              4
                       0
                            0.0870 0.0415
                                                 0.03409
                                                                 0.222
##
     175
               3
                       1
                            0.0652 0.0364
                                                 0.02184
                                                                 0.195
##
     200
              3
                       0
                            0.0652 0.0364
                                                 0.02184
                                                                 0.195
##
     225
                       0
                            0.0652 0.0364
              3
                                                 0.02184
                                                                 0.195
##
                       2
     250
                            0.0217 0.0215
                                                 0.00313
                                                                 0.151
               1
##
##
                    subj=010, dayofweek=Tue
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
##
       1
             45
                       0
##
      25
             31
                      14
                            0.6889 0.0690
                                                  0.5661
                                                                 0.838
                                                                 0.659
##
      50
             22
                       9
                            0.4889 0.0745
                                                  0.3626
##
      75
              17
                       5
                            0.3778 0.0723
                                                  0.2597
                                                                 0.550
##
     100
              7
                      10
                            0.1556
                                   0.0540
                                                  0.0787
                                                                 0.307
##
                                                                 0.227
     125
              4
                       3
                            0.0889 0.0424
                                                  0.0349
##
     150
              3
                       1
                            0.0667 0.0372
                                                  0.0223
                                                                 0.199
##
     175
              3
                       0
                            0.0667 0.0372
                                                  0.0223
                                                                 0.199
##
     200
              1
                       2
                            0.0222 0.0220
                                                  0.0032
                                                                 0.154
##
     225
               1
                       0
                            0.0222
                                   0.0220
                                                  0.0032
                                                                 0.154
##
     250
               1
                       0
                            0.0222 0.0220
                                                  0.0032
                                                                 0.154
##
##
                    subj=010, dayofweek=Wed
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             40
                       0
                            1.000 0.0000
                                                 1.00000
                                                                 1.000
##
      25
             27
                      13
                            0.675 0.0741
                                                 0.54440
                                                                 0.837
##
      50
             17
                      10
                            0.425 0.0782
                                                 0.29638
                                                                 0.609
      75
                            0.275 0.0706
##
              11
                       6
                                                 0.16627
                                                                 0.455
##
     100
              6
                       5
                            0.150 0.0565
                                                 0.07173
                                                                 0.314
##
     125
              4
                       2
                            0.100 0.0474
                                                 0.03947
                                                                 0.253
##
     150
              3
                       1
                            0.075 0.0416
                                                 0.02526
                                                                 0.223
##
     175
              3
                       0
                            0.075
                                   0.0416
                                                 0.02526
                                                                 0.223
##
     200
              2
                       1
                            0.050 0.0345
                                                 0.01295
                                                                 0.193
##
     225
                       1
                            0.025
                                   0.0247
                                                 0.00361
                                                                 0.173
##
     250
               1
                       0
                            0.025 0.0247
                                                 0.00361
                                                                 0.173
##
##
                    subj=010, dayofweek=Thu
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             79
##
                       0
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
       1
##
      25
             43
                      36
                            0.5443 0.0560
                                                  0.4449
                                                                 0.666
##
      50
             31
                      12
                            0.3924 0.0549
                                                  0.2982
                                                                 0.516
##
      75
             22
                       9
                            0.2785 0.0504
                                                  0.1953
                                                                 0.397
##
                            0.2025 0.0452
     100
             16
                       6
                                                  0.1308
                                                                 0.314
##
     125
             13
                       3
                            0.1646 0.0417
                                                  0.1001
                                                                 0.270
##
     150
             10
                       3
                            0.1266 0.0374
                                                  0.0709
                                                                 0.226
##
     175
              8
                       2
                            0.1013 0.0339
                                                  0.0525
                                                                 0.195
##
     200
              7
                            0.0886 0.0320
                                                  0.0437
                                                                 0.180
```

```
225
                            0.0633 0.0274
                                                  0.0271
##
                                                                 0.148
                                                  0.0195
##
     250
                       1
                            0.0506 0.0247
                                                                 0.132
##
##
                    subj=010, dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             84
                       1
                             0.988 0.0118
                                                  0.9652
                                                                 1.000
       1
##
      25
             50
                      33
                             0.595 0.0536
                                                  0.4990
                                                                 0.710
##
      50
             38
                      12
                             0.452 0.0543
                                                  0.3575
                                                                 0.572
##
      75
             28
                      10
                             0.333
                                    0.0514
                                                  0.2463
                                                                 0.451
##
     100
             26
                       2
                             0.310 0.0504
                                                  0.2249
                                                                 0.426
##
     125
             20
                       6
                             0.238 0.0465
                                                  0.1624
                                                                 0.349
##
     150
                             0.190 0.0428
                                                  0.1226
                                                                 0.296
             16
                       4
##
     175
                             0.179 0.0418
                                                                 0.282
             15
                       1
                                                  0.1129
##
                       2
     200
             13
                             0.155
                                   0.0395
                                                  0.0939
                                                                 0.255
##
     225
             13
                       0
                             0.155
                                   0.0395
                                                  0.0939
                                                                 0.255
##
     250
             10
                       3
                             0.119 0.0353
                                                  0.0665
                                                                 0.213
##
##
                    subj=010, dayofweek=Sat
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
                                                  1.0000
                                                                 1.000
##
       1
             43
                       0
##
      25
             28
                      15
                             0.651 0.0727
                                                  0.5232
                                                                 0.810
##
      50
             19
                       9
                             0.442 0.0757
                                                  0.3158
                                                                 0.618
##
      75
                       6
                             0.302
                                   0.0700
                                                                 0.476
             13
                                                  0.1920
##
     100
             11
                       2
                             0.256
                                   0.0665
                                                  0.1536
                                                                 0.426
##
             10
                             0.233 0.0644
     125
                                                  0.1351
                                                                 0.400
                       1
##
     150
               9
                       1
                             0.209
                                   0.0620
                                                  0.1171
                                                                 0.374
##
     175
               8
                       1
                             0.186 0.0593
                                                  0.0996
                                                                 0.348
##
     200
               7
                       1
                             0.163 0.0563
                                                  0.0827
                                                                 0.321
               7
##
     225
                       0
                             0.163 0.0563
                                                  0.0827
                                                                 0.321
##
     250
               5
                       2
                             0.116 0.0489
                                                  0.0510
                                                                 0.265
##
##
                    subj=016, dayofweek=Sun
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
##
             43
                       0
                                                  1.0000
                                                                 1.000
       1
      25
             28
                      15
                             0.651 0.0727
                                                  0.5232
                                                                 0.810
##
##
      50
             19
                       9
                             0.442 0.0757
                                                  0.3158
                                                                 0.618
##
      75
             19
                       0
                             0.442 0.0757
                                                  0.3158
                                                                 0.618
##
     100
             16
                       3
                             0.372 0.0737
                                                  0.2524
                                                                 0.549
##
     125
             13
                       3
                             0.302
                                   0.0700
                                                  0.1920
                                                                 0.476
##
             12
     150
                       1
                             0.279 0.0684
                                                  0.1726
                                                                 0.451
##
     175
               9
                       3
                             0.209
                                   0.0620
                                                  0.1171
                                                                 0.374
##
     200
               9
                       0
                             0.209
                                   0.0620
                                                  0.1171
                                                                 0.374
##
     225
               8
                             0.186 0.0593
                                                  0.0996
                                                                 0.348
                       1
##
     250
               8
                       0
                             0.186 0.0593
                                                  0.0996
                                                                 0.348
##
##
                    subj=016, dayofweek=Mon
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             61
                       0
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
       1
                                   0.0608
                                                  0.5467
                                                                 0.786
##
      25
             40
                      21
                            0.6557
##
      50
             24
                            0.3934 0.0625
                                                  0.2881
                                                                 0.537
                      16
      75
##
             17
                       7
                            0.2787
                                   0.0574
                                                  0.1861
                                                                 0.417
##
     100
             11
                       6
                            0.1803 0.0492
                                                  0.1056
                                                                 0.308
##
     125
             10
                       1
                            0.1639
                                   0.0474
                                                  0.0930
                                                                 0.289
##
     150
              7
                       3
                            0.1148 0.0408
                                                  0.0572
                                                                 0.230
```

```
175
                            0.0820 0.0351
                                                  0.0354
                                                                 0.190
##
               5
     200
##
               5
                       0
                            0.0820 0.0351
                                                  0.0354
                                                                 0.190
##
     225
               5
                            0.0820 0.0351
                                                  0.0354
                                                                 0.190
                       0
##
     250
               4
                            0.0656 0.0317
                                                  0.0254
                                                                  0.169
                       1
##
##
                    subj=016, dayofweek=Tue
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
##
             60
                       0
                                                  1.0000
                                                                  1.000
       1
##
      25
             37
                      23
                             0.617 0.0628
                                                  0.5051
                                                                 0.753
##
      50
             27
                      10
                             0.450
                                   0.0642
                                                  0.3402
                                                                 0.595
##
      75
             22
                       5
                             0.367
                                    0.0622
                                                  0.2629
                                                                 0.511
##
     100
             15
                       7
                             0.250 0.0559
                                                                 0.388
                                                  0.1613
##
     125
                       3
                             0.200 0.0516
             12
                                                  0.1206
                                                                 0.332
##
     150
               9
                       3
                             0.150 0.0461
                                                  0.0821
                                                                 0.274
##
     175
               9
                       0
                             0.150 0.0461
                                                  0.0821
                                                                 0.274
##
     200
               8
                       1
                             0.133 0.0439
                                                  0.0699
                                                                 0.254
##
     225
               7
                       1
                             0.117 0.0414
                                                  0.0582
                                                                 0.234
##
     250
                             0.100 0.0387
               6
                       1
                                                  0.0468
                                                                  0.214
##
##
                    subj=016, dayofweek=Wed
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             43
                       0
                             1.000 0.0000
                                                  1.0000
                                                                  1.000
##
      25
                      14
                             0.674 0.0715
                                                  0.5479
                                                                 0.830
             29
##
      50
             22
                       7
                             0.512 0.0762
                                                  0.3821
                                                                 0.685
      75
##
             15
                       7
                             0.349 0.0727
                                                  0.2319
                                                                 0.525
##
     100
             11
                       4
                             0.256 0.0665
                                                  0.1536
                                                                 0.426
##
     125
               9
                       2
                             0.209 0.0620
                                                  0.1171
                                                                 0.374
##
     150
               7
                       2
                             0.163 0.0563
                                                  0.0827
                                                                 0.321
##
     175
               6
                             0.140 0.0528
                                                  0.0664
                                                                 0.293
                       1
##
     200
               5
                             0.116
                                   0.0489
                                                  0.0510
                                                                 0.265
                       1
##
     225
                             0.093 0.0443
               4
                       1
                                                  0.0366
                                                                 0.237
##
     250
               4
                       0
                             0.093 0.0443
                                                  0.0366
                                                                 0.237
##
##
                    subj=016, dayofweek=Thu
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
##
       1
             36
                       0
                                                  1.0000
                                                                  1.000
##
      25
             23
                      13
                             0.639 0.0801
                                                  0.4998
                                                                 0.817
##
      50
             16
                       7
                             0.444 0.0828
                                                  0.3085
                                                                 0.640
##
      75
             15
                       1
                             0.417 0.0822
                                                  0.2831
                                                                 0.613
##
     100
             13
                       2
                             0.361 0.0801
                                                                 0.558
                                                  0.2339
##
     125
               9
                       4
                             0.250
                                   0.0722
                                                  0.1420
                                                                 0.440
##
     150
               5
                       4
                             0.139
                                   0.0576
                                                  0.0616
                                                                 0.313
##
     175
               5
                       0
                             0.139
                                   0.0576
                                                  0.0616
                                                                 0.313
##
     200
               5
                       0
                             0.139
                                   0.0576
                                                  0.0616
                                                                 0.313
##
     225
               5
                       0
                             0.139
                                   0.0576
                                                  0.0616
                                                                 0.313
               5
##
     250
                       0
                             0.139 0.0576
                                                  0.0616
                                                                 0.313
##
##
                    subj=016, dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             48
                       0
                             1.000 0.0000
                                                  1.0000
                                                                  1.000
##
       1
      25
##
             33
                      15
                             0.687 0.0669
                                                  0.5681
                                                                 0.832
                             0.500 0.0722
                                                                 0.663
##
      50
             24
                       9
                                                  0.3768
##
      75
             19
                       5
                             0.396 0.0706
                                                  0.2791
                                                                 0.561
##
     100
             19
                       0
                             0.396 0.0706
                                                  0.2791
                                                                 0.561
```

```
125
                            0.312 0.0669
                                                  0.2054
                                                                 0.475
##
             15
##
     150
             13
                       2
                            0.271 0.0641
                                                  0.1703
                                                                 0.431
                                                                 0.408
##
     175
             12
                            0.250
                                   0.0625
                                                  0.1532
                       1
##
     200
                            0.229 0.0607
                                                  0.1364
                                                                 0.385
             11
                       1
              9
                       2
##
     225
                            0.187 0.0563
                                                  0.1041
                                                                 0.338
##
     250
              7
                       2
                            0.146 0.0509
                                                  0.0735
                                                                 0.289
##
##
                    subj=016, dayofweek=Sat
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.000 0.0000
##
             51
                       0
                                                   1.000
                                                                 1.000
       1
##
      25
             37
                      14
                            0.725 0.0625
                                                   0.613
                                                                 0.859
##
      50
             26
                            0.510 0.0700
                                                   0.390
                                                                 0.667
                      11
##
      75
             23
                       3
                            0.451 0.0697
                                                                 0.610
                                                   0.333
##
                            0.294 0.0638
     100
             15
                       8
                                                   0.192
                                                                 0.450
                            0.196 0.0556
##
     125
             10
                       5
                                                   0.112
                                                                 0.342
##
     150
             10
                       0
                            0.196 0.0556
                                                   0.112
                                                                 0.342
##
     175
             10
                       0
                            0.196 0.0556
                                                   0.112
                                                                 0.342
##
     200
              8
                       2
                            0.157 0.0509
                                                   0.083
                                                                 0.296
                                                                 0.296
##
     225
              8
                       0
                            0.157 0.0509
                                                   0.083
     250
              8
                       0
                            0.157 0.0509
                                                                 0.296
##
                                                   0.083
##
##
                    subj=019, dayofweek=Sun
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                           1.0000 0.0000
##
       1
             70
                       0
                                                 1.00000
                                                                 1.000
                           0.6000 0.0586
                                                 0.49554
##
             42
                                                                 0.726
      25
                      28
##
      50
                       9
                           0.4714 0.0597
                                                 0.36786
                                                                 0.604
                           0.3000 0.0548
##
      75
             21
                      12
                                                 0.20976
                                                                 0.429
##
     100
             12
                       9
                           0.1714 0.0450
                                                 0.10243
                                                                 0.287
##
     125
              8
                       4
                           0.1143 0.0380
                                                                 0.219
                                                 0.05953
##
     150
              5
                       3
                           0.0714 0.0308
                                                 0.03069
                                                                 0.166
##
     175
                           0.0571 0.0277
              4
                       1
                                                 0.02206
                                                                 0.148
##
     200
              2
                       2
                           0.0286 0.0199
                                                 0.00729
                                                                 0.112
##
     225
              1
                           0.0143 0.0142
                                                 0.00204
                                                                 0.100
                       1
##
                    subj=019, dayofweek=Mon
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       1
             83
                       0
                           1.0000 0.0000
                                                 1.00000
                                                                1.0000
##
      25
             53
                      30
                           0.6386 0.0527
                                                 0.54313
                                                                0.7507
             27
                                                                0.4434
##
      50
                      26
                           0.3253
                                   0.0514
                                                 0.23863
##
      75
             15
                      12
                           0.1807
                                                                0.2857
                                   0.0422
                                                 0.11431
##
     100
                      11
                           0.0482 0.0235
                                                 0.01853
                                                                0.1254
##
     125
              1
                       3
                           0.0120 0.0120
                                                 0.00172
                                                                0.0845
##
##
                    subj=019, dayofweek=Tue
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
            123
                                                                1.0000
##
                       0 1.00000 0.0000
                                                 1.00000
       1
##
      25
             69
                      54
                          0.56098 0.0447
                                                 0.47979
                                                                0.6559
##
      50
             40
                      29
                          0.32520
                                   0.0422
                                                 0.25211
                                                                0.4195
                          0.24390
##
      75
             30
                      10
                                   0.0387
                                                 0.17868
                                                                0.3329
##
     100
                          0.10569
                                   0.0277
                                                 0.06321
             13
                      17
                                                                0.1767
##
     125
              5
                       8
                          0.04065
                                   0.0178
                                                 0.01723
                                                                0.0959
##
              2
                          0.01626 0.0114
     150
                       3
                                                 0.00411
                                                                0.0643
                          0.00813 0.0081
##
     175
              1
                       1
                                                 0.00115
                                                                0.0573
##
     200
              1
                       0
                          0.00813 0.0081
                                                 0.00115
                                                                0.0573
```

```
##
##
                   subj=019, dayofweek=Wed
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
            129
                       0 1.00000 0.00000
                                                 1.0000
                                                               1.0000
##
       1
             62
                      67 0.48062 0.04399
##
      25
                                                 0.4017
                                                               0.5751
##
      50
             27
                      35 0.20930 0.03582
                                                 0.1497
                                                               0.2927
##
      75
                      10
                          0.13178 0.02978
                                                 0.0846
                                                               0.2052
##
     100
              9
                       8
                          0.06977 0.02243
                                                 0.0372
                                                               0.1310
##
     125
                       5
                          0.03101 0.01526
                                                 0.0118
                                                               0.0814
##
     150
              1
                          0.00775 0.00772
                                                 0.0011
                                                               0.0546
##
                   subj=019, dayofweek=Thu
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                           1.0000 0.0000
##
      1
             79
                       0
                                                 1.0000
                                                                1.000
##
      25
             37
                      42
                           0.4684 0.0561
                                                 0.3703
                                                                0.592
             22
                                                                0.397
##
      50
                      15
                           0.2785
                                   0.0504
                                                 0.1953
##
      75
             16
                       6
                           0.2025
                                   0.0452
                                                 0.1308
                                                                0.314
              8
                       8
                           0.1013
                                  0.0339
                                                 0.0525
##
     100
                                                                0.195
##
     125
              6
                       2
                           0.0759 0.0298
                                                 0.0352
                                                                0.164
##
     150
              5
                       1
                           0.0633 0.0274
                                                 0.0271
                                                                0.148
##
     175
              5
                       0
                           0.0633 0.0274
                                                 0.0271
                                                                0.148
##
     200
              4
                       1
                           0.0506 0.0247
                                                 0.0195
                                                                0.132
##
     225
              4
                           0.0506 0.0247
                                                                0.132
                       0
                                                 0.0195
##
     250
              4
                       0
                           0.0506 0.0247
                                                 0.0195
                                                                0.132
##
                   subj=019, dayofweek=Fri
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
             82
                       0
                           1.0000 0.0000
                                                 1.0000
                                                               1.0000
      25
             59
##
                      24
                           0.7073 0.0502
                                                 0.6154
                                                               0.8130
##
      50
             30
                      28
                           0.3659
                                  0.0532
                                                 0.2751
                                                               0.4865
      75
                       8
##
             22
                           0.2683 0.0489
                                                 0.1877
                                                               0.3836
##
     100
             17
                       5
                           0.2073 0.0448
                                                 0.1358
                                                               0.3165
##
     125
             10
                       7
                           0.1220
                                   0.0361
                                                 0.0682
                                                               0.2180
##
     150
              3
                       7
                           0.0366 0.0207
                                                 0.0120
                                                               0.1111
              2
                           0.0244 0.0170
##
     175
                       1
                                                 0.0062
                                                               0.0959
                           0.0244 0.0170
##
     200
              2
                                                 0.0062
                                                               0.0959
##
##
                   subj=019, dayofweek=Sat
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             92
                           1.0000 0.0000
                                                1.00000
                                                               1.0000
       1
                       0
             45
##
      25
                      47
                           0.4891 0.0521
                                                0.39694
                                                               0.6027
##
      50
             25
                      20
                           0.2717 0.0464
                                                0.19448
                                                               0.3797
##
      75
             19
                       6
                           0.2065 0.0422
                                                0.13836
                                                               0.3083
##
     100
             11
                       8
                           0.1196 0.0338
                                                0.06867
                                                               0.2082
##
     125
              9
                       2
                           0.0978 0.0310
                                                0.05260
                                                               0.1820
##
     150
              4
                       5
                           0.0435 0.0213
                                                0.01667
                                                               0.1134
##
     175
              3
                       1
                           0.0326 0.0185
                                                0.01071
                                                               0.0992
##
     200
              2
                       1
                           0.0217 0.0152
                                                0.00552
                                                               0.0856
##
     225
              1
                       1
                           0.0109 0.0108
                                                0.00155
                                                               0.0763
##
     250
                       0
                           0.0109 0.0108
                                                0.00155
                                                               0.0763
##
##
                   subj=027, dayofweek=Sun
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.000 0.0000
                                                  1.000
##
       1
             51
                       0
                                                                1.000
```

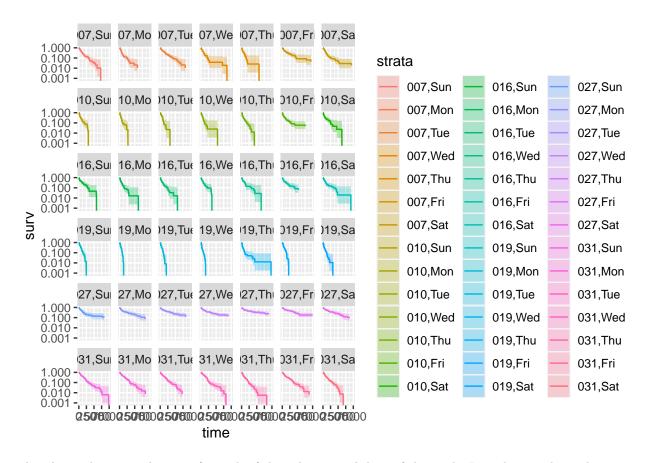
```
25
              38
                             0.745 0.0610
                                                   0.635
                                                                 0.875
##
                      13
##
      50
              31
                       7
                             0.608 0.0684
                                                   0.488
                                                                 0.758
##
      75
              29
                             0.569 0.0694
                                                   0.448
                                                                 0.722
##
     100
              25
                             0.490 0.0700
                                                   0.371
                                                                 0.649
                       4
                       7
##
     125
              18
                             0.353 0.0669
                                                   0.243
                                                                 0.512
##
     150
              15
                       3
                             0.294 0.0638
                                                   0.192
                                                                 0.450
##
     175
              14
                       1
                             0.275
                                   0.0625
                                                   0.176
                                                                 0.429
##
     200
              13
                             0.255
                                   0.0610
                                                   0.159
                                                                 0.408
                       1
##
     225
              12
                       1
                             0.235
                                   0.0594
                                                   0.143
                                                                 0.386
##
     250
              10
                       2
                             0.196 0.0556
                                                                 0.342
                                                   0.112
##
##
                    subj=027, dayofweek=Mon
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
              56
                       0
                                                   1.000
                                                                 1.000
       1
##
      25
              48
                       8
                             0.857 0.0468
                                                   0.770
                                                                 0.954
##
      50
              36
                      12
                             0.643 0.0640
                                                   0.529
                                                                 0.781
##
      75
              29
                       7
                             0.518 0.0668
                                                   0.402
                                                                 0.667
##
             26
                             0.464 0.0666
                                                   0.350
     100
                       3
                                                                 0.615
##
     125
             23
                       3
                             0.411 0.0657
                                                   0.300
                                                                 0.562
                       2
##
     150
             21
                             0.375 0.0647
                                                   0.267
                                                                 0.526
##
     175
              21
                       0
                             0.375 0.0647
                                                   0.267
                                                                 0.526
##
     200
              20
                       1
                             0.357 0.0640
                                                   0.251
                                                                 0.508
##
     225
                                                                 0.508
             20
                       0
                             0.357 0.0640
                                                   0.251
##
     250
              18
                       2
                             0.321 0.0624
                                                   0.220
                                                                 0.470
##
                    subj=027, dayofweek=Tue
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
              67
                       0
                             1.000 0.0000
                                                   1.000
                                                                 1.000
      25
##
              53
                      14
                             0.791 0.0497
                                                   0.699
                                                                 0.895
##
      50
              48
                       5
                             0.716 0.0551
                                                   0.616
                                                                 0.833
      75
##
              42
                       6
                             0.627 0.0591
                                                   0.521
                                                                 0.754
##
     100
              40
                       2
                             0.597 0.0599
                                                   0.490
                                                                 0.727
##
     125
             35
                       5
                             0.522 0.0610
                                                   0.415
                                                                 0.657
##
     150
             32
                       3
                             0.478 0.0610
                                                   0.372
                                                                 0.614
             30
                       2
                             0.448 0.0608
##
     175
                                                   0.343
                                                                 0.584
##
     200
              28
                       2
                             0.418 0.0603
                                                   0.315
                                                                 0.554
##
     225
              27
                       1
                             0.403 0.0599
                                                   0.301
                                                                 0.539
##
     250
              27
                       0
                             0.403 0.0599
                                                   0.301
                                                                 0.539
##
##
                    subj=027, dayofweek=Wed
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
              87
                       0
                             1.000 0.0000
                                                   1.000
                                                                 1.000
##
      25
              71
                      16
                             0.816 0.0415
                                                   0.739
                                                                 0.902
##
      50
              61
                      10
                             0.701 0.0491
                                                   0.611
                                                                 0.804
##
      75
                       7
                             0.621 0.0520
                                                   0.527
                                                                 0.732
##
     100
              46
                       8
                             0.529 0.0535
                                                   0.434
                                                                 0.645
##
     125
              44
                       2
                             0.506 0.0536
                                                                 0.623
                                                   0.411
##
     150
              39
                       5
                             0.448 0.0533
                                                   0.355
                                                                 0.566
##
     175
             36
                       3
                             0.414 0.0528
                                                   0.322
                                                                 0.531
##
     200
              32
                       4
                             0.368 0.0517
                                                                 0.484
                                                   0.279
##
     225
              32
                       0
                             0.368 0.0517
                                                   0.279
                                                                 0.484
##
     250
              32
                       0
                             0.368 0.0517
                                                   0.279
                                                                 0.484
##
##
                    subj=027, dayofweek=Thu
```

