

g-d-rate

Jiahao Tian

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```
## read data

DF1 = read.table(
  "~/Desktop/MS report/data/Data-selected/10083_IMQUAL_01Oct2021.csv",
  sep = ",", header = TRUE)

DF2 = read.table(
  "~/Desktop/MS report/data/Data-selected/10083_TEXTCAD_01Oct2021.csv",
  sep = ",", header = TRUE)

## extract needed variables for model

d2 = DF1 %>%
  dplyr:: select(contains("SUBJID",ignore.case = TRUE),
                contains("VISITDTN",ignore.case = TRUE),
                contains("SLICE",ignore.case = TRUE))

qlf = DF2 %>%
  dplyr:: select(contains("SUBJID",ignore.case = TRUE),
                contains("VISITDTN",ignore.case = TRUE),
                contains("REGI",ignore.case = TRUE),
                contains("QLF",ignore.case = TRUE))

## change variable type

d2$name = as.numeric(factor(d2$SUBJID,
                           levels=unique(d2$SUBJID)))
qlf$name = as.numeric(factor(qlf$SUBJID,
                           levels=unique(qlf$SUBJID)))

d2$SLICE_THICKNESS = as.numeric(d2$SLICE_THICKNESS)
d2$SLICE_SPACING = as.numeric(d2$SLICE_SPACING)

## Warning: NAs introduced by coercion

# only use whole lung data for g-d-rate model

qlf = qlf[grep("WHOLE", qlf$REGION), , drop = FALSE]

## change to 2d dim
```

```
## change name to size due to model requirment
```

```
d2$size = d2$SLICE_THICKNESS * d2$SLICE_SPACING  
qlf$size = qlf$QLFCAD
```

```
## change time to day due model requirement
```

```
d2$date = as.Date(d2$VISITDTN, format = "%d%b%Y")  
d2$date = as.numeric(d2$date)
```

```
qlf$date = as.Date(qlf$VISITDTN, format = "%d%b%Y")  
qlf$date = as.numeric(qlf$date)
```

```
## extract needed variables for model
```

```
d2 = d2 %>%  
  dplyr:: select(contains("name", ignore.case = TRUE),  
                contains("date", ignore.case = TRUE),  
                contains("size", ignore.case = TRUE))
```

```
qlf = qlf %>%  
  dplyr:: select(contains("name", ignore.case = TRUE),  
                contains("date", ignore.case = TRUE),  
                contains("size", ignore.case = TRUE))
```

```
## change to dataframe fro model use
```

```
d2 = as.data.frame(d2)  
qlf = as.data.frame(qlf)
```

```
## check and delet missing value
```

```
lapply(d2, function(x) {length(which(is.na(x)))})
```

```
## $name  
## [1] 0  
##  
## $date  
## [1] 0  
##  
## $size  
## [1] 27
```

```
lapply(qlf, function(x) {length(which(is.na(x)))})
```

```
## $name  
## [1] 0  
##  
## $date  
## [1] 0
```

```
##
## $size
## [1] 0
```

```
d2 = na.omit(d2)
```

```
## run model
```

```
out1 = gdrate(d2, 0.05, FALSE)
out2 = gdrate(qlf, 0.05, FALSE)
```

```
out1$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|------|----|------------|
| ## 1 | excluded no 2 evals not 20% diff | 33 | 42 | |
| ## 2 | excluded no error data | 26 | 33 | |
| ## 3 | excluded yes not fit | 6 | 8 | |
| ## 4 | excluded no only 1 eval | 3 | 4 | |
| ## 5 | included yes dx | 5 | 6 | |
| ## 6 | included yes gd | 3 | 4 | |
| ## 7 | included yes gx | 2 | 3 | |

```
out2$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|------|----|------------|
| ## 1 | excluded no 2 evals not 20% diff | 9 | 11 | |
| ## 2 | excluded yes not fit | 22 | 27 | |
| ## 3 | included yes dx | 21 | 26 | |
| ## 4 | included yes gd | 9 | 11 | |
| ## 5 | included yes gdphi | 1 | 1 | |
| ## 6 | included yes gx | 19 | 23 | |

```
out1$results
```

| ## | name | N | type | selectedFit | g | d phi |
|-------|------|-------------------------------|------------|--------------|--------------|-------|
| ## 1 | 1 8 | excluded | not fit | NA | NA | NA |
| ## 2 | 10 3 | included | gd | 0.0002638243 | 2.792243e-04 | NA |
| ## 3 | 11 4 | excluded | not fit | NA | NA | NA |
| ## 4 | 12 3 | included | dx | NA | 2.029713e-04 | NA |
| ## 5 | 13 4 | included | gd | 0.0003193456 | 2.368807e-03 | NA |
| ## 6 | 15 3 | excluded | error data | NA | NA | NA |
| ## 7 | 16 3 | included | gd | 0.0003420509 | 2.129747e-03 | NA |
| ## 8 | 17 4 | excluded | error data | NA | NA | NA |
| ## 9 | 18 2 | included | dx | NA | 4.070148e-04 | NA |
| ## 10 | 19 5 | excluded | error data | NA | NA | NA |
| ## 11 | 2 2 | excluded 2 evals not 20% diff | | NA | NA | NA |
| ## 12 | 20 2 | excluded 2 evals not 20% diff | | NA | NA | NA |
| ## 13 | 21 3 | excluded | error data | NA | NA | NA |
| ## 14 | 22 2 | excluded 2 evals not 20% diff | | NA | NA | NA |
| ## 15 | 23 2 | excluded 2 evals not 20% diff | | NA | NA | NA |
| ## 16 | 24 2 | excluded 2 evals not 20% diff | | NA | NA | NA |

| | | | | | | |
|-------|------|------------------|-----------------|-----------------|----|----|
| ## 17 | 25 3 | excluded | error data | NA | NA | NA |
| ## 18 | 26 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 19 | 27 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 20 | 28 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 21 | 29 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 22 | 3 3 | excluded | error data | NA | NA | NA |
| ## 23 | 30 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 24 | 31 1 | excluded | only 1 eval | NA | NA | NA |
| ## 25 | 32 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 26 | 33 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 27 | 34 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 28 | 35 2 | included | gx 0.0037189528 | NA | NA | NA |
| ## 29 | 36 3 | excluded | error data | NA | NA | NA |
| ## 30 | 37 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 31 | 38 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 32 | 39 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 33 | 4 3 | excluded | not fit | NA | NA | NA |
| ## 34 | 40 3 | excluded | error data | NA | NA | NA |
| ## 35 | 41 5 | excluded | error data | NA | NA | NA |
| ## 36 | 42 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 37 | 43 3 | excluded | error data | NA | NA | NA |
| ## 38 | 44 5 | excluded | error data | NA | NA | NA |
| ## 39 | 45 3 | excluded | error data | NA | NA | NA |
| ## 40 | 46 4 | excluded | error data | NA | NA | NA |
| ## 41 | 47 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 42 | 49 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 43 | 5 4 | excluded | not fit | NA | NA | NA |
| ## 44 | 50 4 | excluded | error data | NA | NA | NA |
| ## 45 | 51 3 | excluded | error data | NA | NA | NA |
| ## 46 | 52 1 | excluded | only 1 eval | NA | NA | NA |
| ## 47 | 53 3 | excluded | error data | NA | NA | NA |
| ## 48 | 54 6 | excluded | error data | NA | NA | NA |
| ## 49 | 55 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 50 | 56 2 | included | dx | NA 7.558949e-03 | NA | NA |
| ## 51 | 57 4 | excluded | error data | NA | NA | NA |
| ## 52 | 58 2 | included | dx | NA 2.688239e-03 | NA | NA |
| ## 53 | 59 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 54 | 6 7 | excluded | error data | NA | NA | NA |
| ## 55 | 60 1 | excluded | only 1 eval | NA | NA | NA |
| ## 56 | 61 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 57 | 62 5 | excluded | error data | NA | NA | NA |
| ## 58 | 63 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 59 | 64 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 60 | 65 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 61 | 66 6 | excluded | not fit | NA | NA | NA |
| ## 62 | 67 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 63 | 68 3 | excluded | error data | NA | NA | NA |
| ## 64 | 69 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 65 | 7 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 66 | 70 2 | excluded 2 evals | not 20% diff | NA | NA | NA |
| ## 67 | 71 3 | excluded | error data | NA | NA | NA |
| ## 68 | 72 3 | excluded | error data | NA | NA | NA |
| ## 69 | 73 3 | excluded | error data | NA | NA | NA |
| ## 70 | 74 2 | excluded 2 evals | not 20% diff | NA | NA | NA |

| | | | | | | | |
|-------|----|---|----------|----------------------|-----------------|----|----|
| ## 71 | 75 | 4 | excluded | error data | NA | NA | NA |
| ## 72 | 76 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 73 | 78 | 5 | excluded | error data | NA | NA | NA |
| ## 74 | 79 | 4 | excluded | not fit | NA | NA | NA |
| ## 75 | 8 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 76 | 80 | 2 | included | gx 0.0041707573 | NA | NA | NA |
| ## 77 | 81 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 78 | 9 | 8 | included | dx | NA 9.144017e-05 | NA | NA |

out2\$results

| ## | name | N | type | selectedFit | g | d | phi |
|-------|------|---|----------|------------------------------|-----------------|----|-----|
| ## 1 | 1 | 8 | included | dx | NA 4.250205e-05 | NA | NA |
| ## 2 | 10 | 3 | excluded | not fit | NA | NA | NA |
| ## 3 | 11 | 4 | excluded | not fit | NA | NA | NA |
| ## 4 | 12 | 3 | included | gx 3.695297e-04 | NA | NA | NA |
| ## 5 | 13 | 4 | excluded | not fit | NA | NA | NA |
| ## 6 | 14 | 7 | included | gx 4.709383e-04 | NA | NA | NA |
| ## 7 | 15 | 3 | excluded | not fit | NA | NA | NA |
| ## 8 | 16 | 3 | included | gd 3.472976e-04 1.538204e-03 | NA | NA | NA |
| ## 9 | 17 | 4 | included | gd 1.134232e-03 6.423720e-03 | NA | NA | NA |
| ## 10 | 18 | 2 | included | gx 1.129606e-04 | NA | NA | NA |
| ## 11 | 19 | 5 | included | gx 4.696639e-03 | NA | NA | NA |
| ## 12 | 2 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 13 | 20 | 2 | included | gx 2.064491e-03 | NA | NA | NA |
| ## 14 | 21 | 3 | excluded | not fit | NA | NA | NA |
| ## 15 | 22 | 2 | included | dx | NA 2.887504e-03 | NA | NA |
| ## 16 | 23 | 3 | included | gx 4.318699e-03 | NA | NA | NA |
| ## 17 | 24 | 2 | included | gx 1.821757e-03 | NA | NA | NA |
| ## 18 | 25 | 3 | excluded | not fit | NA | NA | NA |
| ## 19 | 26 | 2 | included | gx 7.679729e-04 | NA | NA | NA |
| ## 20 | 27 | 2 | included | gx 2.359925e-03 | NA | NA | NA |
| ## 21 | 28 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 22 | 29 | 2 | included | gx 4.853069e-03 | NA | NA | NA |
| ## 23 | 3 | 3 | excluded | not fit | NA | NA | NA |
| ## 24 | 30 | 2 | included | dx | NA 2.287351e-03 | NA | NA |
| ## 25 | 31 | 2 | included | gx 2.121368e-03 | NA | NA | NA |
| ## 26 | 32 | 2 | included | dx | NA 2.871167e-03 | NA | NA |
| ## 27 | 33 | 2 | included | dx | NA 2.410754e-03 | NA | NA |
| ## 28 | 34 | 2 | included | dx | NA 3.905363e-03 | NA | NA |
| ## 29 | 35 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 30 | 36 | 3 | excluded | not fit | NA | NA | NA |
| ## 31 | 37 | 2 | included | dx | NA 2.608027e-03 | NA | NA |
| ## 32 | 38 | 2 | included | dx | NA 1.507024e-03 | NA | NA |
| ## 33 | 39 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 34 | 4 | 3 | included | dx | NA 6.964839e-05 | NA | NA |
| ## 35 | 40 | 3 | included | gd 1.718128e-03 2.571567e-03 | NA | NA | NA |
| ## 36 | 41 | 5 | excluded | not fit | NA | NA | NA |
| ## 37 | 42 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 38 | 43 | 3 | included | gd 1.137679e-03 2.858925e-03 | NA | NA | NA |
| ## 39 | 44 | 5 | included | gd 4.289819e-04 1.233418e-02 | NA | NA | NA |
| ## 40 | 45 | 3 | excluded | not fit | NA | NA | NA |
| ## 41 | 46 | 4 | excluded | not fit | NA | NA | NA |
| ## 42 | 47 | 2 | included | gx 9.967953e-03 | NA | NA | NA |

| | | | | | | | |
|-------|----|---|----------|----------------------|--------------|--------------|-----------|
| ## 43 | 48 | 5 | excluded | not fit | NA | NA | NA |
| ## 44 | 49 | 2 | included | dx | NA | 1.508916e-03 | NA |
| ## 45 | 5 | 4 | included | gx | 2.809419e-04 | NA | NA |
| ## 46 | 50 | 4 | included | dx | NA | 6.174451e-04 | NA |
| ## 47 | 51 | 3 | included | gd | 3.268313e-04 | 2.942957e-03 | NA |
| ## 48 | 52 | 2 | included | dx | NA | 2.653565e-04 | NA |
| ## 49 | 53 | 3 | excluded | not fit | NA | NA | NA |
| ## 50 | 54 | 7 | excluded | not fit | NA | NA | NA |
| ## 51 | 55 | 2 | included | dx | NA | 3.365417e-04 | NA |
| ## 52 | 56 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 53 | 57 | 4 | included | gx | 2.337276e-04 | NA | NA |
| ## 54 | 58 | 2 | included | dx | NA | 5.103204e-03 | NA |
| ## 55 | 59 | 2 | included | dx | NA | 3.534236e-03 | NA |
| ## 56 | 6 | 7 | included | gd | 5.119076e-05 | 4.800404e-03 | NA |
| ## 57 | 60 | 2 | included | gx | 9.608521e-04 | NA | NA |
| ## 58 | 61 | 2 | excluded | not fit | NA | NA | NA |
| ## 59 | 62 | 5 | excluded | not fit | NA | NA | NA |
| ## 60 | 63 | 2 | included | gx | 2.674736e-03 | NA | NA |
| ## 61 | 64 | 2 | included | dx | NA | 5.694445e-04 | NA |
| ## 62 | 65 | 2 | included | dx | NA | 3.970820e-04 | NA |
| ## 63 | 66 | 6 | included | gdphi | 3.958584e-04 | 5.663152e-03 | 0.6397329 |
| ## 64 | 67 | 2 | included | dx | NA | 2.361476e-03 | NA |
| ## 65 | 68 | 4 | excluded | not fit | NA | NA | NA |
| ## 66 | 69 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 67 | 7 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 68 | 70 | 3 | included | gd | 7.218299e-04 | 1.139716e-03 | NA |
| ## 69 | 71 | 3 | included | gd | 7.128279e-04 | 1.883934e-03 | NA |
| ## 70 | 72 | 4 | excluded | not fit | NA | NA | NA |
| ## 71 | 73 | 3 | excluded | not fit | NA | NA | NA |
| ## 72 | 74 | 2 | included | dx | NA | 5.929183e-04 | NA |
| ## 73 | 75 | 4 | excluded | not fit | NA | NA | NA |
| ## 74 | 76 | 2 | excluded | 2 evals not 20% diff | NA | NA | NA |
| ## 75 | 77 | 6 | excluded | not fit | NA | NA | NA |
| ## 76 | 78 | 5 | included | gx | 1.787813e-04 | NA | NA |
| ## 77 | 79 | 3 | excluded | not fit | NA | NA | NA |
| ## 78 | 8 | 2 | included | dx | NA | 5.316098e-04 | NA |
| ## 79 | 80 | 2 | included | dx | NA | 4.772922e-03 | NA |
| ## 80 | 81 | 2 | included | gx | 4.927585e-04 | NA | NA |
| ## 81 | 9 | 9 | included | gx | 4.825402e-04 | NA | NA |

Define a function to generate the plot

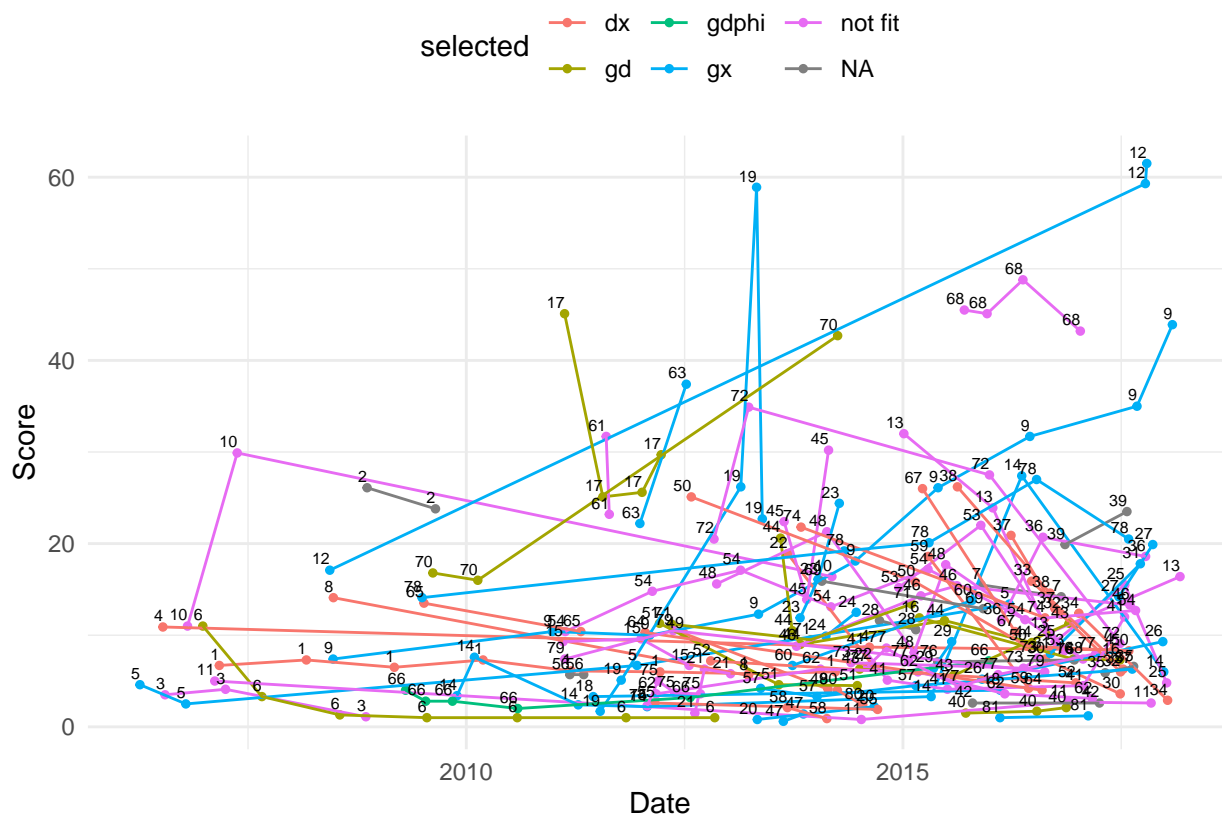
```
plot_data = function(data) {
```

```
  # Create a new plot
```

```
  plot = ggplot(data, aes(x = date, y = size, group = name, color = selected)) +
    geom_point(size = 1) +
    geom_line() +
    labs(x = "Date", y = "Score") +
    theme_minimal() +
    theme(legend.position = "top")
```

```
  # Add text labels for name on each line
```

```
  plot = plot + geom_text(aes(label = name), vjust = -0.5, hjust = 1,
    size = 2, color = "black")
```

combined data which now contains treatments

```
## read data

DF1 = read.table(
  "~/Desktop/MS report/data/Data-selected/10083_IMQUAL_010ct2021.csv",
  sep = ",", header = TRUE)

DF2 = read.table(
  "~/Desktop/MS report/data/Data-selected/10083_TEXTCAD_010ct2021.csv",
  sep = ",", header = TRUE)

Treat = read.table(
  "~/Desktop/MS report/data/Data-selected 2/IIMQILD_221104_Box.csv",
  sep = ",", header = TRUE)

## change column name for merge
colnames(Treat)[which(names(Treat) == "Patient_ID")] <- "SUBJID"

##merge
DF1_merge = merge(DF1, Treat, by = 'SUBJID', all = TRUE)
DF2_merge = merge(DF2, Treat, by = 'SUBJID', all = TRUE)

##extract needed variables
```



```

d2 = DF1_merge %>%
  dplyr:: select(Age,
                 V1_WL_QLF,
                 V1_WL_QILD,
                 contains("SUBJID",ignore.case = FALSE),
                 contains("VISITDTN",ignore.case = FALSE),
                 contains("Sex",ignore.case = FALSE),
                 contains("V1_CTdate",ignore.case = FALSE),
                 contains("V1V2",ignore.case = FALSE),
                 contains("SLICE",ignore.case = FALSE))

qlf = DF2_merge %>%
  dplyr:: select(Age,
                 V1_WL_QLF,
                 V1_WL_QILD,
                 QLFCAD,
                 contains("SUBJID",ignore.case = FALSE),
                 contains("VISITDTN",ignore.case = FALSE),
                 contains("Sex",ignore.case = FALSE),
                 contains("V1_CTdate",ignore.case = FALSE),
                 contains("V1V2",ignore.case = FALSE),
                 contains("REGI",ignore.case = FALSE))

## only need whole lung data
qlf = qlf[grep("WHOLE", qlf$REGION), , drop = FALSE]

## change variable type

d2$name = as.numeric(factor(d2$SUBJID,
                           levels=unique(d2$SUBJID)))
qlf$name = as.numeric(factor(qlf$SUBJID,
                           levels=unique(qlf$SUBJID)))

d2$SLICE_THICKNESS = as.numeric(d2$SLICE_THICKNESS)
d2$SLICE_SPACING = as.numeric(d2$SLICE_SPACING)

## Warning: NAs introduced by coercion

d2$size = d2$SLICE_THICKNESS * d2$SLICE_SPACING

colnames(qlf)[which(names(qlf) == "QLFCAD")] = "size"

## check and delet missing value

#lapply(d2, function(x) {length(which(is.na(x)))})
#lapply(qlf, function(x) {length(which(is.na(x)))})
#d2 = na.omit(d2)

## change time to day due model requirement

```

```

d2$date = as.Date(d2$VISITDTN, format = "%d%b%Y")
d2$date = as.numeric(d2$date)

qlf$date = as.Date(qlf$VISITDTN, format = "%d%b%Y")
qlf$date = as.numeric(qlf$date)