```
time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
                       0
                            1,000 0,0000
                                                   1.000
                                                                 1.000
                            0.852 0.0483
##
      25
             46
                       8
                                                   0.762
                                                                 0.952
##
      50
             40
                            0.741 0.0596
                                                   0.633
                                                                 0.867
                       6
      75
##
             33
                       7
                            0.611 0.0663
                                                   0.494
                                                                 0.756
##
     100
             32
                            0.593 0.0669
                                                   0.475
                                                                 0.739
                       1
##
     125
             29
                       3
                            0.537 0.0679
                                                   0.419
                                                                 0.688
##
     150
             29
                       0
                            0.537 0.0679
                                                   0.419
                                                                 0.688
##
     175
             27
                       2
                            0.500 0.0680
                                                   0.383
                                                                 0.653
##
     200
             25
                       2
                            0.463 0.0679
                                                                 0.617
                                                   0.347
##
     225
             24
                       1
                            0.444 0.0676
                                                   0.330
                                                                 0.599
##
     250
             24
                            0.444 0.0676
                                                                 0.599
                       0
                                                   0.330
##
##
                    subj=027, dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             61
                       0
                            1.000 0.0000
                                                   1.000
                                                                 1.000
##
      25
             52
                       9
                            0.852 0.0454
                                                   0.768
                                                                 0.946
      50
             45
                       7
                            0.738 0.0563
                                                   0.635
                                                                 0.857
##
##
      75
             40
                       5
                            0.656 0.0608
                                                   0.547
                                                                 0.786
                            0.590 0.0630
##
     100
             36
                       4
                                                   0.479
                                                                 0.727
                                                                 0.727
##
     125
             36
                       0
                            0.590 0.0630
                                                   0.479
##
     150
             33
                       3
                            0.541 0.0638
                                                   0.429
                                                                 0.682
##
                       2
                            0.508 0.0640
                                                                 0.650
     175
             31
                                                   0.397
##
     200
             30
                       1
                            0.492 0.0640
                                                   0.381
                                                                 0.635
##
     225
                            0.492 0.0640
             30
                       0
                                                   0.381
                                                                 0.635
##
     250
             30
                       0
                            0.492 0.0640
                                                   0.381
                                                                 0.635
##
##
                    subj=027, dayofweek=Sat
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             58
                       0
                            1.000 0.0000
                                                   1.000
                                                                 1,000
       1
                            0.793 0.0532
      25
                      12
                                                                 0.905
##
             46
                                                   0.695
##
      50
             42
                       4
                            0.724 0.0587
                                                   0.618
                                                                 0.849
##
      75
             37
                       5
                            0.638 0.0631
                                                   0.525
                                                                 0.774
##
     100
             35
                       2
                            0.603 0.0642
                                                   0.490
                                                                 0.743
                            0.534 0.0655
##
     125
             31
                       4
                                                   0.420
                                                                 0.680
##
     150
             30
                       1
                            0.517 0.0656
                                                   0.403
                                                                 0.663
##
     175
             27
                       3
                            0.466 0.0655
                                                   0.353
                                                                 0.613
##
     200
             25
                       2
                            0.431 0.0650
                                                   0.321
                                                                 0.579
                       2
##
     225
             23
                            0.397 0.0642
                                                   0.289
                                                                 0.545
##
     250
             21
                       2
                            0.362 0.0631
                                                   0.257
                                                                 0.510
##
##
                    subj=031, dayofweek=Sun
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
            158
                       0
                            1.000 0.0000
                                                  1.0000
                                                                 1.000
       1
      25
##
            133
                      25
                            0.842 0.0290
                                                  0.7867
                                                                 0.901
            108
##
      50
                      25
                            0.684 0.0370
                                                                 0.760
                                                  0.6147
##
      75
             81
                      27
                            0.513 0.0398
                                                                 0.597
                                                  0.4404
##
     100
             72
                       9
                            0.456 0.0396
                                                  0.3843
                                                                 0.540
##
     125
             64
                       8
                            0.405 0.0391
                                                  0.3353
                                                                 0.489
##
     150
             59
                       5
                            0.373 0.0385
                                                                 0.457
                                                  0.3051
##
     175
             45
                      14
                            0.285 0.0359
                                                  0.2225
                                                                 0.365
##
     200
             42
                       3
                            0.266 0.0351
                                                  0.2051
                                                                 0.344
##
     225
             32
                      10
                            0.203 0.0320
                                                  0.1486
                                                                 0.276
##
     250
             23
                       9
                            0.146 0.0281
                                                  0.0998
                                                                 0.212
```

```
##
##
                    subj=031, dayofweek=Mon
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
                       0
                             1.000 0.0000
                                                   1.000
                                                                 1.000
       1
            133
##
      25
            113
                      20
                             0.850 0.0310
                                                   0.791
                                                                 0.913
##
      50
             94
                      19
                             0.707 0.0395
                                                   0.633
                                                                 0.789
##
      75
             74
                      20
                             0.556 0.0431
                                                   0.478
                                                                 0.648
##
     100
                      13
                             0.459 0.0432
                                                   0.381
                                                                 0.552
             61
##
     125
             55
                       6
                             0.414 0.0427
                                                   0.338
                                                                 0.506
##
     150
             52
                       3
                             0.391 0.0423
                                                                 0.483
                                                   0.316
##
     175
             45
                       7
                             0.338 0.0410
                                                   0.267
                                                                 0.429
##
     200
             37
                             0.278 0.0389
                                                                 0.366
                       8
                                                   0.212
##
     225
                       7
                             0.226 0.0362
             31
                                                   0.165
                                                                 0.309
##
                       2
     250
             28
                             0.211 0.0354
                                                   0.151
                                                                 0.293
##
##
                    subj=031, dayofweek=Tue
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
            135
                             1.000 0.0000
                                                  1.0000
                                                                 1.000
##
       1
                       0
##
      25
            111
                      24
                             0.822 0.0329
                                                  0.7602
                                                                 0.889
                                                  0.6073
                                                                 0.765
##
      50
             92
                      19
                             0.681 0.0401
##
      75
             77
                      15
                             0.570 0.0426
                                                  0.4927
                                                                 0.660
##
     100
                      13
                             0.474 0.0430
                                                  0.3969
                                                                 0.566
##
                             0.393 0.0420
                                                                 0.484
     125
             53
                      11
                                                  0.3183
##
     150
             47
                       6
                             0.348 0.0410
                                                  0.2764
                                                                 0.439
##
     175
             39
                       8
                             0.289 0.0390
                                                  0.2217
                                                                 0.376
##
     200
             34
                       5
                             0.252 0.0374
                                                  0.1883
                                                                 0.337
##
     225
             28
                       6
                             0.207 0.0349
                                                  0.1491
                                                                 0.288
##
     250
             20
                       8
                             0.148 0.0306
                                                  0.0989
                                                                 0.222
##
##
                    subj=031, dayofweek=Wed
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
            130
                       0
                             1.000 0.0000
                                                   1.000
                                                                 1.000
##
      25
            112
                      18
                             0.862 0.0303
                                                   0.804
                                                                 0.923
##
      50
             95
                      17
                             0.731 0.0389
                                                   0.658
                                                                 0.811
      75
             79
                             0.608 0.0428
##
                      16
                                                   0.529
                                                                 0.698
##
     100
             69
                      10
                             0.531 0.0438
                                                   0.452
                                                                 0.624
##
     125
             59
                      10
                             0.454 0.0437
                                                   0.376
                                                                 0.548
##
     150
             49
                      10
                             0.377 0.0425
                                                   0.302
                                                                 0.470
##
     175
             42
                       8
                             0.315 0.0408
                                                   0.245
                                                                 0.406
##
     200
             36
                       5
                                                                 0.366
                             0.277 0.0392
                                                   0.210
##
     225
             23
                      13
                             0.177 0.0335
                                                   0.122
                                                                 0.256
##
     250
             17
                       6
                             0.131 0.0296
                                                   0.084
                                                                 0.204
##
##
                    subj=031, dayofweek=Thu
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
            175
                       2
                            0.9887 0.00794
                                                  0.9733
                                                                 1.000
##
       1
##
      25
            138
                      38
                            0.7740 0.03144
                                                  0.7148
                                                                 0.838
##
      50
             91
                      46
                            0.5141 0.03757
                                                  0.4455
                                                                 0.593
##
      75
             74
                      17
                            0.4181 0.03707
                                                  0.3514
                                                                 0.497
##
                                                  0.2706
     100
             59
                      15
                            0.3333 0.03543
                                                                 0.411
##
     125
             48
                      11
                            0.2712 0.03342
                                                  0.2130
                                                                 0.345
##
     150
             42
                       6
                            0.2373 0.03198
                                                                 0.309
                                                  0.1822
##
     175
             35
                       7
                            0.1977 0.02994
                                                  0.1470
                                                                 0.266
##
     200
             27
                       8
                            0.1525 0.02703
                                                  0.1078
                                                                 0.216
```

```
225
             20
                           0.1130 0.02380
                                                 0.0748
                                                                0.171
##
                       7
     250
                           0.0791 0.02029
                                                 0.0478
##
                                                                0.131
##
##
                    subj=031, dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
            154
                      0
                            1.000 0.0000
                                                  1.000
                                                                1.000
##
      25
            127
                      27
                            0.825 0.0306
                                                  0.767
                                                                0.887
            105
                                                               0.759
##
      50
                      22
                            0.682 0.0375
                                                  0.612
##
      75
             88
                      17
                            0.571 0.0399
                                                  0.498
                                                                0.655
##
     100
             68
                      20
                            0.442 0.0400
                                                  0.370
                                                                0.527
##
     125
             57
                      11
                            0.370 0.0389
                                                  0.301
                                                                0.455
##
     150
                            0.331 0.0379
                                                                0.415
             51
                      6
                                                  0.265
##
     175
                       2
                            0.318 0.0375
             49
                                                  0.253
                                                                0.401
##
                       2
     200
             47
                            0.305 0.0371
                                                  0.240
                                                                0.387
##
     225
             41
                       6
                            0.266 0.0356
                                                  0.205
                                                                0.346
##
     250
             35
                       6
                            0.227 0.0338
                                                  0.170
                                                                0.304
##
##
                    subj=031, dayofweek=Sat
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.000 0.0000
                                                 1.0000
##
       1
            134
                      0
                                                                1.000
##
      25
            115
                      19
                            0.858 0.0301
                                                 0.8011
                                                                0.919
##
      50
             89
                      26
                            0.664 0.0408
                                                 0.5888
                                                                0.749
##
      75
                            0.507 0.0432
                                                 0.4295
                                                                0.600
             68
                      21
##
     100
             52
                      16
                            0.388 0.0421
                                                 0.3137
                                                                0.480
##
     125
             43
                      9
                            0.321 0.0403
                                                 0.2508
                                                               0.411
##
     150
             38
                      5
                            0.284 0.0389
                                                 0.2167
                                                                0.371
##
     175
             31
                      7
                            0.231 0.0364
                                                 0.1699
                                                                0.315
##
     200
             23
                      8
                            0.172 0.0326
                                                 0.1183
                                                                0.249
##
     225
             22
                            0.164 0.0320
                       1
                                                 0.1120
                                                                0.241
##
                            0.142 0.0301
                                                 0.0935
                                                                0.215
     250
             19
autoplot(dayfit) +
  xlim(c(0,1000)) +
  facet wrap(~strata) +
  scale_y_log10()
```

- ## Scale for y is already present.
- ## Adding another scale for y, which will replace the existing scale.
- ## Warning: Transformation introduced infinite values in continuous y-axis
- ## Transformation introduced infinite values in continuous y-axis
- ## Warning: Removed 74 rows containing missing values ('geom_step()').



This shows the survival curves for each of the subjects and days of the week. It is obvious that subject 027 has a significantly different survival curve from the other subjects. Additionally, we can see that Friday does seem to have a higher survival percentage when compared to the other days. The only subject where this does not apply is 019 and 027, where Friday seems to be similar to the rest of the week.

Is the way this tracks up related to the day of week people get the device?

I am filtering the data down to only see entries for Friday.

'Figure 12'

'Figure 13'

##

```
subjwk <- SDdate %>%
filter(dayofweek == "Fri")
```

Then I am plotting it to see if there are any subjects that appear to be significantly different than the other.

```
subj_fit <- survfit(Surv(dur_s,status) ~ subj , data = subjwk)
summary(date_fit, times = c(1,25*(1:10)))

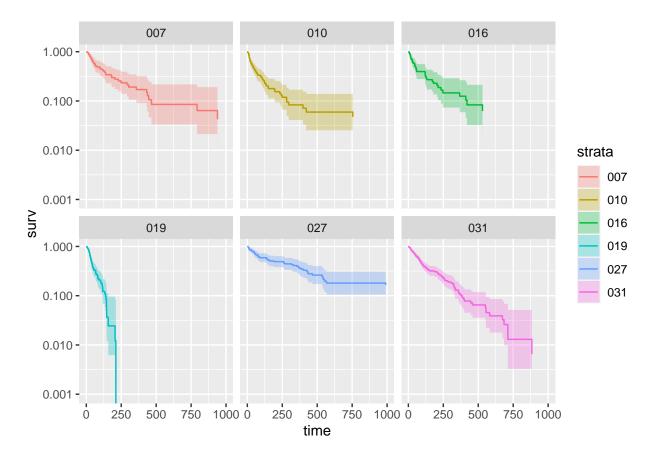
## Call: survfit(formula = Surv(dur_s, status) ~ dayofweek, data = SDdate)
##
## dayofweek=Sun</pre>
```

time n.risk n.event survival std.err lower 95% CI upper 95% CI

##	1	472	0	1.000	0.0000		1.0000		1.000
##	25	355	117	0.752	0.0199		0.7142		0.792
##	50	268	88	0.566	0.0228		0.5227		0.612
##	75	210	57	0.445	0.0229		0.4023		0.492
##	100	172	38	0.364	0.0222		0.3235		0.411
##	125	139	33	0.294	0.0210		0.2561		0.339
##	150	119	20	0.252	0.0200		0.2158		0.294
##	175	97	22	0.206	0.0186		0.1721		0.245
##	200	85	12	0.180	0.0177		0.1486		0.218
##	225	71	14	0.150	0.0165		0.1214		0.186
##	250	59	12	0.125	0.0152		0.0985		0.159
##									
##			•	fweek=Mon					
##				survival		lower		upper	
##	1	477	0	1.000	0.0000		1.0000		1.000
##	25	359	119	0.751	0.0198		0.7127		0.790
##	50	254	105	0.530	0.0229		0.4874		0.577
##	75	174	79	0.365	0.0220		0.3240		0.411
##	100	129	45	0.270	0.0203		0.2334		0.313
##	125	110	19	0.231	0.0193		0.1957		0.272
##	150	98	12	0.205	0.0185		0.1722		0.245
##	175	87	11	0.182	0.0177		0.1508		0.221
##	200	77	10	0.161	0.0168		0.1316		0.198
##	225	71	7	0.147	0.0162		0.1182		0.182
##	250	60	10	0.126	0.0152		0.0993		0.159
##									
##				fweek=Tue		-	05% 97		05% 97
##				survival		lower		upper	
##	1	528	0	1.000	0.0000		1.000		1.000
##	25 50	379	149 88	0.718	0.0196		0.680		0.757
##		291		0.551	0.0216		0.510		0.595
##	75	240	51 55	0.455	0.0217		0.414 0.312		0.499
##	100	185	35	0.350	0.0208		0.312		0.394
## ##	125 150	150 128	22	0.284 0.242	0.0196 0.0187		0.248		0.325 0.282
##	175	112	16	0.242	0.0187		0.208		0.252
##	200	95	17	0.212	0.0178		0.150		0.230
##	225	86	9	0.163	0.0161		0.134		0.210
##	250	74	12	0.100	0.0151		0.134		0.173
##	200	1-1	12	0.140	0.0101		0.110		0.170
##			davot	fweek=Wed					
##	time	n.risk	_	survival	std.err	lower	95% CI	upper	95% CI
##	1	482	0	1.000	0.0000		1.0000	11	1.000
##	25	340	142	0.705	0.0208		0.6658		0.747
##	50	250	90	0.519			0.4759		0.565
##	75	197	53	0.409	0.0224		0.3671		0.455
##	100	157	40	0.326	0.0213		0.2865		0.370
##	125	130	27	0.270	0.0202		0.2329		0.312
##	150	108	22	0.224	0.0190		0.1898		0.265
##	175	96	13	0.197			0.1646		0.236
##	200	84	11	0.174	0.0173		0.1435		0.212
##	225	65	19	0.135	0.0156		0.1076		0.169
##	250	57	8	0.118	0.0147		0.0927		0.151
##									

```
##
                    dayofweek=Thu
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
            462
                       2
                            0.996 0.00304
                                                 0.9897
                                                                1.000
            310
                            0.666 0.02190
                                                 0.6244
                                                                0.710
##
      25
                     153
##
      50
            216
                      93
                            0.466 0.02316
                                                 0.4223
                                                                0.513
##
      75
            173
                      43
                            0.373 0.02245
                                                 0.3313
                                                                0.420
##
     100
            138
                      35
                            0.297 0.02122
                                                 0.2586
                                                                0.342
                            0.239 0.01980
                                                 0.2034
                                                                0.281
##
     125
            111
                      27
                            0.205 0.01873
##
     150
             95
                      16
                                                 0.1711
                                                                0.245
##
             82
     175
                      13
                            0.177 0.01771
                                                 0.1452
                                                                0.215
                            0.149 0.01652
##
     200
             69
                      13
                                                 0.1196
                                                                0.185
##
     225
             59
                      10
                            0.127 0.01547
                                                 0.1002
                                                                0.161
                            0.112 0.01464
##
     250
             52
                       7
                                                 0.0867
                                                                0.145
##
##
                    dayofweek=Fri
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            0.998 0.0021
                                                  0.994
                                                                1.000
            476
                       1
       1
            359
                            0.752 0.0198
##
      25
                     117
                                                  0.714
                                                                0.792
##
      50
            271
                      87
                            0.569 0.0227
                                                  0.527
                                                                0.616
                            0.464 0.0229
            221
##
      75
                      50
                                                  0.422
                                                                0.511
##
     100
            187
                      34
                            0.393 0.0224
                                                  0.351
                                                                0.439
##
     125
            157
                      30
                            0.330 0.0215
                                                  0.290
                                                                0.375
##
     150
            132
                      25
                            0.277 0.0205
                                                  0.240
                                                                0.321
##
     175
            125
                       7
                            0.263 0.0202
                                                  0.226
                                                                0.305
##
            117
     200
                       8
                            0.246 0.0197
                                                  0.210
                                                                0.288
##
     225
            106
                      11
                            0.223 0.0191
                                                  0.188
                                                                0.263
##
     250
             93
                      13
                            0.195 0.0182
                                                  0.163
                                                                0.234
##
##
                    dayofweek=Sat
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
            483
                       0
                            1.000 0.0000
                                                  1.000
                                                                1.000
##
      25
            356
                     127
                            0.737 0.0200
                                                  0.699
                                                                0.777
            268
                            0.555 0.0226
##
      50
                      88
                                                  0.512
                                                                0.601
##
      75
            207
                            0.429 0.0225
                                                  0.387
                                                                0.475
                      61
##
     100
            162
                      45
                            0.335 0.0215
                                                  0.296
                                                                0.380
##
     125
            130
                      32
                            0.269 0.0202
                                                  0.232
                                                                0.312
##
     150
            112
                      18
                            0.232 0.0192
                                                  0.197
                                                                0.273
##
     175
            95
                      17
                            0.197 0.0181
                                                  0.164
                                                                0.236
##
     200
             79
                      16
                            0.164 0.0168
                                                  0.134
                                                                0.200
##
     225
             74
                       5
                            0.153 0.0164
                                                  0.124
                                                                0.189
##
     250
                            0.137 0.0156
                                                  0.109
                                                                0.171
autoplot(subj_fit) +
 xlim(c(0,1000)) +
  facet_wrap(~strata) +
 scale_y_log10()
## Scale for y is already present.
## Adding another scale for y, which will replace the existing scale.
## Warning: Transformation introduced infinite values in continuous y-axis
## Transformation introduced infinite values in continuous y-axis
```

Warning: Removed 20 rows containing missing values ('geom_step()').



When looking that the plot, 019 and 031 have curves that look different than the other subjects. So now I want to see what days each of the subjects got the device, then make a plot based off that information. I plan to compare the day '0' of each subject to see if walking time is any different when the subjects first get the device vs later in the study.

First I need to make a new variable that tells what day the subject received the tracking device. This new variable is called 'first time' for when the first steps of each subject were taken.

For each subj and trial, I want to find the earliest time. This is how I can determine when the subject received the tracking device.

'Figure 14'

```
SDdate %>%
summarise(.by=c(subj,trial),firsttime=min(time))
```

```
##
   # A tibble: 12 x 3
      subj
##
            trial firsttime
##
      <chr> <dbl> <dttm>
##
    1 007
                60 2021-06-18 10:07:46
##
    2 007
                90 2021-07-21 09:33:47
##
    3 010
               60 2021-06-24 11:12:02
##
    4 010
               90 2021-07-30 09:27:01
    5 016
                60 2021-07-29 11:29:53
##
    6 016
               90 2021-08-27 15:48:10
    7 019
               60 2021-08-05 12:29:24
##
    8 019
               90 2021-09-10 10:02:47
```

```
## 9 027 60 2021-09-28 14:27:13
## 10 027 90 2021-11-02 15:12:26
## 11 031 60 2021-10-19 16:59:51
## 12 031 90 2021-11-30 15:59:56
```

From this 'firsttime' variable I need to calculate how far from each subject's 'firsttime' each time was collected. I am doing this by taking the time of recorded activity and subtracting it from the 'firsttime' the subject got the device. Then dividing this number by 86,400 (number of seconds in a day). From here, I am able to round this number to find what day after receiving the device each recorded walking session was.

'result' dataframe shows the 'dayofwear' as how many days after receiving the device each duration was observed.

'Figure 15'

```
result <- SDdate %>%
mutate(.by=c(subj,trial), firsttime = min(time)) %>%
mutate( dayofwear = (round((time-firsttime)/86400)))
```

'wearfit' is a survival fit of the survival function. It takes the survival function and 'subj' and 'dayofwear' to regress against. The day of wear is filerted to be less than 7 because some subjects had the device for longer than 7 days. I want to see how the time looks for just a week so that each of the subjects have the device for the same amount of time.

'Figure 16'

```
Call: survfit(formula = Surv(dur_s, status) ~ subj + dayofwear, data = result %>%
##
       filter(dayofwear < 7))
##
##
                    subj=007, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       0
##
       1
             44
                             1.000 0.0000
                                                  1.0000
                                                                 1.000
##
      25
             30
                      14
                             0.682 0.0702
                                                  0.5572
                                                                 0.834
##
      50
             25
                       5
                             0.568 0.0747
                                                  0.4392
                                                                 0.735
##
      75
                       8
                             0.386 0.0734
                                                  0.2662
             17
                                                                 0.561
##
     100
              15
                       2
                             0.341
                                   0.0715
                                                  0.2261
                                                                 0.514
##
     125
                       4
                             0.250 0.0653
              11
                                                  0.1499
                                                                 0.417
##
     150
              11
                       0
                             0.250
                                   0.0653
                                                  0.1499
                                                                 0.417
##
     175
              11
                       0
                             0.250
                                    0.0653
                                                  0.1499
                                                                 0.417
##
     200
              11
                       0
                             0.250
                                    0.0653
                                                  0.1499
                                                                 0.417
##
     225
               9
                       2
                             0.205
                                   0.0608
                                                  0.1142
                                                                 0.366
##
     250
               8
                       1
                             0.182 0.0581
                                                  0.0971
                                                                 0.340
##
##
                    subj=007, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             84
                       0
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
##
      25
             64
                      20
                            0.7619
                                   0.0465
                                                  0.6761
                                                                 0.859
##
      50
             51
                      13
                            0.6071 0.0533
                                                  0.5112
                                                                 0.721
##
      75
             38
                      13
                            0.4524 0.0543
                                                  0.3575
                                                                 0.572
```

```
100
             31
                           0.3690 0.0527
                                                 0.2790
                                                               0.488
##
##
     125
             20
                           0.2381 0.0465
                                                 0.1624
                                                               0.349
                     11
##
     150
             16
                           0.1905 0.0428
                                                 0.1226
                                                               0.296
                      4
##
     175
             10
                           0.1190 0.0353
                                                 0.0665
                                                               0.213
                      6
##
     200
             9
                       1
                           0.1071 0.0337
                                                 0.0578
                                                               0.199
##
     225
              8
                       1
                           0.0952 0.0320
                                                 0.0493
                                                               0.184
##
     250
                           0.0833 0.0302
                                                 0.0410
                                                               0.169
##
##
                   subj=007, dayofwear=2
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
             71
                      0
                            1.000 0.0000
                                                 1.000
                                                               1.000
##
      25
             54
                     17
                            0.761 0.0506
                                                  0.668
                                                               0.867
      50
                            0.563 0.0589
                                                  0.459
                                                               0.691
##
             41
                     14
##
      75
             33
                      7
                            0.465 0.0592
                                                  0.362
                                                               0.597
##
     100
             25
                       8
                            0.352 0.0567
                                                  0.257
                                                               0.483
##
     125
             22
                      3
                            0.310 0.0549
                                                  0.219
                                                               0.438
##
     150
             18
                      4
                            0.254 0.0516
                                                  0.170
                                                               0.378
##
             17
                            0.239 0.0506
                                                               0.362
     175
                      1
                                                  0.158
##
     200
             13
                       4
                            0.183 0.0459
                                                  0.112
                                                               0.299
##
     225
                            0.183 0.0459
             13
                       0
                                                  0.112
                                                               0.299
##
     250
             13
                       0
                            0.183 0.0459
                                                  0.112
                                                               0.299
##
                   subj=007, dayofwear=3
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             94
                            1.000 0.0000
                                                 1.0000
##
                      0
                                                               1.000
      1
##
      25
             82
                     13
                            0.862 0.0356
                                                 0.7947
                                                               0.934
                            0.670 0.0485
##
      50
             63
                     18
                                                 0.5816
                                                               0.772
##
      75
             48
                     15
                            0.511 0.0516
                                                 0.4190
                                                               0.622
##
     100
             39
                      9
                            0.415 0.0508
                                                 0.3263
                                                               0.527
##
     125
             28
                     11
                            0.298 0.0472
                                                               0.406
                                                 0.2184
##
                      8
                            0.213 0.0422
     150
             20
                                                 0.1442
                                                               0.314
##
     175
             17
                      3
                            0.181 0.0397
                                                 0.1176
                                                               0.278
##
     200
             15
                       2
                            0.160 0.0378
                                                 0.1003
                                                               0.254
##
     225
             15
                      0
                            0.160 0.0378
                                                 0.1003
                                                               0.254
##
     250
                            0.117 0.0332
             11
                       4
                                                 0.0672
                                                               0.204
##
##
                   subj=007, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             83
                            1.000 0.0000
##
      1
                      0
                                                  1.000
                                                               1.000
##
             71
                     12
                            0.855 0.0386
                                                  0.783
                                                               0.935
      25
##
      50
             47
                      24
                            0.566 0.0544
                                                  0.469
                                                               0.684
##
      75
             37
                     10
                            0.446 0.0546
                                                  0.351
                                                               0.567
##
     100
             35
                       2
                            0.422 0.0542
                                                  0.328
                                                               0.543
##
     125
             30
                      5
                            0.361 0.0527
                                                  0.272
                                                               0.481
##
     150
             25
                      5
                            0.301 0.0504
                                                  0.217
                                                               0.418
##
     175
             22
                      3
                            0.265 0.0484
                                                               0.379
                                                  0.185
##
     200
             17
                       5
                            0.205 0.0443
                                                               0.313
                                                  0.134
##
     225
             16
                       1
                            0.193 0.0433
                                                  0.124
                                                               0.299
                            0.181 0.0422
##
     250
             15
                       1
                                                  0.114
                                                               0.286
##
##
                   subj=007, dayofwear=5
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
             82
                      0
                           1.0000 0.0000
                                                 1.0000
                                                               1.000
##
      25
             65
                     17
                           0.7927 0.0448
                                                 0.7096
                                                               0.885
```

```
50
                           0.5122 0.0552
                                                                 0.633
##
             42
                      23
                                                  0.4147
##
      75
             25
                      17
                           0.3049 0.0508
                                                 0.2199
                                                                 0.423
                           0.2439 0.0474
                                                                 0.357
##
     100
             20
                       5
                                                  0.1666
##
     125
                           0.1951 0.0438
                                                 0.1257
                                                                 0.303
             16
                       4
##
     150
             14
                       2
                           0.1707 0.0416
                                                 0.1060
                                                                 0.275
##
     175
             14
                       0
                           0.1707 0.0416
                                                 0.1060
                                                                 0.275
##
     200
             12
                       2
                           0.1463 0.0390
                                                  0.0868
                                                                 0.247
##
     225
              9
                       3
                           0.1098 0.0345
                                                                 0.203
                                                 0.0593
##
     250
              8
                       1
                           0.0976 0.0328
                                                  0.0505
                                                                 0.188
##
##
                    subj=007, dayofwear=6
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.000 0.0000
                                                  1.0000
                                                                 1.000
##
       1
             69
                       0
##
      25
             51
                      18
                            0.739 0.0529
                                                  0.6425
                                                                 0.850
##
      50
             41
                      10
                            0.594 0.0591
                                                  0.4889
                                                                 0.722
##
      75
             30
                      11
                            0.435
                                   0.0597
                                                  0.3322
                                                                 0.569
##
     100
             24
                       6
                            0.348 0.0573
                                                 0.2518
                                                                 0.480
                            0.290 0.0546
##
     125
             20
                       4
                                                  0.2003
                                                                 0.419
##
     150
             17
                       3
                            0.246 0.0519
                                                 0.1631
                                                                 0.372
##
     175
             14
                       3
                            0.203 0.0484
                                                 0.1271
                                                                 0.324
##
     200
             11
                       3
                            0.159 0.0441
                                                 0.0927
                                                                 0.274
##
     225
             11
                       0
                            0.159 0.0441
                                                  0.0927
                                                                 0.274
##
              8
                            0.116 0.0385
                                                                 0.222
     250
                       3
                                                  0.0604
##
##
                    subj=010, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                            1.000 0.0000
##
       1
             40
                       0
                                                  1.0000
                                                                 1.000
##
      25
             30
                      10
                            0.750 0.0685
                                                  0.6271
                                                                 0.897
##
                            0.600 0.0775
      50
             24
                       6
                                                 0.4659
                                                                 0.773
##
      75
                            0.475 0.0790
                                                  0.3429
             19
                       5
                                                                 0.658
##
     100
             14
                       5
                            0.350 0.0754
                                                 0.2294
                                                                 0.534
##
     125
             10
                       4
                            0.250 0.0685
                                                 0.1462
                                                                 0.428
##
                       2
                            0.200 0.0632
                                                  0.1076
     150
              8
                                                                 0.372
##
     175
              6
                       2
                            0.150 0.0565
                                                  0.0717
                                                                 0.314
                            0.150 0.0565
##
     200
              6
                       0
                                                  0.0717
                                                                 0.314
##
     225
              4
                       2
                            0.100 0.0474
                                                  0.0395
                                                                 0.253
##
     250
              2
                       2
                            0.050 0.0345
                                                  0.0130
                                                                 0.193
##
##
                    subj=010, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                       0
                            1.000 0.0000
                                                  1.0000
                                                                 1.000
                                                 0.5295
##
      25
             39
                      22
                            0.639 0.0615
                                                                 0.772
##
      50
                       9
                            0.492 0.0640
                                                 0.3811
                                                                 0.635
             30
##
      75
                            0.311 0.0593
                                                                 0.452
             19
                      11
                                                 0.2145
##
     100
             17
                       2
                            0.279 0.0574
                                                 0.1861
                                                                 0.417
##
     125
                            0.230 0.0538
                                                                 0.363
             14
                       3
                                                 0.1449
##
             12
                       2
                            0.197 0.0509
                                                                 0.327
     150
                                                 0.1185
##
     175
             11
                       1
                            0.180 0.0492
                                                 0.1056
                                                                 0.308
##
     200
             10
                       1
                            0.164 0.0474
                                                  0.0930
                                                                 0.289
##
     225
             10
                            0.164 0.0474
                                                                 0.289
                       0
                                                  0.0930
##
     250
              7
                       3
                            0.115 0.0408
                                                  0.0572
                                                                 0.230
##
##
                    subj=010, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
```

```
40
                             1.000 0.0000
                                                  1.0000
                                                                 1.000
##
       1
                       0
                                                                 0.728
##
      25
             22
                      18
                             0.550 0.0787
                                                  0.4156
##
      50
             10
                             0.250 0.0685
                                                  0.1462
                                                                 0.428
                      12
##
      75
               5
                       5
                             0.125 0.0523
                                                  0.0551
                                                                 0.284
##
     100
               5
                       0
                             0.125 0.0523
                                                  0.0551
                                                                 0.284
##
     125
               5
                       0
                             0.125 0.0523
                                                  0.0551
                                                                 0.284
##
     150
               4
                       1
                             0.100 0.0474
                                                  0.0395
                                                                 0.253
##
     175
               4
                       0
                             0.100 0.0474
                                                  0.0395
                                                                 0.253
##
     200
               3
                       1
                             0.075
                                   0.0416
                                                  0.0253
                                                                 0.223
##
     225
               3
                       0
                             0.075 0.0416
                                                  0.0253
                                                                 0.223
##
     250
               3
                       0
                             0.075 0.0416
                                                  0.0253
                                                                 0.223
##
##
                    subj=010, dayofwear=3
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             58
                       0
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
       1
      25
##
             30
                      28
                            0.5172 0.0656
                                                  0.4034
                                                                 0.663
##
      50
             23
                       8
                            0.3793 0.0637
                                                  0.2729
                                                                 0.527
##
      75
             17
                       5
                            0.2931 0.0598
                                                  0.1965
                                                                 0.437
##
     100
             11
                       6
                            0.1897 0.0515
                                                  0.1114
                                                                 0.323
     125
               9
                            0.1552 0.0475
                                                                 0.283
##
                       2
                                                  0.0851
##
     150
               7
                       2
                            0.1207 0.0428
                                                  0.0603
                                                                 0.242
##
     175
               6
                       1
                            0.1034 0.0400
                                                  0.0485
                                                                 0.221
##
     200
               4
                       2
                            0.0690 0.0333
                                                  0.0268
                                                                 0.178
##
     225
               4
                       0
                            0.0690 0.0333
                                                  0.0268
                                                                 0.178
##
     250
                                                                 0.156
               3
                       1
                            0.0517 0.0291
                                                  0.0172
##
##
                    subj=010, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             43
                       0
                            1.0000 0.0000
                                                 1.00000
                                                                 1.000
       1
##
      25
             31
                      12
                            0.7209 0.0684
                                                 0.59859
                                                                 0.868
##
                      12
                            0.4419 0.0757
                                                                 0.618
      50
             19
                                                 0.31579
                            0.3023 0.0700
##
      75
             13
                       6
                                                 0.19199
                                                                 0.476
##
     100
               6
                       7
                            0.1395
                                   0.0528
                                                 0.06643
                                                                 0.293
##
     125
               3
                            0.0698 0.0388
                                                 0.02342
                                                                 0.208
                       3
##
     150
               2
                            0.0465
                                   0.0321
                                                 0.01202
                       1
                                                                 0.180
##
     175
               2
                       0
                            0.0465 0.0321
                                                 0.01202
                                                                 0.180
##
     200
               1
                       1
                            0.0233 0.0230
                                                 0.00335
                                                                 0.161
##
     225
               1
                       0
                            0.0233 0.0230
                                                 0.00335
                                                                 0.161
##
     250
                            0.0233 0.0230
                       0
                                                 0.00335
                                                                 0.161
##
##
                    subj=010, dayofwear=5
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             33
                       0
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
##
      25
             25
                       8
                            0.7576 0.0746
                                                  0.6246
                                                                 0.919
##
      50
             18
                       7
                            0.5455
                                   0.0867
                                                  0.3995
                                                                 0.745
##
      75
             13
                       5
                            0.3939
                                   0.0851
                                                  0.2580
                                                                 0.601
##
     100
               6
                       7
                            0.1818 0.0671
                                                  0.0882
                                                                 0.375
##
     125
               4
                       2
                            0.1212 0.0568
                                                  0.0484
                                                                 0.304
##
                            0.0909 0.0500
                                                  0.0309
                                                                 0.267
     150
               3
                       1
##
     175
               3
                       0
                            0.0909 0.0500
                                                  0.0309
                                                                 0.267
               2
                            0.0606 0.0415
##
     200
                       1
                                                  0.0158
                                                                 0.232
##
     225
               2
                       0
                            0.0606 0.0415
                                                  0.0158
                                                                 0.232
##
                                                  0.0044
     250
               1
                       1
                            0.0303 0.0298
                                                                 0.209
##
```

##			guhi:	=010, dayo	ofwear=6			
##	time	n.risk	-	•		lower 95% CI	upper	95% CI
##	1	55	0	1.0000	0.0000	1.00000	FF	1.000
##	25	30	25	0.5455	0.0671	0.42853		0.694
##	50	17	13	0.3091	0.0623	0.20820		0.459
##	75	11	6	0.2000	0.0539	0.11789		0.339
##	100	7	4	0.1273	0.0449	0.06371		0.254
##	125	6	1	0.1091	0.0420	0.05126		0.232
##	150	4	2	0.0727	0.0350	0.02831		0.187
##	175	4	0	0.0727	0.0350	0.02831		0.187
##	200	3	1	0.0545	0.0306	0.01815		0.164
##	225	2	1	0.0364	0.0252	0.00933		0.142
##	250	2	0	0.0364	0.0252	0.00933		0.142
##								
##			•	=016, day				
##						lower 95% CI	upper	
##	1	21	0	1.000	0.0000	1.0000		1.000
##	25	9	12	0.429	0.1080	0.2615		0.702
##	50	7	2	0.333	0.1029	0.1821		0.610
##	75	6	1	0.286	0.0986	0.1453		0.562
##	100	6	0	0.286	0.0986	0.1453		0.562
##	125	6	0	0.286	0.0986	0.1453		0.562
##	150	4	2	0.190	0.0857	0.0789		0.460
##	175	4	0	0.190	0.0857	0.0789		0.460
##	200	4	0	0.190	0.0857	0.0789		0.460
##	225	3	1	0.143	0.0764	0.0501		0.407
## ##	250	3	U	0.143	0.0764	0.0501		0.407
##			subi=	=016, dayo	ofwear=1			
##	time	n.risk	-	•		lower 95% CI	upper	95% CI
##	1	49	0	1.0000	0.0000	1.0000	11	1.000
##	25	38	11	0.7755	0.0596	0.6671		0.902
##	50	26	12	0.5306	0.0713	0.4078		0.690
##	75	20	6	0.4082	0.0702	0.2913		0.572
##	100	16	4	0.3265	0.0670	0.2184		0.488
##	125	10	6	0.2041	0.0576	0.1174		0.355
##	150	9	1	0.1837	0.0553	0.1018		0.331
##	175	8	1	0.1633	0.0528	0.0866		0.308
##	200	5	3	0.1020	0.0432	0.0445		0.234
##	225	4	1	0.0816	0.0391	0.0319		0.209
##	250	3	1	0.0612	0.0342	0.0205		0.183
##								
##			•	=016, dayo		3 05W GT		0 E W G E
##						lower 95% CI	upper	
##	1	52	0	1.000	0.0000	1.000		1.000
##	25	34	18	0.654	0.0660	0.537		0.797
##	50 75	22	12 1	0.423	0.0685	0.308		0.581
##	75 100	21		0.404	0.0680	0.290		0.562
## ##	100 125	16 11	5 5	0.308 0.212	0.0640 0.0566	0.205 0.125		0.463 0.358
##	150	11	0	0.212	0.0566	0.125		0.358
##	175	11	0	0.212	0.0566	0.125		0.358
##	200	11	0	0.212	0.0566	0.125		0.358
##	225	10	1	0.212	0.0547	0.123		0.336
π	220	10		0.102	0.001	0.110		0.000

##	250	10	0	0.192	0.0547		0.110		0.336
##			1	-010 1	. f				
## ##	+:	n mialr	•	=016, dayo		7	OE% CT		OE% CT
##	time	62	n.event	survival 1.0000	0.0000	Tower	1.0000	upper	1.000
##	25	42	20	0.6774	0.0594		0.5705		0.804
##	50	28	14	0.4516	0.0632		0.3433		0.594
##	75	21	7	0.3387	0.0601		0.2392		0.480
##	100	14	7	0.2258	0.0531		0.1424		0.358
##	125	13	1	0.2097	0.0517		0.1293		0.340
##	150	11	2	0.1774	0.0485		0.1038		0.303
##	175	6	5	0.0968	0.0375		0.0452		0.207
##	200	6	0	0.0968	0.0375		0.0452		0.207
##	225	6	0	0.0968	0.0375		0.0452		0.207
##	250	6	0	0.0968	0.0375		0.0452		0.207
##									
##			subj:	=016, day	ofwear=4				
##	time	n.risk	-	survival		lower	95% CI	upper	95% CI
##	1	50	0	1.00	0.0000		1.0000		1.000
##	25	32	18	0.64	0.0679		0.5199		0.788
##	50	19	13	0.38	0.0686		0.2667		0.541
##	75	19	0	0.38	0.0686		0.2667		0.541
##	100	13	6	0.26	0.0620		0.1629		0.415
##	125	11	2	0.22	0.0586		0.1305		0.371
##	150	7	4	0.14	0.0491		0.0704		0.278
##	175	7	0	0.14	0.0491		0.0704		0.278
##	200	6	1	0.12	0.0460		0.0566		0.254
##	225	6	0	0.12	0.0460		0.0566		0.254
##	250	5	1	0.10	0.0424		0.0435		0.230
##									
##			•	=016, day		_			
##				survival		lower		upper	
##	1	71	0	1.0000	0.0000		1.0000		1.000
##	25	43	28	0.6056	0.0580		0.5020		0.731
##	50 75	35	8	0.4930	0.0593		0.3894		0.624
##	75	24	11 6	0.3380	0.0561 0.0516		0.2441		0.468
##	100	18		0.2535			0.1701		0.378
## ##	125 150	14 11	4	0.1972 0.1549	0.0472 0.0429		0.1233		0.315 0.267
##	175	10	1	0.1349	0.0429		0.0793		0.250
##	200	9	1	0.1408	0.0413		0.0688		0.233
##	225	7	2	0.1200	0.0354		0.0488		0.199
##	250	6	1	0.0300	0.0334		0.0393		0.133
##	200	O	_	0.0010	0.0000		0.0000		0.102
##			subi:	=016, dayo	ofwear=6				
##	time	n.risk	-	survival		lower	95% CI	upper	95% CI
##	1	31	0	1.000	0.0000		1.0000	FF	1.000
##	25	24	7	0.774	0.0751		0.6402		0.936
##	50	16	8	0.516	0.0898		0.3671		0.726
##	75	14	2	0.452	0.0894		0.3064		0.666
##	100	12	2	0.387	0.0875		0.2486		0.603
##	125	8	4	0.258	0.0786		0.1421		0.469
##	150	5	3	0.161	0.0661		0.0723		0.360
##	175	5	0	0.161	0.0661		0.0723		0.360

```
200
                           0.161 0.0661
##
                      0
                                                0.0723
                                                              0.360
##
     225
              5
                      0
                           0.161 0.0661
                                                0.0723
                                                              0.360
##
     250
                           0.161 0.0661
                                                0.0723
                                                              0.360
                      0
##
##
                   subj=019, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                      0
                           1.000 0.0000
                                               1.0000
                                                              1.000
##
      25
             16
                     24
                           0.400 0.0775
                                               0.2737
                                                              0.585
##
      50
              7
                      9
                           0.175 0.0601
                                               0.0893
                                                              0.343
##
     75
              5
                      2
                           0.125 0.0523
                                               0.0551
                                                              0.284
##
     100
             5
                      0
                           0.125 0.0523
                                                0.0551
                                                              0.284
     125
                           0.100 0.0474
                                                0.0395
                                                              0.253
##
              4
                      1
##
##
                   subj=019, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
             96
                     0
                          1.0000 0.0000
                                              1.00000
                                                             1.0000
##
      25
             60
                     37
                          0.6146 0.0497
                                               0.52455
                                                             0.7201
      50
             34
                     25
                          0.3542 0.0488
                                               0.27033
                                                             0.4640
##
##
     75
             26
                      8
                          0.2708 0.0454
                                               0.19505
                                                             0.3761
                          0.1771 0.0390
##
     100
             17
                      9
                                               0.11505
                                                             0.2726
##
     125
             11
                      6
                          0.1146 0.0325
                                              0.06571
                                                             0.1998
##
     150
             6
                      5
                          0.0625 0.0247
                                              0.02880
                                                             0.1356
##
                      2
                          0.0417 0.0204
     175
             4
                                              0.01596
                                                             0.1087
##
     200
             4
                      0
                          0.0417 0.0204
                                              0.01596
                                                             0.1087
##
     225
              1
                      3
                          0.0104 0.0104
                                               0.00148
                                                             0.0732
##
     250
                      0
                          0.0104 0.0104
                                               0.00148
                                                             0.0732
##
##
                   subj=019, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             75
                      0
                          1.0000 0.0000
                                              1.00000
                                                              1.000
##
      1
                                               0.47165
      25
             43
                     32
                          0.5733 0.0571
                                                              0.697
##
                          0.2933 0.0526
##
      50
             22
                     21
                                               0.20645
                                                              0.417
##
     75
             15
                      7
                          0.2000 0.0462
                                                              0.314
                                               0.12719
##
     100
             9
                      6
                          0.1200 0.0375
                                               0.06502
                                                              0.221
             5
##
     125
                      4
                          0.0667 0.0288
                                               0.02859
                                                              0.155
##
     150
              2
                      3
                          0.0267 0.0186
                                               0.00679
                                                              0.105
##
     175
                      0
                          0.0267 0.0186
                                               0.00679
                                                              0.105
##
                   subj=019, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             88
                   0
                          1.0000 0.0000
                                              1.00000
                                                           1.0000
##
      25
             54
                     34
                          0.6136 0.0519
                                               0.51989
                                                             0.7243
##
      50
             39
                     15
                          0.4432 0.0530
                                               0.35065
                                                             0.5601
##
     75
             24
                     15
                          0.2727 0.0475
                                              0.19389
                                                             0.3836
##
     100
             12
                     12
                          0.1364 0.0366
                                               0.08060
                                                             0.2307
##
     125
             7
                     5
                          0.0795 0.0288
                                               0.03908
                                                             0.1619
##
     150
                      3
                          0.0455 0.0222
             4
                                               0.01745
                                                             0.1184
##
     175
             3
                      1
                          0.0341 0.0193
                                               0.01121
                                                             0.1037
##
     200
             2
                      1
                          0.0227 0.0159
                                               0.00577
                                                             0.0894
##
     225
                          0.0114 0.0113
                      1
                                               0.00162
                                                             0.0798
##
##
                   subj=019, dayofwear=4
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
           108
                 0 1.00000 0.00000
                                            1.00000
                                                             1.0000
##
     1
```