as.data.frame(qlf)

```

| ## | Age | V1_WL_QLF | V1_WL_QILD | size | SUBJID | VISITDTN | Sex | V1_CTdate |
|--------|-----|-----------|------------|------|-----------------|-----------|-----|-----------|
| ## 3 | 54 | 6.7 | 18.6 | 7.3 | 10083_SNUBH_P01 | 03MAR2008 | 2 | 5-Mar-07 |
| ## 18 | 54 | 6.7 | 18.6 | 6.5 | 10083_SNUBH_P01 | 06MAR2009 | 2 | 5-Mar-07 |
| ## 29 | 54 | 6.7 | 18.6 | 6.7 | 10083_SNUBH_P01 | 05MAR2007 | 2 | 5-Mar-07 |
| ## 35 | 54 | 6.7 | 18.6 | 6.0 | 10083_SNUBH_P01 | 21MAR2012 | 2 | 5-Mar-07 |
| ## 44 | 54 | 6.7 | 18.6 | 5.8 | 10083_SNUBH_P01 | 27MAR2013 | 2 | 5-Mar-07 |
| ## 51 | 54 | 6.7 | 18.6 | 6.0 | 10083_SNUBH_P01 | 24MAR2014 | 2 | 5-Mar-07 |
| ## 55 | 54 | 6.7 | 18.6 | 7.3 | 10083_SNUBH_P01 | 12MAR2010 | 2 | 5-Mar-07 |
| ## 66 | 54 | 6.7 | 18.6 | 6.1 | 10083_SNUBH_P01 | 16MAR2011 | 2 | 5-Mar-07 |
| ## 76 | 68 | 26.1 | 48.3 | 26.1 | 10083_SNUBH_P02 | 12NOV2008 | 2 | 12-Nov-08 |
| ## 79 | 68 | 26.1 | 48.3 | 23.8 | 10083_SNUBH_P02 | 25AUG2009 | 2 | 12-Nov-08 |
| ## 104 | 25 | 3.5 | 8.0 | 1.1 | 10083_SNUBH_P03 | 07NOV2008 | 2 | 21-Jul-06 |
| ## 107 | 25 | 3.5 | 8.0 | 3.5 | 10083_SNUBH_P03 | 21JUL2006 | 2 | 21-Jul-06 |
| ## 111 | 25 | 3.5 | 8.0 | 4.1 | 10083_SNUBH_P03 | 31MAR2007 | 2 | 21-Jul-06 |
| ## 119 | 64 | 10.9 | 24.1 | 8.7 | 10083_SNUBH_P04 | 14AUG2014 | 2 | 12-Jul-06 |
| ## 123 | 64 | 10.9 | 24.1 | 8.4 | 10083_SNUBH_P04 | 31MAY2017 | 2 | 12-Jul-06 |
| ## 127 | 64 | 10.9 | 24.1 | 10.9 | 10083_SNUBH_P04 | 12JUL2006 | 2 | 12-Jul-06 |
| ## 146 | 57 | 4.6 | 12.5 | 4.6 | 10083_SNUBH_P05 | 07APR2006 | 1 | 7-Apr-06 |
| ## 155 | 57 | 4.6 | 12.5 | 13.4 | 10083_SNUBH_P05 | 21MAR2016 | 1 | 7-Apr-06 |
| ## 166 | 57 | 4.6 | 12.5 | 2.5 | 10083_SNUBH_P05 | 16OCT2006 | 1 | 7-Apr-06 |
| ## 176 | 57 | 4.6 | 12.5 | 6.7 | 10083_SNUBH_P05 | 16DEC2011 | 1 | 7-Apr-06 |
| ## 183 | 49 | 11.0 | 20.2 | 11.0 | 10083_SNUBH_P06 | 26DEC2006 | 1 | 26-Dec-06 |
| ## 192 | 49 | 11.0 | 20.2 | 1.0 | 10083_SNUBH_P06 | 20JUL2009 | 1 | 26-Dec-06 |
| ## 203 | 49 | 11.0 | 20.2 | 1.0 | 10083_SNUBH_P06 | 02AUG2010 | 1 | 26-Dec-06 |
| ## 215 | 49 | 11.0 | 20.2 | 1.0 | 10083_SNUBH_P06 | 31OCT2011 | 1 | 26-Dec-06 |
| ## 223 | 49 | 11.0 | 20.2 | 1.0 | 10083_SNUBH_P06 | 05NOV2012 | 1 | 26-Dec-06 |
| ## 237 | 49 | 11.0 | 20.2 | 1.3 | 10083_SNUBH_P06 | 21JUL2008 | 1 | 26-Dec-06 |
| ## 242 | 49 | 11.0 | 20.2 | 3.3 | 10083_SNUBH_P06 | 30AUG2007 | 1 | 26-Dec-06 |
| ## 246 | 48 | 15.5 | 36.8 | 14.2 | 10083_SNUBH_P07 | 24OCT2016 | 2 | 24-Nov-15 |
| ## 257 | 48 | 15.5 | 36.8 | 15.5 | 10083_SNUBH_P07 | 24NOV2015 | 2 | 24-Nov-15 |
| ## 265 | 63 | 14.1 | 50.5 | 14.1 | 10083_SNUBH_P08 | 24JUN2008 | 2 | 24-Jun-08 |
| ## 268 | 63 | 14.1 | 50.5 | 5.6 | 10083_SNUBH_P08 | 26MAR2013 | 2 | 24-Jun-08 |
| ## 291 | 59 | 7.4 | 21.1 | 12.3 | 10083_SNUBH_P09 | 07MAY2013 | 2 | 23-Jun-08 |
| ## 300 | 59 | 7.4 | 21.1 | 10.0 | 10083_SNUBH_P09 | 07FEB2012 | 2 | 23-Jun-08 |
| ## 309 | 59 | 7.4 | 21.1 | 7.4 | 10083_SNUBH_P09 | 23JUN2008 | 2 | 23-Jun-08 |
| ## 311 | 59 | 7.4 | 21.1 | 10.4 | 10083_SNUBH_P09 | 27DEC2010 | 2 | 23-Jun-08 |
| ## 321 | 59 | 7.4 | 21.1 | 31.7 | 10083_SNUBH_P09 | 15JUN2016 | 2 | 23-Jun-08 |
| ## 331 | 59 | 7.4 | 21.1 | 35.0 | 10083_SNUBH_P09 | 06SEP2017 | 2 | 23-Jun-08 |
| ## 339 | 59 | 7.4 | 21.1 | 43.9 | 10083_SNUBH_P09 | 01FEB2018 | 2 | 23-Jun-08 |
| ## 347 | 59 | 7.4 | 21.1 | 18.1 | 10083_SNUBH_P09 | 16JUN2014 | 2 | 23-Jun-08 |
| ## 352 | 59 | 7.4 | 21.1 | 26.1 | 10083_SNUBH_P09 | 28MAY2015 | 2 | 23-Jun-08 |
| ## 367 | 58 | 11.0 | 29.4 | 16.4 | 10083_SNUBH_P10 | 10MAR2014 | 2 | 23-Oct-06 |
| ## 369 | 58 | 11.0 | 29.4 | 29.9 | 10083_SNUBH_P10 | 19MAY2007 | 2 | 23-Oct-06 |
| ## 376 | 58 | 11.0 | 29.4 | 11.0 | 10083_SNUBH_P10 | 23OCT2006 | 2 | 23-Oct-06 |

| | | | | | | | | | |
|----|-----|----|------|------|------|-----------------|-----------|---|-----------|
| ## | 394 | 34 | 5.0 | 19.2 | 5.0 | 10083_SNUBH_P11 | 14FEB2007 | 2 | 14-Feb-07 |
| ## | 400 | 34 | 5.0 | 19.2 | 2.6 | 10083_SNUBH_P11 | 04NOV2017 | 2 | 14-Feb-07 |
| ## | 413 | 34 | 5.0 | 19.2 | 0.8 | 10083_SNUBH_P11 | 11JUL2014 | 2 | 14-Feb-07 |
| ## | 423 | 34 | 5.0 | 19.2 | 2.7 | 10083_SNUBH_P11 | 22NOV2016 | 2 | 14-Feb-07 |
| ## | 427 | 69 | 17.1 | 46.8 | 17.1 | 10083_SNUBH_P12 | 09JUN2008 | 2 | 9-Jun-08 |
| ## | 443 | 69 | 17.1 | 46.8 | 61.5 | 10083_SNUBH_P12 | 17OCT2017 | 2 | 9-Jun-08 |
| ## | 446 | 69 | 17.1 | 46.8 | 59.3 | 10083_SNUBH_P12 | 11OCT2017 | 2 | 9-Jun-08 |
| ## | 453 | 39 | 32.0 | 58.9 | 32.0 | 10083_SNUBH_P13 | 05JAN2015 | 2 | 5-Jan-15 |
| ## | 466 | 39 | 32.0 | 58.9 | 10.2 | 10083_SNUBH_P13 | 31AUG2016 | 2 | 5-Jan-15 |
| ## | 471 | 39 | 32.0 | 58.9 | 23.9 | 10083_SNUBH_P13 | 12JAN2016 | 2 | 5-Jan-15 |
| ## | 482 | 39 | 32.0 | 58.9 | 16.4 | 10083_SNUBH_P13 | 05MAR2018 | 2 | 5-Jan-15 |
| ## | 489 | 46 | 3.4 | 28.5 | 3.4 | 10083_SNUBH_P14 | 23NOV2009 | 2 | 23-Nov-09 |
| ## | 497 | 46 | 3.4 | 28.5 | 2.2 | 10083_SNUBH_P14 | 27JAN2012 | 2 | 23-Nov-09 |
| ## | 498 | 46 | 3.4 | 28.5 | 7.6 | 10083_SNUBH_P14 | 04FEB2010 | 2 | 23-Nov-09 |
| ## | 502 | 46 | 3.4 | 28.5 | 2.4 | 10083_SNUBH_P14 | 14APR2011 | 2 | 23-Nov-09 |
| ## | 516 | 46 | 3.4 | 28.5 | 27.4 | 10083_SNUBH_P14 | 12MAY2016 | 2 | 23-Nov-09 |
| ## | 530 | 46 | 3.4 | 28.5 | 6.0 | 10083_SNUBH_P14 | 27DEC2017 | 2 | 23-Nov-09 |
| ## | 537 | 46 | 3.4 | 28.5 | 3.3 | 10083_SNUBH_P14 | 29APR2015 | 2 | 23-Nov-09 |
| ## | 554 | 57 | 9.3 | 28.5 | 9.3 | 10083_SNUBH_P15 | 10FEB2011 | 1 | 10-Feb-11 |
| ## | 559 | 57 | 9.3 | 28.5 | 9.6 | 10083_SNUBH_P15 | 02JAN2012 | 1 | 10-Feb-11 |
| ## | 575 | 57 | 9.3 | 28.5 | 6.7 | 10083_SNUBH_P15 | 21JUL2012 | 1 | 10-Feb-11 |
| ## | 580 | 61 | 11.9 | 35.1 | 11.9 | 10083_SNUBH_P16 | 11MAR2015 | 2 | 11-Mar-15 |
| ## | 586 | 61 | 11.9 | 35.1 | 7.4 | 10083_SNUBH_P16 | 14DEC2016 | 2 | 11-Mar-15 |
| ## | 590 | 61 | 11.9 | 35.1 | 7.3 | 10083_SNUBH_P16 | 27JUN2017 | 2 | 11-Mar-15 |
| ## | 608 | 52 | 45.1 | 75.1 | 25.6 | 10083_SNUBH_P17 | 06JAN2012 | 2 | 16-Feb-11 |
| ## | 612 | 52 | 45.1 | 75.1 | 25.1 | 10083_SNUBH_P17 | 26JUL2011 | 2 | 16-Feb-11 |
| ## | 617 | 52 | 45.1 | 75.1 | 29.7 | 10083_SNUBH_P17 | 26MAR2012 | 2 | 16-Feb-11 |
| ## | 629 | 52 | 45.1 | 75.1 | 45.1 | 10083_SNUBH_P17 | 16FEB2011 | 2 | 16-Feb-11 |
| ## | 640 | 56 | 3.3 | 9.4 | 4.0 | 10083_SNUBH_P18 | 12FEB2016 | 1 | 16-Jun-11 |
| ## | 647 | 56 | 3.3 | 9.4 | 3.3 | 10083_SNUBH_P18 | 16JUN2011 | 1 | 16-Jun-11 |
| ## | 661 | 42 | 1.7 | 16.9 | 1.7 | 10083_SNUBH_P19 | 15JUL2011 | 2 | 15-Jul-11 |
| ## | 666 | 42 | 1.7 | 16.9 | 5.1 | 10083_SNUBH_P19 | 11OCT2011 | 2 | 15-Jul-11 |
| ## | 681 | 42 | 1.7 | 16.9 | 22.7 | 10083_SNUBH_P19 | 23MAY2013 | 2 | 15-Jul-11 |
| ## | 692 | 42 | 1.7 | 16.9 | 26.2 | 10083_SNUBH_P19 | 22FEB2013 | 2 | 15-Jul-11 |
| ## | 701 | 42 | 1.7 | 16.9 | 58.9 | 10083_SNUBH_P19 | 29APR2013 | 2 | 15-Jul-11 |
| ## | 705 | 49 | 0.8 | 9.9 | 0.8 | 10083_SNUBH_P20 | 02MAY2013 | 2 | 2-May-13 |
| ## | 712 | 49 | 0.8 | 9.9 | 2.2 | 10083_SNUBH_P20 | 03SEP2014 | 2 | 2-May-13 |
| ## | 725 | 60 | 1.5 | 9.6 | 5.8 | 10083_SNUBH_P21 | 10JAN2013 | 2 | 14-Aug-12 |
| ## | 732 | 60 | 1.5 | 9.6 | 1.5 | 10083_SNUBH_P21 | 14AUG2012 | 2 | 14-Aug-12 |
| ## | 747 | 60 | 1.5 | 9.6 | 6.3 | 10083_SNUBH_P21 | 23SEP2012 | 2 | 14-Aug-12 |
| ## | 751 | 76 | 18.9 | 56.0 | 18.9 | 10083_SNUBH_P22 | 06SEP2013 | 2 | 6-Sep-13 |
| ## | 765 | 76 | 18.9 | 56.0 | 6.8 | 10083_SNUBH_P22 | 25AUG2014 | 2 | 6-Sep-13 |
| ## | 770 | 55 | 11.9 | 35.0 | 24.4 | 10083_SNUBH_P23 | 10APR2014 | 2 | 28-Oct-13 |
| ## | 774 | 55 | 11.9 | 35.0 | 16.1 | 10083_SNUBH_P23 | 11JAN2014 | 2 | 28-Oct-13 |
| ## | 776 | 55 | 11.9 | 35.0 | 11.9 | 10083_SNUBH_P23 | 28OCT2013 | 2 | 28-Oct-13 |
| ## | 801 | 32 | 9.9 | 17.9 | 12.5 | 10083_SNUBH_P24 | 20JUN2014 | 2 | 13-Feb-14 |
| ## | 810 | 32 | 9.9 | 17.9 | 9.9 | 10083_SNUBH_P24 | 13FEB2014 | 2 | 13-Feb-14 |
| ## | 823 | 48 | 9.3 | 27.1 | 15.5 | 10083_SNUBH_P25 | 17JUL2017 | 2 | 29-Sep-16 |
| ## | 832 | 48 | 9.3 | 27.1 | 4.8 | 10083_SNUBH_P25 | 08JAN2018 | 2 | 29-Sep-16 |
| ## | 836 | 48 | 9.3 | 27.1 | 9.3 | 10083_SNUBH_P25 | 29SEP2016 | 2 | 29-Sep-16 |
| ## | 848 | 41 | 5.2 | 17.9 | 9.3 | 10083_SNUBH_P26 | 23DEC2017 | 1 | 28-Nov-15 |
| ## | 852 | 41 | 5.2 | 17.9 | 5.2 | 10083_SNUBH_P26 | 28NOV2015 | 1 | 28-Nov-15 |
| ## | 860 | 57 | 14.2 | 40.5 | 14.2 | 10083_SNUBH_P27 | 22JUN2017 | 1 | 22-Jun-17 |
| ## | 872 | 57 | 14.2 | 40.5 | 19.9 | 10083_SNUBH_P27 | 11NOV2017 | 1 | 22-Jun-17 |

| | | | | | | | | |
|---------|----|------|------|------|-----------------|-----------|---|-----------|
| ## 877 | 71 | 12.4 | 32.9 | 11.6 | 10083_SNUBH_P28 | 25SEP2014 | 1 | 25-Sep-14 |
| ## 884 | 71 | 12.4 | 32.9 | 10.6 | 10083_SNUBH_P28 | 24FEB2015 | 1 | 25-Sep-14 |
| ## 896 | 42 | 6.4 | 20.0 | 9.3 | 10083_SNUBH_P29 | 24JUL2015 | 2 | 9-May-15 |
| ## 908 | 42 | 6.4 | 20.0 | 6.4 | 10083_SNUBH_P29 | 09MAY2015 | 2 | 9-May-15 |
| ## 911 | 35 | 7.4 | 17.0 | 7.4 | 10083_SNUBH_P30 | 18AUG2016 | 2 | 18-Aug-16 |
| ## 920 | 35 | 7.4 | 17.0 | 3.6 | 10083_SNUBH_P30 | 28JUN2017 | 2 | 18-Aug-16 |
| ## 936 | 37 | 8.0 | 21.7 | 17.8 | 10083_SNUBH_P31 | 20SEP2017 | 1 | 9-Sep-16 |
| ## 942 | 37 | 8.0 | 21.7 | 8.0 | 10083_SNUBH_P31 | 09SEP2016 | 1 | 9-Sep-16 |
| ## 956 | 44 | 12.3 | 30.4 | 6.0 | 10083_SNUBH_P32 | 29JUN2017 | 2 | 23-Oct-16 |
| ## 959 | 44 | 12.3 | 30.4 | 12.3 | 10083_SNUBH_P32 | 23OCT2016 | 2 | 23-Oct-16 |
| ## 976 | 68 | 15.9 | 40.9 | 15.9 | 10083_SNUBH_P33 | 22JUN2016 | 2 | 22-Jun-16 |
| ## 979 | 68 | 15.9 | 40.9 | 6.3 | 10083_SNUBH_P33 | 10JUL2017 | 2 | 22-Jun-16 |
| ## 994 | 59 | 12.4 | 48.8 | 2.9 | 10083_SNUBH_P34 | 12JAN2018 | 2 | 6-Jan-17 |
| ## 997 | 59 | 12.4 | 48.8 | 12.4 | 10083_SNUBH_P34 | 06JAN2017 | 2 | 6-Jan-17 |
| ## 1013 | 52 | 5.9 | 21.8 | 5.9 | 10083_SNUH_P01 | 26APR2017 | 2 | 26-Apr-17 |
| ## 1015 | 52 | 5.9 | 21.8 | 6.6 | 10083_SNUH_P01 | 23AUG2017 | 2 | 26-Apr-17 |
| ## 1028 | 57 | 11.7 | 22.4 | 20.7 | 10083_SNUH_P02 | 09AUG2016 | 1 | 17-Feb-16 |
| ## 1031 | 57 | 11.7 | 22.4 | 18.6 | 10083_SNUH_P02 | 12OCT2017 | 1 | 17-Feb-16 |
| ## 1040 | 57 | 11.7 | 22.4 | 11.7 | 10083_SNUH_P02 | 17FEB2016 | 1 | 17-Feb-16 |
| ## 1047 | 71 | 20.9 | 50.2 | 20.9 | 10083_SNUH_P03 | 28MAR2016 | 1 | 28-Mar-16 |
| ## 1059 | 71 | 20.9 | 50.2 | 12.9 | 10083_SNUH_P03 | 28SEP2016 | 1 | 28-Mar-16 |
| ## 1065 | 46 | 26.2 | 50.2 | 26.2 | 10083_SNUH_P04 | 17AUG2015 | 2 | 17-Aug-15 |
| ## 1080 | 46 | 26.2 | 50.2 | 14.6 | 10083_SNUH_P04 | 07SEP2016 | 2 | 17-Aug-15 |
| ## 1093 | 52 | 19.9 | 45.2 | 19.9 | 10083_SNUH_P05 | 09NOV2016 | 2 | 9-Nov-16 |
| ## 1096 | 52 | 19.9 | 45.2 | 23.5 | 10083_SNUH_P05 | 26JUL2017 | 2 | 9-Nov-16 |
| ## 1110 | 51 | 1.5 | 19.3 | 1.7 | 10083_SNUH_P06 | 14JUL2016 | 2 | 21-Sep-15 |
| ## 1116 | 51 | 1.5 | 19.3 | 2.1 | 10083_SNUH_P06 | 14NOV2016 | 2 | 21-Sep-15 |
| ## 1121 | 51 | 1.5 | 19.3 | 1.5 | 10083_SNUH_P06 | 21SEP2015 | 2 | 21-Sep-15 |
| ## 1139 | 61 | 8.4 | 21.8 | 4.5 | 10083_SNUH_P07 | 25JAN2017 | 1 | 25-Jul-14 |
| ## 1146 | 61 | 8.4 | 21.8 | 4.1 | 10083_SNUH_P07 | 06JUL2015 | 1 | 25-Jul-14 |
| ## 1149 | 61 | 8.4 | 21.8 | 8.4 | 10083_SNUH_P07 | 25JUL2014 | 1 | 25-Jul-14 |
| ## 1161 | 61 | 8.4 | 21.8 | 5.1 | 10083_SNUH_P07 | 28OCT2014 | 1 | 25-Jul-14 |
| ## 1166 | 61 | 8.4 | 21.8 | 12.0 | 10083_SNUH_P07 | 16JUL2017 | 1 | 25-Jul-14 |
| ## 1177 | 34 | 2.6 | 26.7 | 2.6 | 10083_SNUH_P08 | 02APR2017 | 2 | 19-Oct-15 |
| ## 1182 | 34 | 2.6 | 26.7 | 2.6 | 10083_SNUH_P08 | 19OCT2015 | 2 | 19-Oct-15 |
| ## 1195 | 75 | 7.7 | 34.0 | 5.6 | 10083_SNUH_P09 | 31JUL2015 | 2 | 4-Jul-14 |
| ## 1201 | 75 | 7.7 | 34.0 | 6.3 | 10083_SNUH_P09 | 04JUL2014 | 2 | 4-Jul-14 |
| ## 1211 | 75 | 7.7 | 34.0 | 11.3 | 10083_SNUH_P09 | 26NOV2016 | 2 | 4-Jul-14 |
| ## 1220 | 57 | 20.6 | 43.9 | 10.5 | 10083_SNUH_P10 | 25SEP2013 | 2 | 7-Aug-13 |
| ## 1233 | 57 | 20.6 | 43.9 | 9.0 | 10083_SNUH_P10 | 29OCT2013 | 2 | 7-Aug-13 |
| ## 1243 | 57 | 20.6 | 43.9 | 20.6 | 10083_SNUH_P10 | 07AUG2013 | 2 | 7-Aug-13 |
| ## 1246 | 57 | 20.6 | 43.9 | 11.6 | 10083_SNUH_P10 | 24JUN2015 | 2 | 7-Aug-13 |
| ## 1249 | 57 | 20.6 | 43.9 | 9.2 | 10083_SNUH_P10 | 23JUN2016 | 2 | 7-Aug-13 |
| ## 1277 | 53 | 22.4 | 57.5 | 30.2 | 10083_SNUH_P11 | 24FEB2014 | 2 | 22-Aug-13 |
| ## 1280 | 53 | 22.4 | 57.5 | 13.9 | 10083_SNUH_P11 | 25NOV2013 | 2 | 22-Aug-13 |
| ## 1283 | 53 | 22.4 | 57.5 | 22.4 | 10083_SNUH_P11 | 22AUG2013 | 2 | 22-Aug-13 |
| ## 1293 | 53 | 8.8 | 22.4 | 15.4 | 10083_SNUH_P12 | 15AUG2015 | 1 | 13-Oct-13 |
| ## 1299 | 53 | 8.8 | 22.4 | 13.3 | 10083_SNUH_P12 | 07AUG2017 | 1 | 13-Oct-13 |
| ## 1317 | 53 | 8.8 | 22.4 | 8.8 | 10083_SNUH_P12 | 13OCT2013 | 1 | 13-Oct-13 |
| ## 1321 | 53 | 8.8 | 22.4 | 14.3 | 10083_SNUH_P12 | 17MAR2015 | 1 | 13-Oct-13 |
| ## 1332 | 48 | 0.6 | 4.3 | 1.4 | 10083_SNUH_P13 | 11NOV2013 | 2 | 19-Aug-13 |
| ## 1336 | 48 | 0.6 | 4.3 | 0.6 | 10083_SNUH_P13 | 19AUG2013 | 2 | 19-Aug-13 |
| ## 1353 | 41 | 15.6 | 32.7 | 21.3 | 10083_SNUH_P14 | 17FEB2014 | 2 | 13-Nov-12 |
| ## 1356 | 41 | 15.6 | 32.7 | 8.1 | 10083_SNUH_P14 | 17FEB2015 | 2 | 13-Nov-12 |

| | | | | | | | | | |
|----|------|----|------|------|------|----------------|-----------|----|-----------|
| ## | 1365 | 41 | 15.6 | 32.7 | 15.6 | 10083_SNUH_P14 | 13NOV2012 | 2 | 13-Nov-12 |
| ## | 1366 | 41 | 15.6 | 32.7 | 7.4 | 10083_SNUH_P14 | 23JAN2017 | 2 | 13-Nov-12 |
| ## | 1371 | 41 | 15.6 | 32.7 | 17.7 | 10083_SNUH_P14 | 29JUN2015 | 2 | 13-Nov-12 |
| ## | 1400 | 71 | 10.2 | 35.7 | 4.1 | 10083_SNUH_P15 | 22FEB2014 | 2 | 29-Jun-12 |
| ## | 1401 | 71 | 10.2 | 35.7 | 10.2 | 10083_SNUH_P15 | 29JUN2012 | 2 | 29-Jun-12 |
| ## | 1411 | 73 | 22.4 | 43.6 | 8.8 | 10083_SNUH_P16 | 03JUN2016 | 2 | 30-Jul-12 |
| ## | 1414 | 73 | 22.4 | 43.6 | 8.3 | 10083_SNUH_P16 | 03AUG2017 | 2 | 30-Jul-12 |
| ## | 1434 | 73 | 22.4 | 43.6 | 25.1 | 10083_SNUH_P16 | 30JUL2012 | 2 | 30-Jul-12 |
| ## | 1436 | 73 | 22.4 | 43.6 | 15.8 | 10083_SNUH_P16 | 22FEB2015 | 2 | 30-Jul-12 |
| ## | 1444 | 52 | 15.7 | 47.9 | 11.3 | 10083_SNUH_P17 | 19MAR2012 | 2 | 19-Mar-12 |
| ## | 1461 | 52 | 15.7 | 47.9 | 4.6 | 10083_SNUH_P17 | 31JUL2013 | 2 | 19-Mar-12 |
| ## | 1464 | 52 | 15.7 | 47.9 | 4.5 | 10083_SNUH_P17 | 24JUN2014 | 2 | 19-Mar-12 |
| ## | 1479 | 52 | 7.2 | 14.6 | 4.8 | 10083_SNUH_P18 | 24DEC2016 | 2 | 19-Oct-12 |
| ## | 1484 | 52 | 7.2 | 14.6 | 7.2 | 10083_SNUH_P18 | 19OCT2012 | 2 | 19-Oct-12 |
| ## | 1493 | 58 | 18.2 | 49.8 | 8.3 | 10083_SNUH_P19 | 06NOV2016 | 2 | 15-Dec-14 |
| ## | 1501 | 58 | 18.2 | 49.8 | 15.2 | 10083_SNUH_P19 | 15DEC2014 | 2 | 15-Dec-14 |
| ## | 1507 | 58 | 18.2 | 49.8 | 22.0 | 10083_SNUH_P19 | 23NOV2015 | 2 | 15-Dec-14 |
| ## | 1513 | 49 | 10.4 | 25.5 | 10.4 | 10083_SNUH_P20 | 19FEB2011 | 1 | 19-Feb-11 |
| ## | 1536 | 49 | 10.4 | 25.5 | 17.2 | 10083_SNUH_P20 | 16APR2015 | 1 | 19-Feb-11 |
| ## | 1547 | 49 | 10.4 | 25.5 | 11.7 | 10083_SNUH_P20 | 26MAY2016 | 1 | 19-Feb-11 |
| ## | 1550 | 49 | 10.4 | 25.5 | 12.7 | 10083_SNUH_P20 | 31AUG2017 | 1 | 19-Feb-11 |
| ## | 1558 | 49 | 10.4 | 25.5 | 17.1 | 10083_SNUH_P20 | 21FEB2013 | 1 | 19-Feb-11 |
| ## | 1566 | 49 | 10.4 | 25.5 | 13.1 | 10083_SNUH_P20 | 06MAR2014 | 1 | 19-Feb-11 |
| ## | 1574 | 49 | 10.4 | 25.5 | 14.8 | 10083_SNUH_P20 | 18FEB2012 | 1 | 19-Feb-11 |
| ## | 1576 | 43 | 2.6 | 21.1 | 1.9 | 10083_SNUH_P21 | 17SEP2014 | 2 | 29-Feb-12 |
| ## | 1588 | 43 | 2.6 | 21.1 | 2.6 | 10083_SNUH_P21 | 29FEB2012 | 2 | 29-Feb-12 |
| ## | 1597 | 28 | 5.7 | 12.5 | 5.7 | 10083_SNUH_P22 | 10MAR2011 | 1 | 10-Mar-11 |
| ## | 1608 | 28 | 5.7 | 12.5 | 5.7 | 10083_SNUH_P22 | 07MAY2011 | 1 | 10-Mar-11 |
| ## | 1624 | 39 | 4.2 | 15.4 | 6.3 | 10083_SNUH_P23 | 17AUG2017 | 2 | 16-May-13 |
| ## | 1633 | 39 | 4.2 | 15.4 | 4.5 | 10083_SNUH_P23 | 24FEB2015 | 2 | 16-May-13 |
| ## | 1636 | 39 | 4.2 | 15.4 | 4.2 | 10083_SNUH_P23 | 16MAY2013 | 2 | 16-May-13 |
| ## | 1644 | 39 | 4.2 | 15.4 | 3.3 | 10083_SNUH_P23 | 07JAN2014 | 2 | 16-May-13 |
| ## | 1657 | NA | NA | NA | 2.1 | 10083_SNUH_P24 | 05SEP2013 | NA | <NA> |
| ## | 1661 | NA | NA | NA | 0.9 | 10083_SNUH_P24 | 17FEB2014 | NA | <NA> |
| ## | 1668 | 66 | 18.6 | 37.4 | 18.6 | 10083_SNUH_P25 | 17APR2015 | 1 | 17-Apr-15 |
| ## | 1680 | 66 | 18.6 | 37.4 | 4.2 | 10083_SNUH_P25 | 10JUN2016 | 1 | 17-Apr-15 |
| ## | 1688 | 69 | 6.7 | 24.3 | 6.7 | 10083_SNUH_P26 | 26SEP2013 | 2 | 26-Sep-13 |
| ## | 1695 | 69 | 6.7 | 24.3 | 13.8 | 10083_SNUH_P26 | 17OCT2015 | 2 | 26-Sep-13 |
| ## | 1708 | 63 | 34.4 | 55.8 | 31.7 | 10083_SNUH_P27 | 09AUG2011 | 1 | 9-Aug-11 |
| ## | 1712 | 63 | 34.4 | 55.8 | 23.2 | 10083_SNUH_P27 | 22AUG2011 | 1 | 9-Aug-11 |
| ## | 1724 | 33 | 3.6 | 19.0 | 3.6 | 10083_SNUH_P28 | 05MAR2012 | 2 | 5-Mar-12 |
| ## | 1736 | 33 | 3.6 | 19.0 | 6.3 | 10083_SNUH_P28 | 21JAN2014 | 2 | 5-Mar-12 |
| ## | 1739 | 33 | 3.6 | 19.0 | 6.0 | 10083_SNUH_P28 | 05MAR2015 | 2 | 5-Mar-12 |
| ## | 1747 | 33 | 3.6 | 19.0 | 3.6 | 10083_SNUH_P28 | 02MAR2016 | 2 | 5-Mar-12 |
| ## | 1761 | 33 | 3.6 | 19.0 | 3.1 | 10083_SNUH_P28 | 03MAR2017 | 2 | 5-Mar-12 |
| ## | 1766 | 40 | 22.2 | 56.5 | 22.2 | 10083_SNUH_P29 | 28DEC2011 | 2 | 28-Dec-11 |
| ## | 1778 | 40 | 22.2 | 56.5 | 37.4 | 10083_SNUH_P29 | 09JUL2012 | 2 | 28-Dec-11 |
| ## | 1788 | 52 | 10.3 | 24.8 | 10.3 | 10083_SNUH_P30 | 19JAN2012 | 2 | 19-Jan-12 |
| ## | 1794 | 52 | 10.3 | 24.8 | 4.0 | 10083_SNUH_P30 | 05AUG2016 | 2 | 19-Jan-12 |
| ## | 1806 | 56 | 17.6 | 48.8 | 13.5 | 10083_SNUH_P31 | 08JUL2009 | 1 | 8-Jul-09 |
| ## | 1816 | 56 | 17.6 | 48.8 | 10.4 | 10083_SNUH_P31 | 25APR2011 | 1 | 8-Jul-09 |
| ## | 1823 | 63 | 4.0 | 10.9 | 4.0 | 10083_SNUH_P32 | 22APR2009 | 2 | 22-Apr-09 |
| ## | 1830 | 63 | 4.0 | 10.9 | 2.8 | 10083_SNUH_P32 | 15JUL2009 | 2 | 22-Apr-09 |
| ## | 1840 | 63 | 4.0 | 10.9 | 2.8 | 10083_SNUH_P32 | 04NOV2009 | 2 | 22-Apr-09 |

| | | | | | | | | | |
|----|---|----|------|------|------|----------------|-----------|---|-----------|
| ## | 1847 | 63 | 4.0 | 10.9 | 2.0 | 10083_SNUH_P32 | 04AUG2010 | 2 | 22-Apr-09 |
| ## | 1863 | 63 | 4.0 | 10.9 | 3.2 | 10083_SNUH_P32 | 25JUL2012 | 2 | 22-Apr-09 |
| ## | 1871 | 63 | 4.0 | 10.9 | 7.2 | 10083_SNUH_P32 | 26DEC2015 | 2 | 22-Apr-09 |
| ## | 1874 | 65 | 26.0 | 44.2 | 26.0 | 10083_SNUH_P33 | 24MAR2015 | 2 | 24-Mar-15 |
| ## | 1885 | 65 | 26.0 | 44.2 | 10.4 | 10083_SNUH_P33 | 14APR2016 | 2 | 24-Mar-15 |
| ## | 1891 | 60 | 45.5 | 64.8 | 45.5 | 10083_SNUH_P34 | 15SEP2015 | 2 | 15-Sep-15 |
| ## | 1901 | 60 | 45.5 | 64.8 | 45.1 | 10083_SNUH_P34 | 19DEC2015 | 2 | 15-Sep-15 |
| ## | 1916 | 60 | 45.5 | 64.8 | 48.8 | 10083_SNUH_P34 | 17MAY2016 | 2 | 15-Sep-15 |
| ## | 1920 | 60 | 45.5 | 64.8 | 43.2 | 10083_SNUH_P34 | 12JAN2017 | 2 | 15-Sep-15 |
| ## | 1934 | 52 | 15.9 | 42.4 | 15.9 | 10083_SNUH_P35 | 27JAN2014 | 2 | 27-Jan-14 |
| ## | 1943 | 52 | 15.9 | 42.4 | 12.9 | 10083_SNUH_P35 | 03DEC2015 | 2 | 27-Jan-14 |
| ## | 1946 | 52 | 17.5 | 42.0 | 16.8 | 10083_SNUH_P36 | 14AUG2009 | 2 | 14-Aug-09 |
| ## | 1962 | 52 | 17.5 | 42.0 | 16.0 | 10083_SNUH_P36 | 18FEB2010 | 2 | 14-Aug-09 |
| ## | 1970 | 52 | 17.5 | 42.0 | 42.7 | 10083_SNUH_P36 | 03APR2014 | 2 | 14-Aug-09 |
| ## | 1980 | 65 | 11.2 | 19.2 | 11.2 | 10083_SNUH_P37 | 09MAY2012 | 2 | 9-May-12 |
| ## | 1984 | 65 | 11.2 | 19.2 | 9.5 | 10083_SNUH_P37 | 11DEC2013 | 2 | 9-May-12 |
| ## | 1994 | 65 | 11.2 | 19.2 | 13.4 | 10083_SNUH_P37 | 06FEB2015 | 2 | 9-May-12 |
| ## | 2001 | 56 | 20.5 | 36.5 | 20.5 | 10083_SNUH_P38 | 02NOV2012 | 1 | 2-Nov-12 |
| ## | 2012 | 56 | 20.5 | 36.5 | 34.9 | 10083_SNUH_P38 | 27MAR2013 | 1 | 2-Nov-12 |
| ## | 2017 | 56 | 20.5 | 36.5 | 27.5 | 10083_SNUH_P38 | 29DEC2015 | 1 | 2-Nov-12 |
| ## | 2031 | 56 | 20.5 | 36.5 | 9.1 | 10083_SNUH_P38 | 27JUN2017 | 1 | 2-Nov-12 |
| ## | 2035 | 56 | 7.0 | 33.5 | 7.0 | 10083_SNUH_P39 | 29MAY2014 | 2 | 29-May-14 |
| ## | 2044 | 56 | 7.0 | 33.5 | 6.4 | 10083_SNUH_P39 | 19MAY2016 | 2 | 29-May-14 |
| ## | 2057 | 56 | 7.0 | 33.5 | 7.5 | 10083_SNUH_P39 | 17JUL2016 | 2 | 29-May-14 |
| ## | 2069 | 41 | 21.8 | 53.8 | 21.8 | 10083_SNUH_P40 | 01NOV2013 | 1 | 1-Nov-13 |
| ## | 2073 | 41 | 21.8 | 53.8 | 11.9 | 10083_SNUH_P40 | 17AUG2016 | 1 | 1-Nov-13 |
| ## | 2086 | 34 | 2.3 | 24.3 | 2.3 | 10083_SNUH_P41 | 27JAN2012 | 2 | 27-Jan-12 |
| ## | 2095 | 34 | 2.3 | 24.3 | 5.0 | 10083_SNUH_P41 | 13MAR2012 | 2 | 27-Jan-12 |
| ## | 2105 | 34 | 2.3 | 24.3 | 3.7 | 10083_SNUH_P41 | 23MAY2012 | 2 | 27-Jan-12 |
| ## | 2113 | 34 | 2.3 | 24.3 | 3.6 | 10083_SNUH_P41 | 06SEP2012 | 2 | 27-Jan-12 |
| ## | 2123 | 63 | 7.1 | 16.8 | 7.1 | 10083_SNUH_P42 | 27MAY2015 | 2 | 27-May-15 |
| ## | 2130 | 63 | 7.1 | 16.8 | 7.3 | 10083_SNUH_P42 | 18DEC2016 | 2 | 27-May-15 |
| ## | 2134 | 59 | 6.6 | 13.5 | 6.6 | 10083_SNUH_P43 | 07AUG2014 | 2 | 7-Aug-14 |
| ## | 2145 | 59 | 6.6 | 13.5 | 8.6 | 10083_SNUH_P43 | 24OCT2014 | 2 | 7-Aug-14 |
| ## | 2152 | 59 | 6.6 | 13.5 | 7.1 | 10083_SNUH_P43 | 26JAN2015 | 2 | 7-Aug-14 |
| ## | 2167 | 59 | 6.6 | 13.5 | 4.4 | 10083_SNUH_P43 | 25AUG2015 | 2 | 7-Aug-14 |
| ## | 2170 | 59 | 6.6 | 13.5 | 5.7 | 10083_SNUH_P43 | 03FEB2016 | 2 | 7-Aug-14 |
| ## | 2186 | 59 | 6.6 | 13.5 | 8.0 | 10083_SNUH_P43 | 18MAR2017 | 2 | 7-Aug-14 |
| ## | 2192 | 47 | 14.1 | 40.3 | 14.1 | 10083_SNUH_P44 | 30JUN2009 | 2 | 30-Jun-09 |
| ## | 2200 | 47 | 14.1 | 40.3 | 19.2 | 10083_SNUH_P44 | 30APR2014 | 2 | 30-Jun-09 |
| ## | 2207 | 47 | 14.1 | 40.3 | 20.1 | 10083_SNUH_P44 | 20APR2015 | 2 | 30-Jun-09 |
| ## | 2222 | 47 | 14.1 | 40.3 | 27.0 | 10083_SNUH_P44 | 13JUL2016 | 2 | 30-Jun-09 |
| ## | 2229 | 47 | 14.1 | 40.3 | 20.5 | 10083_SNUH_P44 | 02AUG2017 | 2 | 30-Jun-09 |
| ## | 2236 | 61 | 8.3 | 27.7 | 7.4 | 10083_SNUH_P45 | 17FEB2011 | 2 | 17-Feb-11 |
| ## | 2245 | 61 | 8.3 | 27.7 | 10.5 | 10083_SNUH_P45 | 15MAY2012 | 2 | 17-Feb-11 |
| ## | 2254 | 61 | 8.3 | 27.7 | 6.0 | 10083_SNUH_P45 | 16AUG2016 | 2 | 17-Feb-11 |
| ## | 2265 | 51 | 4.0 | 15.0 | 4.0 | 10083_SNUH_P46 | 02APR2014 | 1 | 2-Apr-14 |
| ## | 2273 | 51 | 4.0 | 15.0 | 2.4 | 10083_SNUH_P46 | 17JUL2014 | 1 | 2-Apr-14 |
| ## | 2283 | 57 | 1.0 | 9.7 | 1.0 | 10083_SNUH_P47 | 11FEB2016 | 2 | 11-Feb-16 |
| ## | 2291 | 57 | 1.0 | 9.7 | 1.2 | 10083_SNUH_P47 | 14FEB2017 | 2 | 11-Feb-16 |
| ## | CumPD5_V1V2 MCumPD_V1V2 HiPD_V1V2 CsA_V1V2 CTX_V1V2 AZT_V1V2 Tac_V1V2 | | | | | | | | |
| ## | 3 | | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## | 18 | | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## | 29 | | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------|---|-------|---|---|---|---|---|
| ## 35 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 44 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 51 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 55 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 66 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 76 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 79 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 104 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 107 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 111 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 119 | 0 | 5.00 | 0 | 1 | 0 | 0 | 1 |
| ## 123 | 0 | 5.00 | 0 | 1 | 0 | 0 | 1 |
| ## 127 | 0 | 5.00 | 0 | 1 | 0 | 0 | 1 |
| ## 146 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 155 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 166 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 176 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 183 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 192 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 203 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 215 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 223 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 237 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 242 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 246 | 1 | 8.70 | 0 | 0 | 1 | 0 | 0 |
| ## 257 | 1 | 8.70 | 0 | 0 | 1 | 0 | 0 |
| ## 265 | 0 | 3.40 | 0 | 0 | 0 | 0 | 0 |
| ## 268 | 0 | 3.40 | 0 | 0 | 0 | 0 | 0 |
| ## 291 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 300 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 309 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 311 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 321 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 331 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 339 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 347 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 352 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 367 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 369 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 376 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 394 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 400 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 413 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 423 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 427 | 0 | 0.80 | 0 | 0 | 0 | 0 | 1 |
| ## 443 | 0 | 0.80 | 0 | 0 | 0 | 0 | 1 |
| ## 446 | 0 | 0.80 | 0 | 0 | 0 | 0 | 1 |
| ## 453 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 466 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 471 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 482 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 489 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 497 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 498 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |

| | | | | | | | |
|--------|---|-------|---|---|---|---|---|
| ## 502 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 516 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 530 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 537 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 554 | 1 | 11.70 | 0 | 1 | 0 | 0 | 0 |
| ## 559 | 1 | 11.70 | 0 | 1 | 0 | 0 | 0 |
| ## 575 | 1 | 11.70 | 0 | 1 | 0 | 0 | 0 |
| ## 580 | 1 | 12.30 | 1 | 0 | 0 | 1 | 0 |
| ## 586 | 1 | 12.30 | 1 | 0 | 0 | 1 | 0 |
| ## 590 | 1 | 12.30 | 1 | 0 | 0 | 1 | 0 |
| ## 608 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 612 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 617 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 629 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 640 | 1 | 12.10 | 1 | 1 | 0 | 1 | 0 |
| ## 647 | 1 | 12.10 | 1 | 1 | 0 | 1 | 0 |
| ## 661 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 666 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 681 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 692 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 701 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 705 | 1 | 6.60 | 0 | 0 | 0 | 0 | 0 |
| ## 712 | 1 | 6.60 | 0 | 0 | 0 | 0 | 0 |
| ## 725 | 1 | 34.40 | 0 | 0 | 0 | 0 | 0 |
| ## 732 | 1 | 34.40 | 0 | 0 | 0 | 0 | 0 |
| ## 747 | 1 | 34.40 | 0 | 0 | 0 | 0 | 0 |
| ## 751 | 1 | 18.80 | 0 | 0 | 0 | 0 | 0 |
| ## 765 | 1 | 18.80 | 0 | 0 | 0 | 0 | 0 |
| ## 770 | 1 | 25.70 | 1 | 0 | 1 | 0 | 0 |
| ## 774 | 1 | 25.70 | 1 | 0 | 1 | 0 | 0 |
| ## 776 | 1 | 25.70 | 1 | 0 | 1 | 0 | 0 |
| ## 801 | 1 | 30.10 | 1 | 0 | 0 | 0 | 1 |
| ## 810 | 1 | 30.10 | 1 | 0 | 0 | 0 | 1 |
| ## 823 | 1 | 35.70 | 1 | 1 | 1 | 1 | 0 |
| ## 832 | 1 | 35.70 | 1 | 1 | 1 | 1 | 0 |
| ## 836 | 1 | 35.70 | 1 | 1 | 1 | 1 | 0 |
| ## 848 | 1 | 20.80 | 0 | 1 | 0 | 0 | 1 |
| ## 852 | 1 | 20.80 | 0 | 1 | 0 | 0 | 1 |
| ## 860 | 1 | 8.10 | 0 | 0 | 0 | 0 | 1 |
| ## 872 | 1 | 8.10 | 0 | 0 | 0 | 0 | 1 |
| ## 877 | 1 | 21.00 | 1 | 1 | 0 | 0 | 0 |
| ## 884 | 1 | 21.00 | 1 | 1 | 0 | 0 | 0 |
| ## 896 | 1 | 50.50 | 1 | 1 | 0 | 0 | 0 |
| ## 908 | 1 | 50.50 | 1 | 1 | 0 | 0 | 0 |
| ## 911 | 1 | 10.90 | 0 | 0 | 0 | 1 | 0 |
| ## 920 | 1 | 10.90 | 0 | 0 | 0 | 1 | 0 |
| ## 936 | 1 | 11.20 | 0 | 1 | 0 | 0 | 0 |
| ## 942 | 1 | 11.20 | 0 | 1 | 0 | 0 | 0 |
| ## 956 | 1 | 18.20 | 1 | 1 | 0 | 0 | 0 |
| ## 959 | 1 | 18.20 | 1 | 1 | 0 | 0 | 0 |
| ## 976 | 1 | 15.90 | 1 | 0 | 0 | 1 | 0 |
| ## 979 | 1 | 15.90 | 1 | 0 | 0 | 1 | 0 |
| ## 994 | 1 | 13.70 | 0 | 0 | 0 | 1 | 0 |
| ## 997 | 1 | 13.70 | 0 | 0 | 0 | 1 | 0 |

| | | | | | | | |
|---------|---|-------|---|---|---|---|---|
| ## 1013 | 1 | 20.35 | 1 | 0 | 1 | 0 | 0 |
| ## 1015 | 1 | 20.35 | 1 | 0 | 1 | 0 | 0 |
| ## 1028 | 1 | 8.88 | 0 | 0 | 0 | 0 | 1 |
| ## 1031 | 1 | 8.88 | 0 | 0 | 0 | 0 | 1 |
| ## 1040 | 1 | 8.88 | 0 | 0 | 0 | 0 | 1 |
| ## 1047 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1059 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1065 | 1 | 20.61 | 0 | 1 | 0 | 0 | 0 |
| ## 1080 | 1 | 20.61 | 0 | 1 | 0 | 0 | 0 |
| ## 1093 | 1 | 9.84 | 0 | 1 | 0 | 0 | 0 |
| ## 1096 | 1 | 9.84 | 0 | 1 | 0 | 0 | 0 |
| ## 1110 | 1 | 9.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1116 | 1 | 9.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1121 | 1 | 9.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1139 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1146 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1149 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1161 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1166 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1177 | 0 | 2.64 | 0 | 0 | 0 | 0 | 0 |
| ## 1182 | 0 | 2.64 | 0 | 0 | 0 | 0 | 0 |
| ## 1195 | 1 | 5.39 | 0 | 1 | 0 | 0 | 0 |
| ## 1201 | 1 | 5.39 | 0 | 1 | 0 | 0 | 0 |
| ## 1211 | 1 | 5.39 | 0 | 1 | 0 | 0 | 0 |
| ## 1220 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 1233 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 1243 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 1246 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 1249 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 1277 | 1 | 17.50 | 0 | 1 | 0 | 0 | 0 |
| ## 1280 | 1 | 17.50 | 0 | 1 | 0 | 0 | 0 |
| ## 1283 | 1 | 17.50 | 0 | 1 | 0 | 0 | 0 |
| ## 1293 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 1299 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 1317 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 1321 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 1332 | 1 | 22.38 | 0 | 1 | 0 | 0 | 0 |
| ## 1336 | 1 | 22.38 | 0 | 1 | 0 | 0 | 0 |
| ## 1353 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 1356 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 1365 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 1366 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 1371 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 1400 | 1 | 18.71 | 1 | 0 | 0 | 1 | 0 |
| ## 1401 | 1 | 18.71 | 1 | 0 | 0 | 1 | 0 |