```
25
                      42 0.61111 0.04691
                                                                0.7103
##
             66
                                                 0.52575
                                                                0.4255
##
      50
             35
                      31
                          0.32407 0.04504
                                                 0.24681
      75
             25
                          0.23148 0.04059
                                                                0.3264
##
                      10
                                                 0.16416
##
     100
               9
                          0.08333 0.02660
                                                 0.04458
                      16
                                                                0.1558
##
     125
               5
                       4
                          0.04630 0.02022
                                                 0.01967
                                                                0.1090
##
     150
               2
                          0.01852 0.01297
                                                 0.00469
                                                                0.0731
##
     175
                          0.00926 0.00922
                                                 0.00132
                                                                0.0651
                          0.00926 0.00922
##
     200
                       0
                                                 0.00132
                                                                0.0651
               1
##
                    subj=019, dayofwear=5
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       0 1.00000 0.00000
                                                 1.00000
                                                                1.0000
##
       1
             132
      25
             64
                          0.48485 0.04350
                                                 0.40667
                                                                0.5781
##
             33
                          0.25000 0.03769
##
      50
                      31
                                                 0.18604
                                                                0.3359
##
      75
             21
                      12
                          0.15909 0.03184
                                                 0.10748
                                                                0.2355
                          0.06061 0.02077
##
     100
               8
                      13
                                                 0.03096
                                                                0.1186
##
     125
               4
                          0.03030 0.01492
                                                 0.01154
                                                                0.0795
##
                          0.00758 0.00755
     150
                                                 0.00108
                                                                0.0534
##
                    subj=019, dayofwear=6
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             98
                       0
                            1.0000 0.0000
                                                 1.00000
                                                                1.0000
##
      25
                      47
                            0.5204 0.0505
                                                 0.43033
                                                                0.6293
             51
##
      50
             26
                      25
                            0.2653 0.0446
                                                 0.19084
                                                                0.3688
##
      75
             19
                       7
                            0.1939 0.0399
                                                 0.12948
                                                                0.2903
##
     100
             11
                       8
                            0.1122 0.0319
                                                 0.06432
                                                                0.1959
##
     125
               5
                       6
                            0.0510 0.0222
                                                 0.02172
                                                                0.1198
##
     150
               3
                       2
                            0.0306 0.0174
                                                 0.01005
                                                                0.0933
##
               3
                       0
                            0.0306
                                   0.0174
                                                                0.0933
     175
                                                 0.01005
##
     200
               2
                       1
                            0.0204
                                   0.0143
                                                                0.0804
                                                 0.00518
##
     225
               2
                       0
                            0.0204 0.0143
                                                 0.00518
                                                                0.0804
##
     250
               2
                            0.0204 0.0143
                                                 0.00518
                                                                0.0804
##
##
                    subj=027, dayofwear=0
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
##
             30
                       0
                                                   1.000
                                                                  1.000
##
      25
             21
                       9
                             0.700 0.0837
                                                   0.554
                                                                 0.885
##
      50
             19
                       2
                             0.633
                                   0.0880
                                                   0.482
                                                                 0.832
##
      75
             18
                       1
                             0.600 0.0894
                                                   0.448
                                                                 0.804
##
     100
                             0.567
             17
                       1
                                   0.0905
                                                   0.414
                                                                 0.775
##
     125
             15
                       2
                             0.500
                                   0.0913
                                                   0.350
                                                                 0.715
##
     150
             14
                       1
                             0.467
                                   0.0911
                                                   0.318
                                                                 0.684
##
     175
             13
                       1
                             0.433
                                   0.0905
                                                                 0.652
                                                   0.288
##
     200
             13
                       0
                             0.433
                                   0.0905
                                                   0.288
                                                                 0.652
##
     225
             13
                       0
                             0.433
                                   0.0905
                                                   0.288
                                                                 0.652
##
     250
             13
                       0
                             0.433 0.0905
                                                   0.288
                                                                 0.652
##
##
                    subj=027, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             66
                       0
                             1.000 0.0000
                                                   1.000
                                                                  1.000
##
       1
      25
##
             55
                      11
                             0.833
                                   0.0459
                                                   0.748
                                                                 0.928
##
      50
             48
                       7
                             0.727 0.0548
                                                   0.627
                                                                 0.843
##
      75
             43
                       5
                             0.652 0.0587
                                                   0.546
                                                                 0.777
##
     100
             38
                       5
                             0.576 0.0608
                                                   0.468
                                                                 0.708
```

```
125
             37
                             0.561 0.0611
                                                   0.453
                                                                 0.694
##
                       1
                             0.485 0.0615
##
     150
             32
                       5
                                                   0.378
                                                                 0.622
##
     175
             29
                       3
                             0.439
                                   0.0611
                                                   0.335
                                                                 0.577
##
     200
             26
                       3
                             0.394
                                   0.0601
                                                   0.292
                                                                 0.531
##
     225
             26
                       0
                             0.394
                                   0.0601
                                                   0.292
                                                                 0.531
##
     250
             26
                       0
                             0.394 0.0601
                                                   0.292
                                                                 0.531
##
##
                    subj=027, dayofwear=2
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             52
                       0
                             1.000 0.0000
                                                   1.000
                                                                  1.000
       1
                             0.865
##
      25
             45
                       7
                                   0.0473
                                                   0.777
                                                                  0.963
##
      50
             39
                       6
                             0.750
                                   0.0600
                                                   0.641
                                                                 0.877
##
      75
             33
                       6
                             0.635
                                   0.0668
                                                                 0.780
                                                   0.516
##
     100
                             0.615
                                   0.0675
             32
                       1
                                                   0.496
                                                                 0.763
##
     125
             29
                       3
                             0.558
                                   0.0689
                                                   0.438
                                                                 0.710
##
     150
             29
                       0
                             0.558
                                   0.0689
                                                   0.438
                                                                 0.710
##
     175
             27
                       2
                             0.519
                                   0.0693
                                                   0.400
                                                                 0.674
##
     200
             25
                       2
                             0.481
                                   0.0693
                                                   0.362
                                                                 0.638
##
     225
             24
                       1
                             0.462 0.0691
                                                   0.344
                                                                 0.619
##
     250
                       0
                             0.462 0.0691
             24
                                                   0.344
                                                                 0.619
##
##
                    subj=027, dayofwear=3
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
##
       1
             64
                       0
                                                   1.000
                                                                  1.000
##
             54
                      10
                             0.844 0.0454
                                                                 0.938
      25
                                                   0.759
##
      50
             47
                       7
                             0.734 0.0552
                                                   0.634
                                                                 0.851
##
      75
             41
                       6
                             0.641 0.0600
                                                   0.533
                                                                 0.770
##
     100
             36
                       5
                             0.562 0.0620
                                                   0.453
                                                                 0.698
                       0
##
     125
             36
                             0.562 0.0620
                                                                 0.698
                                                   0.453
##
     150
             33
                       3
                             0.516
                                   0.0625
                                                   0.407
                                                                 0.654
                             0.484 0.0625
##
     175
                       2
                                                                 0.624
             31
                                                   0.376
##
     200
             30
                       1
                             0.469
                                   0.0624
                                                   0.361
                                                                 0.608
##
     225
             30
                       0
                             0.469
                                   0.0624
                                                   0.361
                                                                 0.608
                             0.469 0.0624
##
     250
             30
                       0
                                                   0.361
                                                                  0.608
##
##
                    subj=027, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             57
                       0
                             1.000 0.0000
                                                   1.000
                                                                  1.000
      25
                             0.772 0.0556
                                                                 0.889
##
             44
                      13
                                                   0.670
##
      50
             41
                       3
                             0.719 0.0595
                                                   0.612
                                                                 0.846
##
      75
             37
                       4
                             0.649
                                   0.0632
                                                   0.536
                                                                 0.786
                             0.632 0.0639
##
     100
             36
                       1
                                                   0.518
                                                                 0.770
##
     125
             32
                       4
                             0.561 0.0657
                                                   0.446
                                                                 0.706
##
     150
             30
                       2
                             0.526 0.0661
                                                   0.411
                                                                 0.673
##
     175
             27
                       3
                             0.474 0.0661
                                                   0.360
                                                                 0.623
                       2
                             0.439
##
     200
             25
                                   0.0657
                                                   0.327
                                                                 0.588
##
     225
             23
                       2
                             0.404 0.0650
                                                   0.294
                                                                 0.553
                       2
##
     250
             21
                             0.368 0.0639
                                                   0.262
                                                                 0.518
##
##
                    subj=027, dayofwear=5
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
##
             52
                       0
                                                   1.000
                                                                  1.000
       1
                      12
                                                   0.663
                                                                  0.893
##
      25
             40
                             0.769 0.0584
##
      50
             30
                      10
                             0.577 0.0685
                                                   0.457
                                                                 0.728
```

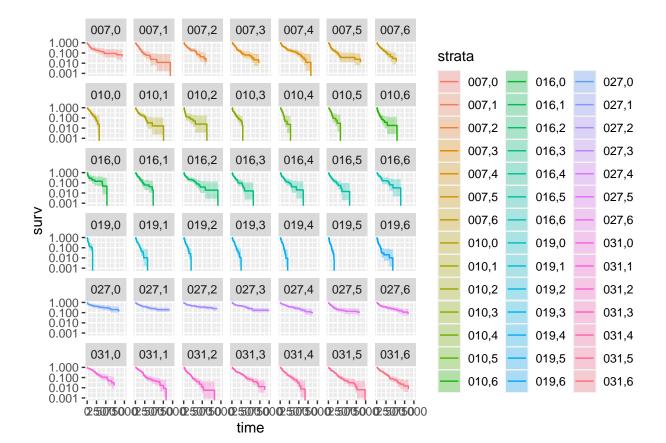
```
75
             28
                            0.538 0.0691
                                                  0.419
                                                               0.693
##
     100
                            0.462 0.0691
                                                               0.619
##
             24
                       4
                                                  0.344
##
     125
             17
                       7
                            0.327 0.0651
                                                  0.221
                                                               0.483
##
     150
             15
                            0.288 0.0628
                                                  0.188
                                                               0.442
                       2
##
     175
             14
                       1
                            0.269 0.0615
                                                  0.172
                                                                0.421
##
     200
             13
                       1
                            0.250 0.0600
                                                  0.156
                                                               0.400
##
     225
             12
                       1
                            0.231 0.0584
                                                  0.140
                                                                0.379
                       2
                            0.192 0.0547
##
     250
             10
                                                  0.110
                                                                0.336
##
##
                   subj=027, dayofwear=6
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                      0
                            1.000 0.0000
                                                  1.000
                                                                1.000
      1
             53
##
      25
             46
                       7
                            0.868 0.0465
                                                  0.781
                                                                0.964
##
      50
             36
                            0.679 0.0641
                                                  0.565
                                                               0.817
                      10
##
      75
             29
                      7
                            0.547 0.0684
                                                  0.428
                                                                0.699
##
     100
             26
                       3
                            0.491 0.0687
                                                  0.373
                                                               0.645
##
     125
             23
                      3
                            0.434 0.0681
                                                  0.319
                                                               0.590
##
     150
             21
                       2
                            0.396 0.0672
                                                  0.284
                                                               0.552
##
     175
             21
                      0
                            0.396 0.0672
                                                  0.284
                                                               0.552
##
     200
             20
                            0.377 0.0666
                                                               0.533
                       1
                                                  0.267
##
     225
             20
                       0
                            0.377 0.0666
                                                  0.267
                                                               0.533
##
     250
             18
                       2
                            0.340 0.0651
                                                  0.233
                                                                0.494
##
##
                   subj=031, dayofwear=0
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
                      0
                            1.000 0.0000
                                                  1.000
                                                                1.000
##
      25
             52
                      12
                            0.812 0.0488
                                                  0.722
                                                                0.914
##
      50
             49
                       3
                            0.766 0.0530
                                                  0.669
                                                                0.877
      75
##
             46
                       3
                            0.719 0.0562
                                                               0.838
                                                  0.617
##
     100
             42
                            0.656 0.0594
                                                  0.550
                                                               0.784
                       4
                            0.547 0.0622
##
     125
                      7
                                                               0.684
             35
                                                  0.438
##
     150
             33
                      2
                            0.516 0.0625
                                                  0.407
                                                               0.654
##
     175
             26
                      7
                            0.406 0.0614
                                                  0.302
                                                               0.546
##
     200
             23
                      3
                            0.359 0.0600
                                                  0.259
                                                               0.498
##
     225
             19
                            0.297 0.0571
                       4
                                                  0.204
                                                                0.433
                            0.219 0.0517
##
     250
             14
                      5
                                                  0.138
                                                                0.348
##
##
                   subj=031, dayofwear=1
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
            118
                            1.000 0.0000
                                                 1.0000
                                                                1.000
      1
                      0
            103
                                                 0.8148
                                                                0.935
##
      25
                      15
                            0.873 0.0307
             88
                            0.746 0.0401
                                                               0.829
##
      50
                      15
                                                 0.6712
##
      75
             74
                      14
                            0.627 0.0445
                                                 0.5457
                                                               0.721
##
     100
             64
                      10
                            0.542 0.0459
                                                 0.4595
                                                               0.640
##
     125
             55
                      9
                            0.466 0.0459
                                                 0.3843
                                                               0.565
##
     150
             47
                      8
                            0.398 0.0451
                                                0.3191
                                                               0.497
##
     175
             41
                      7
                            0.339 0.0436
                                                 0.2635
                                                               0.436
##
     200
             35
                      5
                            0.297 0.0420
                                                 0.2247
                                                               0.392
##
             22
                            0.186 0.0359
                                                               0.272
     225
                      13
                                                 0.1279
##
     250
             17
                      5
                            0.144 0.0323
                                                                0.224
                                                 0.0928
##
##
                   subj=031, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
            175
                      0 1.000 0.0000
                                                 1.0000
##
       1
                                                               1.000
```

```
25
            139
                      37
                            0.789 0.0309
                                                 0.7303
                                                                0.851
##
                                                                0.600
##
      50
             91
                      47
                            0.520 0.0378
                                                 0.4510
##
      75
             72
                            0.411 0.0372
                                                 0.3446
                                                                0.491
                      19
##
     100
             57
                            0.326 0.0354
                                                 0.2632
                                                                0.403
                      15
##
     125
             47
                      10
                            0.269 0.0335
                                                 0.2103
                                                                0.343
##
     150
             42
                       5
                            0.240 0.0323
                                                 0.1844
                                                                0.312
##
     175
             35
                       7
                            0.200 0.0302
                                                 0.1487
                                                                0.269
##
     200
             27
                       8
                            0.154 0.0273
                                                 0.1091
                                                                0.218
##
     225
             20
                       7
                            0.114 0.0241
                                                 0.0757
                                                                0.173
                            0.080 0.0205
##
     250
             14
                       6
                                                 0.0484
                                                                0.132
##
##
                    subj=031, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.000 0.0000
      1
            154
                       0
                                                  1.000
                                                                1.000
##
      25
            127
                      27
                            0.825 0.0306
                                                  0.767
                                                                0.887
            106
                      21
##
      50
                            0.688 0.0373
                                                  0.619
                                                                0.765
##
      75
             90
                      16
                            0.584 0.0397
                                                  0.512
                                                                0.668
##
                            0.442 0.0400
                                                  0.370
                                                                0.527
     100
             68
                      22
##
     125
             57
                            0.370 0.0389
                                                  0.301
                                                                0.455
                      11
     150
                            0.331 0.0379
##
             51
                       6
                                                  0.265
                                                                0.415
##
     175
             49
                       2
                            0.318 0.0375
                                                  0.253
                                                                0.401
##
     200
             47
                       2
                            0.305 0.0371
                                                  0.240
                                                                0.387
##
     225
                       6
                            0.266 0.0356
                                                                0.346
             41
                                                  0.205
##
     250
             35
                       6
                            0.227 0.0338
                                                  0.170
                                                                0.304
##
                   subj=031, dayofwear=4
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
            133
                       0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
      25
            114
                      19
                            0.857 0.0303
                                                 0.7997
                                                                0.919
##
      50
             88
                      26
                            0.662 0.0410
                                                 0.5859
                                                                0.747
                            0.504 0.0434
      75
##
             67
                      21
                                                 0.4256
                                                                0.596
                            0.383 0.0422
##
     100
             51
                      16
                                                 0.3091
                                                                0.476
##
     125
             43
                       8
                            0.323 0.0406
                                                 0.2528
                                                                0.413
##
     150
             38
                       5
                            0.286 0.0392
                                                 0.2184
                                                                0.374
##
     175
                       7
                            0.233 0.0367
                                                                0.317
             31
                                                 0.1712
##
     200
             23
                       8
                            0.173 0.0328
                                                 0.1193
                                                                0.251
##
     225
             22
                       1
                            0.165 0.0322
                                                 0.1129
                                                                0.242
##
     250
             19
                       3
                            0.143 0.0303
                                                 0.0942
                                                                0.217
##
##
                    subj=031, dayofwear=5
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.000 0.0000
##
       1
            156
                       0
                                                  1.000
                                                                1.000
##
      25
            131
                      25
                            0.840 0.0294
                                                  0.784
                                                                0.899
##
      50
            106
                      25
                            0.679 0.0374
                                                  0.610
                                                                0.757
##
      75
             79
                      27
                            0.506 0.0400
                                                  0.434
                                                                0.591
             72
##
     100
                       7
                            0.462 0.0399
                                                  0.390
                                                                0.547
##
     125
             64
                       8
                            0.410 0.0394
                                                  0.340
                                                                0.495
##
     150
             59
                       5
                            0.378 0.0388
                                                  0.309
                                                                0.462
##
                            0.288 0.0363
     175
             45
                      14
                                                  0.225
                                                                0.369
##
     200
             42
                       3
                            0.269 0.0355
                                                  0.208
                                                                0.349
##
     225
             32
                      10
                            0.205 0.0323
                                                  0.151
                                                                0.279
##
     250
             23
                       9
                            0.147 0.0284
                                                  0.101
                                                                0.215
##
##
                    subj=031, dayofwear=6
```

```
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             132
                        0
                              1.000
                                     0.0000
                                                     1.000
                                                                    1.000
             112
                              0.848
                                                     0.789
##
      25
                       20
                                     0.0312
                                                                    0.912
      50
              93
                       19
                             0.705
                                     0.0397
                                                     0.631
                                                                    0.787
##
##
      75
              74
                       19
                              0.561
                                     0.0432
                                                     0.482
                                                                    0.652
##
     100
              61
                       13
                              0.462
                                     0.0434
                                                     0.384
                                                                   0.556
##
                        6
                              0.417
                                     0.0429
                                                     0.341
     125
              55
                                                                    0.510
                        3
##
     150
              52
                              0.394
                                     0.0425
                                                     0.319
                                                                   0.487
##
     175
              45
                        7
                              0.341
                                     0.0413
                                                     0.269
                                                                    0.432
##
     200
              37
                        8
                              0.280
                                     0.0391
                                                     0.213
                                                                    0.368
##
     225
              31
                        7
                              0.227
                                     0.0365
                                                     0.166
                                                                    0.311
                        2
##
     250
              28
                              0.212
                                     0.0356
                                                     0.153
                                                                    0.295
```

```
autoplot(wearfit) +
  xlim(c(0,1000)) +
  facet_wrap(~strata) +
  scale_y_log10()
```

- ## Scale for y is already present.
- ## Adding another scale for y, which will replace the existing scale.
- ## Warning: Transformation introduced infinite values in continuous y-axis
- ## Transformation introduced infinite values in continuous y-axis
- ## Warning: Removed 60 rows containing missing values ('geom_step()').



The graph for each of the subjects for each of the days of wear are displayed above. Previously, it was determined that Friday might have some significant impact on the duration of walking, but with this new display, it is hard to determine what day Friday was.

From looking at the graphs, there doesn't appear to be any significant difference on the first day of wearing when compared to the rest of the week.

Comparing Day of Wear for each Trial

I am using the same function as above, but filtering it down to trial as 60 days. I am then going to compare the trials (60 vs 90).

'Figure 17'

```
wearfit <- survfit(Surv(dur_s,status) ~ subj + dayofwear</pre>
                    data = result %>%
                      filter( dayofwear < 7) %>%
                     filter (trial == 60))
summary(wearfit, times = c(1,25*(1:10)))
## Call: survfit(formula = Surv(dur_s, status) ~ subj + dayofwear, data = result %>%
       filter(dayofwear < 7) %>% filter(trial == 60))
##
##
##
                    subj=007, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             18
                       0
                             1.000
                                     0.000
                                                    1.000
                                                                  1.000
      25
##
              12
                       6
                             0.667
                                     0.111
                                                    0.481
                                                                  0.924
##
      50
              11
                                     0.115
                                                    0.423
                       1
                             0.611
                                                                  0.883
##
      75
               9
                       2
                             0.500
                                     0.118
                                                    0.315
                                                                  0.794
##
     100
               9
                       0
                             0.500
                                     0.118
                                                    0.315
                                                                  0.794
##
     125
               9
                       0
                             0.500
                                     0.118
                                                    0.315
                                                                  0.794
               9
##
     150
                       0
                             0.500
                                     0.118
                                                    0.315
                                                                  0.794
##
     175
               9
                       0
                             0.500
                                     0.118
                                                    0.315
                                                                  0.794
               9
                                     0.118
##
     200
                       0
                             0.500
                                                    0.315
                                                                  0.794
##
     225
               8
                       1
                             0.444
                                     0.117
                                                    0.265
                                                                  0.745
##
     250
               8
                       0
                             0.444
                                                    0.265
                                     0.117
                                                                  0.745
##
##
                    subj=007, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             48
                       0
                             1.000 0.0000
                                                  1.0000
                                                                  1.000
##
      25
             38
                      10
                             0.792 0.0586
                                                  0.6847
                                                                  0.915
##
      50
                       5
             33
                             0.687
                                    0.0669
                                                  0.5681
                                                                  0.832
##
      75
             23
                      10
                             0.479 0.0721
                                                  0.3568
                                                                  0.644
##
     100
              19
                       4
                             0.396 0.0706
                                                  0.2791
                                                                  0.561
##
     125
              14
                       5
                             0.292 0.0656
                                                                  0.453
                                                  0.1877
##
     150
              12
                       2
                             0.250
                                   0.0625
                                                  0.1532
                                                                  0.408
##
               8
     175
                       4
                             0.167 0.0538
                                                  0.0885
                                                                  0.314
##
     200
               8
                       0
                             0.167 0.0538
                                                  0.0885
                                                                  0.314
##
     225
               7
                             0.146
                                                                  0.289
                       1
                                    0.0509
                                                  0.0735
##
     250
               6
                       1
                             0.125
                                   0.0477
                                                  0.0591
                                                                  0.264
##
##
                    subj=007, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
```