| ## 1411 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1414 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1434 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1436 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1444 | 1 | 5.37 | 0 | 0 | 0 | 1 | 0 |
| ## 1461 | 1 | 5.37 | 0 | 0 | 0 | 1 | 0 |
| ## 1464 | 1 | 5.37 | 0 | 0 | 0 | 1 | 0 |
| ## 1479 | 1 | 13.34 | 1 | 1 | 0 | 0 | 0 |
| ## 1484 | 1 | 13.34 | 1 | 1 | 0 | 0 | 0 |

| | | | | | | | |
|---------|----|-------|----|----|----|----|----|
| ## 1493 | 0 | 3.75 | 0 | 0 | 0 | 1 | 0 |
| ## 1501 | 0 | 3.75 | 0 | 0 | 0 | 1 | 0 |
| ## 1507 | 0 | 3.75 | 0 | 0 | 0 | 1 | 0 |
| ## 1513 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1536 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1547 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1550 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1558 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1566 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1574 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 1576 | 1 | 10.24 | 0 | 0 | 0 | 1 | 0 |
| ## 1588 | 1 | 10.24 | 0 | 0 | 0 | 1 | 0 |
| ## 1597 | 1 | 12.43 | 0 | 0 | 1 | 0 | 0 |
| ## 1608 | 1 | 12.43 | 0 | 0 | 1 | 0 | 0 |
| ## 1624 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1633 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1636 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1644 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1657 | NA | NA | NA | NA | NA | NA | NA |
| ## 1661 | NA | NA | NA | NA | NA | NA | NA |
| ## 1668 | 1 | 15.23 | 0 | 1 | 0 | 0 | 0 |
| ## 1680 | 1 | 15.23 | 0 | 1 | 0 | 0 | 0 |
| ## 1688 | 1 | 7.74 | 0 | 0 | 0 | 0 | 0 |
| ## 1695 | 1 | 7.74 | 0 | 0 | 0 | 0 | 0 |
| ## 1708 | 1 | 16.07 | 0 | 1 | 0 | 0 | 0 |
| ## 1712 | 1 | 16.07 | 0 | 1 | 0 | 0 | 0 |
| ## 1724 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1736 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1739 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1747 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1761 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 1766 | 1 | 8.98 | 0 | 0 | 0 | 0 | 0 |
| ## 1778 | 1 | 8.98 | 0 | 0 | 0 | 0 | 0 |
| ## 1788 | 1 | 5.12 | 0 | 0 | 0 | 0 | 0 |
| ## 1794 | 1 | 5.12 | 0 | 0 | 0 | 0 | 0 |
| ## 1806 | 0 | 4.99 | 0 | 0 | 0 | 1 | 0 |
| ## 1816 | 0 | 4.99 | 0 | 0 | 0 | 1 | 0 |
| ## 1823 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 1830 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 1840 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 1847 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 1863 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 1871 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 1874 | 1 | 5.93 | 0 | 0 | 0 | 0 | 0 |
| ## 1885 | 1 | 5.93 | 0 | 0 | 0 | 0 | 0 |
| ## 1891 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 1901 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 1916 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 1920 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 1934 | 1 | 15.59 | 1 | 0 | 0 | 0 | 0 |
| ## 1943 | 1 | 15.59 | 1 | 0 | 0 | 0 | 0 |
| ## 1946 | 1 | 10.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1962 | 1 | 10.00 | 0 | 0 | 0 | 0 | 0 |
| ## 1970 | 1 | 10.00 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|---------|----------|----------|-----------|----------|---------------|---------------|---|
| ## 1980 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 1984 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 1994 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 2001 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 2012 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 2017 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 2031 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 2035 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 2044 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 2057 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 2069 | 1 | 22.20 | 1 | 1 | 0 | 1 | 0 |
| ## 2073 | 1 | 22.20 | 1 | 1 | 0 | 1 | 0 |
| ## 2086 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 2095 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 2105 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 2113 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 2123 | 1 | 5.65 | 0 | 0 | 0 | 0 | 0 |
| ## 2130 | 1 | 5.65 | 0 | 0 | 0 | 0 | 0 |
| ## 2134 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2145 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2152 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2167 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2170 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2186 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2192 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2200 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2207 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2222 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2229 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2236 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2245 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2254 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2265 | 1 | 38.67 | 1 | 0 | 0 | 0 | 0 |
| ## 2273 | 1 | 38.67 | 1 | 0 | 0 | 0 | 0 |
| ## 2283 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 2291 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## | MMF_V1V2 | MTX_V1V2 | IVIg_V1V2 | RTX_V1V2 | ISswitch_V1V2 | ISScause_V1V2 | |
| ## 3 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 18 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 29 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 35 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 44 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 51 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 55 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 66 | 0 | 0 | 0 | 0 | 0 | NA | |
| ## 76 | 0 | 1 | 0 | 0 | 0 | NA | |
| ## 79 | 0 | 1 | 0 | 0 | 0 | NA | |
| ## 104 | 0 | 1 | 0 | 0 | 1 | 3 | |
| ## 107 | 0 | 1 | 0 | 0 | 1 | 3 | |
| ## 111 | 0 | 1 | 0 | 0 | 1 | 3 | |
| ## 119 | 0 | 0 | 0 | 0 | 1 | 1 | |
| ## 123 | 0 | 0 | 0 | 0 | 1 | 1 | |
| ## 127 | 0 | 0 | 0 | 0 | 1 | 1 | |
| ## 146 | 0 | 0 | 0 | 0 | 0 | NA | |

| | | | | | | |
|--------|---|---|---|---|---|----|
| ## 155 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 166 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 176 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 183 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 192 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 203 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 215 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 223 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 237 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 242 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 246 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 257 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 265 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 268 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 291 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 300 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 309 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 311 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 321 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 331 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 339 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 347 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 352 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 367 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 369 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 376 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 394 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 400 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 413 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 423 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 427 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 443 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 446 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 453 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 466 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 471 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 482 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 489 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 497 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 498 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 502 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 516 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 530 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 537 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 554 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 559 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 575 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 580 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 586 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 590 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 608 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 612 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 617 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 629 | 0 | 0 | 0 | 0 | 0 | NA |

| | | | | | | |
|---------|---|---|---|---|---|----|
| ## 640 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 647 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 661 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 666 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 681 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 692 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 701 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 705 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 712 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 725 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 732 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 747 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 751 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 765 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 770 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 774 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 776 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 801 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 810 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 823 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 832 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 836 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 848 | 0 | 1 | 1 | 0 | 1 | 1 |
| ## 852 | 0 | 1 | 1 | 0 | 1 | 1 |
| ## 860 | 1 | 0 | 0 | 0 | 1 | 2 |
| ## 872 | 1 | 0 | 0 | 0 | 1 | 2 |
| ## 877 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 884 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 896 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 908 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 911 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 920 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 936 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 942 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 956 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 959 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 976 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 979 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 994 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 997 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1013 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1015 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1028 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 1031 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 1040 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 1047 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1059 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1065 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1080 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1093 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1096 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1110 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1116 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1121 | 0 | 0 | 0 | 0 | 0 | NA |

| | | | | | | |
|---------|---|---|---|---|---|----|
| ## 1139 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1146 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1149 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1161 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1166 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1177 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1182 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1195 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1201 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1211 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1220 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1233 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1243 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1246 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1249 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1277 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1280 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1283 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1293 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 1299 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 1317 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 1321 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 1332 | 0 | 1 | 0 | 0 | 1 | 2 |
| ## 1336 | 0 | 1 | 0 | 0 | 1 | 2 |
| ## 1353 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 1356 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 1365 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 1366 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 1371 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 1400 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1401 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1411 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1414 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1434 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1436 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1444 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1461 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1464 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1479 | 0 | 0 | 0 | 0 | 1 | 2 |
| ## 1484 | 0 | 0 | 0 | 0 | 1 | 2 |
| ## 1493 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 1501 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 1507 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 1513 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1536 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1547 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1550 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1558 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1566 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1574 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1576 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1588 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1597 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1608 | 0 | 0 | 0 | 0 | 0 | NA |

| | | | | | | |
|---------|----|----|----|----|----|----|
| ## 1624 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1633 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1636 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1644 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1657 | NA | NA | NA | NA | NA | NA |
| ## 1661 | NA | NA | NA | NA | NA | NA |
| ## 1668 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1680 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1688 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1695 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1708 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1712 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1724 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1736 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1739 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1747 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1761 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1766 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1778 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1788 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1794 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1806 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1816 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1823 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1830 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1840 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1847 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1863 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1871 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1874 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1885 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1891 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1901 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1916 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1920 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 1934 | 0 | 0 | 1 | 1 | 1 | 1 |
| ## 1943 | 0 | 0 | 1 | 1 | 1 | 1 |
| ## 1946 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1962 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1970 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1980 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1984 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 1994 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 2001 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 2012 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 2017 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 2031 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 2035 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 2044 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 2057 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 2069 | 1 | 0 | 1 | 1 | 1 | 1 |
| ## 2073 | 1 | 0 | 1 | 1 | 1 | 1 |
| ## 2086 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 2095 | 0 | 0 | 0 | 0 | 0 | NA |

| | | | | | | | |
|----|------|------------|------|-------|---|---|----|
| ## | 2105 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2113 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2123 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2130 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2134 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2145 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2152 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2167 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2170 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2186 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2192 | 0 | 1 | 0 | 0 | 0 | NA |
| ## | 2200 | 0 | 1 | 0 | 0 | 0 | NA |
| ## | 2207 | 0 | 1 | 0 | 0 | 0 | NA |
| ## | 2222 | 0 | 1 | 0 | 0 | 0 | NA |
| ## | 2229 | 0 | 1 | 0 | 0 | 0 | NA |
| ## | 2236 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2245 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2254 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2265 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2273 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2283 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | 2291 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | | REGION | name | date | | | |
| ## | 3 | WHOLE_LUNG | 1 | 13941 | | | |
| ## | 18 | WHOLE_LUNG | 1 | 14309 | | | |
| ## | 29 | WHOLE_LUNG | 1 | 13577 | | | |
| ## | 35 | WHOLE_LUNG | 1 | 15420 | | | |
| ## | 44 | WHOLE_LUNG | 1 | 15791 | | | |
| ## | 51 | WHOLE_LUNG | 1 | 16153 | | | |
| ## | 55 | WHOLE_LUNG | 1 | 14680 | | | |
| ## | 66 | WHOLE_LUNG | 1 | 15049 | | | |
| ## | 76 | WHOLE_LUNG | 2 | 14195 | | | |
| ## | 79 | WHOLE_LUNG | 2 | 14481 | | | |
| ## | 104 | WHOLE_LUNG | 3 | 14190 | | | |
| ## | 107 | WHOLE_LUNG | 3 | 13350 | | | |
| ## | 111 | WHOLE_LUNG | 3 | 13603 | | | |
| ## | 119 | WHOLE_LUNG | 4 | 16296 | | | |
| ## | 123 | WHOLE_LUNG | 4 | 17317 | | | |
| ## | 127 | WHOLE_LUNG | 4 | 13341 | | | |
| ## | 146 | WHOLE_LUNG | 5 | 13245 | | | |
| ## | 155 | WHOLE_LUNG | 5 | 16881 | | | |
| ## | 166 | WHOLE_LUNG | 5 | 13437 | | | |
| ## | 176 | WHOLE_LUNG | 5 | 15324 | | | |
| ## | 183 | WHOLE_LUNG | 6 | 13508 | | | |
| ## | 192 | WHOLE_LUNG | 6 | 14445 | | | |
| ## | 203 | WHOLE_LUNG | 6 | 14823 | | | |
| ## | 215 | WHOLE_LUNG | 6 | 15278 | | | |
| ## | 223 | WHOLE_LUNG | 6 | 15649 | | | |
| ## | 237 | WHOLE_LUNG | 6 | 14081 | | | |
| ## | 242 | WHOLE_LUNG | 6 | 13755 | | | |
| ## | 246 | WHOLE_LUNG | 7 | 17098 | | | |
| ## | 257 | WHOLE_LUNG | 7 | 16763 | | | |
| ## | 265 | WHOLE_LUNG | 8 | 14054 | | | |
| ## | 268 | WHOLE_LUNG | 8 | 15790 | | | |

| | | | | |
|----|-----|------------|----|-------|
| ## | 291 | WHOLE_LUNG | 9 | 15832 |
| ## | 300 | WHOLE_LUNG | 9 | 15377 |
| ## | 309 | WHOLE_LUNG | 9 | 14053 |
| ## | 311 | WHOLE_LUNG | 9 | 14970 |
| ## | 321 | WHOLE_LUNG | 9 | 16967 |
| ## | 331 | WHOLE_LUNG | 9 | 17415 |
| ## | 339 | WHOLE_LUNG | 9 | 17563 |
| ## | 347 | WHOLE_LUNG | 9 | 16237 |
| ## | 352 | WHOLE_LUNG | 9 | 16583 |
| ## | 367 | WHOLE_LUNG | 10 | 16139 |
| ## | 369 | WHOLE_LUNG | 10 | 13652 |
| ## | 376 | WHOLE_LUNG | 10 | 13444 |
| ## | 394 | WHOLE_LUNG | 11 | 13558 |
| ## | 400 | WHOLE_LUNG | 11 | 17474 |
| ## | 413 | WHOLE_LUNG | 11 | 16262 |
| ## | 423 | WHOLE_LUNG | 11 | 17127 |
| ## | 427 | WHOLE_LUNG | 12 | 14039 |
| ## | 443 | WHOLE_LUNG | 12 | 17456 |
| ## | 446 | WHOLE_LUNG | 12 | 17450 |
| ## | 453 | WHOLE_LUNG | 13 | 16440 |
| ## | 466 | WHOLE_LUNG | 13 | 17044 |
| ## | 471 | WHOLE_LUNG | 13 | 16812 |
| ## | 482 | WHOLE_LUNG | 13 | 17595 |
| ## | 489 | WHOLE_LUNG | 14 | 14571 |
| ## | 497 | WHOLE_LUNG | 14 | 15366 |
| ## | 498 | WHOLE_LUNG | 14 | 14644 |
| ## | 502 | WHOLE_LUNG | 14 | 15078 |
| ## | 516 | WHOLE_LUNG | 14 | 16933 |
| ## | 530 | WHOLE_LUNG | 14 | 17527 |
| ## | 537 | WHOLE_LUNG | 14 | 16554 |
| ## | 554 | WHOLE_LUNG | 15 | 15015 |
| ## | 559 | WHOLE_LUNG | 15 | 15341 |
| ## | 575 | WHOLE_LUNG | 15 | 15542 |
| ## | 580 | WHOLE_LUNG | 16 | 16505 |
| ## | 586 | WHOLE_LUNG | 16 | 17149 |
| ## | 590 | WHOLE_LUNG | 16 | 17344 |
| ## | 608 | WHOLE_LUNG | 17 | 15345 |
| ## | 612 | WHOLE_LUNG | 17 | 15181 |
| ## | 617 | WHOLE_LUNG | 17 | 15425 |
| ## | 629 | WHOLE_LUNG | 17 | 15021 |
| ## | 640 | WHOLE_LUNG | 18 | 16843 |
| ## | 647 | WHOLE_LUNG | 18 | 15141 |
| ## | 661 | WHOLE_LUNG | 19 | 15170 |
| ## | 666 | WHOLE_LUNG | 19 | 15258 |
| ## | 681 | WHOLE_LUNG | 19 | 15848 |
| ## | 692 | WHOLE_LUNG | 19 | 15758 |
| ## | 701 | WHOLE_LUNG | 19 | 15824 |
| ## | 705 | WHOLE_LUNG | 20 | 15827 |
| ## | 712 | WHOLE_LUNG | 20 | 16316 |
| ## | 725 | WHOLE_LUNG | 21 | 15715 |
| ## | 732 | WHOLE_LUNG | 21 | 15566 |
| ## | 747 | WHOLE_LUNG | 21 | 15606 |
| ## | 751 | WHOLE_LUNG | 22 | 15954 |
| ## | 765 | WHOLE_LUNG | 22 | 16307 |

| | | | | |
|----|------|------------|----|-------|
| ## | 770 | WHOLE_LUNG | 23 | 16170 |
| ## | 774 | WHOLE_LUNG | 23 | 16081 |
| ## | 776 | WHOLE_LUNG | 23 | 16006 |
| ## | 801 | WHOLE_LUNG | 24 | 16241 |
| ## | 810 | WHOLE_LUNG | 24 | 16114 |
| ## | 823 | WHOLE_LUNG | 25 | 17364 |
| ## | 832 | WHOLE_LUNG | 25 | 17539 |
| ## | 836 | WHOLE_LUNG | 25 | 17073 |
| ## | 848 | WHOLE_LUNG | 26 | 17523 |
| ## | 852 | WHOLE_LUNG | 26 | 16767 |
| ## | 860 | WHOLE_LUNG | 27 | 17339 |
| ## | 872 | WHOLE_LUNG | 27 | 17481 |
| ## | 877 | WHOLE_LUNG | 28 | 16338 |
| ## | 884 | WHOLE_LUNG | 28 | 16490 |
| ## | 896 | WHOLE_LUNG | 29 | 16640 |
| ## | 908 | WHOLE_LUNG | 29 | 16564 |
| ## | 911 | WHOLE_LUNG | 30 | 17031 |
| ## | 920 | WHOLE_LUNG | 30 | 17345 |
| ## | 936 | WHOLE_LUNG | 31 | 17429 |
| ## | 942 | WHOLE_LUNG | 31 | 17053 |
| ## | 956 | WHOLE_LUNG | 32 | 17346 |
| ## | 959 | WHOLE_LUNG | 32 | 17097 |
| ## | 976 | WHOLE_LUNG | 33 | 16974 |
| ## | 979 | WHOLE_LUNG | 33 | 17357 |
| ## | 994 | WHOLE_LUNG | 34 | 17543 |
| ## | 997 | WHOLE_LUNG | 34 | 17172 |
| ## | 1013 | WHOLE_LUNG | 35 | 17282 |
| ## | 1015 | WHOLE_LUNG | 35 | 17401 |
| ## | 1028 | WHOLE_LUNG | 36 | 17022 |
| ## | 1031 | WHOLE_LUNG | 36 | 17451 |
| ## | 1040 | WHOLE_LUNG | 36 | 16848 |
| ## | 1047 | WHOLE_LUNG | 37 | 16888 |
| ## | 1059 | WHOLE_LUNG | 37 | 17072 |
| ## | 1065 | WHOLE_LUNG | 38 | 16664 |
| ## | 1080 | WHOLE_LUNG | 38 | 17051 |
| ## | 1093 | WHOLE_LUNG | 39 | 17114 |
| ## | 1096 | WHOLE_LUNG | 39 | 17373 |
| ## | 1110 | WHOLE_LUNG | 40 | 16996 |
| ## | 1116 | WHOLE_LUNG | 40 | 17119 |
| ## | 1121 | WHOLE_LUNG | 40 | 16699 |
| ## | 1139 | WHOLE_LUNG | 41 | 17191 |
| ## | 1146 | WHOLE_LUNG | 41 | 16622 |
| ## | 1149 | WHOLE_LUNG | 41 | 16276 |
| ## | 1161 | WHOLE_LUNG | 41 | 16371 |
| ## | 1166 | WHOLE_LUNG | 41 | 17363 |
| ## | 1177 | WHOLE_LUNG | 42 | 17258 |
| ## | 1182 | WHOLE_LUNG | 42 | 16727 |
| ## | 1195 | WHOLE_LUNG | 43 | 16647 |
| ## | 1201 | WHOLE_LUNG | 43 | 16255 |
| ## | 1211 | WHOLE_LUNG | 43 | 17131 |
| ## | 1220 | WHOLE_LUNG | 44 | 15973 |
| ## | 1233 | WHOLE_LUNG | 44 | 16007 |
| ## | 1243 | WHOLE_LUNG | 44 | 15924 |
| ## | 1246 | WHOLE_LUNG | 44 | 16610 |

| | | | | |
|----|------|------------|----|-------|
| ## | 1249 | WHOLE_LUNG | 44 | 16975 |
| ## | 1277 | WHOLE_LUNG | 45 | 16125 |
| ## | 1280 | WHOLE_LUNG | 45 | 16034 |
| ## | 1283 | WHOLE_LUNG | 45 | 15939 |
| ## | 1293 | WHOLE_LUNG | 46 | 16662 |
| ## | 1299 | WHOLE_LUNG | 46 | 17385 |
| ## | 1317 | WHOLE_LUNG | 46 | 15991 |
| ## | 1321 | WHOLE_LUNG | 46 | 16511 |
| ## | 1332 | WHOLE_LUNG | 47 | 16020 |
| ## | 1336 | WHOLE_LUNG | 47 | 15936 |
| ## | 1353 | WHOLE_LUNG | 48 | 16118 |
| ## | 1356 | WHOLE_LUNG | 48 | 16483 |
| ## | 1365 | WHOLE_LUNG | 48 | 15657 |
| ## | 1366 | WHOLE_LUNG | 48 | 17189 |
| ## | 1371 | WHOLE_LUNG | 48 | 16615 |
| ## | 1400 | WHOLE_LUNG | 49 | 16123 |
| ## | 1401 | WHOLE_LUNG | 49 | 15520 |
| ## | 1411 | WHOLE_LUNG | 50 | 16955 |
| ## | 1414 | WHOLE_LUNG | 50 | 17381 |
| ## | 1434 | WHOLE_LUNG | 50 | 15551 |
| ## | 1436 | WHOLE_LUNG | 50 | 16488 |
| ## | 1444 | WHOLE_LUNG | 51 | 15418 |
| ## | 1461 | WHOLE_LUNG | 51 | 15917 |
| ## | 1464 | WHOLE_LUNG | 51 | 16245 |
| ## | 1479 | WHOLE_LUNG | 52 | 17159 |
| ## | 1484 | WHOLE_LUNG | 52 | 15632 |
| ## | 1493 | WHOLE_LUNG | 53 | 17111 |
| ## | 1501 | WHOLE_LUNG | 53 | 16419 |
| ## | 1507 | WHOLE_LUNG | 53 | 16762 |
| ## | 1513 | WHOLE_LUNG | 54 | 15024 |
| ## | 1536 | WHOLE_LUNG | 54 | 16541 |
| ## | 1547 | WHOLE_LUNG | 54 | 16947 |
| ## | 1550 | WHOLE_LUNG | 54 | 17409 |
| ## | 1558 | WHOLE_LUNG | 54 | 15757 |
| ## | 1566 | WHOLE_LUNG | 54 | 16135 |
| ## | 1574 | WHOLE_LUNG | 54 | 15388 |
| ## | 1576 | WHOLE_LUNG | 55 | 16330 |
| ## | 1588 | WHOLE_LUNG | 55 | 15399 |
| ## | 1597 | WHOLE_LUNG | 56 | 15043 |
| ## | 1608 | WHOLE_LUNG | 56 | 15101 |
| ## | 1624 | WHOLE_LUNG | 57 | 17395 |
| ## | 1633 | WHOLE_LUNG | 57 | 16490 |
| ## | 1636 | WHOLE_LUNG | 57 | 15841 |
| ## | 1644 | WHOLE_LUNG | 57 | 16077 |
| ## | 1657 | WHOLE_LUNG | 58 | 15953 |
| ## | 1661 | WHOLE_LUNG | 58 | 16118 |
| ## | 1668 | WHOLE_LUNG | 59 | 16542 |
| ## | 1680 | WHOLE_LUNG | 59 | 16962 |
| ## | 1688 | WHOLE_LUNG | 60 | 15974 |
| ## | 1695 | WHOLE_LUNG | 60 | 16725 |
| ## | 1708 | WHOLE_LUNG | 61 | 15195 |
| ## | 1712 | WHOLE_LUNG | 61 | 15208 |
| ## | 1724 | WHOLE_LUNG | 62 | 15404 |
| ## | 1736 | WHOLE_LUNG | 62 | 16091 |

| | | | | |
|----|------|------------|----|-------|
| ## | 1739 | WHOLE_LUNG | 62 | 16499 |
| ## | 1747 | WHOLE_LUNG | 62 | 16862 |
| ## | 1761 | WHOLE_LUNG | 62 | 17228 |
| ## | 1766 | WHOLE_LUNG | 63 | 15336 |
| ## | 1778 | WHOLE_LUNG | 63 | 15530 |
| ## | 1788 | WHOLE_LUNG | 64 | 15358 |
| ## | 1794 | WHOLE_LUNG | 64 | 17018 |
| ## | 1806 | WHOLE_LUNG | 65 | 14433 |
| ## | 1816 | WHOLE_LUNG | 65 | 15089 |
| ## | 1823 | WHOLE_LUNG | 66 | 14356 |
| ## | 1830 | WHOLE_LUNG | 66 | 14440 |
| ## | 1840 | WHOLE_LUNG | 66 | 14552 |
| ## | 1847 | WHOLE_LUNG | 66 | 14825 |
| ## | 1863 | WHOLE_LUNG | 66 | 15546 |
| ## | 1871 | WHOLE_LUNG | 66 | 16795 |
| ## | 1874 | WHOLE_LUNG | 67 | 16518 |
| ## | 1885 | WHOLE_LUNG | 67 | 16905 |
| ## | 1891 | WHOLE_LUNG | 68 | 16693 |
| ## | 1901 | WHOLE_LUNG | 68 | 16788 |
| ## | 1916 | WHOLE_LUNG | 68 | 16938 |
| ## | 1920 | WHOLE_LUNG | 68 | 17178 |
| ## | 1934 | WHOLE_LUNG | 69 | 16097 |
| ## | 1943 | WHOLE_LUNG | 69 | 16772 |
| ## | 1946 | WHOLE_LUNG | 70 | 14470 |
| ## | 1962 | WHOLE_LUNG | 70 | 14658 |
| ## | 1970 | WHOLE_LUNG | 70 | 16163 |
| ## | 1980 | WHOLE_LUNG | 71 | 15469 |
| ## | 1984 | WHOLE_LUNG | 71 | 16050 |
| ## | 1994 | WHOLE_LUNG | 71 | 16472 |
| ## | 2001 | WHOLE_LUNG | 72 | 15646 |
| ## | 2012 | WHOLE_LUNG | 72 | 15791 |
| ## | 2017 | WHOLE_LUNG | 72 | 16798 |
| ## | 2031 | WHOLE_LUNG | 72 | 17344 |
| ## | 2035 | WHOLE_LUNG | 73 | 16219 |
| ## | 2044 | WHOLE_LUNG | 73 | 16940 |
| ## | 2057 | WHOLE_LUNG | 73 | 16999 |
| ## | 2069 | WHOLE_LUNG | 74 | 16010 |
| ## | 2073 | WHOLE_LUNG | 74 | 17030 |
| ## | 2086 | WHOLE_LUNG | 75 | 15366 |
| ## | 2095 | WHOLE_LUNG | 75 | 15412 |
| ## | 2105 | WHOLE_LUNG | 75 | 15483 |
| ## | 2113 | WHOLE_LUNG | 75 | 15589 |
| ## | 2123 | WHOLE_LUNG | 76 | 16582 |
| ## | 2130 | WHOLE_LUNG | 76 | 17153 |
| ## | 2134 | WHOLE_LUNG | 77 | 16289 |
| ## | 2145 | WHOLE_LUNG | 77 | 16367 |
| ## | 2152 | WHOLE_LUNG | 77 | 16461 |
| ## | 2167 | WHOLE_LUNG | 77 | 16672 |
| ## | 2170 | WHOLE_LUNG | 77 | 16834 |
| ## | 2186 | WHOLE_LUNG | 77 | 17243 |
| ## | 2192 | WHOLE_LUNG | 78 | 14425 |
| ## | 2200 | WHOLE_LUNG | 78 | 16190 |
| ## | 2207 | WHOLE_LUNG | 78 | 16545 |
| ## | 2222 | WHOLE_LUNG | 78 | 16995 |

```
## 2229 WHOLE_LUNG 78 17380
## 2236 WHOLE_LUNG 79 15022
## 2245 WHOLE_LUNG 79 15475
## 2254 WHOLE_LUNG 79 17029
## 2265 WHOLE_LUNG 80 16162
## 2273 WHOLE_LUNG 80 16268
## 2283 WHOLE_LUNG 81 16842
## 2291 WHOLE_LUNG 81 17211
```

```
as.data.frame(d2)
```

| ## | Age | V1_WL_QLF | V1_WL_QILD | SUBJID | VISITDTN | Sex | V1_CTdate |
|-------|-----|-----------|------------|-----------------|-----------|-----|-----------|
| ## 1 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 05MAR2007 | 2 | 5-Mar-07 |
| ## 2 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 03MAR2008 | 2 | 5-Mar-07 |
| ## 3 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 16MAR2011 | 2 | 5-Mar-07 |
| ## 4 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 21MAR2012 | 2 | 5-Mar-07 |
| ## 5 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 06MAR2009 | 2 | 5-Mar-07 |
| ## 6 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 12MAR2010 | 2 | 5-Mar-07 |
| ## 7 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 27MAR2013 | 2 | 5-Mar-07 |
| ## 8 | 54 | 6.7 | 18.6 | 10083_SNUBH_P01 | 24MAR2014 | 2 | 5-Mar-07 |
| ## 9 | 68 | 26.1 | 48.3 | 10083_SNUBH_P02 | 12NOV2008 | 2 | 12-Nov-08 |
| ## 10 | 68 | 26.1 | 48.3 | 10083_SNUBH_P02 | 25AUG2009 | 2 | 12-Nov-08 |
| ## 11 | 25 | 3.5 | 8.0 | 10083_SNUBH_P03 | 07NOV2008 | 2 | 21-Jul-06 |
| ## 12 | 25 | 3.5 | 8.0 | 10083_SNUBH_P03 | 21JUL2006 | 2 | 21-Jul-06 |
| ## 13 | 25 | 3.5 | 8.0 | 10083_SNUBH_P03 | 31MAR2007 | 2 | 21-Jul-06 |
| ## 14 | 64 | 10.9 | 24.1 | 10083_SNUBH_P04 | 12JUL2006 | 2 | 12-Jul-06 |
| ## 15 | 64 | 10.9 | 24.1 | 10083_SNUBH_P04 | 14AUG2014 | 2 | 12-Jul-06 |
| ## 16 | 64 | 10.9 | 24.1 | 10083_SNUBH_P04 | 31MAY2017 | 2 | 12-Jul-06 |
| ## 17 | 57 | 4.6 | 12.5 | 10083_SNUBH_P05 | 16OCT2006 | 1 | 7-Apr-06 |
| ## 18 | 57 | 4.6 | 12.5 | 10083_SNUBH_P05 | 16DEC2011 | 1 | 7-Apr-06 |
| ## 19 | 57 | 4.6 | 12.5 | 10083_SNUBH_P05 | 07APR2006 | 1 | 7-Apr-06 |
| ## 20 | 57 | 4.6 | 12.5 | 10083_SNUBH_P05 | 21MAR2016 | 1 | 7-Apr-06 |
| ## 21 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 30AUG2007 | 1 | 26-Dec-06 |
| ## 22 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 21JUL2008 | 1 | 26-Dec-06 |
| ## 23 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 26DEC2006 | 1 | 26-Dec-06 |
| ## 24 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 31OCT2011 | 1 | 26-Dec-06 |
| ## 25 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 05NOV2012 | 1 | 26-Dec-06 |
| ## 26 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 20JUL2009 | 1 | 26-Dec-06 |
| ## 27 | 49 | 11.0 | 20.2 | 10083_SNUBH_P06 | 02AUG2010 | 1 | 26-Dec-06 |
| ## 28 | 48 | 15.5 | 36.8 | 10083_SNUBH_P07 | 24NOV2015 | 2 | 24-Nov-15 |
| ## 29 | 48 | 15.5 | 36.8 | 10083_SNUBH_P07 | 24OCT2016 | 2 | 24-Nov-15 |
| ## 30 | 63 | 14.1 | 50.5 | 10083_SNUBH_P08 | 24JUN2008 | 2 | 24-Jun-08 |
| ## 31 | 63 | 14.1 | 50.5 | 10083_SNUBH_P08 | 26MAR2013 | 2 | 24-Jun-08 |
| ## 32 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 23JUN2008 | 2 | 23-Jun-08 |
| ## 33 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 27DEC2010 | 2 | 23-Jun-08 |
| ## 34 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 16JUN2014 | 2 | 23-Jun-08 |
| ## 35 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 28MAY2015 | 2 | 23-Jun-08 |
| ## 36 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 07FEB2012 | 2 | 23-Jun-08 |
| ## 37 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 07MAY2013 | 2 | 23-Jun-08 |
| ## 38 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 01FEB2018 | 2 | 23-Jun-08 |
| ## 39 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 15JUN2016 | 2 | 23-Jun-08 |
| ## 40 | 59 | 7.4 | 21.1 | 10083_SNUBH_P09 | 06SEP2017 | 2 | 23-Jun-08 |
| ## 41 | 58 | 11.0 | 29.4 | 10083_SNUBH_P10 | 23OCT2006 | 2 | 23-Oct-06 |
| ## 42 | 58 | 11.0 | 29.4 | 10083_SNUBH_P10 | 19MAY2007 | 2 | 23-Oct-06 |

| | | | | | | | |
|-------|----|------|------|-----------------|-----------|---|-----------|
| ## 43 | 58 | 11.0 | 29.4 | 10083_SNUBH_P10 | 10MAR2014 | 2 | 23-Oct-06 |
| ## 44 | 34 | 5.0 | 19.2 | 10083_SNUBH_P11 | 11JUL2014 | 2 | 14-Feb-07 |
| ## 45 | 34 | 5.0 | 19.2 | 10083_SNUBH_P11 | 22NOV2016 | 2 | 14-Feb-07 |
| ## 46 | 34 | 5.0 | 19.2 | 10083_SNUBH_P11 | 14FEB2007 | 2 | 14-Feb-07 |
| ## 47 | 34 | 5.0 | 19.2 | 10083_SNUBH_P11 | 04NOV2017 | 2 | 14-Feb-07 |
| ## 48 | 69 | 17.1 | 46.8 | 10083_SNUBH_P12 | 11OCT2017 | 2 | 9-Jun-08 |
| ## 49 | 69 | 17.1 | 46.8 | 10083_SNUBH_P12 | 17OCT2017 | 2 | 9-Jun-08 |
| ## 50 | 69 | 17.1 | 46.8 | 10083_SNUBH_P12 | 09JUN2008 | 2 | 9-Jun-08 |
| ## 51 | 39 | 32.0 | 58.9 | 10083_SNUBH_P13 | 31AUG2016 | 2 | 5-Jan-15 |
| ## 52 | 39 | 32.0 | 58.9 | 10083_SNUBH_P13 | 05MAR2018 | 2 | 5-Jan-15 |
| ## 53 | 39 | 32.0 | 58.9 | 10083_SNUBH_P13 | 05JAN2015 | 2 | 5-Jan-15 |
| ## 54 | 39 | 32.0 | 58.9 | 10083_SNUBH_P13 | 12JAN2016 | 2 | 5-Jan-15 |
| ## 55 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 23NOV2009 | 2 | 23-Nov-09 |
| ## 56 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 27JAN2012 | 2 | 23-Nov-09 |
| ## 57 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 29APR2015 | 2 | 23-Nov-09 |
| ## 58 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 04FEB2010 | 2 | 23-Nov-09 |
| ## 59 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 14APR2011 | 2 | 23-Nov-09 |
| ## 60 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 12MAY2016 | 2 | 23-Nov-09 |
| ## 61 | 46 | 3.4 | 28.5 | 10083_SNUBH_P14 | 27DEC2017 | 2 | 23-Nov-09 |
| ## 62 | 57 | 9.3 | 28.5 | 10083_SNUBH_P15 | 10FEB2011 | 1 | 10-Feb-11 |
| ## 63 | 57 | 9.3 | 28.5 | 10083_SNUBH_P15 | 02JAN2012 | 1 | 10-Feb-11 |
| ## 64 | 57 | 9.3 | 28.5 | 10083_SNUBH_P15 | 21JUL2012 | 1 | 10-Feb-11 |
| ## 65 | 61 | 11.9 | 35.1 | 10083_SNUBH_P16 | 27JUN2017 | 2 | 11-Mar-15 |
| ## 66 | 61 | 11.9 | 35.1 | 10083_SNUBH_P16 | 14DEC2016 | 2 | 11-Mar-15 |
| ## 67 | 61 | 11.9 | 35.1 | 10083_SNUBH_P16 | 11MAR2015 | 2 | 11-Mar-15 |
| ## 68 | 52 | 45.1 | 75.1 | 10083_SNUBH_P17 | 16FEB2011 | 2 | 16-Feb-11 |
| ## 69 | 52 | 45.1 | 75.1 | 10083_SNUBH_P17 | 26JUL2011 | 2 | 16-Feb-11 |
| ## 70 | 52 | 45.1 | 75.1 | 10083_SNUBH_P17 | 06JAN2012 | 2 | 16-Feb-11 |
| ## 71 | 52 | 45.1 | 75.1 | 10083_SNUBH_P17 | 26MAR2012 | 2 | 16-Feb-11 |
| ## 72 | 56 | 3.3 | 9.4 | 10083_SNUBH_P18 | 16JUN2011 | 1 | 16-Jun-11 |
| ## 73 | 56 | 3.3 | 9.4 | 10083_SNUBH_P18 | 12FEB2016 | 1 | 16-Jun-11 |
| ## 74 | 42 | 1.7 | 16.9 | 10083_SNUBH_P19 | 22FEB2013 | 2 | 15-Jul-11 |
| ## 75 | 42 | 1.7 | 16.9 | 10083_SNUBH_P19 | 29APR2013 | 2 | 15-Jul-11 |
| ## 76 | 42 | 1.7 | 16.9 | 10083_SNUBH_P19 | 15JUL2011 | 2 | 15-Jul-11 |
| ## 77 | 42 | 1.7 | 16.9 | 10083_SNUBH_P19 | 11OCT2011 | 2 | 15-Jul-11 |
| ## 78 | 42 | 1.7 | 16.9 | 10083_SNUBH_P19 | 23MAY2013 | 2 | 15-Jul-11 |
| ## 79 | 49 | 0.8 | 9.9 | 10083_SNUBH_P20 | 03SEP2014 | 2 | 2-May-13 |
| ## 80 | 49 | 0.8 | 9.9 | 10083_SNUBH_P20 | 02MAY2013 | 2 | 2-May-13 |
| ## 81 | 60 | 1.5 | 9.6 | 10083_SNUBH_P21 | 14AUG2012 | 2 | 14-Aug-12 |
| ## 82 | 60 | 1.5 | 9.6 | 10083_SNUBH_P21 | 23SEP2012 | 2 | 14-Aug-12 |
| ## 83 | 60 | 1.5 | 9.6 | 10083_SNUBH_P21 | 10JAN2013 | 2 | 14-Aug-12 |
| ## 84 | 76 | 18.9 | 56.0 | 10083_SNUBH_P22 | 25AUG2014 | 2 | 6-Sep-13 |
| ## 85 | 76 | 18.9 | 56.0 | 10083_SNUBH_P22 | 06SEP2013 | 2 | 6-Sep-13 |
| ## 86 | 55 | 11.9 | 35.0 | 10083_SNUBH_P23 | 28OCT2013 | 2 | 28-Oct-13 |
| ## 87 | 55 | 11.9 | 35.0 | 10083_SNUBH_P23 | 11JAN2014 | 2 | 28-Oct-13 |
| ## 88 | 55 | 11.9 | 35.0 | 10083_SNUBH_P23 | 10APR2014 | 2 | 28-Oct-13 |
| ## 89 | 32 | 9.9 | 17.9 | 10083_SNUBH_P24 | 13FEB2014 | 2 | 13-Feb-14 |
| ## 90 | 32 | 9.9 | 17.9 | 10083_SNUBH_P24 | 20JUN2014 | 2 | 13-Feb-14 |
| ## 91 | 48 | 9.3 | 27.1 | 10083_SNUBH_P25 | 08JAN2018 | 2 | 29-Sep-16 |
| ## 92 | 48 | 9.3 | 27.1 | 10083_SNUBH_P25 | 29SEP2016 | 2 | 29-Sep-16 |
| ## 93 | 48 | 9.3 | 27.1 | 10083_SNUBH_P25 | 17JUL2017 | 2 | 29-Sep-16 |
| ## 94 | 41 | 5.2 | 17.9 | 10083_SNUBH_P26 | 28NOV2015 | 1 | 28-Nov-15 |
| ## 95 | 41 | 5.2 | 17.9 | 10083_SNUBH_P26 | 23DEC2017 | 1 | 28-Nov-15 |
| ## 96 | 57 | 14.2 | 40.5 | 10083_SNUBH_P27 | 22JUN2017 | 1 | 22-Jun-17 |

| | | | | | | | |
|--------|----|------|------|-----------------|-----------|---|-----------|
| ## 97 | 57 | 14.2 | 40.5 | 10083_SNUBH_P27 | 11NOV2017 | 1 | 22-Jun-17 |
| ## 98 | 71 | 12.4 | 32.9 | 10083_SNUBH_P28 | 25SEP2014 | 1 | 25-Sep-14 |
| ## 99 | 71 | 12.4 | 32.9 | 10083_SNUBH_P28 | 24FEB2015 | 1 | 25-Sep-14 |
| ## 100 | 42 | 6.4 | 20.0 | 10083_SNUBH_P29 | 09MAY2015 | 2 | 9-May-15 |
| ## 101 | 42 | 6.4 | 20.0 | 10083_SNUBH_P29 | 24JUL2015 | 2 | 9-May-15 |
| ## 102 | 35 | 7.4 | 17.0 | 10083_SNUBH_P30 | 18AUG2016 | 2 | 18-Aug-16 |
| ## 103 | 35 | 7.4 | 17.0 | 10083_SNUBH_P30 | 28JUN2017 | 2 | 18-Aug-16 |
| ## 104 | 37 | 8.0 | 21.7 | 10083_SNUBH_P31 | 20SEP2017 | 1 | 9-Sep-16 |
| ## 105 | 37 | 8.0 | 21.7 | 10083_SNUBH_P31 | 09SEP2016 | 1 | 9-Sep-16 |
| ## 106 | 44 | 12.3 | 30.4 | 10083_SNUBH_P32 | 29JUN2017 | 2 | 23-Oct-16 |
| ## 107 | 44 | 12.3 | 30.4 | 10083_SNUBH_P32 | 23OCT2016 | 2 | 23-Oct-16 |
| ## 108 | 68 | 15.9 | 40.9 | 10083_SNUBH_P33 | 22JUN2016 | 2 | 22-Jun-16 |
| ## 109 | 68 | 15.9 | 40.9 | 10083_SNUBH_P33 | 10JUL2017 | 2 | 22-Jun-16 |
| ## 110 | 59 | 12.4 | 48.8 | 10083_SNUBH_P34 | 06JAN2017 | 2 | 6-Jan-17 |
| ## 111 | 59 | 12.4 | 48.8 | 10083_SNUBH_P34 | 12JAN2018 | 2 | 6-Jan-17 |
| ## 112 | 52 | 5.9 | 21.8 | 10083_SNUH_P01 | 26APR2017 | 2 | 26-Apr-17 |
| ## 113 | 52 | 5.9 | 21.8 | 10083_SNUH_P01 | 23AUG2017 | 2 | 26-Apr-17 |
| ## 114 | 57 | 11.7 | 22.4 | 10083_SNUH_P02 | 12OCT2017 | 1 | 17-Feb-16 |
| ## 115 | 57 | 11.7 | 22.4 | 10083_SNUH_P02 | 17FEB2016 | 1 | 17-Feb-16 |
| ## 116 | 57 | 11.7 | 22.4 | 10083_SNUH_P02 | 09AUG2016 | 1 | 17-Feb-16 |
| ## 117 | 71 | 20.9 | 50.2 | 10083_SNUH_P03 | 28MAR2016 | 1 | 28-Mar-16 |
| ## 118 | 71 | 20.9 | 50.2 | 10083_SNUH_P03 | 28SEP2016 | 1 | 28-Mar-16 |
| ## 119 | 46 | 26.2 | 50.2 | 10083_SNUH_P04 | 07SEP2016 | 2 | 17-Aug-15 |
| ## 120 | 46 | 26.2 | 50.2 | 10083_SNUH_P04 | 17AUG2015 | 2 | 17-Aug-15 |
| ## 121 | 52 | 19.9 | 45.2 | 10083_SNUH_P05 | 09NOV2016 | 2 | 9-Nov-16 |
| ## 122 | 52 | 19.9 | 45.2 | 10083_SNUH_P05 | 26JUL2017 | 2 | 9-Nov-16 |
| ## 123 | 51 | 1.5 | 19.3 | 10083_SNUH_P06 | 14NOV2016 | 2 | 21-Sep-15 |
| ## 124 | 51 | 1.5 | 19.3 | 10083_SNUH_P06 | 21SEP2015 | 2 | 21-Sep-15 |
| ## 125 | 51 | 1.5 | 19.3 | 10083_SNUH_P06 | 14JUL2016 | 2 | 21-Sep-15 |
| ## 126 | 61 | 8.4 | 21.8 | 10083_SNUH_P07 | 25JUL2014 | 1 | 25-Jul-14 |
| ## 127 | 61 | 8.4 | 21.8 | 10083_SNUH_P07 | 25JAN2017 | 1 | 25-Jul-14 |
| ## 128 | 61 | 8.4 | 21.8 | 10083_SNUH_P07 | 16JUL2017 | 1 | 25-Jul-14 |
| ## 129 | 61 | 8.4 | 21.8 | 10083_SNUH_P07 | 28OCT2014 | 1 | 25-Jul-14 |
| ## 130 | 61 | 8.4 | 21.8 | 10083_SNUH_P07 | 06JUL2015 | 1 | 25-Jul-14 |
| ## 131 | 34 | 2.6 | 26.7 | 10083_SNUH_P08 | 02APR2017 | 2 | 19-Oct-15 |
| ## 132 | 34 | 2.6 | 26.7 | 10083_SNUH_P08 | 19OCT2015 | 2 | 19-Oct-15 |
| ## 133 | 75 | 7.7 | 34.0 | 10083_SNUH_P09 | 31JUL2015 | 2 | 4-Jul-14 |
| ## 134 | 75 | 7.7 | 34.0 | 10083_SNUH_P09 | 26NOV2016 | 2 | 4-Jul-14 |
| ## 135 | 75 | 7.7 | 34.0 | 10083_SNUH_P09 | 04JUL2014 | 2 | 4-Jul-14 |
| ## 136 | 57 | 20.6 | 43.9 | 10083_SNUH_P10 | 29OCT2013 | 2 | 7-Aug-13 |
| ## 137 | 57 | 20.6 | 43.9 | 10083_SNUH_P10 | 24JUN2015 | 2 | 7-Aug-13 |
| ## 138 | 57 | 20.6 | 43.9 | 10083_SNUH_P10 | 07AUG2013 | 2 | 7-Aug-13 |
| ## 139 | 57 | 20.6 | 43.9 | 10083_SNUH_P10 | 25SEP2013 | 2 | 7-Aug-13 |
| ## 140 | 57 | 20.6 | 43.9 | 10083_SNUH_P10 | 23JUN2016 | 2 | 7-Aug-13 |
| ## 141 | 53 | 22.4 | 57.5 | 10083_SNUH_P11 | 25NOV2013 | 2 | 22-Aug-13 |
| ## 142 | 53 | 22.4 | 57.5 | 10083_SNUH_P11 | 24FEB2014 | 2 | 22-Aug-13 |
| ## 143 | 53 | 22.4 | 57.5 | 10083_SNUH_P11 | 22AUG2013 | 2 | 22-Aug-13 |
| ## 144 | 53 | 8.8 | 22.4 | 10083_SNUH_P12 | 15AUG2015 | 1 | 13-Oct-13 |
| ## 145 | 53 | 8.8 | 22.4 | 10083_SNUH_P12 | 07AUG2017 | 1 | 13-Oct-13 |
| ## 146 | 53 | 8.8 | 22.4 | 10083_SNUH_P12 | 13OCT2013 | 1 | 13-Oct-13 |
| ## 147 | 53 | 8.8 | 22.4 | 10083_SNUH_P12 | 17MAR2015 | 1 | 13-Oct-13 |
| ## 148 | 48 | 0.6 | 4.3 | 10083_SNUH_P13 | 19AUG2013 | 2 | 19-Aug-13 |
| ## 149 | 48 | 0.6 | 4.3 | 10083_SNUH_P13 | 11NOV2013 | 2 | 19-Aug-13 |
| ## 150 | 41 | 15.6 | 32.7 | 10083_SNUH_P14 | 17FEB2015 | 2 | 13-Nov-12 |

| | | | | | | | |
|--------|----|------|------|----------------|-----------|----|-----------|
| ## 151 | 41 | 15.6 | 32.7 | 10083_SNUH_P14 | 29JUN2015 | 2 | 13-Nov-12 |
| ## 152 | 41 | 15.6 | 32.7 | 10083_SNUH_P14 | 13NOV2012 | 2 | 13-Nov-12 |
| ## 153 | 41 | 15.6 | 32.7 | 10083_SNUH_P14 | 17FEB2014 | 2 | 13-Nov-12 |
| ## 154 | 41 | 15.6 | 32.7 | 10083_SNUH_P14 | 23JAN2017 | 2 | 13-Nov-12 |
| ## 155 | 71 | 10.2 | 35.7 | 10083_SNUH_P15 | 22FEB2014 | 2 | 29-Jun-12 |
| ## 156 | 71 | 10.2 | 35.7 | 10083_SNUH_P15 | 29JUN2012 | 2 | 29-Jun-12 |
| ## 157 | 73 | 22.4 | 43.6 | 10083_SNUH_P16 | 30JUL2012 | 2 | 30-Jul-12 |
| ## 158 | 73 | 22.4 | 43.6 | 10083_SNUH_P16 | 03AUG2017 | 2 | 30-Jul-12 |
| ## 159 | 73 | 22.4 | 43.6 | 10083_SNUH_P16 | 22FEB2015 | 2 | 30-Jul-12 |
| ## 160 | 73 | 22.4 | 43.6 | 10083_SNUH_P16 | 03JUN2016 | 2 | 30-Jul-12 |
| ## 161 | 52 | 15.7 | 47.9 | 10083_SNUH_P17 | 19MAR2012 | 2 | 19-Mar-12 |
| ## 162 | 52 | 15.7 | 47.9 | 10083_SNUH_P17 | 31JUL2013 | 2 | 19-Mar-12 |
| ## 163 | 52 | 15.7 | 47.9 | 10083_SNUH_P17 | 24JUN2014 | 2 | 19-Mar-12 |
| ## 164 | 52 | 7.2 | 14.6 | 10083_SNUH_P18 | 24DEC2016 | 2 | 19-Oct-12 |
| ## 165 | 52 | 7.2 | 14.6 | 10083_SNUH_P18 | 19OCT2012 | 2 | 19-Oct-12 |
| ## 166 | 58 | 18.2 | 49.8 | 10083_SNUH_P19 | 15DEC2014 | 2 | 15-Dec-14 |
| ## 167 | 58 | 18.2 | 49.8 | 10083_SNUH_P19 | 23NOV2015 | 2 | 15-Dec-14 |
| ## 168 | 58 | 18.2 | 49.8 | 10083_SNUH_P19 | 06NOV2016 | 2 | 15-Dec-14 |
| ## 169 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 19FEB2011 | 1 | 19-Feb-11 |
| ## 170 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 18FEB2012 | 1 | 19-Feb-11 |
| ## 171 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 16APR2015 | 1 | 19-Feb-11 |
| ## 172 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 26MAY2016 | 1 | 19-Feb-11 |
| ## 173 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 31AUG2017 | 1 | 19-Feb-11 |
| ## 174 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 21FEB2013 | 1 | 19-Feb-11 |
| ## 175 | 49 | 10.4 | 25.5 | 10083_SNUH_P20 | 06MAR2014 | 1 | 19-Feb-11 |
| ## 176 | 43 | 2.6 | 21.1 | 10083_SNUH_P21 | 29FEB2012 | 2 | 29-Feb-12 |
| ## 177 | 43 | 2.6 | 21.1 | 10083_SNUH_P21 | 17SEP2014 | 2 | 29-Feb-12 |
| ## 178 | 28 | 5.7 | 12.5 | 10083_SNUH_P22 | 10MAR2011 | 1 | 10-Mar-11 |
| ## 179 | 28 | 5.7 | 12.5 | 10083_SNUH_P22 | 07MAY2011 | 1 | 10-Mar-11 |
| ## 180 | 39 | 4.2 | 15.4 | 10083_SNUH_P23 | 24FEB2015 | 2 | 16-May-13 |
| ## 181 | 39 | 4.2 | 15.4 | 10083_SNUH_P23 | 17AUG2017 | 2 | 16-May-13 |
| ## 182 | 39 | 4.2 | 15.4 | 10083_SNUH_P23 | 16MAY2013 | 2 | 16-May-13 |
| ## 183 | 39 | 4.2 | 15.4 | 10083_SNUH_P23 | 07JAN2014 | 2 | 16-May-13 |
| ## 184 | NA | NA | NA | 10083_SNUH_P24 | 05SEP2013 | NA | <NA> |
| ## 185 | NA | NA | NA | 10083_SNUH_P24 | 17FEB2014 | NA | <NA> |
| ## 186 | 66 | 18.6 | 37.4 | 10083_SNUH_P25 | 17APR2015 | 1 | 17-Apr-15 |
| ## 187 | 66 | 18.6 | 37.4 | 10083_SNUH_P25 | 10JUN2016 | 1 | 17-Apr-15 |
| ## 188 | 69 | 6.7 | 24.3 | 10083_SNUH_P26 | 26SEP2013 | 2 | 26-Sep-13 |
| ## 189 | 69 | 6.7 | 24.3 | 10083_SNUH_P26 | 17OCT2015 | 2 | 26-Sep-13 |
| ## 190 | 63 | 34.4 | 55.8 | 10083_SNUH_P27 | 09AUG2011 | 1 | 9-Aug-11 |
| ## 191 | 63 | 34.4 | 55.8 | 10083_SNUH_P27 | 22AUG2011 | 1 | 9-Aug-11 |
| ## 192 | 33 | 3.6 | 19.0 | 10083_SNUH_P28 | 05MAR2012 | 2 | 5-Mar-12 |
| ## 193 | 33 | 3.6 | 19.0 | 10083_SNUH_P28 | 21JAN2014 | 2 | 5-Mar-12 |
| ## 194 | 33 | 3.6 | 19.0 | 10083_SNUH_P28 | 05MAR2015 | 2 | 5-Mar-12 |
| ## 195 | 33 | 3.6 | 19.0 | 10083_SNUH_P28 | 02MAR2016 | 2 | 5-Mar-12 |
| ## 196 | 33 | 3.6 | 19.0 | 10083_SNUH_P28 | 03MAR2017 | 2 | 5-Mar-12 |
| ## 197 | 40 | 22.2 | 56.5 | 10083_SNUH_P29 | 28DEC2011 | 2 | 28-Dec-11 |
| ## 198 | 40 | 22.2 | 56.5 | 10083_SNUH_P29 | 09JUL2012 | 2 | 28-Dec-11 |
| ## 199 | 52 | 10.3 | 24.8 | 10083_SNUH_P30 | 19JAN2012 | 2 | 19-Jan-12 |
| ## 200 | 52 | 10.3 | 24.8 | 10083_SNUH_P30 | 05AUG2016 | 2 | 19-Jan-12 |
| ## 201 | 56 | 17.6 | 48.8 | 10083_SNUH_P31 | 08JUL2009 | 1 | 8-Jul-09 |
| ## 202 | 56 | 17.6 | 48.8 | 10083_SNUH_P31 | 25APR2011 | 1 | 8-Jul-09 |
| ## 203 | 63 | 4.0 | 10.9 | 10083_SNUH_P32 | 22APR2009 | 2 | 22-Apr-09 |
| ## 204 | 63 | 4.0 | 10.9 | 10083_SNUH_P32 | 15JUL2009 | 2 | 22-Apr-09 |

| | | | | | | | | |
|----|---|----|------|------|----------------|-----------|---|-----------|
| ## | 205 | 63 | 4.0 | 10.9 | 10083_SNUH_P32 | 04NOV2009 | 2 | 22-Apr-09 |
| ## | 206 | 63 | 4.0 | 10.9 | 10083_SNUH_P32 | 04AUG2010 | 2 | 22-Apr-09 |
| ## | 207 | 63 | 4.0 | 10.9 | 10083_SNUH_P32 | 25JUL2012 | 2 | 22-Apr-09 |
| ## | 208 | 63 | 4.0 | 10.9 | 10083_SNUH_P32 | 26DEC2015 | 2 | 22-Apr-09 |
| ## | 209 | 65 | 26.0 | 44.2 | 10083_SNUH_P33 | 24MAR2015 | 2 | 24-Mar-15 |
| ## | 210 | 65 | 26.0 | 44.2 | 10083_SNUH_P33 | 14APR2016 | 2 | 24-Mar-15 |
| ## | 211 | 60 | 45.5 | 64.8 | 10083_SNUH_P34 | 15SEP2015 | 2 | 15-Sep-15 |
| ## | 212 | 60 | 45.5 | 64.8 | 10083_SNUH_P34 | 19DEC2015 | 2 | 15-Sep-15 |
| ## | 213 | 60 | 45.5 | 64.8 | 10083_SNUH_P34 | 17MAY2016 | 2 | 15-Sep-15 |
| ## | 214 | 60 | 45.5 | 64.8 | 10083_SNUH_P34 | 12JAN2017 | 2 | 15-Sep-15 |
| ## | 215 | 52 | 15.9 | 42.4 | 10083_SNUH_P35 | 27JAN2014 | 2 | 27-Jan-14 |
| ## | 216 | 52 | 15.9 | 42.4 | 10083_SNUH_P35 | 03DEC2015 | 2 | 27-Jan-14 |
| ## | 217 | 52 | 17.5 | 42.0 | 10083_SNUH_P36 | 14AUG2009 | 2 | 14-Aug-09 |
| ## | 218 | 52 | 17.5 | 42.0 | 10083_SNUH_P36 | 18FEB2010 | 2 | 14-Aug-09 |
| ## | 219 | 52 | 17.5 | 42.0 | 10083_SNUH_P36 | 03APR2014 | 2 | 14-Aug-09 |
| ## | 220 | 65 | 11.2 | 19.2 | 10083_SNUH_P37 | 09MAY2012 | 2 | 9-May-12 |
| ## | 221 | 65 | 11.2 | 19.2 | 10083_SNUH_P37 | 11DEC2013 | 2 | 9-May-12 |
| ## | 222 | 65 | 11.2 | 19.2 | 10083_SNUH_P37 | 06FEB2015 | 2 | 9-May-12 |
| ## | 223 | 56 | 20.5 | 36.5 | 10083_SNUH_P38 | 02NOV2012 | 1 | 2-Nov-12 |
| ## | 224 | 56 | 20.5 | 36.5 | 10083_SNUH_P38 | 27MAR2013 | 1 | 2-Nov-12 |
| ## | 225 | 56 | 20.5 | 36.5 | 10083_SNUH_P38 | 29DEC2015 | 1 | 2-Nov-12 |
| ## | 226 | 56 | 20.5 | 36.5 | 10083_SNUH_P38 | 27JUN2017 | 1 | 2-Nov-12 |
| ## | 227 | 56 | 7.0 | 33.5 | 10083_SNUH_P39 | 29MAY2014 | 2 | 29-May-14 |
| ## | 228 | 56 | 7.0 | 33.5 | 10083_SNUH_P39 | 19MAY2016 | 2 | 29-May-14 |
| ## | 229 | 56 | 7.0 | 33.5 | 10083_SNUH_P39 | 17JUL2016 | 2 | 29-May-14 |
| ## | 230 | 41 | 21.8 | 53.8 | 10083_SNUH_P40 | 01NOV2013 | 1 | 1-Nov-13 |
| ## | 231 | 41 | 21.8 | 53.8 | 10083_SNUH_P40 | 17AUG2016 | 1 | 1-Nov-13 |
| ## | 232 | 34 | 2.3 | 24.3 | 10083_SNUH_P41 | 27JAN2012 | 2 | 27-Jan-12 |
| ## | 233 | 34 | 2.3 | 24.3 | 10083_SNUH_P41 | 13MAR2012 | 2 | 27-Jan-12 |
| ## | 234 | 34 | 2.3 | 24.3 | 10083_SNUH_P41 | 23MAY2012 | 2 | 27-Jan-12 |
| ## | 235 | 34 | 2.3 | 24.3 | 10083_SNUH_P41 | 06SEP2012 | 2 | 27-Jan-12 |
| ## | 236 | 63 | 7.1 | 16.8 | 10083_SNUH_P42 | 27MAY2015 | 2 | 27-May-15 |
| ## | 237 | 63 | 7.1 | 16.8 | 10083_SNUH_P42 | 18DEC2016 | 2 | 27-May-15 |
| ## | 238 | 59 | 6.6 | 13.5 | 10083_SNUH_P43 | 07AUG2014 | 2 | 7-Aug-14 |
| ## | 239 | 59 | 6.6 | 13.5 | 10083_SNUH_P43 | 24OCT2014 | 2 | 7-Aug-14 |
| ## | 240 | 59 | 6.6 | 13.5 | 10083_SNUH_P43 | 26JAN2015 | 2 | 7-Aug-14 |
| ## | 241 | 59 | 6.6 | 13.5 | 10083_SNUH_P43 | 25AUG2015 | 2 | 7-Aug-14 |
| ## | 242 | 59 | 6.6 | 13.5 | 10083_SNUH_P43 | 03FEB2016 | 2 | 7-Aug-14 |
| ## | 243 | 59 | 6.6 | 13.5 | 10083_SNUH_P43 | 18MAR2017 | 2 | 7-Aug-14 |
| ## | 244 | 47 | 14.1 | 40.3 | 10083_SNUH_P44 | 30JUN2009 | 2 | 30-Jun-09 |
| ## | 245 | 47 | 14.1 | 40.3 | 10083_SNUH_P44 | 30APR2014 | 2 | 30-Jun-09 |
| ## | 246 | 47 | 14.1 | 40.3 | 10083_SNUH_P44 | 20APR2015 | 2 | 30-Jun-09 |
| ## | 247 | 47 | 14.1 | 40.3 | 10083_SNUH_P44 | 13JUL2016 | 2 | 30-Jun-09 |
| ## | 248 | 47 | 14.1 | 40.3 | 10083_SNUH_P44 | 02AUG2017 | 2 | 30-Jun-09 |
| ## | 249 | 61 | 8.3 | 27.7 | 10083_SNUH_P45 | 17FEB2011 | 2 | 17-Feb-11 |
| ## | 250 | 61 | 8.3 | 27.7 | 10083_SNUH_P45 | 15MAY2012 | 2 | 17-Feb-11 |
| ## | 251 | 61 | 8.3 | 27.7 | 10083_SNUH_P45 | 17FEB2015 | 2 | 17-Feb-11 |
| ## | 252 | 61 | 8.3 | 27.7 | 10083_SNUH_P45 | 16AUG2016 | 2 | 17-Feb-11 |
| ## | 253 | 51 | 4.0 | 15.0 | 10083_SNUH_P46 | 02APR2014 | 1 | 2-Apr-14 |
| ## | 254 | 51 | 4.0 | 15.0 | 10083_SNUH_P46 | 17JUL2014 | 1 | 2-Apr-14 |
| ## | 255 | 57 | 1.0 | 9.7 | 10083_SNUH_P47 | 11FEB2016 | 2 | 11-Feb-16 |
| ## | 256 | 57 | 1.0 | 9.7 | 10083_SNUH_P47 | 14FEB2017 | 2 | 11-Feb-16 |
| ## | CumPD5_V1V2 MCumPD_V1V2 HiPD_V1V2 CsA_V1V2 CTX_V1V2 AZT_V1V2 Tac_V1V2 | | | | | | | |
| ## | 1 | | 0 | 0.00 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|-------|---|-------|---|---|---|---|---|
| ## 2 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 3 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
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| ## 6 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 7 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 8 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 9 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 10 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 11 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 12 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 13 | 0 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 14 | 0 | 5.00 | 0 | 1 | 0 | 0 | 1 |
| ## 15 | 0 | 5.00 | 0 | 1 | 0 | 0 | 1 |
| ## 16 | 0 | 5.00 | 0 | 1 | 0 | 0 | 1 |
| ## 17 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 18 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 19 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 20 | 1 | 22.50 | 0 | 1 | 0 | 0 | 0 |
| ## 21 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 22 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 23 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 24 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 25 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 26 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 27 | 1 | 15.00 | 0 | 1 | 1 | 0 | 0 |
| ## 28 | 1 | 8.70 | 0 | 0 | 1 | 0 | 0 |
| ## 29 | 1 | 8.70 | 0 | 0 | 1 | 0 | 0 |
| ## 30 | 0 | 3.40 | 0 | 0 | 0 | 0 | 0 |
| ## 31 | 0 | 3.40 | 0 | 0 | 0 | 0 | 0 |
| ## 32 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 33 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 34 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 35 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 36 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 37 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 38 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 39 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 40 | 0 | 3.10 | 0 | 1 | 0 | 0 | 0 |
| ## 41 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 42 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 43 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 44 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 45 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 46 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 47 | 1 | 9.30 | 1 | 1 | 0 | 1 | 0 |
| ## 48 | 0 | 0.80 | 0 | 0 | 0 | 0 | 1 |
| ## 49 | 0 | 0.80 | 0 | 0 | 0 | 0 | 1 |
| ## 50 | 0 | 0.80 | 0 | 0 | 0 | 0 | 1 |
| ## 51 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 52 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 53 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 54 | 1 | 36.00 | 1 | 1 | 0 | 0 | 0 |
| ## 55 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |

| | | | | | | | |
|--------|---|-------|---|---|---|---|---|
| ## 56 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 57 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 58 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 59 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 60 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 61 | 1 | 44.20 | 1 | 1 | 0 | 0 | 0 |
| ## 62 | 1 | 11.70 | 0 | 1 | 0 | 0 | 0 |
| ## 63 | 1 | 11.70 | 0 | 1 | 0 | 0 | 0 |
| ## 64 | 1 | 11.70 | 0 | 1 | 0 | 0 | 0 |
| ## 65 | 1 | 12.30 | 1 | 0 | 0 | 1 | 0 |
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| ## 67 | 1 | 12.30 | 1 | 0 | 0 | 1 | 0 |
| ## 68 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 69 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 70 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 71 | 1 | 72.90 | 1 | 1 | 0 | 0 | 0 |
| ## 72 | 1 | 12.10 | 1 | 1 | 0 | 1 | 0 |
| ## 73 | 1 | 12.10 | 1 | 1 | 0 | 1 | 0 |
| ## 74 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 75 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 76 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 77 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 78 | 1 | 33.10 | 1 | 1 | 0 | 0 | 0 |
| ## 79 | 1 | 6.60 | 0 | 0 | 0 | 0 | 0 |
| ## 80 | 1 | 6.60 | 0 | 0 | 0 | 0 | 0 |
| ## 81 | 1 | 34.40 | 0 | 0 | 0 | 0 | 0 |
| ## 82 | 1 | 34.40 | 0 | 0 | 0 | 0 | 0 |
| ## 83 | 1 | 34.40 | 0 | 0 | 0 | 0 | 0 |
| ## 84 | 1 | 18.80 | 0 | 0 | 0 | 0 | 0 |
| ## 85 | 1 | 18.80 | 0 | 0 | 0 | 0 | 0 |
| ## 86 | 1 | 25.70 | 1 | 0 | 1 | 0 | 0 |
| ## 87 | 1 | 25.70 | 1 | 0 | 1 | 0 | 0 |
| ## 88 | 1 | 25.70 | 1 | 0 | 1 | 0 | 0 |
| ## 89 | 1 | 30.10 | 1 | 0 | 0 | 0 | 1 |
| ## 90 | 1 | 30.10 | 1 | 0 | 0 | 0 | 1 |
| ## 91 | 1 | 35.70 | 1 | 1 | 1 | 1 | 0 |
| ## 92 | 1 | 35.70 | 1 | 1 | 1 | 1 | 0 |
| ## 93 | 1 | 35.70 | 1 | 1 | 1 | 1 | 0 |
| ## 94 | 1 | 20.80 | 0 | 1 | 0 | 0 | 1 |
| ## 95 | 1 | 20.80 | 0 | 1 | 0 | 0 | 1 |
| ## 96 | 1 | 8.10 | 0 | 0 | 0 | 0 | 1 |
| ## 97 | 1 | 8.10 | 0 | 0 | 0 | 0 | 1 |
| ## 98 | 1 | 21.00 | 1 | 1 | 0 | 0 | 0 |
| ## 99 | 1 | 21.00 | 1 | 1 | 0 | 0 | 0 |
| ## 100 | 1 | 50.50 | 1 | 1 | 0 | 0 | 0 |
| ## 101 | 1 | 50.50 | 1 | 1 | 0 | 0 | 0 |
| ## 102 | 1 | 10.90 | 0 | 0 | 0 | 1 | 0 |
| ## 103 | 1 | 10.90 | 0 | 0 | 0 | 1 | 0 |
| ## 104 | 1 | 11.20 | 0 | 1 | 0 | 0 | 0 |
| ## 105 | 1 | 11.20 | 0 | 1 | 0 | 0 | 0 |
| ## 106 | 1 | 18.20 | 1 | 1 | 0 | 0 | 0 |
| ## 107 | 1 | 18.20 | 1 | 1 | 0 | 0 | 0 |
| ## 108 | 1 | 15.90 | 1 | 0 | 0 | 1 | 0 |
| ## 109 | 1 | 15.90 | 1 | 0 | 0 | 1 | 0 |

| | | | | | | | |
|--------|---|-------|---|---|---|---|---|
| ## 110 | 1 | 13.70 | 0 | 0 | 0 | 1 | 0 |
| ## 111 | 1 | 13.70 | 0 | 0 | 0 | 1 | 0 |
| ## 112 | 1 | 20.35 | 1 | 0 | 1 | 0 | 0 |
| ## 113 | 1 | 20.35 | 1 | 0 | 1 | 0 | 0 |
| ## 114 | 1 | 8.88 | 0 | 0 | 0 | 0 | 1 |
| ## 115 | 1 | 8.88 | 0 | 0 | 0 | 0 | 1 |
| ## 116 | 1 | 8.88 | 0 | 0 | 0 | 0 | 1 |
| ## 117 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 118 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 119 | 1 | 20.61 | 0 | 1 | 0 | 0 | 0 |
| ## 120 | 1 | 20.61 | 0 | 1 | 0 | 0 | 0 |
| ## 121 | 1 | 9.84 | 0 | 1 | 0 | 0 | 0 |
| ## 122 | 1 | 9.84 | 0 | 1 | 0 | 0 | 0 |
| ## 123 | 1 | 9.51 | 0 | 0 | 0 | 0 | 0 |
| ## 124 | 1 | 9.51 | 0 | 0 | 0 | 0 | 0 |
| ## 125 | 1 | 9.51 | 0 | 0 | 0 | 0 | 0 |
| ## 126 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 127 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 128 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 129 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 130 | 1 | 30.00 | 0 | 0 | 0 | 0 | 0 |
| ## 131 | 0 | 2.64 | 0 | 0 | 0 | 0 | 0 |
| ## 132 | 0 | 2.64 | 0 | 0 | 0 | 0 | 0 |
| ## 133 | 1 | 5.39 | 0 | 1 | 0 | 0 | 0 |
| ## 134 | 1 | 5.39 | 0 | 1 | 0 | 0 | 0 |
| ## 135 | 1 | 5.39 | 0 | 1 | 0 | 0 | 0 |
| ## 136 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 137 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 138 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 139 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 140 | 1 | 22.20 | 0 | 0 | 0 | 0 | 0 |
| ## 141 | 1 | 17.50 | 0 | 1 | 0 | 0 | 0 |
| ## 142 | 1 | 17.50 | 0 | 1 | 0 | 0 | 0 |
| ## 143 | 1 | 17.50 | 0 | 1 | 0 | 0 | 0 |
| ## 144 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 145 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 146 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 147 | 1 | 23.76 | 1 | 0 | 1 | 1 | 0 |
| ## 148 | 1 | 22.38 | 0 | 1 | 0 | 0 | 0 |
| ## 149 | 1 | 22.38 | 0 | 1 | 0 | 0 | 0 |
| ## 150 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 151 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 152 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 153 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 154 | 1 | 6.21 | 0 | 0 | 0 | 0 | 0 |
| ## 155 | 1 | 18.71 | 1 | 0 | 0 | 1 | 0 |
| ## 156 | 1 | 18.71 | 1 | 0 | 0 | 1 | 0 |
| ## 157 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 158 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 159 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 160 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 161 | 1 | 5.37 | 0 | 0 | 0 | 1 | 0 |
| ## 162 | 1 | 5.37 | 0 | 0 | 0 | 1 | 0 |
| ## 163 | 1 | 5.37 | 0 | 0 | 0 | 1 | 0 |

| | | | | | | | |
|--------|----|-------|----|----|----|----|----|
| ## 164 | 1 | 13.34 | 1 | 1 | 0 | 0 | 0 |
| ## 165 | 1 | 13.34 | 1 | 1 | 0 | 0 | 0 |
| ## 166 | 0 | 3.75 | 0 | 0 | 0 | 1 | 0 |
| ## 167 | 0 | 3.75 | 0 | 0 | 0 | 1 | 0 |
| ## 168 | 0 | 3.75 | 0 | 0 | 0 | 1 | 0 |
| ## 169 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 170 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 171 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 172 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 173 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 174 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 175 | 0 | 3.78 | 0 | 0 | 0 | 0 | 0 |
| ## 176 | 1 | 10.24 | 0 | 0 | 0 | 1 | 0 |
| ## 177 | 1 | 10.24 | 0 | 0 | 0 | 1 | 0 |
| ## 178 | 1 | 12.43 | 0 | 0 | 1 | 0 | 0 |
| ## 179 | 1 | 12.43 | 0 | 0 | 1 | 0 | 0 |
| ## 180 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 181 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 182 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 183 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 184 | NA | NA | NA | NA | NA | NA | NA |
| ## 185 | NA | NA | NA | NA | NA | NA | NA |
| ## 186 | 1 | 15.23 | 0 | 1 | 0 | 0 | 0 |
| ## 187 | 1 | 15.23 | 0 | 1 | 0 | 0 | 0 |
| ## 188 | 1 | 7.74 | 0 | 0 | 0 | 0 | 0 |
| ## 189 | 1 | 7.74 | 0 | 0 | 0 | 0 | 0 |
| ## 190 | 1 | 16.07 | 0 | 1 | 0 | 0 | 0 |
| ## 191 | 1 | 16.07 | 0 | 1 | 0 | 0 | 0 |
| ## 192 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 193 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 194 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 195 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 196 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 |
| ## 197 | 1 | 8.98 | 0 | 0 | 0 | 0 | 0 |