```
41
                             1.000 0.0000
                                                   1.000
                                                                 1.000
##
       1
                       0
                                                                 0.953
##
      25
                       7
                             0.829 0.0588
                                                   0.722
##
      50
             28
                       7
                             0.659 0.0741
                                                   0.528
                                                                 0.821
##
      75
             23
                             0.561 0.0775
                                                   0.428
                                                                 0.735
                       4
             17
##
     100
                       6
                             0.415 0.0769
                                                   0.288
                                                                 0.597
##
     125
             15
                       2
                             0.366 0.0752
                                                   0.245
                                                                 0.547
##
     150
             13
                       2
                             0.317 0.0727
                                                   0.202
                                                                 0.497
                             0.293 0.0711
##
     175
             12
                                                   0.182
                                                                 0.471
                       1
##
     200
             10
                       2
                             0.244
                                    0.0671
                                                   0.142
                                                                 0.418
##
     225
             10
                       0
                             0.244
                                   0.0671
                                                   0.142
                                                                 0.418
##
     250
             10
                       0
                             0.244 0.0671
                                                   0.142
                                                                 0.418
##
##
                    subj=007, dayofwear=3
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       1
             39
                       0
                             1.000 0.0000
                                                  1.0000
                                                                 1.000
      25
                       5
                             0.872 0.0535
                                                                 0.983
##
             35
                                                  0.7729
##
      50
             29
                       5
                             0.744 0.0699
                                                  0.6184
                                                                 0.894
##
      75
             21
                       8
                             0.538 0.0798
                                                  0.4027
                                                                 0.720
##
     100
             18
                       3
                             0.462 0.0798
                                                  0.3288
                                                                 0.648
##
     125
                             0.359 0.0768
                                                  0.2360
                                                                 0.546
             14
                       4
##
     150
             11
                       3
                             0.282 0.0721
                                                  0.1709
                                                                 0.465
##
     175
               9
                       2
                             0.231
                                   0.0675
                                                  0.1301
                                                                 0.409
##
     200
               9
                       0
                             0.231
                                   0.0675
                                                  0.1301
                                                                 0.409
##
     225
               9
                       0
                             0.231 0.0675
                                                  0.1301
                                                                 0.409
##
     250
               7
                       2
                                                  0.0918
                                                                 0.351
                             0.179 0.0615
##
##
                    subj=007, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
##
             30
                       0
                                                   1.000
                                                                 1.000
       1
##
      25
             27
                       3
                             0.900 0.0548
                                                   0.799
                                                                 1.000
                             0.700 0.0837
##
             21
                                                                 0.885
      50
                       6
                                                   0.554
                             0.667 0.0861
##
      75
             20
                       1
                                                   0.518
                                                                 0.859
##
     100
             20
                       0
                             0.667 0.0861
                                                   0.518
                                                                 0.859
##
     125
             20
                       0
                             0.667 0.0861
                                                   0.518
                                                                 0.859
                       2
##
     150
                             0.600 0.0894
             18
                                                   0.448
                                                                 0.804
                       2
##
     175
             16
                             0.533 0.0911
                                                   0.382
                                                                 0.745
##
     200
             13
                       3
                             0.433 0.0905
                                                   0.288
                                                                 0.652
##
     225
             13
                       0
                             0.433 0.0905
                                                   0.288
                                                                 0.652
##
     250
             12
                             0.400 0.0894
                                                   0.258
                                                                 0.620
                       1
##
##
                    subj=007, dayofwear=5
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       1
             18
                       0
                             1.000 0.0000
                                                  1.0000
                                                                 1.000
##
      25
             16
                       2
                             0.889 0.0741
                                                  0.7549
                                                                 1.000
##
      50
             11
                       5
                             0.611 0.1149
                                                  0.4227
                                                                 0.883
##
      75
             10
                             0.556 0.1171
                                                  0.3675
                                                                 0.840
                       1
##
     100
             10
                       0
                             0.556 0.1171
                                                  0.3675
                                                                 0.840
##
     125
               9
                       1
                             0.500 0.1179
                                                  0.3150
                                                                 0.794
##
                             0.444 0.1171
                                                  0.2652
                                                                 0.745
     150
               8
                       1
##
     175
               8
                       0
                             0.444 0.1171
                                                  0.2652
                                                                 0.745
##
               7
     200
                       1
                             0.389 0.1149
                                                  0.2179
                                                                 0.694
##
     225
                       3
                             0.222 0.0980
               4
                                                  0.0936
                                                                 0.527
##
                       1
     250
               3
                             0.167 0.0878
                                                  0.0593
                                                                 0.468
##
```

## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 29 0 1.000 0.0000 1.00	##			subi=	=010, dayo	ofwear=0				
##		time	n.risk	_	•		lower	95% CI	upper	95% CI
## 50 18 3 0.621 0.901 0.4670 0.534 ## 100 9 5 10.310 0.0859 0.1804 0.534 ## 125 7 2 0.241 0.0795 0.1266 0.460 ## 175 5 1 1 0.172 0.0701 0.0777 0.383 ## 120 5 0 0.172 0.0701 0.0777 0.383 ## 200 5 0 0.172 0.0701 0.0777 0.383 ## 255 3 2 0.103 0.0666 0.0354 0.302 ## 255 3 2 0.103 0.0666 0.0354 0.302 ## 150 5 0 0.172 0.0701 0.0777 0.383 ## 255 3 2 0.103 0.0666 0.0354 0.302 ## 1 1 39 0 1.000 0.0000 1.0000 1.0000 ## 150 17 6 0.436 0.0794 0.3050 0.623 ## 155 8 2 0.025 0.0647 0.1106 0.384 ## 155 6 0 0.154 0.0578 0.0737 0.321 ## 150 6 2 0.154 0.0578 0.0737 0.321 ## 150 6 2 0.154 0.0578 0.0737 0.321 ## 225 5 0 0.128 0.0535 0.0566 0.291 ## 255 11 10 0.128 0.0535 0.0566 0.291 ## 250 0 0 0.154 0.0578 0.0737 0.321 ## 150 6 2 0.154 0.0578 0.0737 0.321 ## 150 6 0 0.154 0.0578 0.0737 0.321 ## 255 11 0.100 0.0585 0.0699 0.1503 0.438 ## 150 6 2 0.154 0.0578 0.0737 0.321 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 200 5 1 0.128 0.0535 0.0566 0.291 ## 200 5 0 0.128 0.0535 0.0566 0.291 ## 200 5 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 1 0 0.128 0.0535 0.0566 0.291 ## 255 2 0 0.0952 0.0641 0.0578 0.0501 ## 30 0 0.0905 0.0857 0.0789 0.460 ## 125 4 0 0.0952 0.0641 0.0255 0.356 ## 255 2 0 0.0952 0.0641 0.0255 0.356 ## 30 0 0.0952 0.0641 0.0255 0.356 ## 30 0 0.0952 0.0641 0.0255 0.356 ## 30 0 0.0952 0.0641 0.0255 0.356 ## 30 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0641 0.0255 0.356 ## 35 0 0 0.0952 0.0642 0.0698 0.2672 0.618 ## 35 0 0 0.0952 0.0642 0.0698 0.2672 0.618 ## 35 0 0 0.0952 0.0642 0.0698 0.2672 0.618 ## 35 0 0 0.0952 0.0642 0.0698 0.2672 0.6	##									
## 50 18 3 0.621 0.0901 0.4670 0.825 ## 75 14 4 0.483 0.0928 0.3312 0.704 ## 100 9 5 0.310 0.0859 0.1366 0.534 ## 150 6 1 0.207 0.0752 0.1015 0.422 ## 150 6 1 0.207 0.0752 0.1015 0.223 ## 200 5 0 0.172 0.0701 0.0777 0.383 ## 225 3 2 0.103 0.0566 0.0354 0.302 ## 250 2 1 0.699 0.0471 0.0181 0.263 ## 1 1 39 0 0 1.000 0.0000 1.0000 1.000 ## 50 17 6 0.436 0.0794 0.3050 0.623 ## 150 17 6 0.436 0.0794 0.3050 0.623 ## 175 10 0 0 0.0256 0.0699 0.1503 0.438 ## 125 8 2 0.205 0.0647 0.1106 0.384 ## 1150 6 0 0.154 0.0578 0.0737 0.321 ## 125 8 2 0.205 0.0647 0.1106 0.384 ## 125 8 0 0.0154 0.0578 0.0737 0.321 ## 225 0 0 0 0.128 0.0535 0.0666 0.291 ## 175 6 0 0 0.154 0.0578 0.0737 0.321 ## 18 200 5 0 0.128 0.0535 0.0566 0.291 ## 200 5 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.128 0.0535 0.0566 0.291 ## 25 0 0 0.042 0.0578 0.0578 0.0566 0.291 ## 25 0 0 0.028 0.0535 0.0566 0.291 ## 25 0 0 0.038 0.0535 0.0566 0.291 ## 25 0 0 0.038 0.0535 0.0566 0.291 ## 25 0 0 0.038 0.0587 0.0789 0.460 ## 30 0 0 0 0.000 0.000 0.000 0.000 0.000 ## 25 0 0 0.000 0.000 0.000 0.000 0.0000 ## 25 0 0 0.000 0.000 0.000 0.0000 0.0000 ## 25 0 0 0.000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 ## 27 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0	##		21							
##	##	50	18	3						
## 100 9 5 0.310 0.0859 0.1804 0.534	##	75	14	4		0.0928				
## 150 6 1 0.207 0.0752 0.1015 0.422 ## 175 5 1 0.172 0.0701 0.0777 0.383 ## 200 5 0 0.172 0.0701 0.0777 0.383 ## 250 2 1 0.069 0.0471 0.0181 0.263 ## 1	##	100	9	5				0.1804		
## 150 6 1 0.207 0.0752 0.1015 0.422 ## 175 5 1 0.172 0.0701 0.0777 0.383 ## 200 5 0 0.172 0.0701 0.0777 0.383 ## 250 2 1 0.069 0.0471 0.0181 0.263 ## 1	##		7	2						
##	##	150	6	1	0.207	0.0752		0.1015		0.422
##	##	175		1		0.0701		0.0777		0.383
##	##	200	5	0	0.172	0.0701		0.0777		0.383
##	##	225	3	2	0.103	0.0566		0.0354		0.302
## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 39 0 1.000 0.0000 1.0000 0.0056	##	250	2	1	0.069	0.0471		0.0181		0.263
## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 39	##									
##	##			subj=	=010, dayo	ofwear=1				
##	##	time	n.risk	${\tt n.event}$	survival	std.err	lower	95% CI	upper	95% CI
##	##	1	39	0	1.000	0.0000		1.0000		1.000
##	##	25	23	16	0.590	0.0788		0.4539		0.766
## 100 10 0 0.256 0.0699 0.1503 0.438 ## 125 8 2 0.205 0.0647 0.1106 0.380 ## 150 6 2 0.154 0.0578 0.0737 0.321 ## 175 6 0 0.154 0.0578 0.0737 0.321 ## 200 5 1 0.128 0.0535 0.0566 0.291 ## 225 5 0 0 0.128 0.0535 0.0566 0.291 ## 250 4 1 0.103 0.0486 0.0405 0.260 ## 1 1 21 0 0.103 0.0486 0.0405 0.260 ## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 25 2 0 0 0.0952 0.0641 0.0255 0.356 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 25 20 12 0.6250 0.0641 0.0255 0.356 ## 25 20 12 0.6250 0.0641 0.0255 0.356 ## 25 20 12 0.6250 0.0641 0.0255 0.356 ## 25 20 12 0.6250 0.0866 0.4779 0.817 ## 1 32 0 0 1.0000 0.0000 ## 25 20 12 0.6250 0.0868 0.277 0.2954 0.648 ## 150 0 9 4 0.2812 0.0986 0.2642 0.0698 0.350 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 150 5 2 0.1562 0.0642 0.0698 0.350	##	50	17	6	0.436	0.0794		0.3050		0.623
## 125 8 2 0.205 0.0647 0.1106 0.380 ## 150 6 2 0.154 0.0578 0.0737 0.321 ## 200 5 1 0.128 0.0535 0.0566 0.291 ## 225 5 0 0.128 0.0535 0.0566 0.291 ## 250 4 1 0.103 0.0486 0.0405 0.260 ## 1 1 21 0 0.103 0.0486 0.0405 0.260 ## 25 11 0.000 0.0000 0.0000 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 1150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 25 11 30 0.0952 0.0641 0.0255 0.356 ## 25 2 0 0.0952 0.0641 0.0255 0.356	##	75	10	7	0.256	0.0699		0.1503		0.438
## 150 6 2 0.154 0.0578 0.0737 0.321 ## 175 6 0 0.154 0.0578 0.0737 0.321 ## 200 5 1 0.128 0.0535 0.0566 0.291 ## 225 5 0 0.128 0.0535 0.0566 0.291 ## 250 4 1 0.103 0.0486 0.0405 0.260 ## ** subj=010, dayofwear=2 ## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 125 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 220 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 25 20 12 0.6250 0.0857 0.9255 0.356 ## 50 14 6 0.4375 0.0868 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 150 5 2 0.1562 0.0642 0.0698 0.355 ## 150 5 2 0.1562 0.0642 0.0698 0.355 ## 150 5 2 0.1562 0.0642 0.0698 0.355 ## 150 5 2 0.1562 0.0642 0.0698 0.350	##	100	10	0	0.256	0.0699		0.1503		0.438
## 175 6 0 0.154 0.0578 0.0737 0.321 ## 200 5 1 0.128 0.0535 0.0566 0.291 ## 250 4 1 0.103 0.0486 0.0405 0.260 ## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 25 11 10 0.5238 0.0966 0.1453 0.562 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 75 4 2 0.1905 0.0857 0.0789 0.460 ## 100 4 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 25 2 0 12 0.6250 0.0641 0.0255 0.356 ## 1 32 0 1.0000 0.0000 1.0000 1.000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.0857 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 155 5 0 0.1562 0.0642 0.0698 0.356 ## 155 5 0 0.1562 0.0642 0.0698 0.350	##	125	8	2	0.205	0.0647		0.1106		0.380
## 200 5 1 0.128 0.0535 0.0566 0.291 ## 225 5 0 0.128 0.0535 0.0566 0.291 ## 250 4 1 0.103 0.0486 0.0405 0.260 ## ## subj=010, dayofwear=2 ## 1 21 0 1.0000 0.0000 1.0000 1.0000 ## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 125 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 325 20 12 0.6250 0.0857 ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.0642 0.0698 0.350 ## 150 5 2 0.1562 0.0642 0.0698 0.356 ## 150 5 2 0.1562 0.0642 0.0698 0.356 ## 150 5 2 0.1562 0.0642 0.0698 0.356	##	150	6	2	0.154	0.0578		0.0737		0.321
##	##	175	6	0	0.154	0.0578		0.0737		0.321
##	##	200	5	1	0.128	0.0535		0.0566		0.291
##	##	225	5	0	0.128	0.0535		0.0566		0.291
## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 21 0 1.0000 0.0000 1.0000 1.0000 ## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 175 4 2 0.1905 0.0857 0.0789 0.460 ## 125 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 25 20 12 0.0625 0.0641 0.0255 0.356 ## 25 20 12 0.0625 0.0641 0.0255 0.356 ## 25 20 12 0.0625 0.0641 0.0255 0.356 ## 1 1 32 0 1.0000 0.0000 1.0000 1.000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 155 5 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	##	250	1	1	0 102	0 0106		0 0405		0.260
## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 21 0 1.0000 0.0000 1.0000 1.0000 ## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 75 4 2 0.1905 0.0857 0.0789 0.460 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 100 0.350 0.0952 0.0641 0.0255 0.356 ## 100 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 150 5 2 0.2188 0.0731 0.1137 0.421 ## 150 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350		200	-		0.103	0.0400		0.0400		0.200
## 1 21 0 1.0000 0.0000 1.0000 1.0000 ## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## 250 0.356 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	##	200	4					0.0400		0.200
## 25 11 10 0.5238 0.1090 0.3484 0.788 ## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 75 4 2 0.1905 0.0857 0.0789 0.460 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 125 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## # 1 32 0 0.0952 0.0641 0.0255 0.356 ## 1 32 0 0.0952 0.0641 0.0255 0.356 ## 1 32 0 0.0952 0.0641 0.0255 0.356 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 155 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	## ##			subj=	=010, dayo	ofwear=2				
## 50 6 5 0.2857 0.0986 0.1453 0.562 ## 75 4 2 0.1905 0.0857 0.0789 0.460 ## 100 4 0 0.1905 0.0857 0.0789 0.460 ## 125 4 0 0.1905 0.0857 0.0789 0.460 ## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## # \$time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 155 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	## ## ##	time	n.risk	subj= n.event	=010, dayo survival	ofwear=2 std.err	lower	95% CI	upper	95% CI
## 75	## ## ## ##	time 1	n.risk 21	subj= n.event 0	=010, dayo survival 1.0000	ofwear=2 std.err 0.0000	lower	95% CI 1.0000	upper	95% CI 1.000
## 100	## ## ## ##	time 1 25	n.risk 21 11	subj= n.event 0 10	=010, dayo survival 1.0000 0.5238	ofwear=2 std.err 0.0000 0.1090	lower	95% CI 1.0000 0.3484	upper	95% CI 1.000 0.788
## 125	## ## ## ## ##	time 1 25 50	n.risk 21 11 6	subj= n.event 0 10	=010, dayo survival 1.0000 0.5238 0.2857	ofwear=2 std.err 0.0000 0.1090 0.0986	lower	95% CI 1.0000 0.3484 0.1453	upper	95% CI 1.000 0.788 0.562
## 150 3 1 0.1429 0.0764 0.0501 0.407 ## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## ** ## **subj=010, dayofwear=3 ## ** time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	## ## ## ## ## ##	time 1 25 50 75	n.risk 21 11 6 4	subj= n.event 0 10 5	=010, dayo survival 1.0000 0.5238 0.2857 0.1905	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857	lower	95% CI 1.0000 0.3484 0.1453 0.0789	upper	95% CI 1.000 0.788 0.562 0.460
## 175 3 0 0.1429 0.0764 0.0501 0.407 ## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## ## subj=010, dayofwear=3 ## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	## ## ## ## ## ##	time 1 25 50 75 100	n.risk 21 11 6 4	subj= n.event 0 10 5 2	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789	upper	95% CI 1.000 0.788 0.562 0.460 0.460
## 200 2 1 0.0952 0.0641 0.0255 0.356 ## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## ## subj=010, dayofwear=3 ## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350	## ## ## ## ## ##	time 1 25 50 75 100 125	n.risk 21 11 6 4 4	subj= n.event 0 10 5 2 0	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1905	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789	upper	95% CI 1.000 0.788 0.562 0.460 0.460
## 225 2 0 0.0952 0.0641 0.0255 0.356 ## 250 2 0 0.0952 0.0641 0.0255 0.356 ## ## subj=010, dayofwear=3 ## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319	## ## ## ## ## ## ##	time 1 25 50 75 100 125 150	n.risk 21 11 6 4 4 4 3	subj= n.event 0 10 5 2 0 0	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1905 0.1429	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0857	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501	upper	95% CI 1.000 0.788 0.562 0.460 0.460 0.460 0.407
## 250 2 0 0.0952 0.0641 0.0255 0.356 ## ## subj=010, dayofwear=3 ## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319	## ## ## ## ## ## ## ##	time 1 25 50 75 100 125 150 175	n.risk 21 11 6 4 4 3 3	subj= n.event 0 10 5 2 0 1 0 1	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1905 0.1429 0.1429	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0857 0.0764	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501	upper	95% CI 1.000 0.788 0.562 0.460 0.460 0.460 0.407
##	## ## ## ## ## ## ## ##	time 1 25 50 75 100 125 150 175 200	n.risk 21 11 6 4 4 3 3	subj= n.event 0 10 5 2 0 0	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1905 0.1429 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0857 0.0764 0.0764	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501 0.0501	upper	95% CI 1.000 0.788 0.562 0.460 0.460 0.460 0.407 0.407
## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319	######################################	time 1 25 50 75 100 125 150 175 200 225	n.risk 21 11 6 4 4 3 3 2	subj= n.event 0 10 5 2 0 1 0 1 0 1	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1905 0.1429 0.0952 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501 0.0501 0.0255	upper	95% CI 1.000 0.788 0.562 0.460 0.460 0.460 0.407 0.407 0.356 0.356
## time n.risk n.event survival std.err lower 95% CI upper 95% CI ## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319	######################################	time 1 25 50 75 100 125 150 175 200 225	n.risk 21 11 6 4 4 3 3 2	subj= n.event 0 10 5 2 0 1 0 1 0 1	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1905 0.1429 0.0952 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501 0.0501 0.0255	upper	95% CI 1.000 0.788 0.562 0.460 0.460 0.460 0.407 0.407 0.356 0.356
## 1 32 0 1.0000 0.0000 1.0000 1.0000 ## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225	n.risk 21 11 6 4 4 3 3 2	subj= n.event 0 10 5 2 0 0 1 0 1 0 0	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.1429 0.0952 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641	lower	95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501 0.0501 0.0255	upper	95% CI 1.000 0.788 0.562 0.460 0.460 0.460 0.407 0.407 0.356 0.356
## 25 20 12 0.6250 0.0856 0.4779 0.817 ## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	## ## ## ## ## ## ## ## ##	time 1 25 50 75 100 125 150 175 200 225 250	n.risk 21 11 6 4 4 3 3 2 2	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj=	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.1429 0.0952 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.407 0.356 0.356
## 50 14 6 0.4375 0.0877 0.2954 0.648 ## 75 13 1 0.4062 0.0868 0.2672 0.618 ## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225 250	n.risk 21 11 6 4 4 3 3 2 2 2	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 ofwear=3 std.err		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.407 0.356 0.356
## 100 9 4 0.2812 0.0795 0.1616 0.489 ## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225 250	n.risk 21 11 6 4 4 3 3 2 2 2 2	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 ofwear=3 std.err 0.0000		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.407 0.356 0.356 0.356
## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	## ## ## ## ## ## ## ## ## ##	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25	n.risk 21 11 6 4 4 3 3 2 2 2 2 n.risk 32 20	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 0.0641 0.0641 0.0641		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356
## 125 7 2 0.2188 0.0731 0.1137 0.421 ## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25 50	n.risk 21 11 6 4 4 3 3 2 2 2 2 n.risk 32 20 14	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12 6	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250 0.4375	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 0.0641 0.0641 0.0641 0.0641		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356 1.000 0.817 0.648
## 150 5 2 0.1562 0.0642 0.0698 0.350 ## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25 50 75	n.risk 21 11 6 4 4 3 3 2 2 2 2 n.risk 32 20 14 13	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12 6 1	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250 0.4375 0.4062	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 ofwear=3 std.err 0.0000 0.0856 0.0877 0.0868		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356
## 175 5 0 0.1562 0.0642 0.0698 0.350 ## 200 3 2 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25 50 75 100	n.risk 21 11 6 4 4 3 3 2 2 2 2 n.risk 32 20 14 13 9	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12 6 1 4	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250 0.4375 0.4062 0.2812	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 0.0641 ofwear=3 std.err 0.0000 0.0856 0.0877 0.0868 0.0795		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356 0.356
	######################################	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25 50 75 100 125	n.risk 21 11 6 4 4 3 3 2 2 2 2 n.risk 32 20 14 13 9 7	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12 6 1 4 2	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250 0.4375 0.4062 0.2812 0.2188	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 ofwear=3 std.err 0.0000 0.0856 0.0877 0.0868 0.0795 0.0731		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356 0.356
## 225 3 0 0.0938 0.0515 0.0319 0.275	######################################	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25 50 75 100 125 150	n.risk 21 11 6 4 4 3 3 2 2 2 2 n.risk 32 20 14 13 9 7	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12 6 1 4 2 2	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250 0.4375 0.4062 0.2812 0.2188 0.1562	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 ofwear=3 std.err 0.0000 0.0856 0.0877 0.0868 0.0795 0.0731 0.0642		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356 0.356 0.356
	######################################	time 1 25 50 75 100 125 150 175 200 225 250 time 1 25 50 75 100 125 150 175	n.risk 21 11 6 4 4 3 3 2 2 2 2 2 14 13 9 7 5	subj= n.event 0 10 5 2 0 0 1 0 1 0 subj= n.event 0 12 6 1 4 2 2 0	=010, dayo survival 1.0000 0.5238 0.2857 0.1905 0.1905 0.1429 0.0952 0.0952 0.0952 =010, dayo survival 1.0000 0.6250 0.4375 0.4062 0.2812 0.2188 0.1562 0.1562	ofwear=2 std.err 0.0000 0.1090 0.0986 0.0857 0.0857 0.0764 0.0764 0.0641 0.0641 ofwear=3 std.err 0.0000 0.0856 0.0877 0.0868 0.0795 0.0731 0.0642 0.0642		95% CI 1.0000 0.3484 0.1453 0.0789 0.0789 0.0501 0.0501 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255		95% CI 1.000 0.788 0.562 0.460 0.460 0.407 0.356 0.356 0.356 0.356 0.356 0.356

##	250	3	0	0.0938	0.0515	0.0319	0.275
##		subj=010, dayofwear=4					
##	+:	n miale	•	•		lorrom OE% CT	unnon OE% CT
## ##	time	11.11sk 20	n.event	1.00	0.0000	lower 95% CI 1.0000	1.000
##	25	16	4	0.80	0.0894	0.6426	0.996
##	50	8	8	0.40	0.1095	0.2339	0.684
##	75	4	4	0.20	0.0894	0.0832	0.481
##	100	2	2	0.10	0.0671	0.0269	0.372
##	125	1	1	0.10	0.0487	0.0074	0.338
##	150	1	0	0.05	0.0487	0.0074	0.338
##	175	1	0	0.05	0.0487	0.0074	0.338
##	200	1	0	0.05	0.0487	0.0074	0.338
##	225	1	0	0.05	0.0487	0.0074	0.338
##	250	1	0	0.05	0.0487	0.0074	0.338
##		_	·		0.010.	0.00.1	0.000
##			subi:	=010, dayo	ofwear=5		
##	time	n.risk	•	•		lower 95% CI	upper 95% CI
##	1	23	0	1.0000	0.0000	1.00000	1.000
##	25	16	7	0.6957	0.0959	0.53088	0.912
##	50	11	5	0.4783	0.1042	0.31209	0.733
##	75	8	3	0.3478	0.0993	0.19876	0.609
##	100	3	5	0.1304	0.0702	0.04541	0.375
##	125	3	0	0.1304	0.0702	0.04541	0.375
##	150	3	0	0.1304	0.0702	0.04541	0.375
##	175	3	0	0.1304	0.0702	0.04541	0.375
##	200	2	1	0.0870	0.0588	0.02313	0.327
##	225	2	0	0.0870	0.0588	0.02313	0.327
##	250	1	1	0.0435	0.0425	0.00639	0.296
##							
##			subj:	=010, dayo	ofwear=6		
##	time	n.risk	${\tt n.event}$	survival	${\tt std.err}$	lower 95% CI	upper 95% CI
##	1	29	0	1.0000	0.0000	1.00000	1.000
##	25	19	10	0.6552	0.0883	0.50313	0.853
##	50	11	8	0.3793	0.0901	0.23812	0.604
##	75	7	4	0.2414	0.0795	0.12661	0.460
##	100	4	3	0.1379	0.0640	0.05553	0.343
##	125	3	1	0.1034	0.0566	0.03543	0.302
##	150	3	0	0.1034	0.0566	0.03543	0.302
##	175	3	0	0.1034	0.0566	0.03543	0.302
##	200	2	1	0.0690	0.0471	0.01811	0.263
##	225	1	1	0.0345	0.0339	0.00503	0.237
##	250	1	0	0.0345	0.0339	0.00503	0.237
##				0.4.0			
##		. ,	•	=016, dayo		3 05% GT	05% 07
##						lower 95% CI	
##	1	10	0	1.0	0.0000	1.0000	1.000
##	25 50	3	7	0.3	0.1449	0.1164	0.773
##	50	2	1	0.2	0.1265	0.0579	0.691
##	75 100	2	0	0.2	0.1265	0.0579	0.691
##	100	2	0	0.2	0.1265	0.0579	0.691
## ##	125 150	2 1	0	0.2	0.1265 0.0949	0.0579 0.0156	0.691 0.642
##				() [U U949	0.0150	0.042
##	175	1	0	0.1	0.0949	0.0156	0.642