| ## 198 | 1 | 8.98 | 0 | 0 | 0 | 0 | 0 |
| ## 199 | 1 | 5.12 | 0 | 0 | 0 | 0 | 0 |
| ## 200 | 1 | 5.12 | 0 | 0 | 0 | 0 | 0 |
| ## 201 | 0 | 4.99 | 0 | 0 | 0 | 1 | 0 |
| ## 202 | 0 | 4.99 | 0 | 0 | 0 | 1 | 0 |
| ## 203 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 204 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 205 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 206 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 207 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 208 | 1 | 12.50 | 0 | 0 | 0 | 1 | 0 |
| ## 209 | 1 | 5.93 | 0 | 0 | 0 | 0 | 0 |
| ## 210 | 1 | 5.93 | 0 | 0 | 0 | 0 | 0 |
| ## 211 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 212 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 213 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 214 | 1 | 16.93 | 0 | 1 | 0 | 0 | 0 |
| ## 215 | 1 | 15.59 | 1 | 0 | 0 | 0 | 0 |
| ## 216 | 1 | 15.59 | 1 | 0 | 0 | 0 | 0 |
| ## 217 | 1 | 10.00 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------|---|-------|---|---|---|---|---|
| ## 218 | 1 | 10.00 | 0 | 0 | 0 | 0 | 0 |
| ## 219 | 1 | 10.00 | 0 | 0 | 0 | 0 | 0 |
| ## 220 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 221 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 222 | 1 | 7.50 | 0 | 0 | 0 | 0 | 0 |
| ## 223 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 224 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 225 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 226 | 1 | 39.28 | 1 | 1 | 0 | 0 | 1 |
| ## 227 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 228 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 229 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| ## 230 | 1 | 22.20 | 1 | 1 | 0 | 1 | 0 |
| ## 231 | 1 | 22.20 | 1 | 1 | 0 | 1 | 0 |
| ## 232 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 233 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 234 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 235 | 1 | 21.49 | 0 | 0 | 0 | 0 | 0 |
| ## 236 | 1 | 5.65 | 0 | 0 | 0 | 0 | 0 |
| ## 237 | 1 | 5.65 | 0 | 0 | 0 | 0 | 0 |
| ## 238 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 239 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 240 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 241 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 242 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 243 | 1 | 10.00 | 0 | 0 | 0 | 1 | 0 |
| ## 244 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 245 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 246 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 247 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 248 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 249 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 250 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 251 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 252 | 0 | 0.00 | 0 | 0 | 0 | 1 | 0 |
| ## 253 | 1 | 38.67 | 1 | 0 | 0 | 0 | 0 |
| ## 254 | 1 | 38.67 | 1 | 0 | 0 | 0 | 0 |
| ## 255 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |
| ## 256 | 1 | 5.00 | 0 | 0 | 0 | 1 | 0 |

| ## | MMF_V1V2 | MTX_V1V2 | IVIg_V1V2 | RTX_V1V2 | ISswitch_V1V2 | ISScause_V1V2 |
|-------|----------|----------|-----------|----------|---------------|---------------|
| ## 1 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 2 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 3 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 4 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 5 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 6 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 7 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 8 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 9 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 10 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 11 | 0 | 1 | 0 | 0 | 1 | 3 |
| ## 12 | 0 | 1 | 0 | 0 | 1 | 3 |
| ## 13 | 0 | 1 | 0 | 0 | 1 | 3 |
| ## 14 | 0 | 0 | 0 | 0 | 1 | 1 |

| | | | | | | |
|-------|---|---|---|---|---|----|
| ## 15 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 16 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 17 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 18 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 19 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 20 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 21 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 22 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 23 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 24 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 25 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 26 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 27 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 28 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 29 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 30 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 31 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 32 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 33 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 34 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 35 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 36 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 37 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 38 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 39 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 40 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 41 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 42 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 43 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 44 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 45 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 46 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 47 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 48 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 49 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 50 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 51 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 52 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 53 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 54 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 55 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 56 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 57 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 58 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 59 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 60 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 61 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 62 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 63 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 64 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 65 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 66 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 67 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 68 | 0 | 0 | 0 | 0 | 0 | NA |

| | | | | | | |
|--------|---|---|---|---|---|----|
| ## 69 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 70 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 71 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 72 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 73 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 74 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 75 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 76 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 77 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 78 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 79 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 80 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 81 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 82 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 83 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 84 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 85 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 86 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 87 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 88 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 89 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 90 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 91 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 92 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 93 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 94 | 0 | 1 | 1 | 0 | 1 | 1 |
| ## 95 | 0 | 1 | 1 | 0 | 1 | 1 |
| ## 96 | 1 | 0 | 0 | 0 | 1 | 2 |
| ## 97 | 1 | 0 | 0 | 0 | 1 | 2 |
| ## 98 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 99 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 100 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 101 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 102 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 103 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 104 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 105 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 106 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 107 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 108 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 109 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 110 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 111 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 112 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 113 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 114 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 115 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 116 | 0 | 1 | 0 | 0 | 1 | 1 |
| ## 117 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 118 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 119 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 120 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 121 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 122 | 0 | 0 | 0 | 0 | 1 | 1 |

| | | | | | | |
|--------|---|---|---|---|---|----|
| ## 123 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 124 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 125 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 126 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 127 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 128 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 129 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 130 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 131 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 132 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 133 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 134 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 135 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 136 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 137 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 138 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 139 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 140 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 141 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 142 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 143 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 144 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 145 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 146 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 147 | 0 | 0 | 1 | 0 | 1 | 1 |
| ## 148 | 0 | 1 | 0 | 0 | 1 | 2 |
| ## 149 | 0 | 1 | 0 | 0 | 1 | 2 |
| ## 150 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 151 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 152 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 153 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 154 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## 155 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 156 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 157 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 158 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 159 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 160 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 161 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 162 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 163 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 164 | 0 | 0 | 0 | 0 | 1 | 2 |
| ## 165 | 0 | 0 | 0 | 0 | 1 | 2 |
| ## 166 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 167 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 168 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 169 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 170 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 171 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 172 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 173 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 174 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 175 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 176 | 0 | 0 | 0 | 0 | 0 | NA |

| | | | | | | |
|--------|----|----|----|----|----|----|
| ## 177 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 178 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 179 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 180 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 181 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 182 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 183 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 184 | NA | NA | NA | NA | NA | NA |
| ## 185 | NA | NA | NA | NA | NA | NA |
| ## 186 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 187 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 188 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 189 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 190 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 191 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 192 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 193 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 194 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 195 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 196 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 197 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 198 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 199 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 200 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 201 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 202 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 203 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 204 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 205 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 206 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 207 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 208 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 209 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 210 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 211 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 212 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 213 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 214 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 215 | 0 | 0 | 1 | 1 | 1 | 1 |
| ## 216 | 0 | 0 | 1 | 1 | 1 | 1 |
| ## 217 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 218 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 219 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 220 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 221 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 222 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 223 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 224 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 225 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 226 | 0 | 0 | 0 | 0 | 1 | 1 |
| ## 227 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 228 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 229 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 230 | 1 | 0 | 1 | 1 | 1 | 1 |

| | | | | | | |
|--------|-----------------|---------------|------|----------|-------|----|
| ## 231 | 1 | 0 | 1 | 1 | 1 | 1 |
| ## 232 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 233 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 234 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 235 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 236 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 237 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 238 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 239 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 240 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 241 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 242 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 243 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 244 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 245 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 246 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 247 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 248 | 0 | 1 | 0 | 0 | 0 | NA |
| ## 249 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 250 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 251 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 252 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 253 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 254 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 255 | 0 | 0 | 0 | 0 | 0 | NA |
| ## 256 | 0 | 0 | 0 | 0 | 0 | NA |
| ## | SLICE_THICKNESS | SLICE_SPACING | name | size | date | |
| ## 1 | 1.00 | 2.000000 | 1 | 2.000000 | 13577 | |
| ## 2 | 0.67 | 1.979980 | 1 | 1.326587 | 13941 | |
| ## 3 | 1.00 | 2.000000 | 1 | 2.000000 | 15049 | |
| ## 4 | 1.00 | 2.000000 | 1 | 2.000000 | 15420 | |
| ## 5 | 1.00 | 2.000000 | 1 | 2.000000 | 14309 | |
| ## 6 | 1.00 | 2.000000 | 1 | 2.000000 | 14680 | |
| ## 7 | 1.00 | 2.000000 | 1 | 2.000000 | 15791 | |
| ## 8 | 1.00 | 2.000000 | 1 | 2.000000 | 16153 | |
| ## 9 | 1.00 | 2.000000 | 2 | 2.000000 | 14195 | |
| ## 10 | 1.00 | 2.000000 | 2 | 2.000000 | 14481 | |
| ## 11 | 1.00 | 2.000000 | 3 | 2.000000 | 14190 | |
| ## 12 | 1.00 | 2.000000 | 3 | 2.000000 | 13350 | |
| ## 13 | 1.00 | 2.000000 | 3 | 2.000000 | 13603 | |
| ## 14 | 1.00 | 2.000000 | 4 | 2.000000 | 13341 | |
| ## 15 | 1.00 | 2.000000 | 4 | 2.000000 | 16296 | |
| ## 16 | 1.00 | 1.000000 | 4 | 1.000000 | 17317 | |
| ## 17 | 0.67 | 1.979981 | 5 | 1.326587 | 13437 | |
| ## 18 | 1.00 | 2.000000 | 5 | 2.000000 | 15324 | |
| ## 19 | 1.00 | 2.000000 | 5 | 2.000000 | 13245 | |
| ## 20 | 1.00 | 1.000000 | 5 | 1.000000 | 16881 | |
| ## 21 | 1.00 | 2.000000 | 6 | 2.000000 | 13755 | |
| ## 22 | 1.00 | 2.000000 | 6 | 2.000000 | 14081 | |
| ## 23 | 1.00 | 2.000000 | 6 | 2.000000 | 13508 | |
| ## 24 | 1.00 | 2.000000 | 6 | 2.000000 | 15278 | |
| ## 25 | 1.00 | 2.000000 | 6 | 2.000000 | 15649 | |
| ## 26 | 1.00 | 2.000000 | 6 | 2.000000 | 14445 | |
| ## 27 | 1.00 | 2.000000 | 6 | 2.000000 | 14823 | |

| | | | | | |
|-------|------|----------|----|----------|-------|
| ## 28 | 1.00 | 1.000000 | 7 | 1.000000 | 16763 |
| ## 29 | 1.00 | 1.000000 | 7 | 1.000000 | 17098 |
| ## 30 | 1.00 | 2.000000 | 8 | 2.000000 | 14054 |
| ## 31 | 1.00 | 2.000000 | 8 | 2.000000 | 15790 |
| ## 32 | 1.00 | 2.000000 | 9 | 2.000000 | 14053 |
| ## 33 | 1.00 | 2.000000 | 9 | 2.000000 | 14970 |
| ## 34 | 1.00 | 2.000000 | 9 | 2.000000 | 16237 |
| ## 35 | 1.00 | 2.000000 | 9 | 2.000000 | 16583 |
| ## 36 | 1.00 | 2.000000 | 9 | 2.000000 | 15377 |
| ## 37 | 1.00 | 2.000000 | 9 | 2.000000 | 15832 |
| ## 38 | 1.00 | 1.000000 | 9 | 1.000000 | 17563 |
| ## 39 | 1.00 | 1.000000 | 9 | 1.000000 | 16967 |
| ## 40 | NA | NA | 9 | NA | 17415 |
| ## 41 | 0.67 | 1.979981 | 10 | 1.326587 | 13444 |
| ## 42 | 0.67 | 1.979981 | 10 | 1.326587 | 13652 |
| ## 43 | 1.00 | 2.000000 | 10 | 2.000000 | 16139 |
| ## 44 | 1.00 | 2.000000 | 11 | 2.000000 | 16262 |
| ## 45 | 1.00 | 1.000000 | 11 | 1.000000 | 17127 |
| ## 46 | 0.67 | 1.980010 | 11 | 1.326607 | 13558 |
| ## 47 | 1.00 | 1.000000 | 11 | 1.000000 | 17474 |
| ## 48 | 1.00 | 1.000000 | 12 | 1.000000 | 17450 |
| ## 49 | 1.00 | 1.000000 | 12 | 1.000000 | 17456 |
| ## 50 | 1.00 | 2.000000 | 12 | 2.000000 | 14039 |
| ## 51 | 1.00 | 1.000000 | 13 | 1.000000 | 17044 |
| ## 52 | 1.00 | 1.000000 | 13 | 1.000000 | 17595 |
| ## 53 | 1.00 | 2.000000 | 13 | 2.000000 | 16440 |
| ## 54 | 1.00 | 1.000000 | 13 | 1.000000 | 16812 |
| ## 55 | 1.00 | NA | 14 | NA | 14571 |
| ## 56 | 1.00 | NA | 14 | NA | 15366 |
| ## 57 | 1.00 | NA | 14 | NA | 16554 |
| ## 58 | 1.00 | NA | 14 | NA | 14644 |
| ## 59 | 1.00 | NA | 14 | NA | 15078 |
| ## 60 | 1.00 | NA | 14 | NA | 16933 |
| ## 61 | 1.00 | NA | 14 | NA | 17527 |
| ## 62 | 1.00 | 2.000000 | 15 | 2.000000 | 15015 |
| ## 63 | 1.00 | 2.000000 | 15 | 2.000000 | 15341 |
| ## 64 | 1.00 | 2.000000 | 15 | 2.000000 | 15542 |
| ## 65 | 1.00 | 1.000000 | 16 | 1.000000 | 17344 |
| ## 66 | 1.00 | 1.000000 | 16 | 1.000000 | 17149 |
| ## 67 | 1.00 | 2.000000 | 16 | 2.000000 | 16505 |
| ## 68 | 1.00 | 2.000000 | 17 | 2.000000 | 15021 |
| ## 69 | 1.00 | 2.000000 | 17 | 2.000000 | 15181 |
| ## 70 | 1.00 | 2.000000 | 17 | 2.000000 | 15345 |
| ## 71 | 1.00 | 2.000000 | 17 | 2.000000 | 15425 |
| ## 72 | 1.00 | 2.000000 | 18 | 2.000000 | 15141 |
| ## 73 | 1.00 | 1.000000 | 18 | 1.000000 | 16843 |
| ## 74 | 1.00 | 2.000000 | 19 | 2.000000 | 15758 |
| ## 75 | 1.00 | 2.000000 | 19 | 2.000000 | 15824 |
| ## 76 | 1.00 | 2.000000 | 19 | 2.000000 | 15170 |
| ## 77 | 1.00 | 2.000000 | 19 | 2.000000 | 15258 |
| ## 78 | 1.00 | 2.000000 | 19 | 2.000000 | 15848 |
| ## 79 | 1.00 | 2.000000 | 20 | 2.000000 | 16316 |
| ## 80 | 1.00 | 2.000000 | 20 | 2.000000 | 15827 |
| ## 81 | 1.00 | 2.000000 | 21 | 2.000000 | 15566 |

| | | | | | |
|--------|------|----------|----|----------|-------|
| ## 82 | 1.00 | 2.000000 | 21 | 2.000000 | 15606 |
| ## 83 | 1.00 | 2.000000 | 21 | 2.000000 | 15715 |
| ## 84 | 1.00 | 2.000000 | 22 | 2.000000 | 16307 |
| ## 85 | 1.00 | 2.000000 | 22 | 2.000000 | 15954 |
| ## 86 | NA | NA | 23 | NA | 16006 |
| ## 87 | 1.00 | 2.000000 | 23 | 2.000000 | 16081 |
| ## 88 | 1.00 | 2.000000 | 23 | 2.000000 | 16170 |
| ## 89 | 1.00 | 2.000000 | 24 | 2.000000 | 16114 |
| ## 90 | 1.00 | 2.000000 | 24 | 2.000000 | 16241 |
| ## 91 | 1.00 | 1.000000 | 25 | 1.000000 | 17539 |
| ## 92 | 1.00 | 1.000000 | 25 | 1.000000 | 17073 |
| ## 93 | 1.00 | 1.000000 | 25 | 1.000000 | 17364 |
| ## 94 | 1.00 | 1.000000 | 26 | 1.000000 | 16767 |
| ## 95 | 1.00 | 1.000000 | 26 | 1.000000 | 17523 |
| ## 96 | 1.00 | 1.000000 | 27 | 1.000000 | 17339 |
| ## 97 | 1.00 | 1.000000 | 27 | 1.000000 | 17481 |
| ## 98 | 1.00 | 2.000000 | 28 | 2.000000 | 16338 |
| ## 99 | 1.00 | 2.000000 | 28 | 2.000000 | 16490 |
| ## 100 | 1.00 | 2.000000 | 29 | 2.000000 | 16564 |
| ## 101 | 1.00 | 2.000000 | 29 | 2.000000 | 16640 |
| ## 102 | 1.00 | 1.000000 | 30 | 1.000000 | 17031 |
| ## 103 | 1.00 | 1.000000 | 30 | 1.000000 | 17345 |
| ## 104 | 1.00 | 1.000000 | 31 | 1.000000 | 17429 |
| ## 105 | NA | NA | 31 | NA | 17053 |
| ## 106 | 1.00 | 1.000000 | 32 | 1.000000 | 17346 |
| ## 107 | 1.00 | 1.000000 | 32 | 1.000000 | 17097 |
| ## 108 | 1.00 | 1.000000 | 33 | 1.000000 | 16974 |
| ## 109 | 1.00 | 1.000000 | 33 | 1.000000 | 17357 |
| ## 110 | 1.00 | 1.000000 | 34 | 1.000000 | 17172 |
| ## 111 | 1.00 | 1.000000 | 34 | 1.000000 | 17543 |
| ## 112 | 1.00 | 1.000000 | 35 | 1.000000 | 17282 |
| ## 113 | 1.25 | 1.250000 | 35 | 1.562500 | 17401 |
| ## 114 | 1.00 | 1.000000 | 36 | 1.000000 | 17451 |
| ## 115 | 1.00 | 1.000000 | 36 | 1.000000 | 16848 |
| ## 116 | 1.00 | 1.000000 | 36 | 1.000000 | 17022 |
| ## 117 | 1.00 | 1.000000 | 37 | 1.000000 | 16888 |
| ## 118 | 1.00 | 1.000000 | 37 | 1.000000 | 17072 |
| ## 119 | 1.00 | 1.000000 | 38 | 1.000000 | 17051 |
| ## 120 | 1.00 | 1.000000 | 38 | 1.000000 | 16664 |
| ## 121 | 1.00 | 1.000000 | 39 | 1.000000 | 17114 |
| ## 122 | 1.00 | 1.000000 | 39 | 1.000000 | 17373 |
| ## 123 | 1.00 | 1.000000 | 40 | 1.000000 | 17119 |
| ## 124 | 1.00 | 1.000000 | 40 | 1.000000 | 16699 |
| ## 125 | 1.00 | 1.000000 | 40 | 1.000000 | 16996 |
| ## 126 | 1.00 | 1.000000 | 41 | 1.000000 | 16276 |
| ## 127 | 1.00 | 1.000000 | 41 | 1.000000 | 17191 |
| ## 128 | 1.00 | 1.000000 | 41 | 1.000000 | 17363 |
| ## 129 | 1.00 | 1.000000 | 41 | 1.000000 | 16371 |
| ## 130 | 1.00 | 1.000000 | 41 | 1.000000 | 16622 |
| ## 131 | 1.00 | 1.000000 | 42 | 1.000000 | 17258 |
| ## 132 | 1.00 | 1.000000 | 42 | 1.000000 | 16727 |
| ## 133 | 1.00 | 1.000000 | 43 | 1.000000 | 16647 |
| ## 134 | 1.00 | 1.000000 | 43 | 1.000000 | 17131 |
| ## 135 | 1.00 | 1.000000 | 43 | 1.000000 | 16255 |

| | | | | | |
|--------|------|----------|----|----------|-------|
| ## 136 | 1.00 | 1.000000 | 44 | 1.000000 | 16007 |
| ## 137 | 1.00 | 1.000000 | 44 | 1.000000 | 16610 |
| ## 138 | 1.00 | 1.000000 | 44 | 1.000000 | 15924 |
| ## 139 | 1.00 | 1.000000 | 44 | 1.000000 | 15973 |
| ## 140 | 1.00 | 1.000000 | 44 | 1.000000 | 16975 |
| ## 141 | 1.00 | 1.000000 | 45 | 1.000000 | 16034 |
| ## 142 | 1.00 | 1.000000 | 45 | 1.000000 | 16125 |
| ## 143 | 1.00 | 1.000000 | 45 | 1.000000 | 15939 |
| ## 144 | 1.00 | 1.000000 | 46 | 1.000000 | 16662 |
| ## 145 | 1.00 | 1.000000 | 46 | 1.000000 | 17385 |
| ## 146 | 1.00 | 1.000000 | 46 | 1.000000 | 15991 |
| ## 147 | 1.00 | 1.000000 | 46 | 1.000000 | 16511 |
| ## 148 | 1.00 | 1.000000 | 47 | 1.000000 | 15936 |
| ## 149 | 1.00 | 1.000000 | 47 | 1.000000 | 16020 |
| ## 150 | 1.00 | NA | 48 | NA | 16483 |
| ## 151 | 1.00 | NA | 48 | NA | 16615 |
| ## 152 | 1.00 | NA | 48 | NA | 15657 |
| ## 153 | 1.00 | NA | 48 | NA | 16118 |
| ## 154 | 1.25 | NA | 48 | NA | 17189 |
| ## 155 | 1.00 | 1.000000 | 49 | 1.000000 | 16123 |
| ## 156 | 1.00 | 1.000000 | 49 | 1.000000 | 15520 |
| ## 157 | 1.00 | 1.000000 | 50 | 1.000000 | 15551 |
| ## 158 | 1.00 | 1.000000 | 50 | 1.000000 | 17381 |
| ## 159 | 1.00 | 1.000000 | 50 | 1.000000 | 16488 |
| ## 160 | 1.00 | 1.000000 | 50 | 1.000000 | 16955 |
| ## 161 | 1.00 | 1.000000 | 51 | 1.000000 | 15418 |
| ## 162 | 1.00 | 1.000000 | 51 | 1.000000 | 15917 |
| ## 163 | 1.00 | 1.000000 | 51 | 1.000000 | 16245 |
| ## 164 | 1.00 | 1.000000 | 52 | 1.000000 | 17159 |
| ## 165 | NA | NA | 52 | NA | 15632 |
| ## 166 | 1.00 | 1.000000 | 53 | 1.000000 | 16419 |
| ## 167 | 1.00 | 1.000000 | 53 | 1.000000 | 16762 |
| ## 168 | 1.00 | 1.000000 | 53 | 1.000000 | 17111 |
| ## 169 | 1.00 | 1.000000 | 54 | 1.000000 | 15024 |
| ## 170 | 1.00 | 1.000000 | 54 | 1.000000 | 15388 |
| ## 171 | NA | NA | 54 | NA | 16541 |
| ## 172 | 1.00 | 1.000000 | 54 | 1.000000 | 16947 |
| ## 173 | 1.00 | 1.000000 | 54 | 1.000000 | 17409 |
| ## 174 | 1.00 | 1.000000 | 54 | 1.000000 | 15757 |
| ## 175 | 1.00 | 1.000000 | 54 | 1.000000 | 16135 |
| ## 176 | 1.00 | 1.000000 | 55 | 1.000000 | 15399 |
| ## 177 | 1.00 | 1.000000 | 55 | 1.000000 | 16330 |
| ## 178 | 1.25 | 1.250000 | 56 | 1.562500 | 15043 |
| ## 179 | 1.00 | 1.000000 | 56 | 1.000000 | 15101 |
| ## 180 | 1.00 | 1.000000 | 57 | 1.000000 | 16490 |
| ## 181 | 1.00 | 1.000000 | 57 | 1.000000 | 17395 |
| ## 182 | 1.00 | 1.000000 | 57 | 1.000000 | 15841 |
| ## 183 | 1.00 | 1.000000 | 57 | 1.000000 | 16077 |
| ## 184 | 1.25 | 1.250000 | 58 | 1.562500 | 15953 |
| ## 185 | 1.00 | 1.000000 | 58 | 1.000000 | 16118 |
| ## 186 | 1.00 | 1.000000 | 59 | 1.000000 | 16542 |
| ## 187 | 1.00 | 1.000000 | 59 | 1.000000 | 16962 |
| ## 188 | 1.00 | 1.000000 | 60 | 1.000000 | 15974 |
| ## 189 | NA | NA | 60 | NA | 16725 |

| | | | | |
|--------|------|----------|-------------|-------|
| ## 190 | 1.00 | 1.000000 | 61 1.000000 | 15195 |
| ## 191 | 1.00 | 1.000000 | 61 1.000000 | 15208 |
| ## 192 | 1.00 | 1.000000 | 62 1.000000 | 15404 |
| ## 193 | 1.00 | 1.000000 | 62 1.000000 | 16091 |
| ## 194 | 1.00 | 1.000000 | 62 1.000000 | 16499 |
| ## 195 | 1.00 | 1.000000 | 62 1.000000 | 16862 |
| ## 196 | 1.00 | 1.000000 | 62 1.000000 | 17228 |
| ## 197 | 1.00 | 1.000000 | 63 1.000000 | 15336 |
| ## 198 | 1.00 | 1.000000 | 63 1.000000 | 15530 |
| ## 199 | 1.00 | 1.000000 | 64 1.000000 | 15358 |
| ## 200 | 1.00 | 1.000000 | 64 1.000000 | 17018 |
| ## 201 | 1.00 | 1.000000 | 65 1.000000 | 14433 |
| ## 202 | 1.00 | 1.000000 | 65 1.000000 | 15089 |
| ## 203 | 1.25 | 1.250000 | 66 1.562500 | 14356 |
| ## 204 | 1.00 | 1.000000 | 66 1.000000 | 14440 |
| ## 205 | 1.00 | 1.000000 | 66 1.000000 | 14552 |
| ## 206 | 1.00 | 1.000000 | 66 1.000000 | 14825 |
| ## 207 | 1.00 | 1.000000 | 66 1.000000 | 15546 |
| ## 208 | 1.00 | 1.000000 | 66 1.000000 | 16795 |
| ## 209 | 1.00 | 1.000000 | 67 1.000000 | 16518 |
| ## 210 | 1.00 | 1.000000 | 67 1.000000 | 16905 |
| ## 211 | 1.00 | 1.000000 | 68 1.000000 | 16693 |
| ## 212 | NA | NA | 68 NA | 16788 |
| ## 213 | 1.00 | 1.000000 | 68 1.000000 | 16938 |
| ## 214 | 1.00 | 1.000000 | 68 1.000000 | 17178 |
| ## 215 | 1.00 | 1.000000 | 69 1.000000 | 16097 |
| ## 216 | 1.00 | 1.000000 | 69 1.000000 | 16772 |
| ## 217 | 1.00 | 1.000000 | 70 1.000000 | 14470 |
| ## 218 | NA | NA | 70 NA | 14658 |
| ## 219 | 1.00 | 1.000000 | 70 1.000000 | 16163 |
| ## 220 | 1.00 | 1.000000 | 71 1.000000 | 15469 |
| ## 221 | 1.00 | 1.000000 | 71 1.000000 | 16050 |
| ## 222 | 1.00 | 1.000000 | 71 1.000000 | 16472 |
| ## 223 | 1.00 | NA | 72 NA | 15646 |
| ## 224 | 1.00 | 1.000000 | 72 1.000000 | 15791 |
| ## 225 | 1.00 | 1.000000 | 72 1.000000 | 16798 |
| ## 226 | 1.00 | 1.000000 | 72 1.000000 | 17344 |
| ## 227 | 1.00 | 1.000000 | 73 1.000000 | 16219 |
| ## 228 | 1.00 | 1.000000 | 73 1.000000 | 16940 |
| ## 229 | 1.00 | 1.000000 | 73 1.000000 | 16999 |
| ## 230 | 1.00 | 1.000000 | 74 1.000000 | 16010 |
| ## 231 | 1.00 | 1.000000 | 74 1.000000 | 17030 |
| ## 232 | 1.00 | 1.000000 | 75 1.000000 | 15366 |
| ## 233 | 1.00 | 1.000000 | 75 1.000000 | 15412 |
| ## 234 | 1.00 | 1.000000 | 75 1.000000 | 15483 |
| ## 235 | 1.00 | 1.000000 | 75 1.000000 | 15589 |
| ## 236 | 1.00 | 1.000000 | 76 1.000000 | 16582 |
| ## 237 | 1.00 | 1.000000 | 76 1.000000 | 17153 |
| ## 238 | 1.00 | NA | 77 NA | 16289 |
| ## 239 | 1.00 | NA | 77 NA | 16367 |
| ## 240 | 1.00 | NA | 77 NA | 16461 |
| ## 241 | 1.00 | NA | 77 NA | 16672 |
| ## 242 | 1.00 | NA | 77 NA | 16834 |
| ## 243 | 1.00 | NA | 77 NA | 17243 |