```
200
                              0.1 0.0949
                                                                0.642
##
                       0
                                                 0.0156
     225
##
              1
                       0
                              0.1 0.0949
                                                 0.0156
                                                                0.642
##
     250
                              0.1 0.0949
                                                 0.0156
                                                                0.642
                       0
##
                   subj=016, dayofwear=1
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                       0
                           1.0000 0.0000
                                                1.00000
                                                                1.000
      25
             22
                       9
                           0.7097 0.0815
                                                                0.889
##
                                                0.56660
##
      50
             14
                       8
                           0.4516 0.0894
                                                0.30641
                                                                0.666
                           0.3226 0.0840
##
      75
             10
                       4
                                                0.19368
                                                                0.537
##
     100
             10
                           0.3226 0.0840
                                                0.19368
                                                                0.537
##
     125
              6
                           0.1935 0.0710
                       4
                                                0.09435
                                                                0.397
##
     150
              5
                           0.1613 0.0661
                       1
                                                0.07227
                                                                0.360
##
     175
                           0.1290 0.0602
              4
                       1
                                                0.05170
                                                                0.322
##
     200
              3
                       1
                           0.0968 0.0531
                                                0.03301
                                                                0.284
##
     225
              2
                       1
                           0.0645 0.0441
                                                0.01689
                                                                0.247
##
     250
              1
                       1
                           0.0323 0.0317
                                                0.00469
                                                                0.222
##
##
                   subj=016, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       1
             33
                       0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
      25
             21
                      12
                            0.636 0.0837
                                                 0.4917
                                                                0.824
##
      50
                       7
                            0.424 0.0860
                                                 0.2851
                                                                0.631
             14
##
      75
             13
                       1
                            0.394 0.0851
                                                 0.2580
                                                                0.601
##
              9
                            0.273 0.0775
     100
                       4
                                                 0.1562
                                                                0.476
##
     125
              6
                       3
                            0.182 0.0671
                                                 0.0882
                                                                0.375
##
     150
              6
                       0
                            0.182 0.0671
                                                 0.0882
                                                                0.375
##
     175
              6
                       0
                            0.182 0.0671
                                                 0.0882
                                                                0.375
##
     200
              6
                       0
                            0.182 0.0671
                                                 0.0882
                                                                0.375
##
     225
              6
                       0
                            0.182 0.0671
                                                 0.0882
                                                                0.375
##
     250
                       0
                            0.182 0.0671
              6
                                                 0.0882
                                                                0.375
##
##
                    subj=016, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       0
                             1.00 0.0000
                                                                1.000
##
      1
             25
                                                 1.0000
                             0.64 0.0960
      25
             16
                       9
##
                                                 0.4770
                                                                0.859
##
      50
             11
                       5
                             0.44 0.0993
                                                 0.2827
                                                                0.685
##
      75
             11
                       0
                             0.44 0.0993
                                                 0.2827
                                                                0.685
              9
                       2
                             0.36 0.0960
##
     100
                                                 0.2135
                                                                0.607
##
     125
                             0.32 0.0933
                                                                0.567
              8
                       1
                                                 0.1807
##
     150
              7
                       1
                             0.28 0.0898
                                                 0.1493
                                                                0.525
##
     175
              4
                       3
                             0.16 0.0733
                                                 0.0652
                                                                0.393
##
     200
              4
                       0
                             0.16 0.0733
                                                 0.0652
                                                                0.393
##
     225
              4
                       0
                             0.16 0.0733
                                                 0.0652
                                                                0.393
##
     250
                       0
                             0.16 0.0733
                                                 0.0652
                                                                0.393
##
##
                    subj=016, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.00 0.0000
##
      1
             25
                       0
                                                 1.0000
                                                                1.000
##
      25
             14
                      11
                             0.56 0.0993
                                                 0.3956
                                                                0.793
                       7
                             0.28 0.0898
##
      50
              7
                                                 0.1493
                                                                0.525
      75
              7
                       0
                             0.28 0.0898
##
                                                 0.1493
                                                                0.525
##
     100
              6
                       1
                             0.24 0.0854
                                                 0.1195
                                                                0.482
##
     125
              5
                       1
                             0.20 0.0800
                                                 0.0913
                                                                0.438
```

```
150
                          0.12 0.0650
                                            0.0415
                                                          0.347
##
                          0.12 0.0650
                                             0.0415
##
    175
             3
                     0
                                                          0.347
                                            0.0415
    200
                          0.12 0.0650
##
             3
                     0
                                                          0.347
##
    225
             3
                     0
                          0.12 0.0650
                                             0.0415
                                                          0.347
                          0.08 0.0543
    250
             2
##
                     1
                                             0.0212
                                                          0.302
##
##
                 subj=016, dayofwear=5
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                 0 1.0000 0.0000
##
            35
                                             1.0000
                                                          1.000
                        0.5714 0.0836
                                                          0.761
##
     25
            20
                    15
                                            0.4289
     50
                                                          0.628
##
            15
                    5
                        0.4286 0.0836
                                            0.2923
##
     75
            10
                     5
                        0.2857 0.0764
                                            0.1692
                                                          0.482
##
    100
            8
                     2
                        0.2286 0.0710
                                            0.1244
                                                          0.420
##
    125
            6
                     2
                        0.1714 0.0637
                                            0.0827
                                                          0.355
##
    150
            5
                   1
                        0.1429 0.0591
                                           0.0635
                                                          0.322
    175
                        0.1429 0.0591
                                                          0.322
##
            5
                    0
                                           0.0635
##
    200
           5
                     0
                        0.1429 0.0591
                                           0.0635
                                                          0.322
    225
##
           4
                        0.1143 0.0538
                                           0.0454
                                                          0.287
                     1
    250
                        0.0857 0.0473
                                             0.0290
                                                          0.253
##
             3
                     1
##
##
                 subj=016, dayofwear=6
##
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             5
                     0
                           1.0 0.000
                                             1.0000
     1
                                                              1
                           0.8 0.179
             4
                                            0.5161
##
     25
                     1
##
     50
             2
                     2
                           0.4 0.219
                                           0.1367
                           0.2 0.179
##
     75
            1
                    1
                                            0.0346
##
    100
             1
                    0
                           0.2 0.179
                                            0.0346
                                                              1
##
    125
             1
                    0
                           0.2 0.179
                                            0.0346
                                                              1
##
    150
                   0
                         0.2
                                 0.179
                                            0.0346
            1
                                                              1
##
    175
            1
                   0
                          0.2 0.179
                                            0.0346
                                                              1
                                            0.0346
##
    200
                    0
                           0.2 0.179
            1
                                                              1
##
    225
             1
                     0
                           0.2 0.179
                                            0.0346
                                                              1
##
    250
             1
                     0
                           0.2 0.179
                                             0.0346
##
                  subj=019, dayofwear=0
##
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                         1.000 0.0000
                                        1.0000
##
     1
            14
                    0
                                                          1.000
##
     25
             2
                    12
                          0.143 0.0935
                                             0.0396
                                                          0.515
##
##
                 subj=019, dayofwear=1
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
                       1.0000 0.0000
                                           1.0000
                                                          1.000
##
     1
            49
                    0
                        0.7755 0.0596
##
     25
            39
                    11
                                            0.6671
                                                          0.902
##
     50
            21
                    17
                        0.4286 0.0707
                                            0.3102
                                                          0.592
##
     75
           15
                     6
                        0.3061 0.0658
                                            0.2008
                                                          0.467
    100
                        0.2245 0.0596
                                                          0.378
##
           11
                     4
                                           0.1334
           6
                        0.1224 0.0468
##
    125
                     5
                                            0.0579
                                                          0.259
##
    150
           3
                     3
                        0.0612 0.0342
                                           0.0205
                                                          0.183
##
    175
           2
                         0.0408 0.0283
                                             0.0105
                                                          0.159
                    1
                        0.0408 0.0283
                                                          0.159
##
    200
            2
                     0
                                             0.0105
##
##
                  subj=019, dayofwear=2
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
                0 1.0000 0.0000
##
    1 48
                                        1.0000
                                                          1.000
```

```
25
             28
                      20
                            0.5833 0.0712
                                                  0.4593
                                                                 0.741
##
                                                                 0.431
##
      50
             13
                      15
                            0.2708 0.0641
                                                  0.1703
                                                                 0.362
##
      75
             10
                       3
                            0.2083 0.0586
                                                  0.1200
##
     100
              6
                       4
                            0.1250
                                   0.0477
                                                  0.0591
                                                                 0.264
                       2
##
     125
              4
                            0.0833
                                   0.0399
                                                  0.0326
                                                                 0.213
##
     150
              1
                       3
                            0.0208 0.0206
                                                  0.0030
                                                                 0.145
##
     175
                       0
                            0.0208 0.0206
                                                  0.0030
                                                                 0.145
##
##
                    subj=019, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             41
                       0
                            1.0000 0.0000
                                                 1.00000
                                                                 1.000
##
      25
             25
                      16
                            0.6098 0.0762
                                                 0.47732
                                                                 0.779
##
      50
             22
                            0.5366
                                   0.0779
                                                 0.40374
                                                                 0.713
                       3
##
      75
             15
                       7
                                   0.0752
                                                                 0.547
                            0.3659
                                                 0.24451
##
     100
              9
                       6
                            0.2195
                                   0.0646
                                                 0.12325
                                                                 0.391
              7
                       2
##
     125
                            0.1707 0.0588
                                                 0.08696
                                                                 0.335
##
     150
              4
                       3
                            0.0976 0.0463
                                                 0.03846
                                                                 0.248
##
     175
              3
                            0.0732
                                   0.0407
                                                 0.02462
                                                                 0.217
                       1
                            0.0488
##
     200
              2
                       1
                                   0.0336
                                                 0.01262
                                                                 0.188
     225
              1
                            0.0244 0.0241
##
                       1
                                                 0.00352
                                                                 0.169
##
##
                    subj=019, dayofwear=4
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.0000 0.0000
##
       1
             38
                       0
                                                  1.0000
                                                                 1.000
                            0.6579 0.0770
##
             25
                                                                 0.827
      25
                      13
                                                  0.5231
##
      50
             11
                      14
                            0.2895
                                   0.0736
                                                  0.1759
                                                                 0.476
##
      75
              5
                       6
                            0.1316
                                   0.0548
                                                  0.0581
                                                                 0.298
##
     100
              1
                       4
                            0.0263 0.0260
                                                  0.0038
                                                                 0.182
                            0.0263 0.0260
##
     125
              1
                       0
                                                  0.0038
                                                                 0.182
##
                    subj=019, dayofwear=5
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             53
                           1.0000 0.0000
                                                  1.0000
                                                                 1.000
       1
                       0
      25
             27
                            0.5094 0.0687
                                                  0.3912
                                                                 0.663
##
                      26
      50
             16
                            0.3019
                                   0.0631
                                                  0.2005
                                                                 0.455
##
                      11
      75
##
             10
                       6
                            0.1887 0.0537
                                                  0.1080
                                                                 0.330
##
     100
                       6
                            0.0755 0.0363
                                                  0.0294
                                                                 0.194
##
                    subj=019, dayofwear=6
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             49
                       0
                           1.0000 0.0000
                                                 1.00000
                                                                 1.000
                            0.5102 0.0714
                                                                 0.671
##
      25
             25
                      24
                                                 0.38779
##
      50
             10
                      15
                            0.2041 0.0576
                                                 0.11740
                                                                 0.355
##
      75
              6
                       4
                            0.1224
                                   0.0468
                                                 0.05787
                                                                 0.259
                       2
##
     100
                            0.0816
                                   0.0391
                                                 0.03192
                                                                 0.209
                            0.0204 0.0202
##
     125
              1
                       3
                                                 0.00293
                                                                 0.142
##
##
                    subj=027, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             18
                       0
                            1.000
                                   0.000
                                                   1.000
                                                                 1.000
##
       1
      25
##
             10
                       8
                            0.556
                                     0.117
                                                   0.368
                                                                 0.840
             10
                            0.556
                                     0.117
                                                                 0.840
##
      50
                       0
                                                   0.368
                            0.556
##
      75
             10
                       0
                                     0.117
                                                   0.368
                                                                 0.840
##
     100
              9
                       1
                            0.500
                                     0.118
                                                   0.315
                                                                 0.794
```

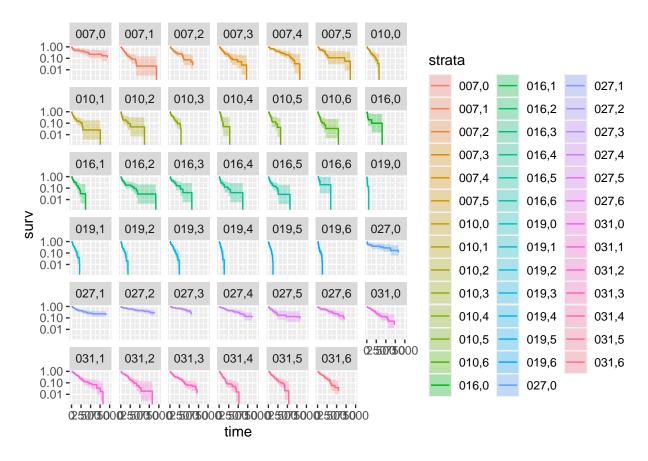
```
125
                             0.444
                                     0.117
                                                    0.265
                                                                  0.745
##
                       1
     150
                                                                  0.694
##
               7
                       1
                             0.389
                                     0.115
                                                    0.218
                                                                  0.694
##
     175
               7
                             0.389
                                     0.115
                                                    0.218
                       0
##
     200
               7
                       0
                             0.389
                                     0.115
                                                    0.218
                                                                  0.694
               7
                             0.389
##
     225
                       0
                                     0.115
                                                    0.218
                                                                  0.694
##
     250
               7
                       0
                             0.389
                                     0.115
                                                    0.218
                                                                  0.694
##
                    subj=027, dayofwear=1
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
##
              44
                       0
                                                    1.000
                                                                  1.000
       1
                             0.909 0.0433
##
      25
              40
                       4
                                                    0.828
                                                                  0.998
##
      50
              36
                       4
                             0.818 0.0581
                                                    0.712
                                                                  0.940
##
      75
              31
                       5
                             0.705 0.0688
                                                                  0.853
                                                    0.582
##
     100
              26
                       5
                             0.591 0.0741
                                                    0.462
                                                                  0.756
##
     125
              25
                       1
                             0.568 0.0747
                                                    0.439
                                                                  0.735
##
     150
              22
                       3
                             0.500 0.0754
                                                    0.372
                                                                  0.672
##
     175
              21
                       1
                             0.477 0.0753
                                                    0.350
                                                                  0.650
##
     200
              19
                       2
                             0.432
                                   0.0747
                                                    0.308
                                                                  0.606
                                                                  0.606
##
     225
              19
                       0
                             0.432 0.0747
                                                    0.308
##
     250
              19
                       0
                             0.432 0.0747
                                                                  0.606
                                                    0.308
##
##
                    subj=027, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
##
       1
              32
                       0
                                                    1.000
                                                                  1.000
##
              28
                       4
                             0.875 0.0585
                                                    0.768
                                                                  0.997
      25
##
      50
              25
                       3
                             0.781 0.0731
                                                    0.650
                                                                  0.938
                             0.719 0.0795
##
      75
              23
                       2
                                                    0.579
                                                                  0.893
##
     100
              23
                       0
                             0.719 0.0795
                                                    0.579
                                                                  0.893
##
     125
              23
                       0
                             0.719 0.0795
                                                                  0.893
                                                    0.579
##
     150
              23
                       0
                             0.719 0.0795
                                                                  0.893
                                                    0.579
                             0.656 0.0840
##
     175
                       2
              21
                                                    0.511
                                                                  0.843
##
     200
              19
                       2
                             0.594 0.0868
                                                    0.446
                                                                  0.791
##
     225
              19
                       0
                             0.594
                                   0.0868
                                                    0.446
                                                                  0.791
                             0.594 0.0868
##
     250
              19
                       0
                                                    0.446
                                                                  0.791
##
##
                    subj=027, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
              28
                       0
                             1.000 0.0000
                                                    1.000
                                                                  1.000
      25
              26
                       2
                             0.929 0.0487
                                                                  1.000
##
                                                    0.838
##
      50
              24
                       2
                             0.857 0.0661
                                                    0.737
                                                                  0.997
##
      75
              22
                       2
                             0.786 0.0775
                                                    0.648
                                                                  0.953
                             0.786 0.0775
##
     100
              22
                       0
                                                    0.648
                                                                  0.953
##
     125
              22
                       0
                             0.786 0.0775
                                                    0.648
                                                                  0.953
##
     150
              20
                       2
                             0.714 0.0854
                                                    0.565
                                                                  0.903
##
     175
              19
                       1
                             0.679
                                   0.0883
                                                    0.526
                                                                  0.876
                             0.679
##
     200
              19
                       0
                                   0.0883
                                                    0.526
                                                                  0.876
##
     225
              19
                       0
                             0.679
                                   0.0883
                                                    0.526
                                                                  0.876
##
     250
              19
                       0
                             0.679 0.0883
                                                    0.526
                                                                  0.876
##
##
                    subj=027, dayofwear=4
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             1.000 0.0000
##
              37
                       0
                                                    1.000
                                                                  1.000
       1
      25
                       5
                             0.865 0.0562
                                                    0.761
                                                                  0.982
##
              32
##
      50
              30
                       2
                             0.811 0.0644
                                                    0.694
                                                                  0.947
```

```
75
             28
                            0.757 0.0705
                                                  0.630
                                                                0.908
##
     100
                            0.730 0.0730
                                                  0.600
##
             27
                       1
                                                                0.888
##
     125
             25
                            0.676 0.0770
                                                  0.540
                                                                0.845
##
     150
             23
                       2
                            0.622 0.0797
                                                  0.483
                                                                0.799
                       2
                            0.568 0.0814
##
     175
             21
                                                  0.428
                                                                0.752
##
     200
             19
                       2
                            0.514 0.0822
                                                  0.375
                                                                0.703
##
     225
             17
                       2
                            0.459 0.0819
                                                  0.324
                                                                0.652
                            0.432 0.0814
##
     250
             16
                       1
                                                  0.299
                                                                0.626
##
##
                   subj=027, dayofwear=5
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                      0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
      1
             23
##
      25
             17
                       6
                            0.739 0.0916
                                                 0.5798
                                                                0.942
##
      50
             14
                            0.609 0.1018
                                                 0.4386
                                                                0.845
                       3
##
      75
             14
                      0
                            0.609 0.1018
                                                 0.4386
                                                                0.845
                      2
##
     100
             12
                            0.522 0.1042
                                                 0.3528
                                                                0.772
##
     125
              9
                      3
                            0.391 0.1018
                                                 0.2350
                                                                0.651
##
     150
                            0.348 0.0993
                                                 0.1988
                                                                0.609
              8
                      1
##
     175
              7
                      1
                            0.304 0.0959
                                                 0.1641
                                                                0.565
##
     200
              7
                      0
                            0.304 0.0959
                                                                0.565
                                                 0.1641
##
     225
              6
                       1
                            0.261 0.0916
                                                 0.1311
                                                                0.519
##
     250
                       2
                            0.174 0.0790
                                                 0.0714
                                                                0.424
##
                   subj=027, dayofwear=6
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             26
                       0
                            1.000 0.0000
                                                  1.000
                                                                1.000
##
      25
             23
                       3
                            0.885 0.0627
                                                  0.770
                                                                1.000
##
      50
             20
                       3
                            0.769 0.0826
                                                  0.623
                                                                0.949
      75
##
             16
                       4
                            0.615 0.0954
                                                  0.454
                                                                0.834
##
     100
             15
                            0.577 0.0969
                                                  0.415
                                                                0.802
                       1
##
     125
                            0.577 0.0969
                                                                0.802
             15
                      0
                                                  0.415
##
     150
             15
                      0
                            0.577 0.0969
                                                  0.415
                                                                0.802
##
     175
             15
                      0
                            0.577 0.0969
                                                  0.415
                                                                0.802
                            0.538 0.0978
##
     200
             14
                                                  0.377
                                                                0.769
                       1
##
     225
                       0
                            0.538 0.0978
                                                                0.769
             14
                                                  0.377
                            0.462 0.0978
##
     250
             12
                       2
                                                  0.305
                                                                0.699
##
##
                   subj=031, dayofwear=0
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             39
                       0
                            1.000 0.0000
                                                  1.000
                                                                1.000
      1
             33
                            0.846 0.0578
                                                  0.740
##
      25
                       6
                                                                0.967
      50
             30
                            0.769 0.0675
                                                                0.914
##
                       3
                                                  0.648
##
      75
             28
                       2
                            0.718 0.0721
                                                  0.590
                                                                0.874
##
     100
             25
                       3
                            0.641 0.0768
                                                  0.507
                                                                0.811
##
     125
             21
                       4
                            0.538 0.0798
                                                  0.403
                                                                0.720
                       2
##
     150
             19
                            0.487 0.0800
                                                  0.353
                                                                0.672
##
     175
             16
                       3
                            0.410 0.0788
                                                  0.282
                                                                0.598
##
     200
             15
                       1
                            0.385 0.0779
                                                  0.259
                                                                0.572
##
                            0.333 0.0755
     225
             13
                       2
                                                  0.214
                                                                0.520
##
     250
              9
                       4
                            0.231 0.0675
                                                                0.409
                                                  0.130
##
##
                   subj=031, dayofwear=1
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             57
                      0 1.000 0.0000
                                                  1.000
##
       1
                                                                1.000
```

```
25
             51
                            0.895 0.0406
                                                   0.819
                                                                 0.978
##
                       6
##
      50
             45
                       6
                            0.789 0.0540
                                                   0.690
                                                                 0.903
##
      75
             40
                            0.702 0.0606
                                                   0.592
                                                                0.831
                       5
##
     100
             32
                       8
                            0.561 0.0657
                                                   0.446
                                                                 0.706
##
     125
             29
                       3
                            0.509 0.0662
                                                   0.394
                                                                 0.657
##
     150
             25
                       4
                            0.439 0.0657
                                                   0.327
                                                                0.588
##
     175
             23
                       3
                            0.386
                                   0.0645
                                                   0.278
                                                                 0.535
##
     200
             18
                       4
                            0.316
                                   0.0616
                                                   0.215
                                                                0.463
##
     225
             14
                       4
                            0.246 0.0570
                                                   0.156
                                                                 0.387
##
     250
             13
                       1
                            0.228 0.0556
                                                   0.141
                                                                 0.368
##
##
                    subj=031, dayofwear=2
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            1.000 0.0000
             53
                       0
                                                   1.000
                                                                 1.000
      1
                            0.849 0.0492
##
      25
             45
                       8
                                                   0.758
                                                                 0.951
##
      50
             36
                       9
                            0.679 0.0641
                                                   0.565
                                                                0.817
##
      75
             31
                       5
                            0.585 0.0677
                                                   0.466
                                                                0.734
##
             30
                            0.566 0.0681
     100
                       1
                                                   0.447
                                                                 0.717
##
     125
             24
                       6
                            0.453 0.0684
                                                   0.337
                                                                0.609
##
     150
             23
                       1
                            0.434 0.0681
                                                   0.319
                                                                0.590
##
     175
             21
                       2
                            0.396 0.0672
                                                   0.284
                                                                0.552
##
     200
             16
                       5
                            0.302 0.0631
                                                   0.200
                                                                 0.455
##
     225
                            0.226 0.0575
                                                                 0.372
             12
                       4
                                                   0.138
                       2
##
     250
             10
                            0.189 0.0537
                                                   0.108
                                                                 0.330
##
                    subj=031, dayofwear=3
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
             80
                       0
                            1.000 0.0000
                                                   1.000
                                                                 1.000
      25
             64
##
                      16
                            0.800 0.0447
                                                   0.717
                                                                 0.893
##
      50
             53
                            0.663 0.0529
                                                   0.567
                                                                 0.775
                      11
      75
                       7
                            0.575 0.0553
##
             46
                                                   0.476
                                                                0.694
##
     100
             34
                      12
                            0.425 0.0553
                                                   0.329
                                                                 0.548
##
     125
             27
                       7
                            0.337 0.0529
                                                   0.248
                                                                 0.459
##
     150
             26
                            0.325 0.0524
                                                   0.237
                                                                 0.446
                       1
     175
             25
                            0.312 0.0518
##
                       1
                                                   0.226
                                                                 0.433
##
     200
             23
                       2
                            0.287 0.0506
                                                   0.204
                                                                 0.406
##
     225
             21
                       2
                            0.262 0.0492
                                                   0.182
                                                                 0.379
##
     250
             18
                       3
                            0.225 0.0467
                                                   0.150
                                                                 0.338
##
##
                    subj=031, dayofwear=4
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                           1.0000 0.0000
##
       1
             63
                       0
                                                 1.0000
                                                                 1.000
##
      25
             52
                      11
                           0.8254 0.0478
                                                 0.7368
                                                                 0.925
##
      50
             38
                      14
                           0.6032 0.0616
                                                 0.4937
                                                                 0.737
##
      75
             31
                       7
                           0.4921 0.0630
                                                 0.3829
                                                                 0.632
##
     100
                      12
                           0.3016 0.0578
                                                 0.2071
                                                                0.439
             19
##
     125
             16
                       3
                           0.2540 0.0548
                                                                 0.388
                                                 0.1663
##
     150
             14
                       2
                           0.2222 0.0524
                                                 0.1400
                                                                0.353
##
                                                                 0.243
     175
              8
                       6
                           0.1270 0.0419
                                                 0.0665
##
     200
              6
                       2
                           0.0952 0.0370
                                                 0.0445
                                                                 0.204
##
     225
              6
                       0
                           0.0952 0.0370
                                                 0.0445
                                                                 0.204
##
                           0.0794 0.0341
     250
              5
                                                 0.0342
                                                                0.184
##
##
                    subj=031, dayofwear=5
```

```
time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
                       0
                            1.000 0.0000
                                                  1.000
                                                                1.000
      25
             44
                       5
                            0.898 0.0432
                                                  0.817
                                                                0.987
##
##
      50
             37
                       7
                            0.755 0.0614
                                                  0.644
                                                                0.886
##
      75
             24
                      13
                            0.490 0.0714
                                                  0.368
                                                                0.652
##
     100
             22
                       2
                            0.449 0.0711
                                                  0.329
                                                                0.612
##
     125
             20
                       2
                            0.408 0.0702
                                                  0.291
                                                                0.572
##
     150
             17
                       3
                            0.347 0.0680
                                                  0.236
                                                                0.509
##
     175
             12
                       5
                            0.245 0.0614
                                                  0.150
                                                                0.400
##
     200
             12
                       0
                            0.245 0.0614
                                                  0.150
                                                                0.400
##
     225
             10
                       2
                            0.204 0.0576
                                                  0.117
                                                                0.355
##
     250
              7
                       3
                            0.143 0.0500
                                                                0.284
                                                  0.072
##
##
                    subj=031, dayofwear=6
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             52
                       0
                            1.000 0.0000
                                                  1.000
                                                                1.000
##
      25
             48
                       4
                            0.923 0.0370
                                                  0.853
                                                                0.998
      50
             37
                            0.712 0.0628
                                                  0.598
                                                                0.846
##
                      11
##
      75
             32
                       5
                            0.615 0.0675
                                                  0.496
                                                                0.763
             27
                            0.519 0.0693
##
     100
                       5
                                                  0.400
                                                                0.674
##
     125
             25
                       2
                            0.481 0.0693
                                                  0.362
                                                                0.638
##
     150
             24
                       1
                            0.462 0.0691
                                                  0.344
                                                                0.619
##
                            0.365 0.0668
                                                  0.255
                                                                0.523
     175
             19
                       5
##
     200
             14
                       5
                            0.269 0.0615
                                                  0.172
                                                                0.421
##
     225
             14
                       1
                            0.250 0.0600
                                                  0.156
                                                               0.400
##
     250
             12
                       1
                            0.231 0.0584
                                                  0.140
                                                                0.379
autoplot(wearfit) +
  xlim(c(0,1000)) +
  facet_wrap(~strata) +
  scale_y_log10()
```

- ## Scale for y is already present.
- ## Adding another scale for y, which will replace the existing scale.
- ## Warning: Transformation introduced infinite values in continuous y-axis
- ## Transformation introduced infinite values in continuous y-axis
- ## Warning: Removed 38 rows containing missing values ('geom_step()').



We can see the plots for each of the subjects at the 60 day mark. Subject 007 only had the device for 6 days which makes reading this chart a little more difficult, but we can still see that day 0 may have an impact on time for subjects 007, 027, and 031.

I am going to now look at 90 days to see if there is much difference between the two.

'Figure 18'

```
wearfit <- survfit(Surv(dur s,status) ~ subj + dayofwear</pre>
                    data = result %>%
                      filter( dayofwear < 7) %>%
                     filter (trial == 90))
summary(wearfit, times = c(1,25*(1:10)))
## Call: survfit(formula = Surv(dur_s, status) ~ subj + dayofwear, data = result %>%
       filter(dayofwear < 7) %>% filter(trial == 90))
##
##
##
                    subj=007, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                                   0.0000
                                                 1.00000
                                                                 1.000
##
             26
                       0
                            1.0000
       1
##
      25
              18
                       8
                            0.6923
                                    0.0905
                                                 0.53581
                                                                 0.895
              14
                                    0.0978
                                                 0.37723
##
      50
                       4
                            0.5385
                                                                 0.769
##
      75
              8
                       6
                            0.3077
                                    0.0905
                                                 0.17287
                                                                 0.548
              6
                       2
##
     100
                            0.2308
                                    0.0826
                                                 0.11439
                                                                 0.466
##
     125
               2
                       4
                            0.0769
                                    0.0523
                                                 0.02031
                                                                 0.291
               2
                       0
                            0.0769
                                                 0.02031
                                                                 0.291
##
     150
                                    0.0523
```

```
175
                                                0.02031
                                                                0.291
##
                       0
                           0.0769 0.0523
##
     200
              2
                       0
                           0.0769 0.0523
                                                0.02031
                                                                0.291
##
     225
                           0.0385 0.0377
                                                0.00563
                                                                0.263
##
##
                   subj=007, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                       0
                           1.0000 0.0000
                                                1.00000
                                                                1.000
                           0.7222 0.0747
                                                                0.884
##
      25
             26
                      10
                                                0.58978
##
      50
             18
                       8
                           0.5000 0.0833
                                                0.36066
                                                                0.693
##
      75
             15
                       3
                           0.4167 0.0822
                                                0.28309
                                                                0.613
##
     100
             12
                       3
                           0.3333 0.0786
                                                0.21001
                                                                0.529
##
     125
              6
                           0.1667 0.0621
                       6
                                                0.08028
                                                                0.346
##
                       2
                           0.1111 0.0524
     150
              4
                                                0.04411
                                                                0.280
##
              2
                       2
                           0.0556 0.0382
     175
                                                0.01445
                                                                0.214
                           0.0278 0.0274
##
     200
              1
                       1
                                                0.00402
                                                                0.192
##
     225
              1
                       0
                           0.0278 0.0274
                                                0.00402
                                                                0.192
##
     250
              1
                       0
                           0.0278 0.0274
                                                0.00402
                                                                0.192
##
##
                   subj=007, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       1
             30
                       0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
      25
             20
                      10
                            0.667 0.0861
                                                 0.5176
                                                                0.859
##
                       7
                            0.433 0.0905
                                                 0.2878
                                                                0.652
      50
             13
##
      75
             10
                       3
                            0.333 0.0861
                                                 0.2010
                                                                0.553
##
     100
              8
                       2
                            0.267 0.0807
                                                                0.483
                                                 0.1473
##
     125
              7
                       1
                            0.233 0.0772
                                                 0.1220
                                                                0.446
##
     150
              5
                       2
                            0.167 0.0680
                                                 0.0749
                                                                0.371
##
     175
              5
                       0
                            0.167 0.0680
                                                 0.0749
                                                                0.371
                       2
##
     200
              3
                            0.100 0.0548
                                                 0.0342
                                                                0.293
                                                 0.0342
##
     225
              3
                       0
                            0.100 0.0548
                                                                0.293
##
     250
                       0
                            0.100 0.0548
              3
                                                 0.0342
                                                                0.293
##
##
                   subj=007, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                           1.0000 0.0000
##
      1
             55
                       0
                                                 1.0000
                                                                1.000
##
      25
             47
                       8
                           0.8545 0.0475
                                                 0.7663
                                                                0.953
##
      50
             34
                      13
                           0.6182 0.0655
                                                 0.5022
                                                                0.761
##
      75
             27
                       7
                           0.4909 0.0674
                                                 0.3751
                                                                0.643
##
     100
             21
                       6
                           0.3818 0.0655
                                                 0.2728
                                                                0.534
             14
##
     125
                       7
                           0.2545 0.0587
                                                 0.1619
                                                                0.400
##
     150
              9
                       5
                           0.1636
                                  0.0499
                                                 0.0900
                                                                0.297
##
     175
              8
                       1
                           0.1455 0.0475
                                                 0.0767
                                                                0.276
##
     200
              6
                       2
                           0.1091 0.0420
                                                 0.0513
                                                                0.232
##
     225
              6
                       0
                           0.1091 0.0420
                                                 0.0513
                                                                0.232
##
     250
                           0.0727 0.0350
                                                 0.0283
                                                                0.187
##
##
                   subj=007, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                           1.0000 0.0000
##
      1
             53
                       0
                                                 1.0000
                                                                1,000
##
      25
             44
                       9
                           0.8302 0.0516
                                                 0.7350
                                                                0.938
##
      50
             26
                      18
                           0.4906 0.0687
                                                 0.3729
                                                                0.645
##
      75
             17
                       9
                           0.3208 0.0641
                                                                0.475
                                                 0.2168
##
     100
             15
                       2
                           0.2830 0.0619
                                                 0.1844
                                                                0.434
##
     125
             10
                       5
                           0.1887 0.0537
                                                 0.1080
                                                                0.330
```

```
150
                           0.1321 0.0465
                                                 0.0662
                                                                0.263
##
##
     175
              6
                           0.1132 0.0435
                                                 0.0533
                                                                0.241
                       1
##
     200
                           0.0755 0.0363
                                                 0.0294
                                                                0.194
              4
##
     225
              3
                           0.0566 0.0317
                                                 0.0189
                                                                0.170
                       1
##
     250
              3
                       0
                           0.0566 0.0317
                                                 0.0189
                                                                0.170
##
##
                   subj=007, dayofwear=5
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
             64
                      0
                           1.0000 0.0000
                                                 1.0000
                                                                1.000
##
      25
             49
                      15
                           0.7656 0.0530
                                                 0.6686
                                                                0.877
##
      50
                      18
                           0.4844 0.0625
                                                 0.3762
                                                                0.624
##
      75
                           0.2344 0.0530
                                                                0.365
             15
                      16
                                                 0.1505
##
     100
                           0.1562 0.0454
                                                 0.0884
             10
                      5
                                                                0.276
##
              7
                           0.1094 0.0390
     125
                       3
                                                 0.0544
                                                                0.220
##
     150
              6
                      1
                           0.0938 0.0364
                                                 0.0438
                                                                0.201
##
     175
              6
                      0
                           0.0938 0.0364
                                                 0.0438
                                                                0.201
##
     200
              5
                       1
                           0.0781 0.0335
                                                 0.0337
                                                                0.181
##
     225
              5
                           0.0781 0.0335
                       0
                                                 0.0337
                                                                0.181
                           0.0781 0.0335
##
     250
              5
                      0
                                                 0.0337
                                                                0.181
##
##
                   subj=007, dayofwear=6
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                      0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
       1
             69
##
      25
             51
                      18
                            0.739 0.0529
                                                 0.6425
                                                                0.850
             41
                            0.594 0.0591
##
      50
                      10
                                                 0.4889
                                                                0.722
##
      75
             30
                      11
                            0.435 0.0597
                                                 0.3322
                                                                0.569
##
     100
             24
                      6
                            0.348 0.0573
                                                 0.2518
                                                                0.480
##
     125
             20
                       4
                            0.290 0.0546
                                                 0.2003
                                                                0.419
##
     150
             17
                       3
                            0.246 0.0519
                                                                0.372
                                                 0.1631
##
     175
             14
                      3
                            0.203 0.0484
                                                                0.324
                                                 0.1271
##
                       3
     200
             11
                            0.159 0.0441
                                                 0.0927
                                                                0.274
##
     225
             11
                       0
                            0.159 0.0441
                                                 0.0927
                                                                0.274
##
     250
              8
                       3
                            0.116 0.0385
                                                 0.0604
                                                                0.222
##
                   subj=010, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
             11
                      0
                           1.0000 0.0000
                                                 1.0000
                                                                1.000
##
      25
              9
                       2
                           0.8182 0.1163
                                                 0.6192
                                                                1.000
##
      50
              6
                       3
                           0.5455 0.1501
                                                 0.3180
                                                                0.936
##
      75
                           0.4545 0.1501
                                                                0.868
              5
                       1
                                                 0.2379
##
     100
              5
                       0
                           0.4545 0.1501
                                                 0.2379
                                                                0.868
##
     125
              3
                       2
                           0.2727 0.1343
                                                 0.1039
                                                                0.716
##
     150
              2
                       1
                           0.1818 0.1163
                                                 0.0519
                                                                0.637
##
     175
              1
                           0.0909 0.0867
                                                 0.0140
                                                                0.589
                       1
##
     200
              1
                       0
                           0.0909 0.0867
                                                 0.0140
                                                                0.589
                           0.0909 0.0867
##
     225
                       0
                                                 0.0140
                                                                0.589
              1
##
##
                   subj=010, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
             22
                      0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
##
      1
##
      25
             16
                       6
                            0.727 0.0950
                                                 0.5631
                                                                0.939
             13
##
      50
                      3
                            0.591 0.1048
                                                 0.4174
                                                                0.837
##
      75
              9
                      4
                            0.409 0.1048
                                                 0.2476
                                                                0.676
##
     100
              7
                      2
                            0.318 0.0993
                                                 0.1726
                                                                0.587
```

```
125
                            0.273 0.0950
                                                  0.1378
                                                                 0.540
##
                       1
                                                                 0.540
##
     150
              6
                       0
                            0.273 0.0950
                                                  0.1378
                                                                 0.491
##
     175
              5
                            0.227 0.0893
                                                  0.1052
                       1
##
     200
              5
                       0
                            0.227 0.0893
                                                  0.1052
                                                                 0.491
              5
##
     225
                       0
                            0.227 0.0893
                                                  0.1052
                                                                 0.491
##
     250
              3
                       2
                            0.136 0.0732
                                                  0.0476
                                                                 0.390
##
##
                    subj=010, dayofwear=2
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             19
                       0
                           1.0000 0.0000
                                                 1.00000
                                                                 1.000
      1
                           0.5789 0.1133
##
      25
             11
                       8
                                                 0.39455
                                                                 0.850
##
      50
              4
                       7
                           0.2105 0.0935
                                                 0.08814
                                                                 0.503
##
      75
              1
                       3
                           0.0526 0.0512
                                                 0.00781
                                                                 0.355
##
     100
                           0.0526 0.0512
                                                 0.00781
              1
                       0
                                                                 0.355
##
     125
              1
                       0
                           0.0526 0.0512
                                                 0.00781
                                                                 0.355
##
     150
              1
                       0
                           0.0526 0.0512
                                                 0.00781
                                                                 0.355
##
     175
              1
                       0
                           0.0526 0.0512
                                                 0.00781
                                                                 0.355
##
     200
                       0
                           0.0526
                                   0.0512
                                                 0.00781
                                                                 0.355
              1
                           0.0526 0.0512
##
     225
              1
                       0
                                                 0.00781
                                                                 0.355
##
     250
              1
                           0.0526 0.0512
                                                 0.00781
                                                                 0.355
                       0
##
##
                    subj=010, dayofwear=3
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                           1.0000 0.0000
##
       1
             26
                       0
                                                 1.00000
                                                                 1.000
##
             10
                           0.3846 0.0954
                                                 0.23652
                                                                 0.625
      25
                      16
##
      50
              9
                       2
                           0.3077 0.0905
                                                 0.17287
                                                                 0.548
##
      75
              4
                       4
                           0.1538 0.0708
                                                 0.06246
                                                                 0.379
##
     100
              2
                       2
                           0.0769 0.0523
                                                 0.02031
                                                                 0.291
##
              2
                           0.0769 0.0523
     125
                       0
                                                 0.02031
                                                                 0.291
##
     150
              2
                       0
                           0.0769 0.0523
                                                 0.02031
                                                                 0.291
##
     175
                           0.0385 0.0377
                                                                 0.263
              1
                       1
                                                 0.00563
##
     200
              1
                       0
                           0.0385 0.0377
                                                 0.00563
                                                                 0.263
##
     225
                       0
                           0.0385 0.0377
                                                 0.00563
                                                                 0.263
##
                    subj=010, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
             23
                       0
                           1.0000 0.0000
                                                 1.00000
                                                                 1.000
##
      25
             15
                       8
                           0.6522 0.0993
                                                 0.48389
                                                                 0.879
                           0.4783 0.1042
                                                                 0.733
##
      50
             11
                       4
                                                 0.31209
##
      75
              9
                       2
                           0.3913 0.1018
                                                 0.23504
                                                                 0.651
##
     100
              4
                       5
                           0.1739
                                   0.0790
                                                 0.07137
                                                                 0.424
                       2
                           0.0870 0.0588
##
     125
              2
                                                 0.02313
                                                                 0.327
##
     150
              1
                       1
                           0.0435 0.0425
                                                 0.00639
                                                                 0.296
##
     175
              1
                       0
                           0.0435 0.0425
                                                 0.00639
                                                                 0.296
##
                    subj=010, dayofwear=5
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             10
                       0
                              1.0 0.0000
                                                  1.0000
                                                                 1.000
      25
                              0.9 0.0949
                                                  0.7320
                                                                 1,000
##
              9
                       1
              7
##
      50
                       2
                              0.7 0.1449
                                                  0.4665
                                                                 1.000
      75
                       2
##
              5
                              0.5 0.1581
                                                  0.2690
                                                                 0.929
##
     100
              3
                       2
                              0.3 0.1449
                                                  0.1164
                                                                 0.773
##
                       2
                              0.1 0.0949
     125
              1
                                                  0.0156
                                                                 0.642
##
```

##			subi=	=010, dayo	ofwear=6			
##	time	n.risk	-	•		lower 95% CI	upper 95% C	Ι
##	1	26	0	1.0000	0.0000	1.00000	1.000	
##	25	11	15	0.4231	0.0969	0.27007	0.663	3
##	50	6	5	0.2308	0.0826	0.11439	0.466	3
##	75	4	2	0.1538	0.0708	0.06246	0.379	9
##	100	3	1	0.1154	0.0627	0.03980	0.334	1
##	125	3	0	0.1154	0.0627	0.03980	0.334	1
##	150	1	2	0.0385	0.0377	0.00563	0.263	3
##	175	1	0	0.0385	0.0377	0.00563	0.263	3
##	200	1	0	0.0385	0.0377	0.00563	0.263	
##	225	1	0	0.0385	0.0377	0.00563	0.263	
##	250	1	0	0.0385	0.0377	0.00563	0.263	3
##								
##			•	=016, dayo				
##						lower 95% CI		
##	1	11	0	1.000	0.000	1.0000	1.000	
##	25	6	5	0.545	0.150	0.3180	0.936	
##	50	5	1	0.455	0.150	0.2379	0.868	
##	75	4	1	0.364	0.145	0.1664	0.79	
##	100	4	0	0.364	0.145	0.1664	0.79	
##	125	4	0	0.364	0.145	0.1664	0.79	
##	150	3	1	0.273	0.134	0.1039	0.716	
## ##	175 200	3 3	0	0.273	0.134 0.134	0.1039 0.1039	0.716 0.716	
##	200	2	1	0.273 0.182	0.134	0.1039	0.710	
##	250	2	0	0.182	0.116	0.0519	0.637	
##	200	2	O	0.102	0.110	0.0013	0.00	
##			subj=	=016, dayo	ofwear=1			
##	time	n.risk	•	•		lower 95% CI	upper 95% C	Γ
##	1	18	0	1.000	0.0000	1.0000	1.000)
##	25	16	2	0.889	0.0741	0.7549	1.000)
##	50	12	4	0.667	0.1111	0.4809	0.924	1
##	75	10	2	0.556	0.1171	0.3675	0.840)
##	100	6	4	0.333	0.1111	0.1734	0.643	Ĺ
##	125	4	2	0.222	0.0980	0.0936	0.527	
##	150	4	0	0.222	0.0980	0.0936	0.527	
##	175	4	0	0.222	0.0980	0.0936	0.527	
##	200	2	2	0.111	0.0741	0.0301	0.410	
##	225	2	0	0.111	0.0741	0.0301	0.410	
##	250	2	0	0.111	0.0741	0.0301	0.410)
##			h	-016	. f			
## ##	+ i m o	n riak	•	=016, dayo		lower 95% CI	upper OF% C	т
##	1	19	n.event	1.000	0.0000	1.0000	1.000	
##	25	13	6	0.684		0.5041	0.929	
##	50	8	5	0.421	0.1133	0.2485	0.713	
##	75	8	0	0.421	0.1133	0.2485	0.713	
##	100	7	1	0.368	0.1107	0.2045	0.664	
##	125	5	2	0.263	0.1107	0.1240	0.558	
##		5	0	0.263	0.1010	0.1210	0.558	
	150	.,	()	0.200				
	150 175							3
## ##	175 200	5 5	0	0.263 0.263	0.1010	0.1240 0.1240 0.1240	0.558	
##	175	5	0	0.263	0.1010	0.1240		3

##	250	4	0	0.211	0.0935		0.0881		0.503
##									
##	4.2		•	=016, dayo		7	0E% GT		0E% GT
## ##	time	n.risk	n.event	survival 1.0000	0.0000	lower		upper	
##	25	26	11	0.7027	0.0000		1.0000		1.000 0.867
##	50	17	9	0.7027	0.0731		0.3239		0.652
##	75	10	7	0.4393	0.0019		0.3239		0.459
##	100	5	5	0.1351	0.0562		0.0598		0.305
##	125	5	0	0.1351	0.0562		0.0598		0.305
##	150	4	1	0.1081	0.0510		0.0428		0.273
##	175	2	2	0.0541	0.0372		0.0140		0.208
##	200	2	0	0.0541	0.0372		0.0140		0.208
##	225	2	0	0.0541	0.0372		0.0140		0.208
##	250	2	0	0.0541	0.0372		0.0140		0.208
##									
##			subj:	=016, day	ofwear=4				
##	time	n.risk	_	survival		lower	95% CI	upper	95% CI
##	1	25	0	1.00	0.0000		1.0000		1.000
##	25	18	7	0.72	0.0898		0.5639		0.919
##	50	12	6	0.48	0.0999		0.3192		0.722
##	75	12	0	0.48	0.0999		0.3192		0.722
##	100	7	5	0.28	0.0898		0.1493		0.525
##	125	6	1	0.24	0.0854		0.1195		0.482
##	150	4	2	0.16	0.0733		0.0652		0.393
##	175	4	0	0.16	0.0733		0.0652		0.393
##	200	3	1	0.12	0.0650		0.0415		0.347
##	225	3	0	0.12	0.0650		0.0415		0.347
##	250	3	0	0.12	0.0650		0.0415		0.347
##									
##			•	=016, day		_			
##				survival		lower		upper	
##	1	36	0	1.0000	0.0000		1.0000		1.000
##	25	23	13	0.6389	0.0801		0.4998		0.817
##	50 75	20	3	0.5556	0.0828		0.4148		0.744
##	75 100	14 10	6 4	0.3889 0.2778	0.0812		0.2582		0.586 0.470
##							0.1640		
## ##	125 150	8 6	2 2	0.2222 0.1667	0.0693 0.0621		0.1206 0.0803		0.409 0.346
##	175	5	1	0.1389	0.0576		0.0616		0.340
##	200	4	1	0.1303	0.0574		0.0441		0.280
##	225	3	1	0.0833	0.0324		0.0282		0.246
##	250	3	0	0.0833	0.0461		0.0282		0.246
##	200	J	O	0.0000	0.0401		0.0202		0.240
##			subi:	=016, dayo	ofwear=6				
##	time	n.risk	•	survival		lower	95% CI	upper	95% CI
##	1	26	0	1.000	0.0000		1.0000	F F	1.000
##	25	20	6	0.769	0.0826		0.6232		0.949
##	50	14	6	0.538	0.0978		0.3772		0.769
##	75	13	1	0.500	0.0981		0.3404		0.734
##	100	11	2	0.423	0.0969		0.2701		0.663
##	125	7	4	0.269	0.0870		0.1429		0.507
##	150	4	3	0.154	0.0708		0.0625		0.379
##	175	4	0	0.154	0.0708		0.0625		0.379

```
200
                            0.154 0.0708
                                                 0.0625
##
                      0
                                                                0.379
##
     225
              4
                       0
                            0.154 0.0708
                                                 0.0625
                                                                0.379
##
     250
                            0.154 0.0708
                                                                0.379
                       0
                                                 0.0625
##
##
                   subj=019, dayofwear=0
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                      0
                            1.000 0.0000
                                                 1.0000
                                                                1.000
                                                               0.769
##
      25
             14
                      12
                            0.538 0.0978
                                                 0.3772
##
      50
              7
                       7
                            0.269 0.0870
                                                 0.1429
                                                               0.507
##
      75
              5
                       2
                            0.192 0.0773
                                                 0.0875
                                                               0.423
##
     100
              5
                       0
                            0.192 0.0773
                                                 0.0875
                                                                0.423
##
     125
                            0.154 0.0708
              4
                       1
                                                 0.0625
                                                                0.379
##
##
                   subj=019, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      1
             47
                      0
                           1.0000 0.0000
                                                1.00000
                                                                1.000
##
      25
             21
                      26
                           0.4468 0.0725
                                                0.32506
                                                               0.614
      50
                           0.2766 0.0652
                                                0.17420
                                                               0.439
##
                      8
##
      75
                       2
                           0.2340 0.0618
                                                0.13953
                                                               0.393
             11
              6
##
     100
                      5
                           0.1277 0.0487
                                                0.06046
                                                               0.270
##
     125
              5
                       1
                           0.1064 0.0450
                                                0.04645
                                                               0.244
##
     150
              3
                       2
                           0.0638 0.0357
                                                0.02136
                                                               0.191
##
                           0.0426 0.0294
                                                               0.165
     175
              2
                      1
                                                0.01096
##
     200
              2
                      0
                           0.0426 0.0294
                                                0.01096
                                                               0.165
##
     225
                                                0.00306
              1
                       1
                           0.0213 0.0210
                                                               0.148
##
     250
                      0
                           0.0213 0.0210
                                                0.00306
                                                                0.148
##
##
                   subj=019, dayofwear=2
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             27
                       0
                            1.000 0.0000
                                                1.00000
                                                               1.000
##
      1
      25
                      12
                            0.556 0.0956
                                                0.39647
                                                               0.778
##
             15
##
      50
              9
                       6
                            0.333 0.0907
                                                0.19553
                                                               0.568
##
      75
              5
                            0.185 0.0748
                                                0.08394
                                                               0.409
                       4
##
     100
              3
                       2
                            0.111 0.0605
                                                0.03823
                                                               0.323
                       2
##
     125
              1
                            0.037 0.0363
                                                0.00541
                                                                0.253
##
     150
              1
                      0
                            0.037 0.0363
                                                0.00541
                                                               0.253
##
     175
                       0
                            0.037 0.0363
                                                0.00541
                                                                0.253
##
                   subj=019, dayofwear=3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
             47
                     0
                           1.0000 0.0000
                                                1.0000
                                                               1.000
                                                 0.4926
##
      25
             29
                      18
                           0.6170 0.0709
                                                               0.773
##
      50
             17
                      12
                           0.3617 0.0701
                                                 0.2474
                                                               0.529
##
      75
              9
                       8
                           0.1915 0.0574
                                                 0.1064
                                                               0.345
##
                       6
                           0.0638 0.0357
                                                 0.0214
                                                                0.191
##
                   subj=019, dayofwear=4
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                                                1.00000
##
      1
             70
                      0
                           1.0000 0.0000
                                                               1.000
##
      25
             41
                           0.5857 0.0589
                                                0.48097
                                                               0.713
                      29
##
      50
             24
                      17
                           0.3429 0.0567
                                                0.24789
                                                               0.474
##
      75
             20
                      4
                           0.2857 0.0540
                                                0.19727
                                                               0.414
##
     100
              8
                      12
                           0.1143 0.0380
                                                0.05953
                                                               0.219
##
     125
                      4
                           0.0571 0.0277
                                                0.02206
              4
                                                               0.148
```