```
## 244          1.00      1.000000    78 1.000000 14425
## 245          1.00      1.000000    78 1.000000 16190
## 246          1.00      1.000000    78 1.000000 16545
## 247          1.00      1.000000    78 1.000000 16995
## 248          1.00      1.000000    78 1.000000 17380
## 249          1.00      1.000000    79 1.000000 15022
## 250          1.00      1.000000    79 1.000000 15475
## 251          3.00      3.000000    79 9.000000 16483
## 252          1.00      1.000000    79 1.000000 17029
## 253          1.00      1.000000    80 1.000000 16162
## 254          1.25      1.250000    80 1.562500 16268
## 255          1.00      1.000000    81 1.000000 16842
## 256          1.00      1.000000    81 1.000000 17211
```

```
create_sub_dataframes = function(df, dichotomous_vars) {
  # Create a list to store sub-dataframes
  sub_dataframes = list()

  # Loop through each dichotomous variable
  for (var in dichotomous_vars) {
    # Extract unique values of the variable
    unique_vals = unique(df[[var]])

    # Loop through each unique value
    for (val in unique_vals) {
      # Create a sub-dataframe for the current combination of values
      sub_df = df[df[[var]] == val, ]

      # Select columns
      sub_df = select(sub_df, contains("name", ignore.case = TRUE), date, contains("size", ignore.case = TRUE))

      # Remove missing values using na.omit
      sub_df = na.omit(sub_df)

      # Add the sub-dataframe to the list
      sub_dataframes[[paste0(var, "_", val)]] = sub_df
    }
  }

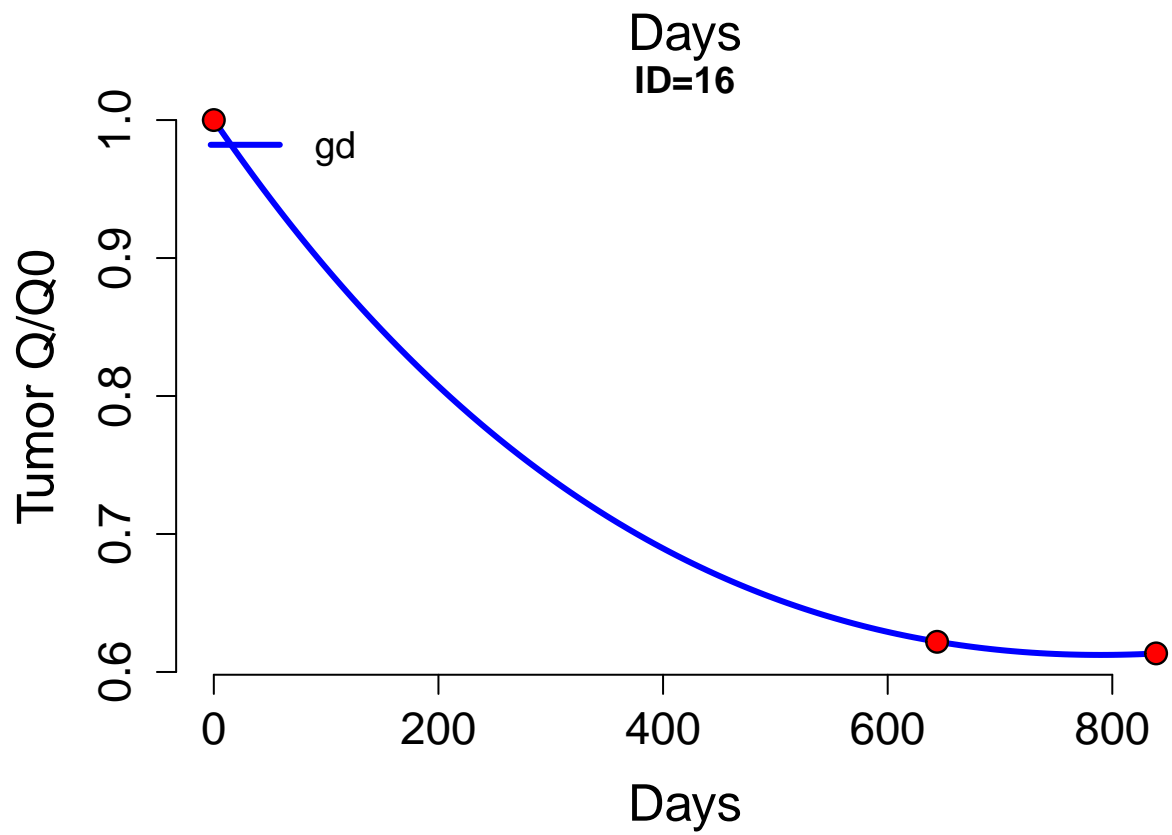
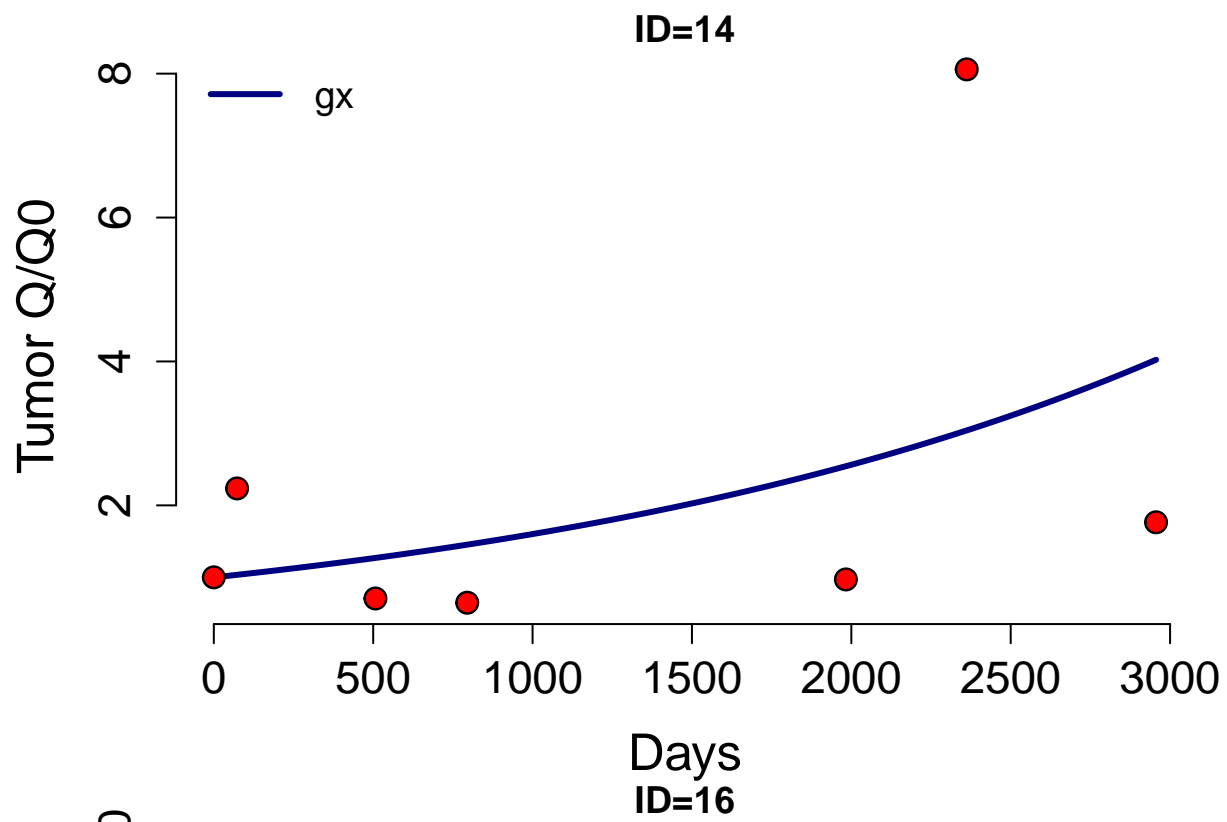
  # Return the list of sub-dataframes
  return(sub_dataframes)
}
```

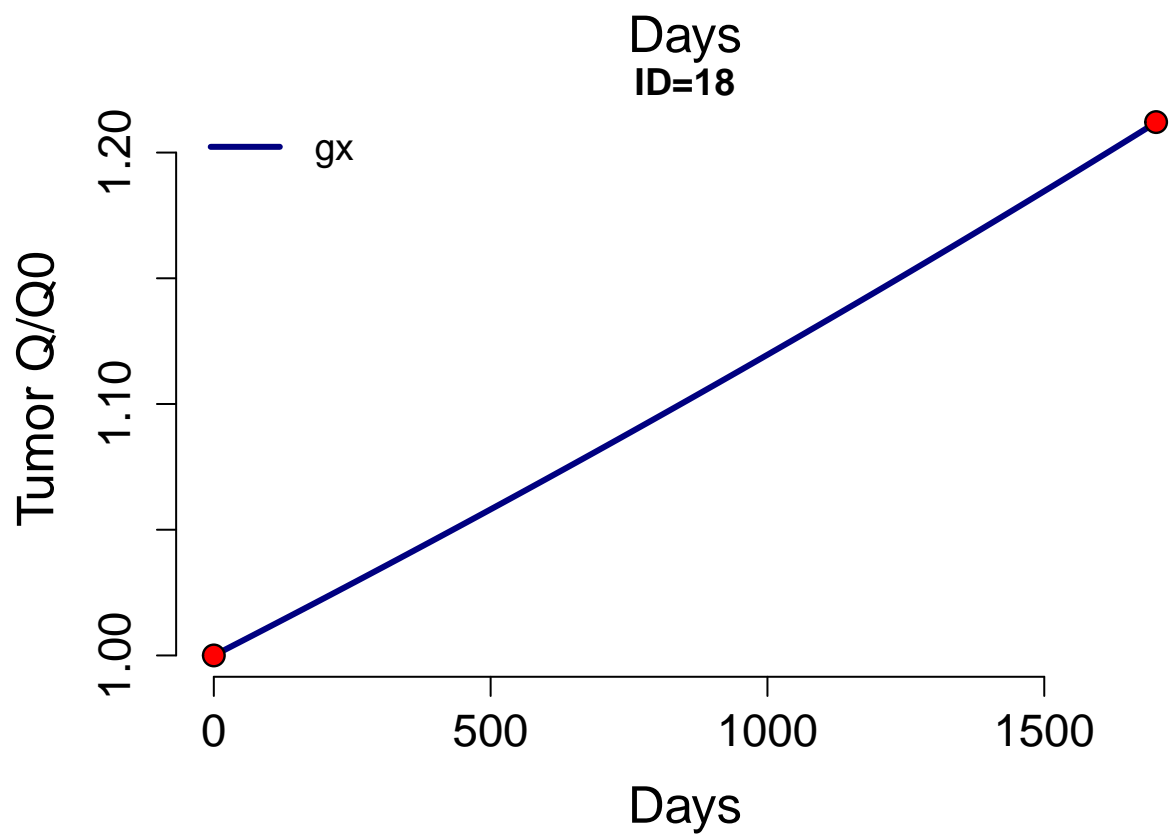
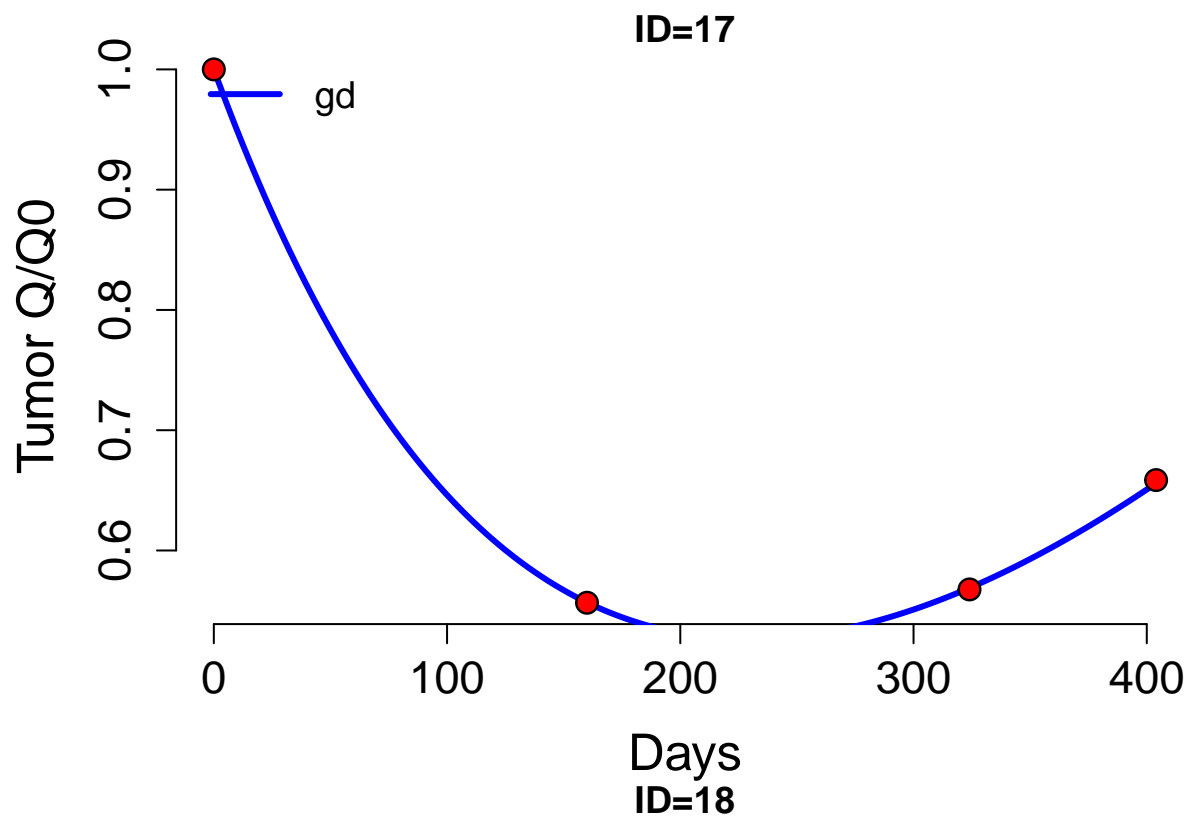
```
# List of dichotomous variables
dichotomous_vars = c("HiPD_V1V2", "CsA_V1V2", "CTX_V1V2", "AZT_V1V2",
                     "Tac_V1V2", "MMF_V1V2", "MTX_V1V2", "IVIg_V1V2",
                     "RTX_V1V2", "ISswitch_V1V2")

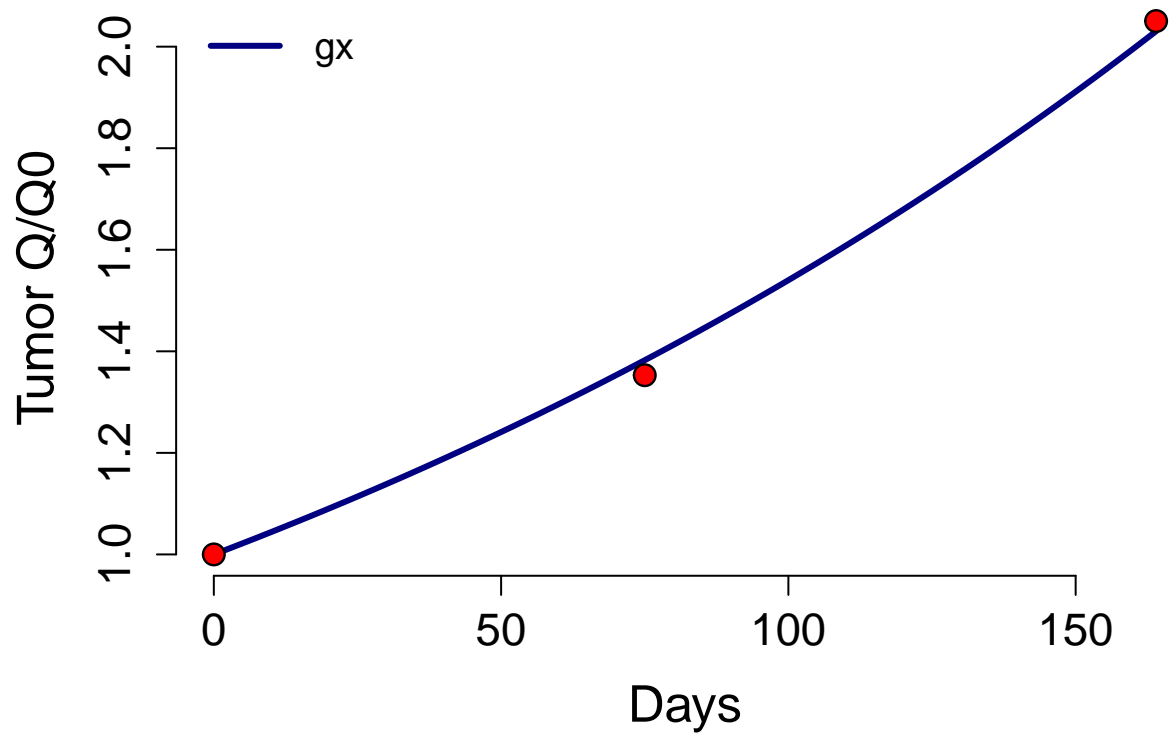
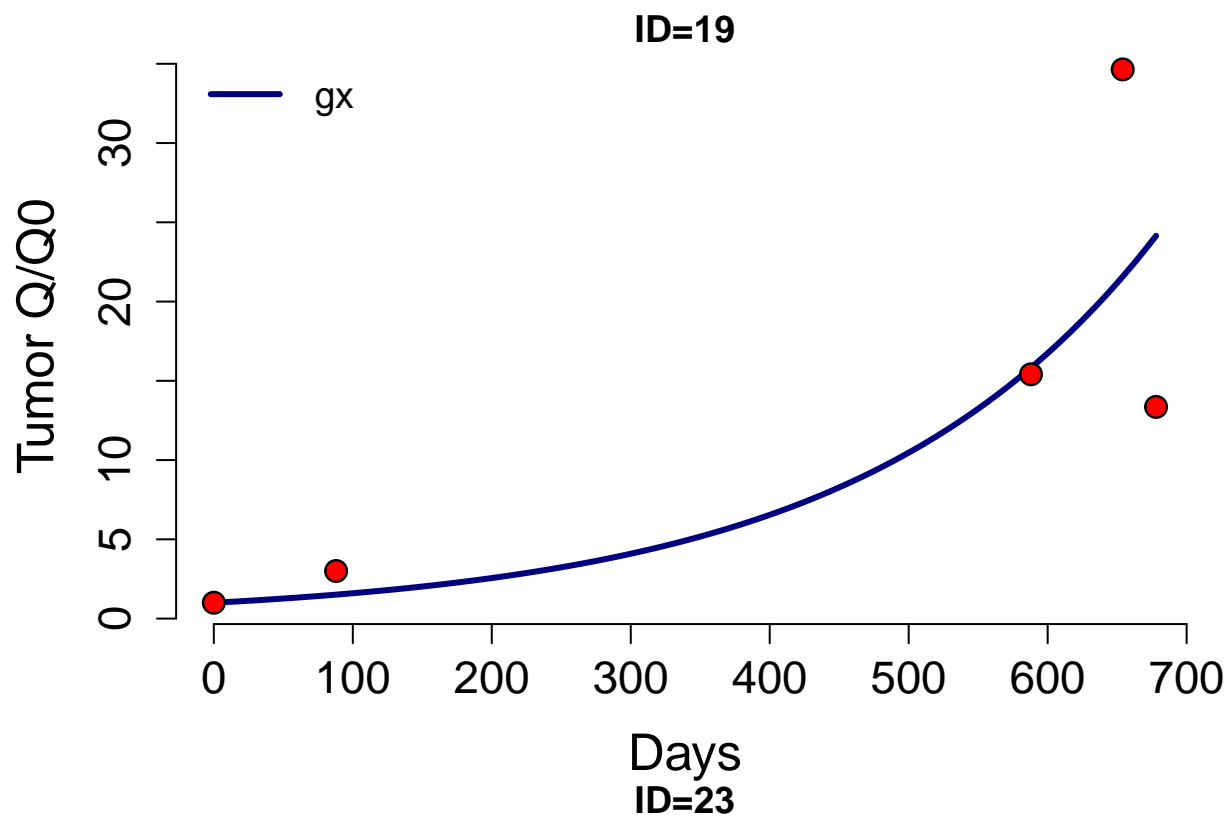
sub_dataframes = create_sub_dataframes(qlf, dichotomous_vars)
```

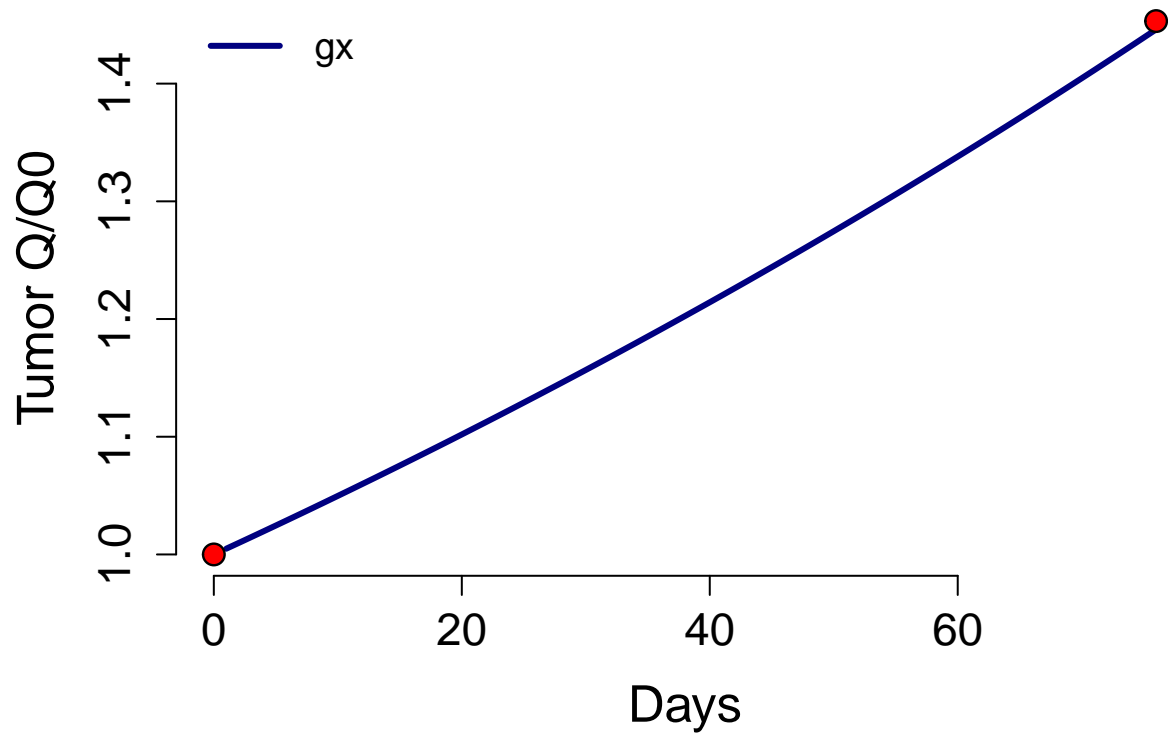
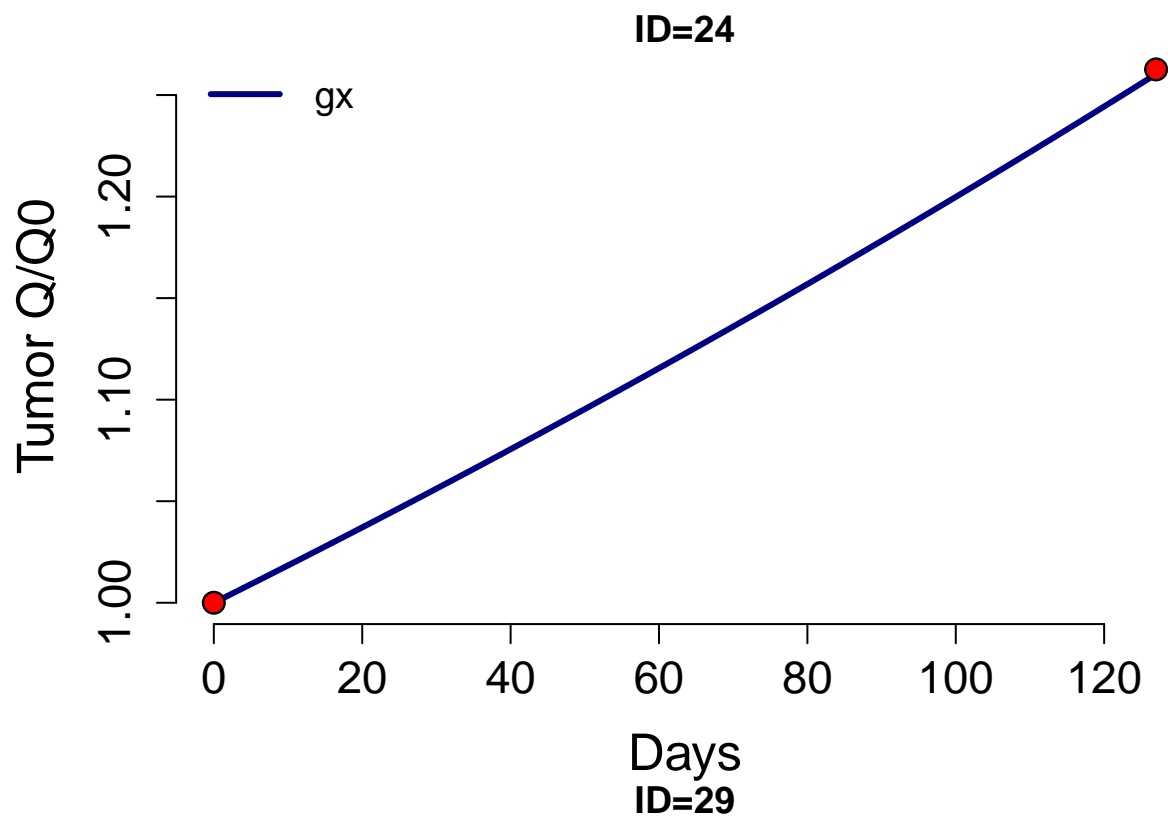
```
# g-d-rate model for treatment HiPD_V1V2

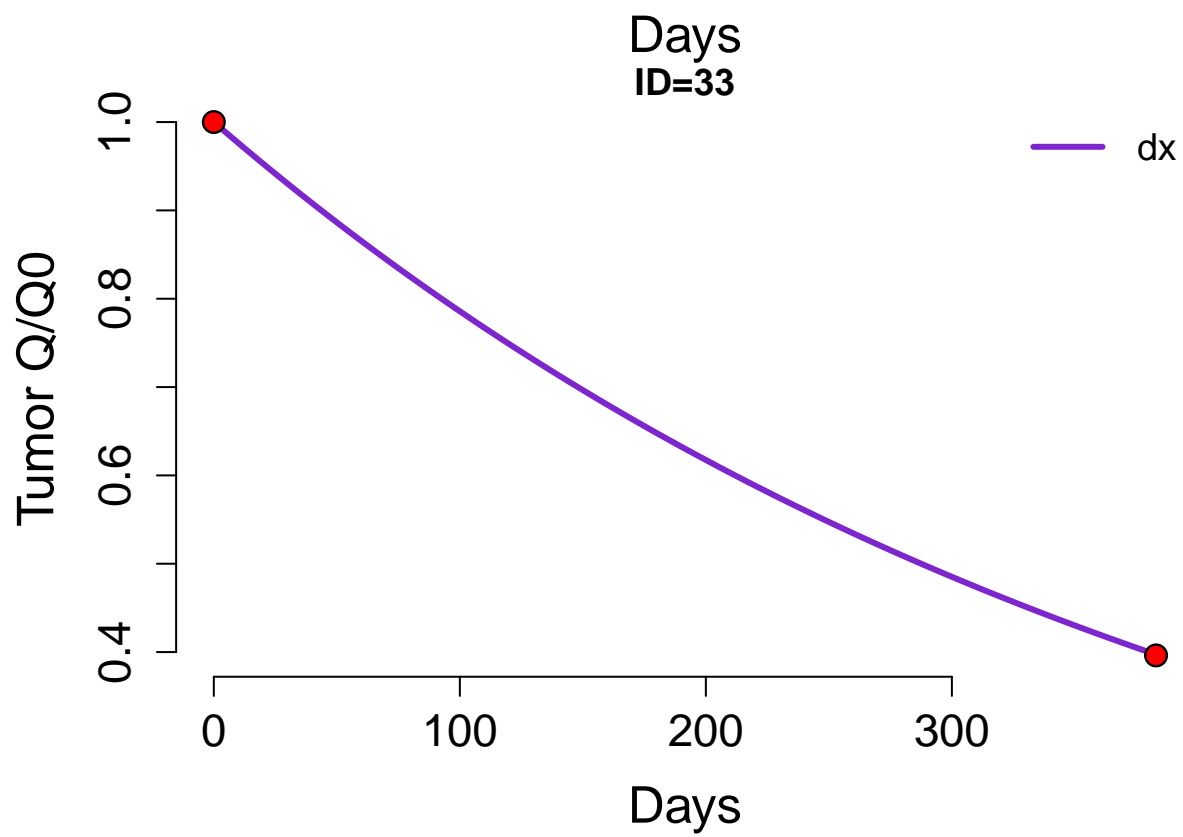
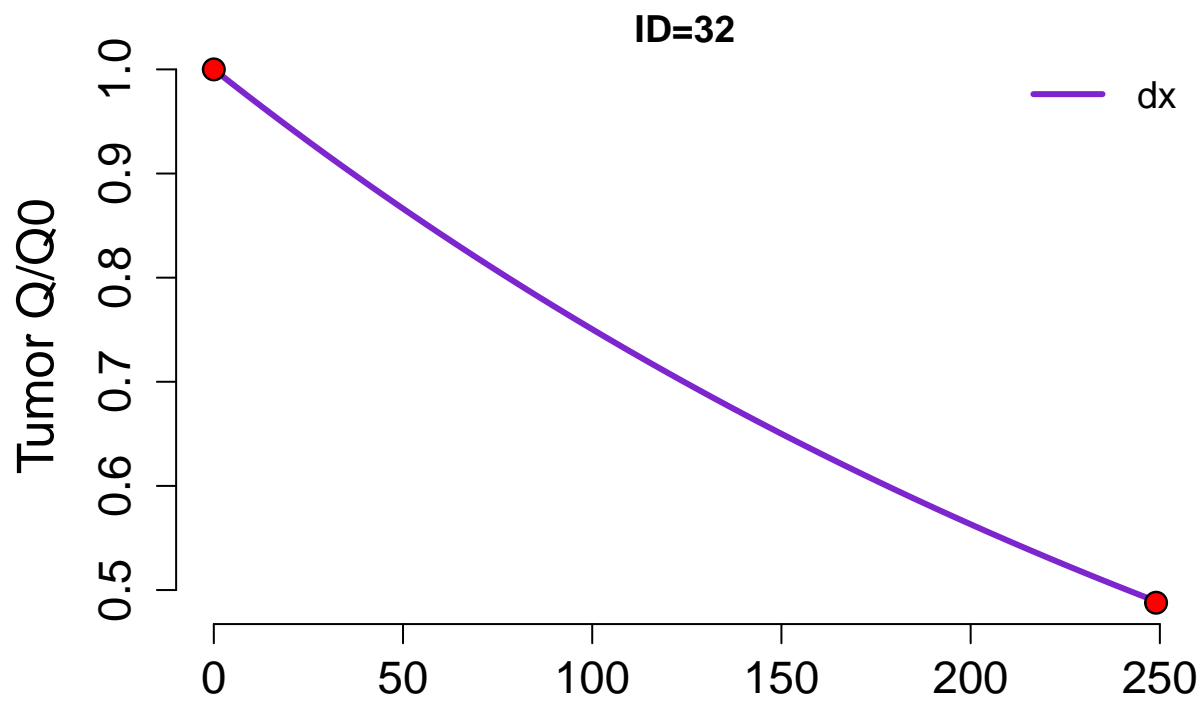
out_hipd_0 = gdrate(sub_dataframes$HiPD_V1V2_0, 0.05, FALSE)
out_hipd_1 = gdrate(sub_dataframes$HiPD_V1V2_1, 0.05, TRUE)
```

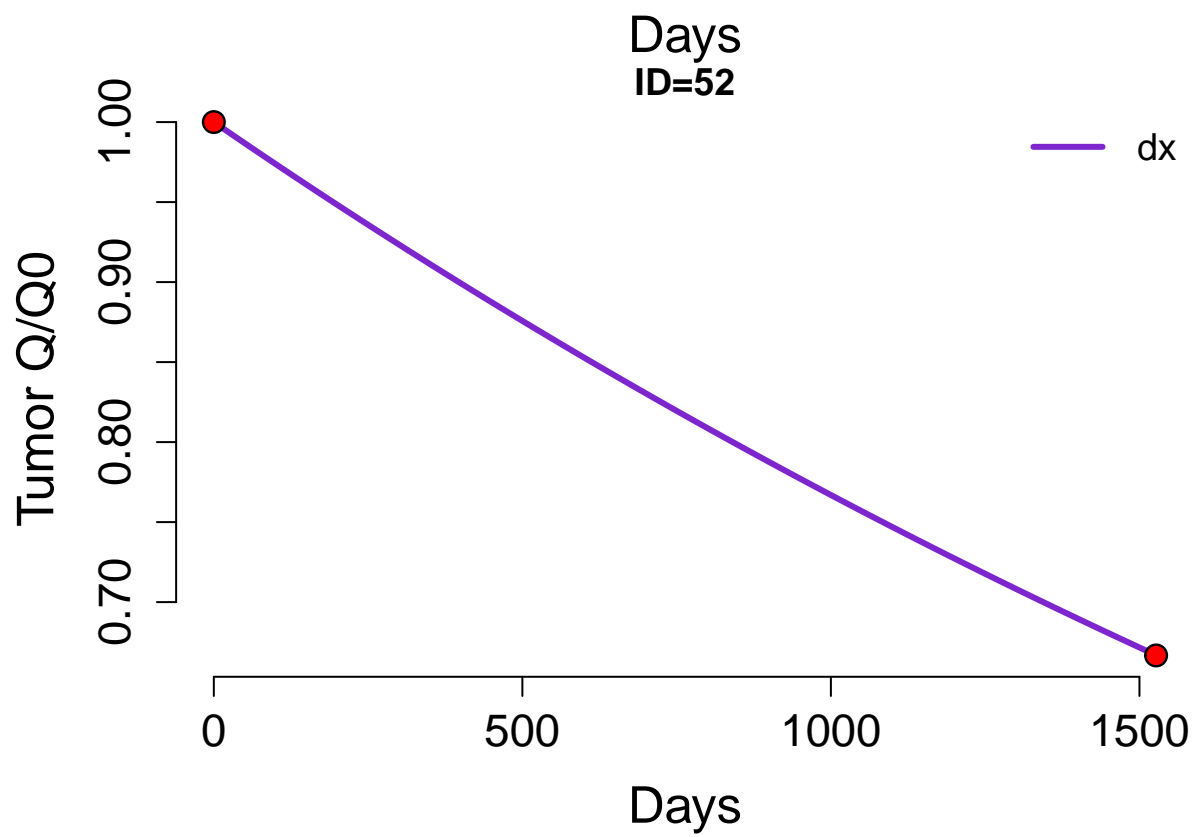
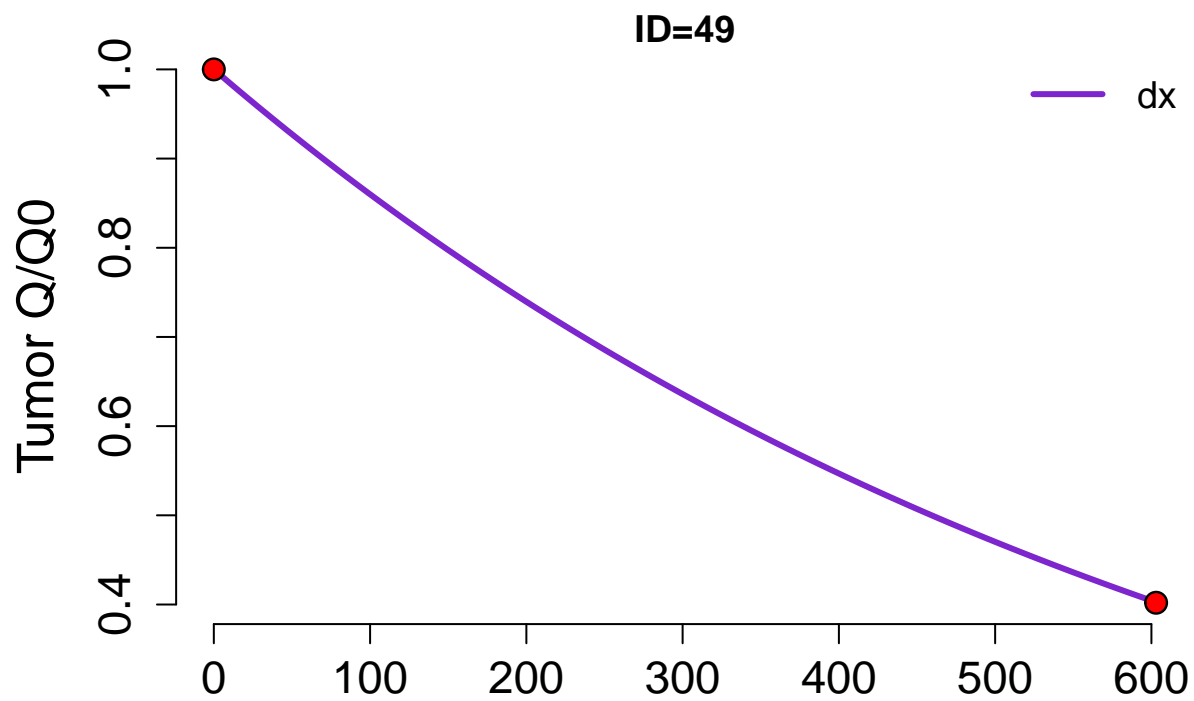



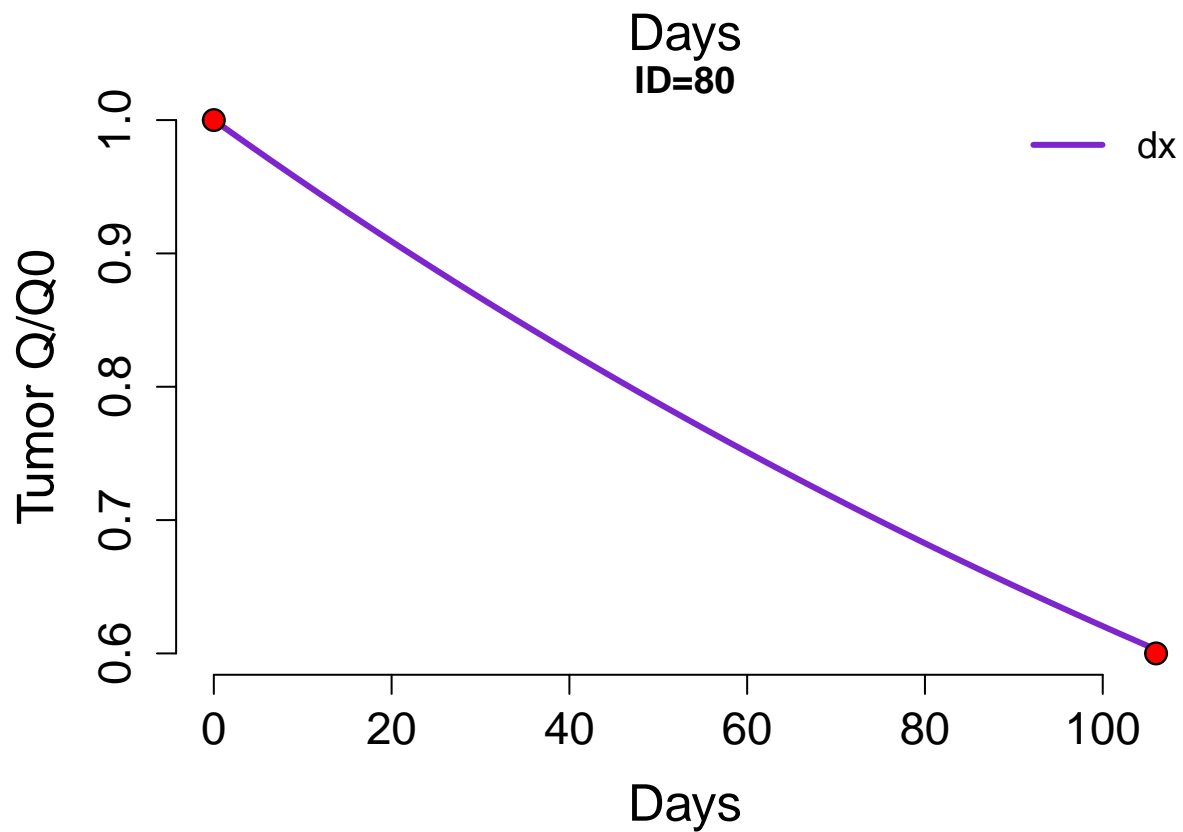
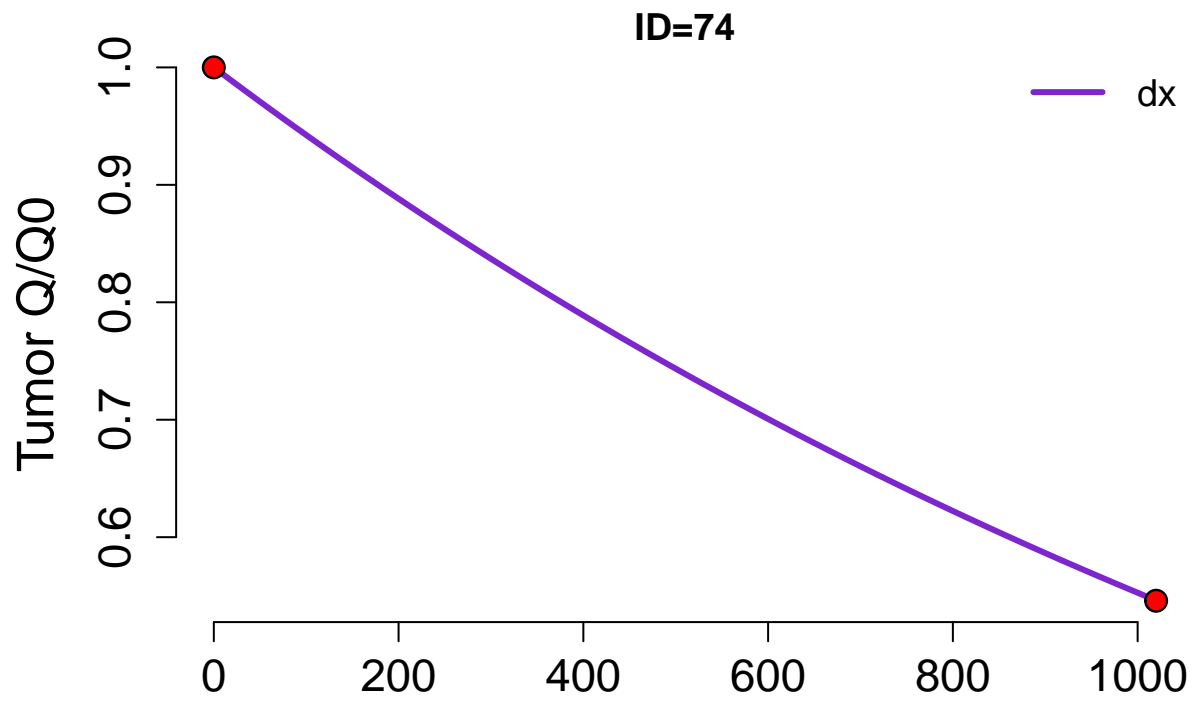












```
out_hipd_0$models
```

```
##      Group Analyzed      Type  N Percentage
## 1 excluded      no 2 evals not 20% diff  6      10
```

| | | | | |
|---------------|-----|---------|----|----|
| ## 2 excluded | yes | not fit | 17 | 29 |
| ## 3 included | yes | dx | 14 | 24 |
| ## 4 included | yes | gd | 7 | 12 |
| ## 5 included | yes | gdphi | 1 | 2 |
| ## 6 included | yes | gx | 13 | 22 |

```
out_hipd_1$models
```

| ## | Group Analyzed | Type | N | Percentage |
|---------------|----------------|----------|---|------------|
| ## 1 excluded | no 2 evals not | 20% diff | 3 | 14 |
| ## 2 excluded | yes | not fit | 5 | 23 |
| ## 3 included | yes | dx | 6 | 27 |
| ## 4 included | yes | gd | 2 | 9 |
| ## 5 included | yes | gx | 6 | 27 |

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_hipd_0$allest[cols_to_select])
```

```
gd2 = as.data.frame(out_hipd_1$allest[cols_to_select])
```

```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
```

```
gd2 = gd2[!duplicated(gd2), ]
```

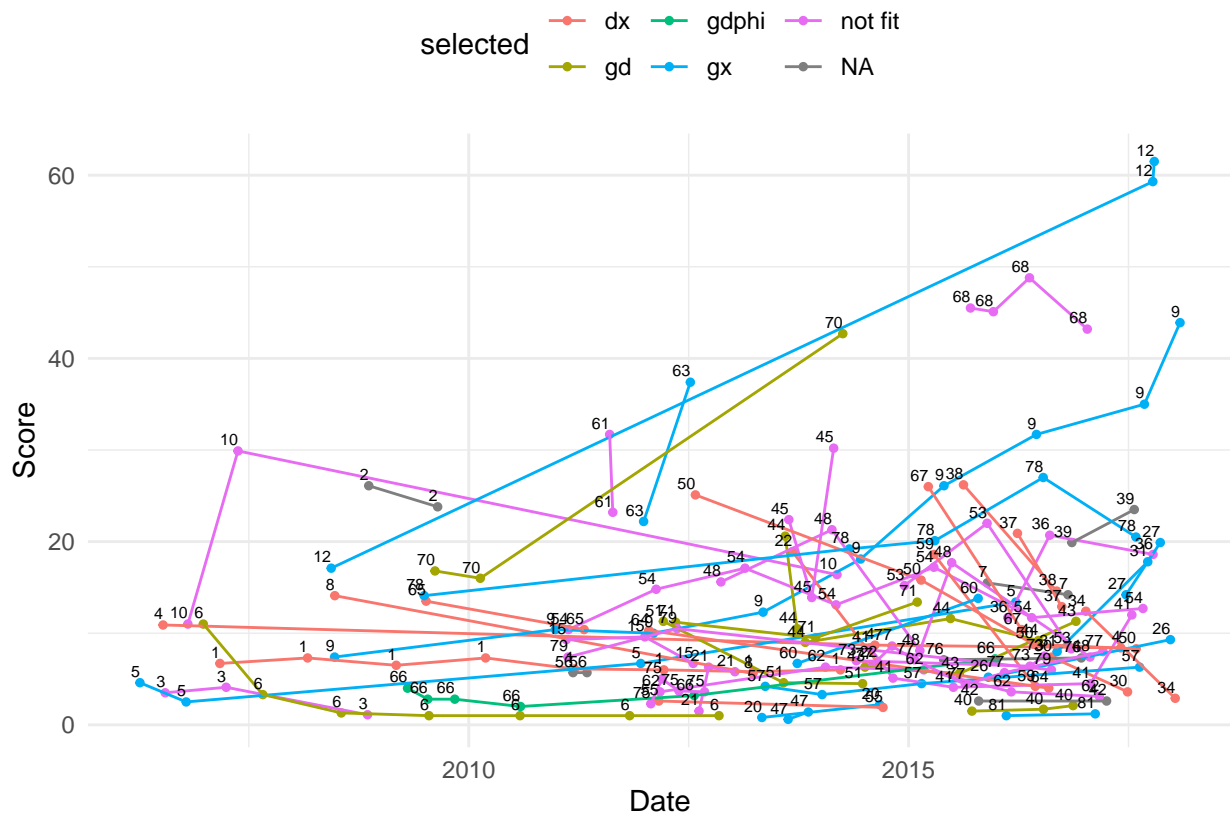
```
h0 = merge(sub_dataframes$HiPD_V1V2_0, gd1, by = "name", all = TRUE)
```

```
h1 = merge(sub_dataframes$HiPD_V1V2_1, gd2, by = "name", all = TRUE)
```

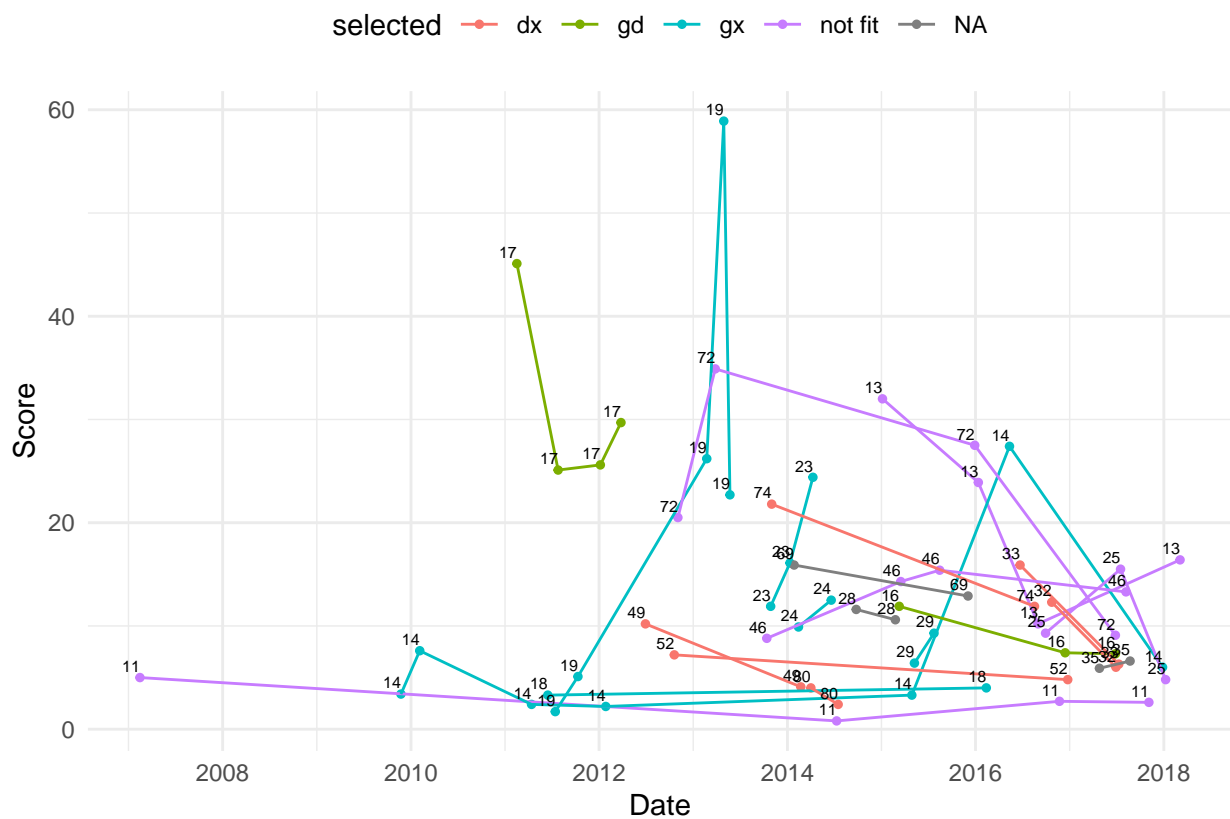
```
h0$date = as.Date(h0$date, origin = "1970-01-01")
```

```
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```

plot_data(h1)



```
# g-d-rate model for treatment CsA_V1V2
```

```
out_csa_0 = gdrate(sub_dataframes$CsA_V1V2_0, 0.05, FALSE)
out_csa_1 = gdrate(sub_dataframes$CsA_V1V2_1, 0.05, FALSE)
```

```
out_csa_0$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff 7      13
## 2 excluded      yes      not fit 14      27
## 3 included      yes      dx 14      27
## 4 included      yes      gd 6      12
## 5 included      yes      gdphi 1      2
## 6 included      yes      gx 10      19
```

```
out_csa_1$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff 2      7
## 2 excluded      yes      not fit 8      29
## 3 included      yes      dx 6      21
## 4 included      yes      gd 3      11
## 5 included      yes      gx 9      32
```

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_csa_0$allest[cols_to_select])
gd2 = as.data.frame(out_csa_1$allest[cols_to_select])
```

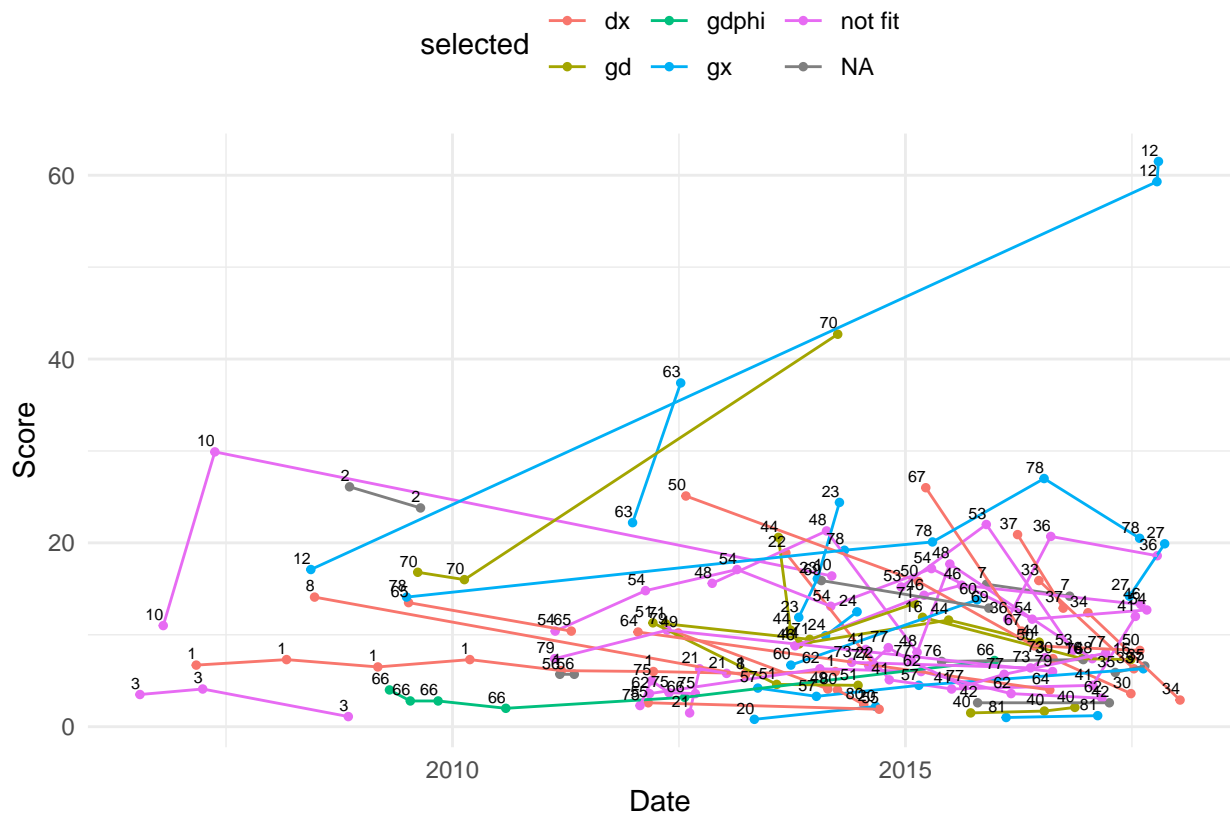
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

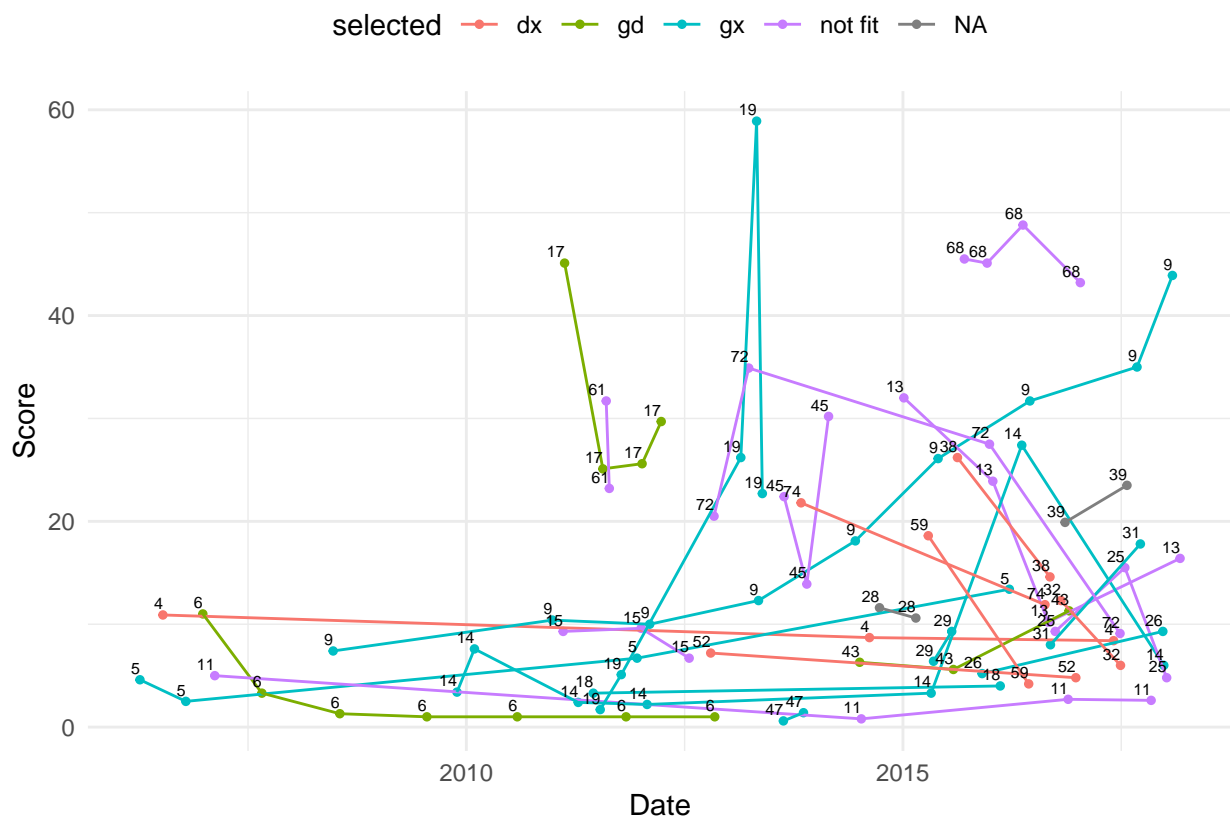
```
csa0 = merge(sub_dataframes$CsA_V1V2_0, gd1, by = "name", all = TRUE)
csa1 = merge(sub_dataframes$CsA_V1V2_1, gd2, by = "name", all = TRUE)
```

```
csa0$date = as.Date(csa0$date, origin = "1970-01-01")
csa1$date = as.Date(csa1$date, origin = "1970-01-01")
```

```
plot_data(csa0)
```



```
plot_data(csa1)
```



```
# g-d-rate model for treatment CTX_V1V2
```

```
out_ctx_0 = gdrate(sub_dataframes$CTX_V1V2_0, 0.05, FALSE)
out_ctx_1 = gdrate(sub_dataframes$CTX_V1V2_1, 0.05, FALSE)
```

```
out_ctx_0$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff 6      8
## 2 excluded      yes      not fit 20      27
## 3 included      yes      dx 20      27
## 4 included      yes      gd 8      11
## 5 included      yes      gdphi 1      1
## 6 included      yes      gx 18      25
```

```
out_ctx_1$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff 3      43
## 2 excluded      yes      not fit 2      29
## 3 included      yes      gd 1      14
## 4 included      yes      gx 1      14
```

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_ctx_0$allest[cols_to_select])
gd2 = as.data.frame(out_ctx_1$allest[cols_to_select])
```

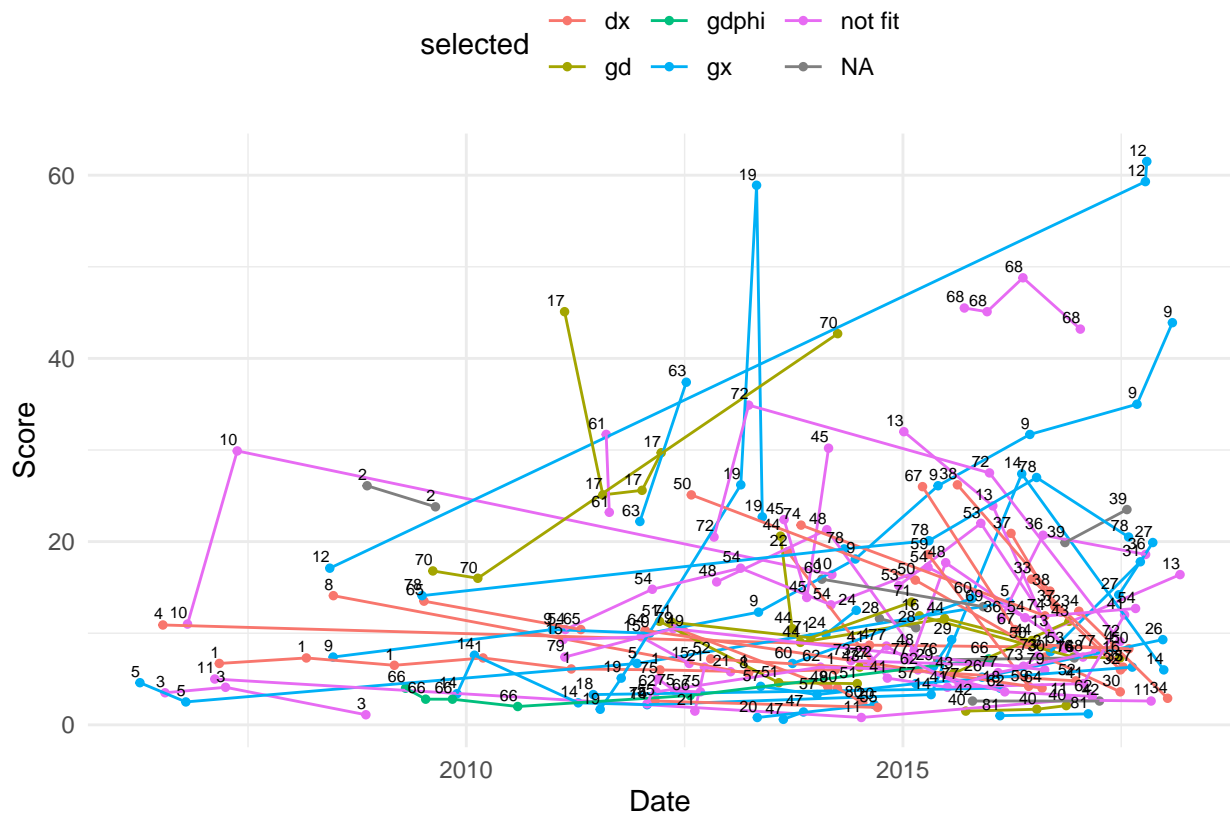
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

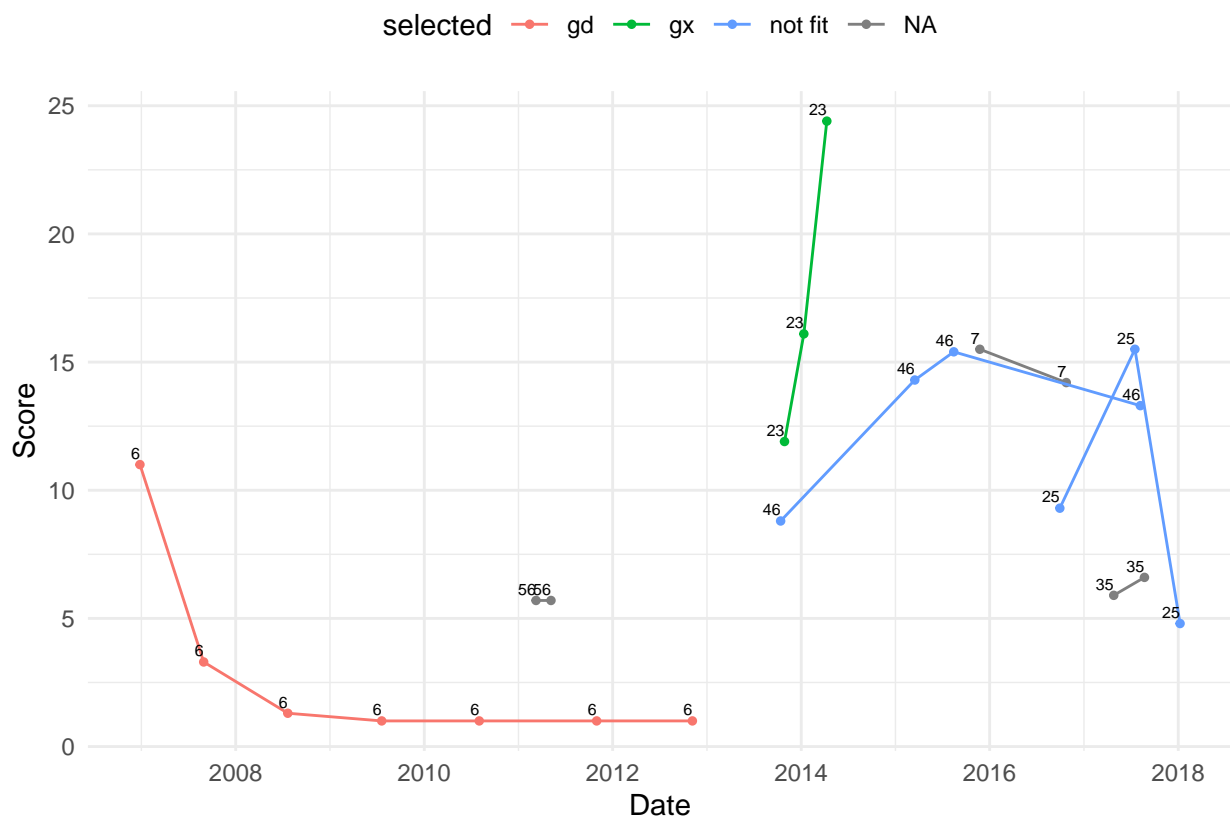
```
h0 = merge(sub_dataframes$CTX_V1V2_0, gd1, by = "name", all = TRUE)
h1 = merge(sub_dataframes$CTX_V1V2_1, gd2, by = "name", all = TRUE)
```