```
150
                            0.0286 0.0199
                                                 0.00729
                                                                 0.112
##
##
     175
               1
                       1
                            0.0143 0.0142
                                                 0.00204
                                                                 0.100
##
     200
                            0.0143 0.0142
                                                 0.00204
                                                                 0.100
                       0
##
##
                    subj=019, dayofwear=5
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             79
                       0
                            1.0000 0.0000
                                                 1.00000
                                                                1.0000
                                                                0.5924
##
      25
             37
                      42
                            0.4684 0.0561
                                                 0.37029
##
      50
             17
                      20
                            0.2152 0.0462
                                                 0.14123
                                                                0.3279
##
      75
             11
                       6
                            0.1392 0.0390
                                                 0.08047
                                                                0.2409
##
     100
                       7
                            0.0506
                                   0.0247
                                                 0.01949
                                                                0.1316
##
     125
              4
                            0.0506 0.0247
                       0
                                                 0.01949
                                                                0.1316
##
                            0.0127 0.0126
                                                                0.0888
     150
              1
                                                 0.00181
##
##
                    subj=019, dayofwear=6
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       1
             49
                       0
                            1.0000 0.0000
                                                  1.0000
                                                                 1.000
                                                                 0.690
##
      25
             26
                            0.5306 0.0713
                                                  0.4078
                      23
                            0.3265
                                                                 0.488
##
      50
             16
                      10
                                   0.0670
                                                  0.2184
      75
                       3
                                   0.0631
##
             13
                            0.2653
                                                  0.1665
                                                                 0.423
##
     100
              7
                       6
                            0.1429 0.0500
                                                  0.0720
                                                                 0.284
##
     125
              4
                       3
                            0.0816 0.0391
                                                  0.0319
                                                                 0.209
##
              3
                            0.0612 0.0342
                                                                 0.183
     150
                       1
                                                  0.0205
##
     175
              3
                       0
                            0.0612 0.0342
                                                  0.0205
                                                                 0.183
##
     200
              2
                       1
                            0.0408 0.0283
                                                  0.0105
                                                                 0.159
##
     225
              2
                            0.0408
                                   0.0283
                                                  0.0105
                                                                 0.159
##
     250
              2
                       0
                            0.0408 0.0283
                                                  0.0105
                                                                 0.159
##
##
                    subj=027, dayofwear=0
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                             1.000 0.0000
##
       1
             12
                       0
                                                   1.000
                                                                 1.000
##
      25
             11
                       1
                             0.917 0.0798
                                                   0.773
                                                                 1.000
##
      50
              9
                       2
                             0.750 0.1250
                                                   0.541
                                                                 1.000
##
      75
              8
                             0.667 0.1361
                                                   0.447
                                                                 0.995
                       1
                             0.667 0.1361
##
     100
              8
                       0
                                                   0.447
                                                                 0.995
##
     125
              7
                       1
                             0.583 0.1423
                                                   0.362
                                                                 0.941
##
     150
              7
                       0
                             0.583 0.1423
                                                   0.362
                                                                 0.941
##
     175
              6
                       1
                             0.500 0.1443
                                                   0.284
                                                                 0.880
##
     200
              6
                       0
                             0.500 0.1443
                                                   0.284
                                                                 0.880
##
     225
              6
                       0
                             0.500 0.1443
                                                   0.284
                                                                 0.880
##
     250
                       0
                             0.500 0.1443
                                                   0.284
                                                                 0.880
##
##
                    subj=027, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             22
                       0
                             1.000 0.0000
                                                   1.000
                                                                 1.000
       1
                       7
##
      25
             15
                             0.682 0.0993
                                                   0.513
                                                                 0.907
##
      50
             12
                       3
                             0.545 0.1062
                                                   0.372
                                                                 0.799
##
      75
             12
                       0
                             0.545 0.1062
                                                   0.372
                                                                 0.799
##
     100
             12
                       0
                             0.545 0.1062
                                                   0.372
                                                                 0.799
##
     125
             12
                       0
                             0.545 0.1062
                                                                 0.799
                                                   0.372
##
     150
             10
                       2
                             0.455
                                   0.1062
                                                   0.288
                                                                 0.718
##
                       2
     175
              8
                             0.364 0.1026
                                                   0.209
                                                                 0.632
              7
##
     200
                       1
                             0.318 0.0993
                                                   0.173
                                                                 0.587
##
     225
              7
                       0
                             0.318 0.0993
                                                   0.173
                                                                 0.587
```

## ##	250	7	0	0.318	0.0993		0.173		0.587
##			subj:	=027, dayo	ofwear=2				
##	time	n.risk	${\tt n.event}$	survival	${\tt std.err}$	lower	95% CI	upper	95% CI
##	1	20	0	1.00	0.0000		1.000		1.000
##	25	17	3	0.85	0.0798		0.707		1.000
##	50	14	3	0.70	0.1025		0.525		0.933
##	75	10	4	0.50	0.1118		0.323		0.775
##	100	9	1	0.45	0.1112		0.277		0.731
##	125	6	3	0.30	0.1025		0.154		0.586
##	150	6	0	0.30	0.1025		0.154		0.586
##	175	6	0	0.30	0.1025		0.154		0.586
##	200	6	0	0.30	0.1025		0.154		0.586
##	225	5	1	0.25	0.0968		0.117		0.534
##	250	5	0	0.25	0.0968		0.117		0.534
##				007 1					
##			•	=027, dayo		7	0F% GT		0E% GT
##				survival		lower		upper	
##	1	36	0	1.000	0.0000		1.000		1.000
##	25	28	8	0.778	0.0693		0.653		0.926
##	50	23	5	0.639	0.0801		0.500		0.817
## ##	75	19 14	4 5	0.528 0.389	0.0832		0.387		0.719 0.586
##	100 125	14	0	0.389			0.258		
##		13	1	0.361	0.0812		0.258		0.586 0.558
##	150 175	12	1	0.333	0.0801		0.234		0.529
##	200	11	1	0.333	0.0768		0.210		0.500
##	225	11	0	0.306	0.0768		0.187		0.500
##	250	11	0	0.306	0.0768		0.187		0.500
##	200		O	0.000	0.0700		0.107		0.000
##			subi:	=027, dayo	ofwear=4				
##	time	n.risk	•	survival		lower	95% CT	upper	95% CT
##	1	20	0	1.00	0.0000	2002	1.000	app 02	1.000
##	25	12	8	0.60	0.1095		0.420		0.858
##	50	11	1	0.55	0.1112		0.370		0.818
##	75	9	2	0.45	0.1112		0.277		0.731
##	100	9	0	0.45	0.1112		0.277		0.731
##	125	7	2	0.35	0.1067		0.193		0.636
##	150	7	0	0.35	0.1067		0.193		0.636
##	175	6	1	0.30	0.1025		0.154		0.586
##	200	6	0	0.30	0.1025		0.154		0.586
##	225	6	0	0.30	0.1025		0.154		0.586
##	250	5	1	0.25	0.0968		0.117		0.534
##									
##			subj:	=027, dayo	ofwear=5				
##	time	n.risk	${\tt n.event}$	survival	std.err	lower	95% CI	upper	95% CI
##	1	29	0	1.000	0.0000		1.000		1.000
##	25	23	6	0.793	0.0752		0.659		0.955
##	50	16	7	0.552	0.0923		0.397		0.766
##	75	14	2	0.483	0.0928		0.331		0.704
##	100	12	2	0.414	0.0915		0.268		0.638
##	125	8	4	0.276	0.0830		0.153		0.497
##	150	7	1	0.241	0.0795		0.127		0.460
##	175	7	0	0.241	0.0795		0.127		0.460

```
200
                                                                0.422
##
                       1
                            0.207 0.0752
                                                  0.101
##
     225
              6
                       0
                            0.207 0.0752
                                                  0.101
                                                                0.422
##
     250
                                                  0.101
                                                                0.422
                       0
                            0.207 0.0752
##
##
                   subj=027, dayofwear=6
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                       0
                            1.000 0.0000
                                                  1.000
                                                                1.000
                                                                0.997
##
      25
             23
                       4
                            0.852 0.0684
                                                  0.728
##
      50
             16
                       7
                            0.593 0.0946
                                                  0.433
                                                                0.810
##
      75
             13
                       3
                            0.481 0.0962
                                                  0.326
                                                                0.712
##
     100
             11
                       2
                            0.407 0.0946
                                                  0.259
                                                                0.642
##
     125
              8
                       3
                            0.296 0.0879
                                                  0.166
                                                                0.530
##
                       2
                            0.222 0.0800
     150
              6
                                                  0.110
                                                                0.450
##
                       0
     175
              6
                            0.222 0.0800
                                                                0.450
                                                  0.110
##
     200
              6
                       0
                            0.222 0.0800
                                                  0.110
                                                                0.450
     225
##
              6
                       0
                            0.222
                                   0.0800
                                                  0.110
                                                                0.450
##
     250
              6
                       0
                            0.222 0.0800
                                                  0.110
                                                                0.450
##
##
                   subj=031, dayofwear=0
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       1
             25
                       0
                             1.00 0.0000
                                                 1.0000
                                                                 1.000
##
      25
             19
                       6
                             0.76 0.0854
                                                 0.6097
                                                                0.947
##
                       0
                             0.76 0.0854
                                                                0.947
      50
             19
                                                 0.6097
##
      75
             18
                       1
                             0.72 0.0898
                                                 0.5639
                                                                0.919
                             0.68 0.0933
##
     100
             17
                                                                0.890
                       1
                                                 0.5197
##
     125
             14
                       3
                             0.56 0.0993
                                                 0.3956
                                                                0.793
##
     150
             14
                       0
                             0.56 0.0993
                                                 0.3956
                                                                0.793
##
     175
             10
                       4
                             0.40 0.0980
                                                 0.2475
                                                                0.646
                       2
##
     200
              8
                             0.32 0.0933
                                                                0.567
                                                 0.1807
##
     225
              6
                       2
                             0.24 0.0854
                                                                0.482
                                                 0.1195
##
     250
                             0.20 0.0800
              5
                       1
                                                 0.0913
                                                                0.438
##
##
                   subj=031, dayofwear=1
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                           1.0000 0.0000
##
      1
             61
                       0
                                                 1.0000
                                                                1.000
      25
##
             52
                       9
                           0.8525 0.0454
                                                 0.7679
                                                                0.946
##
      50
             43
                       9
                           0.7049 0.0584
                                                 0.5993
                                                                0.829
##
      75
             34
                       9
                           0.5574 0.0636
                                                 0.4457
                                                                0.697
                       2
##
     100
             32
                           0.5246 0.0639
                                                 0.4131
                                                                0.666
##
     125
             26
                       6
                           0.4262 0.0633
                                                 0.3186
                                                                0.570
##
     150
             22
                       4
                           0.3607 0.0615
                                                 0.2582
                                                                0.504
##
     175
             18
                       4
                           0.2951 0.0584
                                                 0.2002
                                                                0.435
##
     200
             17
                       1
                           0.2787
                                  0.0574
                                                 0.1861
                                                                0.417
##
     225
              8
                       9
                           0.1311 0.0432
                                                 0.0687
                                                                0.250
##
     250
                           0.0656 0.0317
                                                 0.0254
                                                                 0.169
##
##
                   subj=031, dayofwear=2
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                           1.0000 0.0000
##
       1
            122
                       0
                                                 1.0000
                                                                1.000
##
      25
             94
                      29
                           0.7623 0.0385
                                                 0.6904
                                                                0.842
##
      50
             55
                      38
                           0.4508 0.0450
                                                 0.3706
                                                                0.548
##
      75
             41
                      14
                           0.3361 0.0428
                                                                0.431
                                                 0.2619
##
     100
             27
                      14
                           0.2213 0.0376
                                                 0.1587
                                                                0.309
##
     125
             23
                       4
                           0.1885 0.0354
                                                 0.1305
                                                                0.272
```

```
150
                          0.1557 0.0328
                                                0.1030
                                                               0.235
##
             19
                                                0.0701
##
     175
             14
                      5
                           0.1148 0.0289
                                                               0.188
             11
##
     200
                           0.0902 0.0259
                                                0.0513
                                                               0.158
##
     225
             8
                      3
                           0.0656 0.0224
                                                0.0336
                                                               0.128
##
     250
              4
                      4
                           0.0328 0.0161
                                                0.0125
                                                               0.086
##
##
                   subj=031, dayofwear=3
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
             74
                      0
                           1.000 0.0000
                                                 1.000
                                                               1.000
                           0.851 0.0414
##
      25
             63
                     11
                                                 0.774
                                                               0.936
             53
##
      50
                     10
                            0.716 0.0524
                                                 0.621
                                                               0.827
##
     75
             44
                      9
                           0.595 0.0571
                                                 0.493
                                                               0.718
##
     100
             34
                     10
                           0.459 0.0579
                                                 0.359
                                                               0.588
##
     125
             30
                           0.405 0.0571
                      4
                                                 0.308
                                                               0.534
                           0.338 0.0550
##
     150
             25
                      5
                                                 0.246
                                                               0.465
##
     175
             24
                      1
                           0.324 0.0544
                                                 0.233
                                                               0.451
##
     200
             24
                      0
                           0.324 0.0544
                                                 0.233
                                                               0.451
##
     225
             20
                           0.270 0.0516
                                                               0.393
                       4
                                                 0.186
                           0.230 0.0489
##
     250
             17
                      3
                                                 0.151
                                                               0.349
##
##
                   subj=031, dayofwear=4
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             70
                      0
                           1.000 0.0000
                                                 1.000
                                                               1.000
      1
                           0.886 0.0380
             62
                      8
##
      25
                                                 0.814
                                                               0.963
      50
             50
                           0.714 0.0540
                                                               0.828
##
                     12
                                                 0.616
##
     75
             36
                     14
                           0.514 0.0597
                                                 0.410
                                                               0.646
##
     100
             32
                      4
                           0.457 0.0595
                                                 0.354
                                                               0.590
##
     125
             27
                      5
                           0.386 0.0582
                                                 0.287
                                                               0.518
##
     150
             24
                      3
                           0.343 0.0567
                                                 0.248
                                                               0.474
##
     175
             23
                      1
                           0.329 0.0561
                                                 0.235
                                                               0.459
                           0.243 0.0513
##
     200
             17
                                                               0.367
                      6
                                                 0.161
##
     225
             16
                       1
                           0.229 0.0502
                                                 0.149
                                                               0.352
##
     250
             14
                      2
                           0.200 0.0478
                                                 0.125
                                                               0.320
##
                   subj=031, dayofwear=5
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
      1
            107
                      0
                           1.000 0.0000
                                                1.0000
                                                               1.000
##
      25
             87
                     20
                           0.813 0.0377
                                                0.7425
                                                               0.890
                                                               0.742
##
      50
             69
                     18
                           0.645 0.0463
                                                0.5603
##
     75
             55
                     14
                           0.514 0.0483
                                                0.4275
                                                               0.618
             50
##
     100
                      5
                           0.467 0.0482
                                                0.3817
                                                               0.572
##
     125
            44
                      6
                           0.411 0.0476
                                                0.3278
                                                               0.516
##
     150
             42
                      2
                           0.393 0.0472
                                                0.3101
                                                               0.497
##
     175
             33
                      9
                           0.308 0.0446
                                                0.2322
                                                               0.410
##
     200
             30
                      3
                            0.280 0.0434
                                                0.2070
                                                               0.380
             22
                           0.206 0.0391
##
     225
                      8
                                                0.1417
                                                               0.298
##
     250
                      6
                            0.150 0.0345
                                                0.0952
                                                               0.235
##
                   subj=031, dayofwear=6
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
                           1.000 0.0000
                                                               1.000
##
      1
             80
                     0
                                                 1.000
      25
             64
                     16
                           0.800 0.0447
                                                 0.717
                                                               0.893
##
##
      50
             56
                     8
                           0.700 0.0512
                                                 0.606
                                                               0.808
##
      75
             42
                     14
                           0.525 0.0558
                                                 0.426
                                                               0.647
```

```
##
     100
              34
                        8
                              0.425 0.0553
                                                      0.329
                                                                     0.548
##
     125
              30
                        4
                              0.375
                                      0.0541
                                                      0.283
                                                                     0.498
                        2
                                      0.0533
##
     150
              28
                              0.350
                                                      0.260
                                                                     0.472
##
                        2
                              0.325
                                                      0.237
                                                                     0.446
     175
              26
                                      0.0524
                        3
##
     200
              23
                              0.287
                                      0.0506
                                                      0.204
                                                                     0.406
##
     225
              17
                        6
                              0.212
                                      0.0457
                                                      0.139
                                                                     0.324
##
     250
              16
                              0.200
                                      0.0447
                                                      0.129
                                                                     0.310
```

```
autoplot(wearfit) +
  xlim(c(0,1000)) +
  facet_wrap(~strata) +
  scale_y_log10()
```

- ## Scale for y is already present.
- ## Adding another scale for y, which will replace the existing scale.
- ## Warning: Transformation introduced infinite values in continuous y-axis
- ## Transformation introduced infinite values in continuous y-axis
- ## Warning: Removed 22 rows containing missing values ('geom_step()').



Results and Findings

Abstract

It is well known that strokes impact the ability of patients to walk as well as the duration. In this data set, 6 subjects listed as 007, 010, 016, 019, 027, and 031, were tracked at to time points (60 and 90 days after stroke). The day and time of each walk was collected resulting in 3382 unique entries. Each of these entries track the location of each walk (at home: True/False) as well as if their walk ended at home. This means that the subject could have started their walk at their home but walked to their car, convince store, neighbors house, etc. and vice versa. The distance of each walk was also recorded along with the duration of the subject being upright (dur_u) and duration actually stepping (dur_s). The end time of each walk was also recorded allowing for the calculation of finding time upright. To insure anonymity, the majority of the information about the patients were excluded. However, the data set had enough information for analysis on the walking patterns of these subjects.

Process

When looking at the stroke data-set, I wanted to look for the duration of walking based on different variables. Throughout the study, I used various packages but mostly tidyverse, ggplot2, survival, and lubridate. Initially, I found the survival curves for each of trials (60 and 90), then I broke that down even more to subject and trial. The task after looking at that was to then find when each subject received the tracking device to then compare and determine if the number of days after receiving the device made an impact on how long the subjects were walking. Each of the plots in the analysis above can be altered to include more of the co-variates or less depending on what information is requested. I go into further detail in the 'Analysis' portion.

Analysis

When looking at Figure 1, I am filtering the initial stroke data into trial. From there I am making a new variable called 'status' to make a survival function. In this case I am declaring that status = 1 because all of the times have an end point. Because every walk will have a start and an end, there is no need to censor and thus every data point is 1. I did the same for 90 days. This data frame gave me two outputs 'sd60' and 'sd90' which essentially is the same as the original except broken into trial and included the variable status. These data frames became useful when making the survival function in upcoming code chunks.

Figure 2 used the data frames found in Figure 1. Each of the data frames were fit into a Survival Function within the survival package. These Kaplan-Meier survival functions basically compile and combine the parameters of time and status. The main purpose of this code chunk is to be used for plotting a survival plot. The first plot I chose to create with this is the fit function. A fit function shows the survival percentage as well as confidence intervals for times 1, 25, and then every 25 seconds afterwards. In the code chunk Figure 3, I am using the survfit function that takes the Surv function and regresses it against the constant 1. Summary just shows the result of this function before I decide to visualize it. Figure 4 and 5 show these survfit functions for each of the trials. These curves show the generalization for all 6 subjects, which does not account for each of the individual's variability. However, we can see that in general, trial 60 had a higher survival curve than 90 days. I found this to be interesting and wondered if the variability within the subjects caused this.

To break this information down based on subject and trial, I had to begin by creating a new data frame which I called 'alld'. This frame contained everything as the original data frame, but with the addition of status=1. Similar to the process above, I created a survival function that took duration of stepping and status as its parameters and regressed it against subject and trial. This function was then plotted to display the curves of each of the subjects and their trial. From looking at the graph, it is obvious that there were a few subjects who walked significantly more than others, most notable is subject 016. So I know that each of

the subjects are different, but another question that was brought up was if day has an effect on the duration of walking.

In figure 7, I am loading the 'lubridate' package to analyze the time variable and manipulate day and time. Figure 8 shows the creation of the data frame 'SDdate' that takes the original data and mutates it so that we can see what day of the week each event was taken. Label= TRUE lists the days as 'Fri', 'Sat', etc. I can then use this data frame to make another survival curve based on day of week in Figure 9. When initially looking at the graph, I noticed that there were a few cases where the time of stepping was significantly larger than the majority. This was making the model harder to read, and thus I excluded any times that were larger than 1000 seconds (which is approximately 16.7 minutes). In addition to this, I used a log scale because I wanted to respond to the skewness and for legibility as the log scale provides percentages of survival. Overall, the log scale made the models more easier to understand especially when comparing multiple plots. The model shows these estimates well, but it is still hard to decipher differences between each of the days.

To answer the question if there is a pattern for Friday, I use a similar process as the code chunk in Figure 9, but I include a facet_wrap function which allows me to break the plots into subplots based on a variable, in this case 'strata'. When breaking the data into just the days (Figure 10), there does seem to be a difference based on the day of week, but I cannot determine if this is the only reason for this shape. There could be other reasons such as what day each subject got the tracking device. Some subjects could possibly walk more when they first get their tracking device, and eventually lose interest in the study and walk less by the end of the trial. I wanted to look further into this and eventually compare the days each of the subjects received their device with each other to control for differences in day of week.

Figure 11 is essentially the same as Figure 10, except the I included the subject into the surviit function and broke the model based on strata. This eventually made a model of 42 graphs, one for each day of week for each of the subjects. When looking at these models, I can make observations for each of the subjects as well as the general group. To begin, subject 007 appeared to be decently consistent with their walking throughout the week, but had a higher survival rate on Friday and Saturday. Subject 010 was also consistent with their walking until Friday when they similarly had a higher survival rate on Friday. Subject 016 looks different on Friday, but this is where I cut off the data because it exceeded 1000 seconds. This further pushes the idea that subjects walk more on Friday. Interestingly, subject 019 had a higher survival rate on Thursday instead of Friday. No observations seemed to be out of the ordinary for subjects 027 and 031. Because of the weird pattern that showed up in the majority of these subjects, I decided to dig into when each of the subjects received the tracking device.

From here onward, I am looking into if the duration of walking tracks up with what day of the week people get the device. In figure 12, I am filtering down the entire original data set to see the duration of Friday only. Then in figure 13, I am making a new survival function using this filtered data. When looking at the plot created by these figures, it appears that 019 and 031 have curves that look different than the other subjects. The next task is then find day '0' for all the subjects. I use lubridate here to find the first time each subject and trial tracked any walking. This is noted in Figure 14 and the new variable is called 'firsttime'. This variable is useful because I need to compare each of the events with their 'firsttime' to get the day of wear. In figure 15, I am making a new data frame called 'result' where I am taking the mutated data with the new 'firsttime' variable and creating another new variable called 'dayofwear'. Result data frame shows the 'dayofwear' as how many days after receiving the device each duration of stepping was observed. Because the result was produced in seconds after the initial wear, I had to divide by 86,400 which is the number of seconds in a day. This means that each day number is represented in 24 hours after the 'firsttime' rather than calendar day.

When looking at the model outputted by this code chunk, it is difficult to determine what day of the week is what. There appears to be no correlation between how many days the subject was wearing the device and the duration of their walks. For subjects 007, 016, 027, and 031 the plots may suggest that the patient walked less and less as the study went on. However, the plots are not strong enough to make this determination. Overall, there does not appear to be any significant difference on the first day of wear when compared to the rest of the week.

I am breaking this model down further to compare the day of wear for each of the trials. I use the same

function from 16 as figure 17 but am adding the filter for 60 days. Figure 18 is the same as 17, but filtered for trial=90. Just from looking at the plots it appears that the subjects may have been walking less at the 90 day mark. However, subjects 027 and 031 also appear to have increased their walking times. This was interesting and although I did not have much time left to explore this, I created enough models to draw some kinds of conclusions.

Conclusion

When looking at the questions aroused throughout the study, each answer to each possible scenario brought up another question. Each of the code chunks in this study can be manipulated to answer additional questions brought up throughout the process. Overall, the patterns found in the study should not be generalized because the size of the data was not very large. Because keeping anonymity was so significant in the data, without knowing more about these stroke patients, not many conclusions could be drawn. Nevertheless, these models and their code are suitable for use for other imaging.