```
h0$date = as.Date(h0$date, origin = "1970-01-01")
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```



plot_data(h1)



```
# g-d-rate model for treatment azt_V1V2
```

```
out_azt_0 = gdrate(sub_dataframes$AZT_V1V2_0, 0.05, FALSE)
out_azt_1 = gdrate(sub_dataframes$AZT_V1V2_1, 0.05, FALSE)
```

```
out_azt_0$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|---------|----|------------|
| ## 1 | excluded no 2 evals not 20% diff | | 8 | 14 |
| ## 2 | excluded yes | not fit | 15 | 25 |
| ## 3 | included yes | dx | 13 | 22 |
| ## 4 | included yes | gd | 7 | 12 |
| ## 5 | included yes | gx | 16 | 27 |

```
out_azt_1$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|---------|---|------------|
| ## 1 | excluded no 2 evals not 20% diff | | 1 | 5 |
| ## 2 | excluded yes | not fit | 7 | 33 |
| ## 3 | included yes | dx | 7 | 33 |
| ## 4 | included yes | gd | 2 | 10 |
| ## 5 | included yes | gdphi | 1 | 5 |
| ## 6 | included yes | gx | 3 | 14 |

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_azt_0$allest[cols_to_select])
gd2 = as.data.frame(out_azt_1$allest[cols_to_select])
```

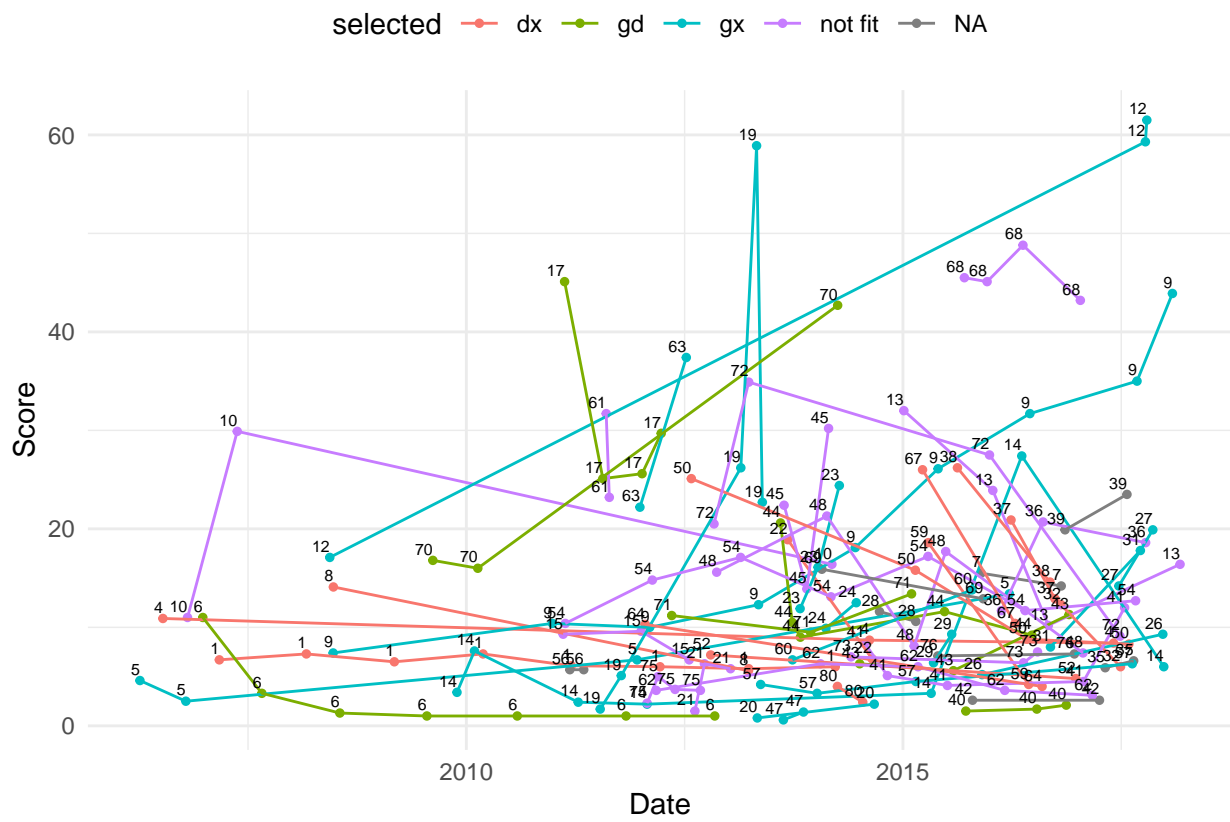
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

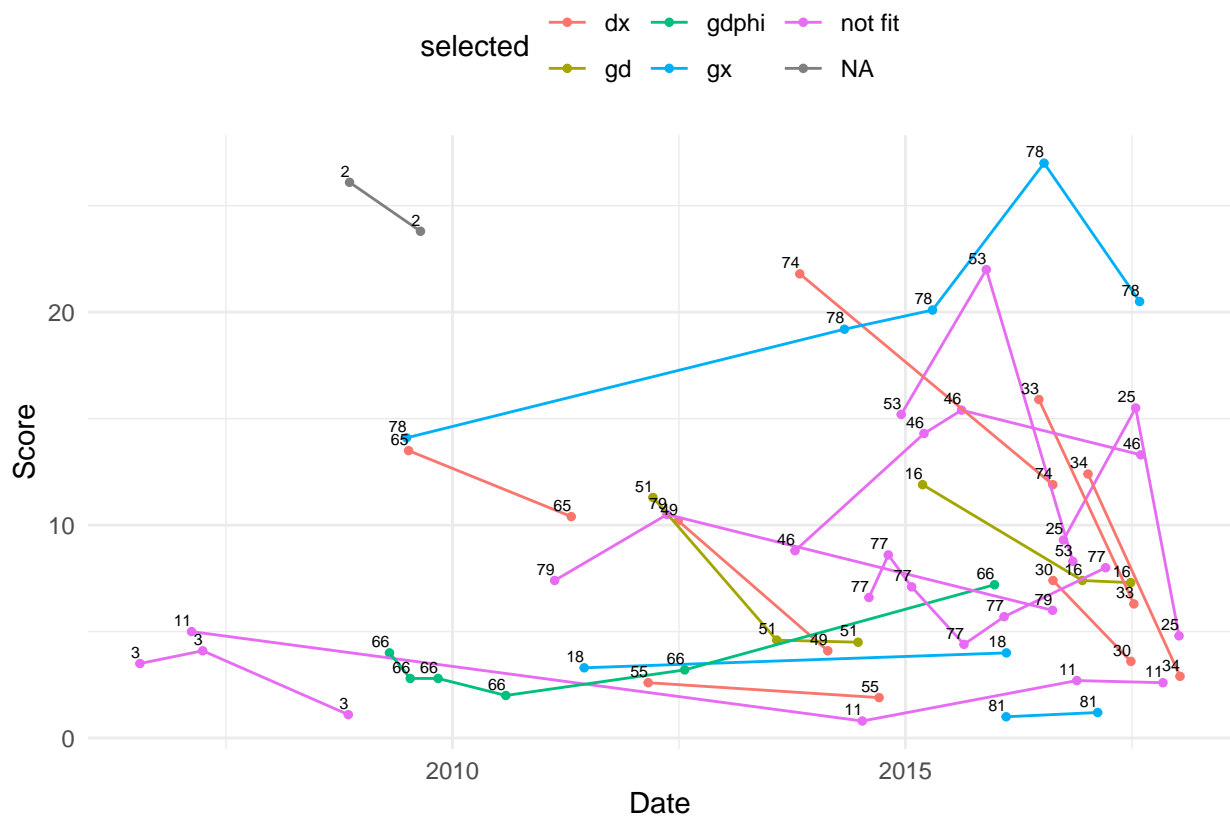
```
h0 = merge(sub_dataframes$AZT_V1V2_0, gd1, by = "name", all = TRUE)
h1 = merge(sub_dataframes$AZT_V1V2_1, gd2, by = "name", all = TRUE)
```

```
h0$date = as.Date(h0$date, origin = "1970-01-01")
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```



plot_data(h1)



```
# g-d-rate model for treatment tac_V1V2
```

```
out_tac_0 = gdrate(sub_dataframes$Tac_V1V2_0, 0.05, FALSE)
out_tac_1 = gdrate(sub_dataframes$Tac_V1V2_1, 0.05, FALSE)
```

```
out_tac_0$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|---------|----|------------|
| ## 1 | excluded no 2 evals not 20% diff | | 9 | 12 |
| ## 2 | excluded yes | not fit | 20 | 27 |
| ## 3 | included yes | dx | 19 | 26 |
| ## 4 | included yes | gd | 9 | 12 |
| ## 5 | included yes | gdphi | 1 | 1 |
| ## 6 | included yes | gx | 15 | 21 |

```
out_tac_1$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------|------|---|------------|
| ## 1 | excluded yes not fit | | 2 | 29 |
| ## 2 | included yes | dx | 1 | 14 |
| ## 3 | included yes | gx | 4 | 57 |

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_tac_0$allest[cols_to_select])
gd2 = as.data.frame(out_tac_1$allest[cols_to_select])
```

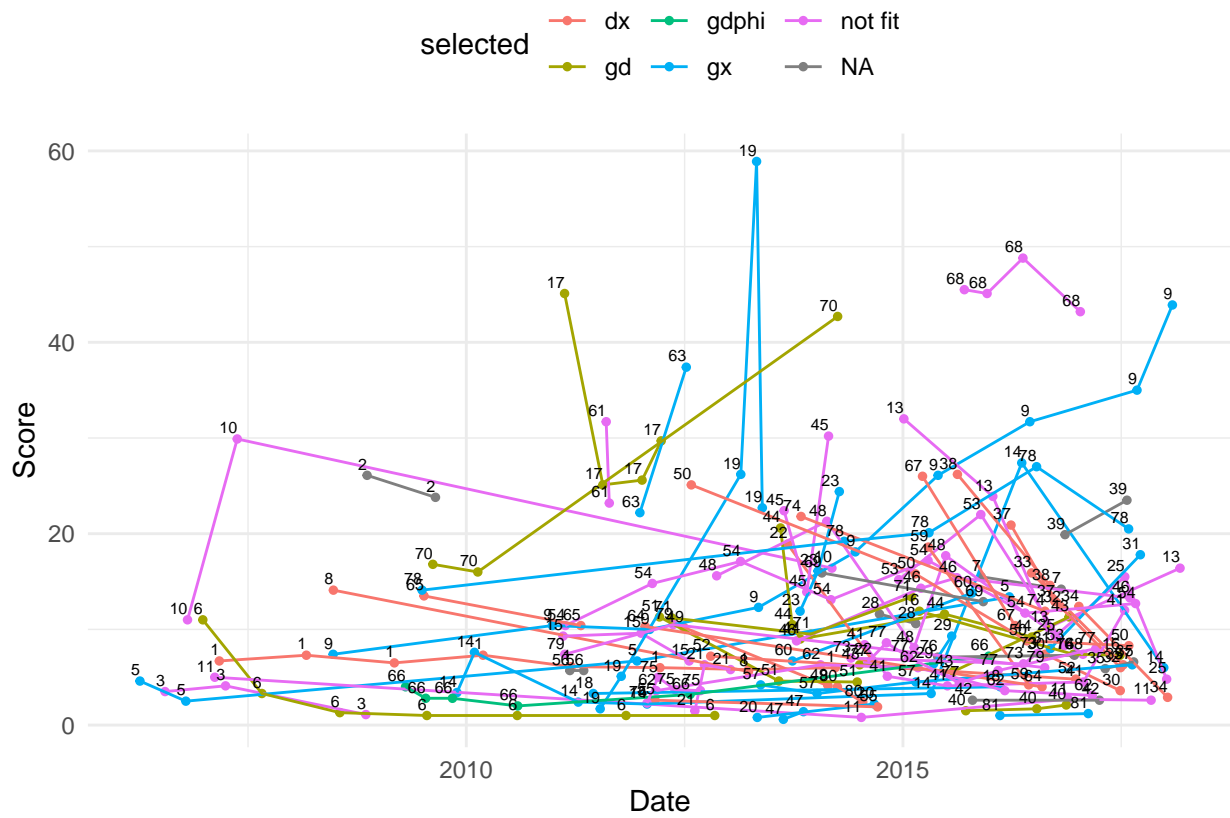
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

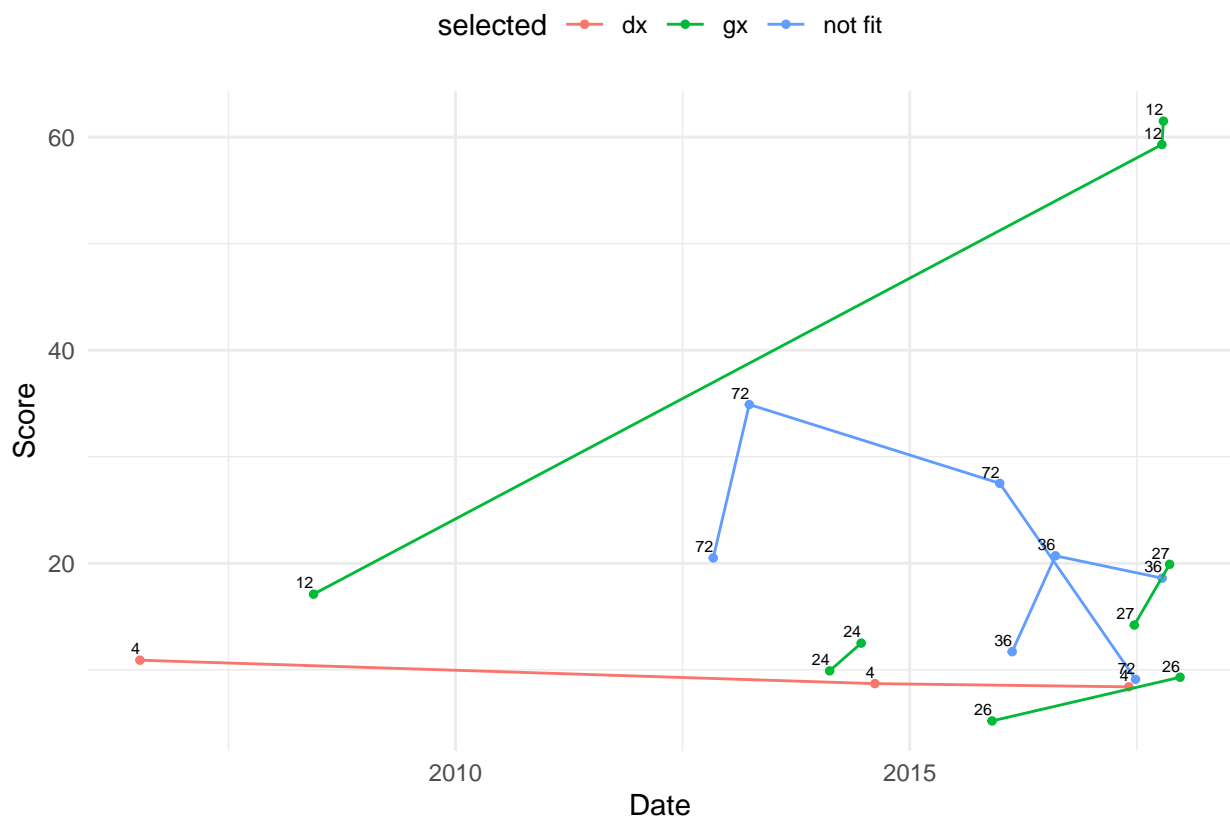
```
h0 = merge(sub_dataframes$Tac_V1V2_0, gd1, by = "name", all = TRUE)
h1 = merge(sub_dataframes$Tac_V1V2_1, gd2, by = "name", all = TRUE)
```

```
h0$date = as.Date(h0$date, origin = "1970-01-01")
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```

plot_data(h1)



```
# g-d-rate model for treatment MMF_V1V2
```

```
out_mmf_0 = gdrate(sub_dataframes$MMF_V1V2_0, 0.05, FALSE)
out_mmf_1 = gdrate(sub_dataframes$MMF_V1V2_1, 0.05, FALSE)
```

```
out_mmf_0$models
```

```
##      Group Analyzed      Type  N Percentage
## 1 excluded      no 2 evals not 20% diff  9      12
## 2 excluded      yes      not fit 22      28
## 3 included      yes      dx 19      24
## 4 included      yes      gd  9      12
## 5 included      yes      gdphi 1      1
## 6 included      yes      gx 18      23
```

```
out_mmf_1$models
```

```
##      Group Analyzed Type  N Percentage
## 1 included      yes  dx 1      50
## 2 included      yes  gx 1      50
```

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_mmf_0$allest[cols_to_select])
```

```
gd2 = as.data.frame(out_mmf_1$allest[cols_to_select])
```

```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
```

```
gd2 = gd2[!duplicated(gd2), ]
```

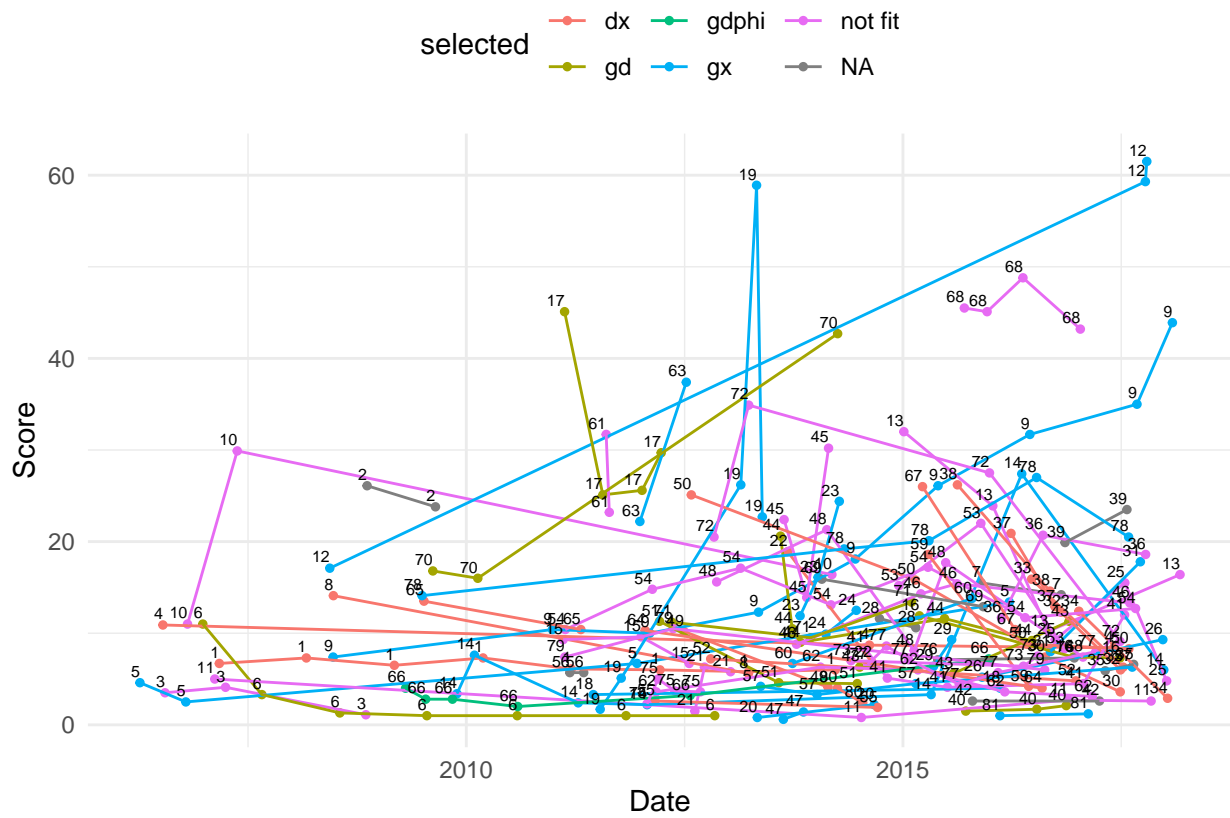
```
h0 = merge(sub_dataframes$MMF_V1V2_0, gd1, by = "name", all = TRUE)
```

```
h1 = merge(sub_dataframes$MMF_V1V2_1, gd2, by = "name", all = TRUE)
```

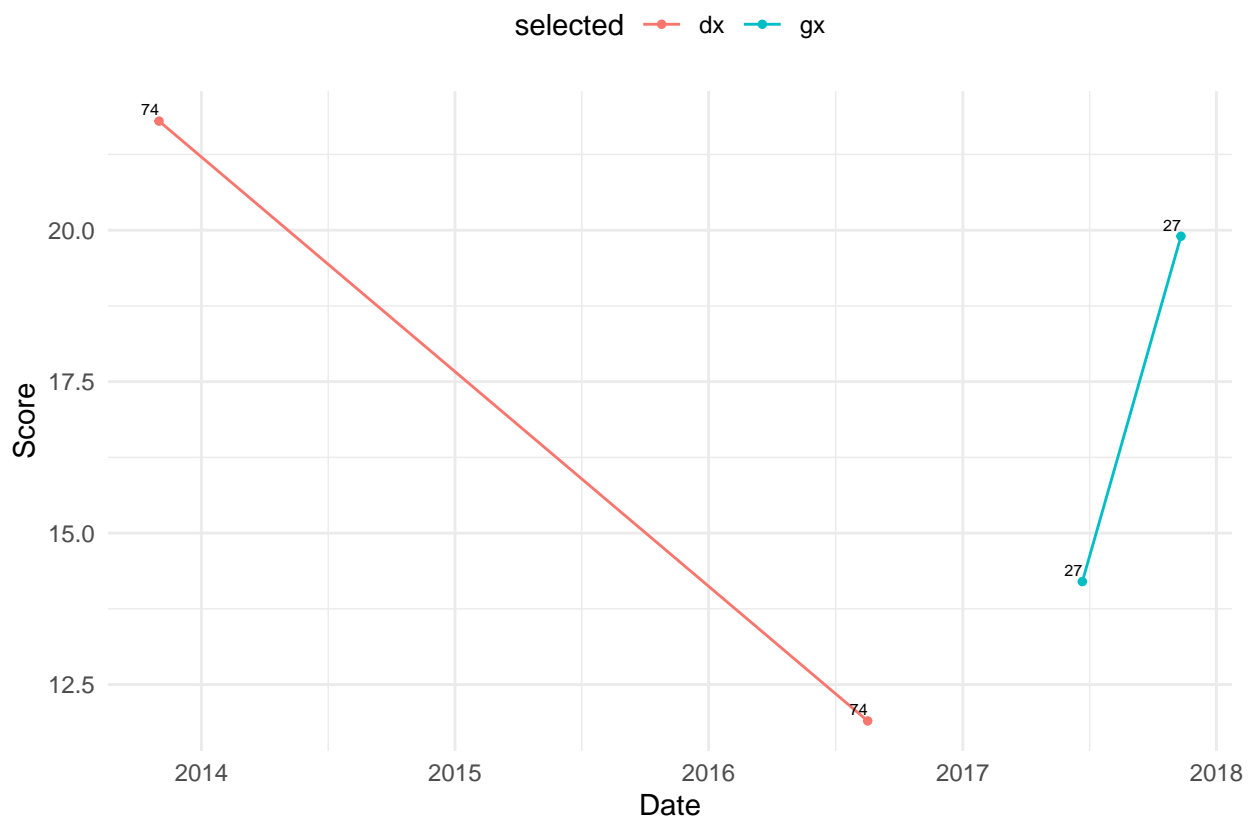
```
h0$date = as.Date(h0$date, origin = "1970-01-01")
```

```
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```



plot_data(h1)



```
# g-d-rate model for treatment MTX_V1V2
```

```
out_mtx_0 = gdrate(sub_dataframes$MTX_V1V2_0, 0.05, FALSE)
out_mtx_1 = gdrate(sub_dataframes$MTX_V1V2_1, 0.05, FALSE)
```

```
out_mtx_0$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|---------|----|------------|
| ## 1 | excluded no 2 evals not 20% diff | | 7 | 10 |
| ## 2 | excluded yes | not fit | 18 | 26 |
| ## 3 | included yes | dx | 20 | 29 |
| ## 4 | included yes | gd | 9 | 13 |
| ## 5 | included yes | gdphi | 1 | 1 |
| ## 6 | included yes | gx | 14 | 20 |

```
out_mtx_1$models
```

| ## | Group Analyzed | Type | N | Percentage |
|------|----------------------------------|---------|---|------------|
| ## 1 | excluded no 2 evals not 20% diff | | 2 | 18 |
| ## 2 | excluded yes | not fit | 4 | 36 |
| ## 3 | included yes | gx | 5 | 45 |

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_mtx_0$allest[cols_to_select])
gd2 = as.data.frame(out_mtx_1$allest[cols_to_select])
```

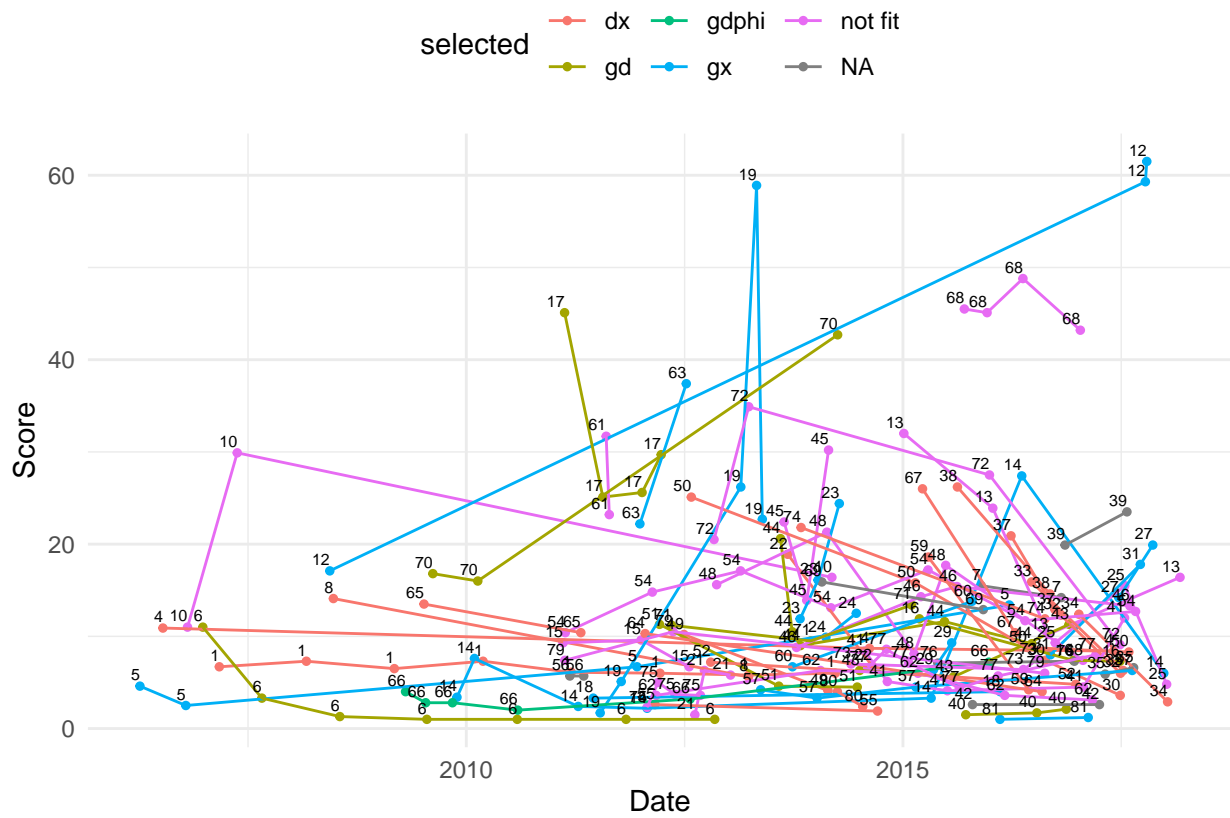
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

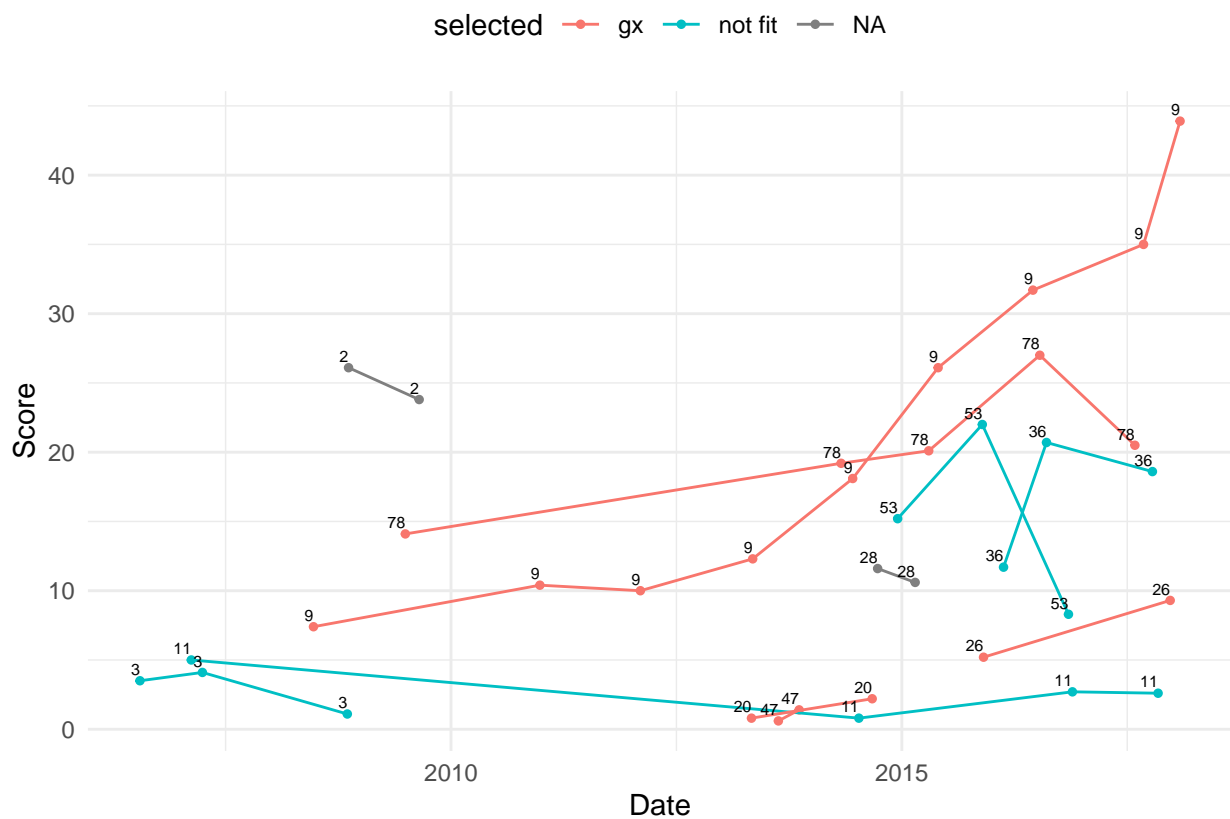
```
h0 = merge(sub_dataframes$MTX_V1V2_0, gd1, by = "name", all = TRUE)
h1 = merge(sub_dataframes$MTX_V1V2_1, gd2, by = "name", all = TRUE)
```

```
h0$date = as.Date(h0$date, origin = "1970-01-01")
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```



plot_data(h1)



```
# g-d-rate model for treatment IVI_V1V2
```

```
out_ivi_0 = gdrate(sub_dataframes$IVIg_V1V2_0, 0.05, FALSE)
out_ivi_1 = gdrate(sub_dataframes$IVIg_V1V2_1, 0.05, FALSE)
```

```
out_ivi_0$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff  8      11
## 2 excluded      yes      not fit 21      28
## 3 included      yes      dx 19      25
## 4 included      yes      gd  9      12
## 5 included      yes      gdphi 1      1
## 6 included      yes      gx 18      24
```

```
out_ivi_1$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff  1      25
## 2 excluded      yes      not fit 1      25
## 3 included      yes      dx 1      25
## 4 included      yes      gx 1      25
```

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_ivi_0$allest[cols_to_select])
gd2 = as.data.frame(out_ivi_1$allest[cols_to_select])
```

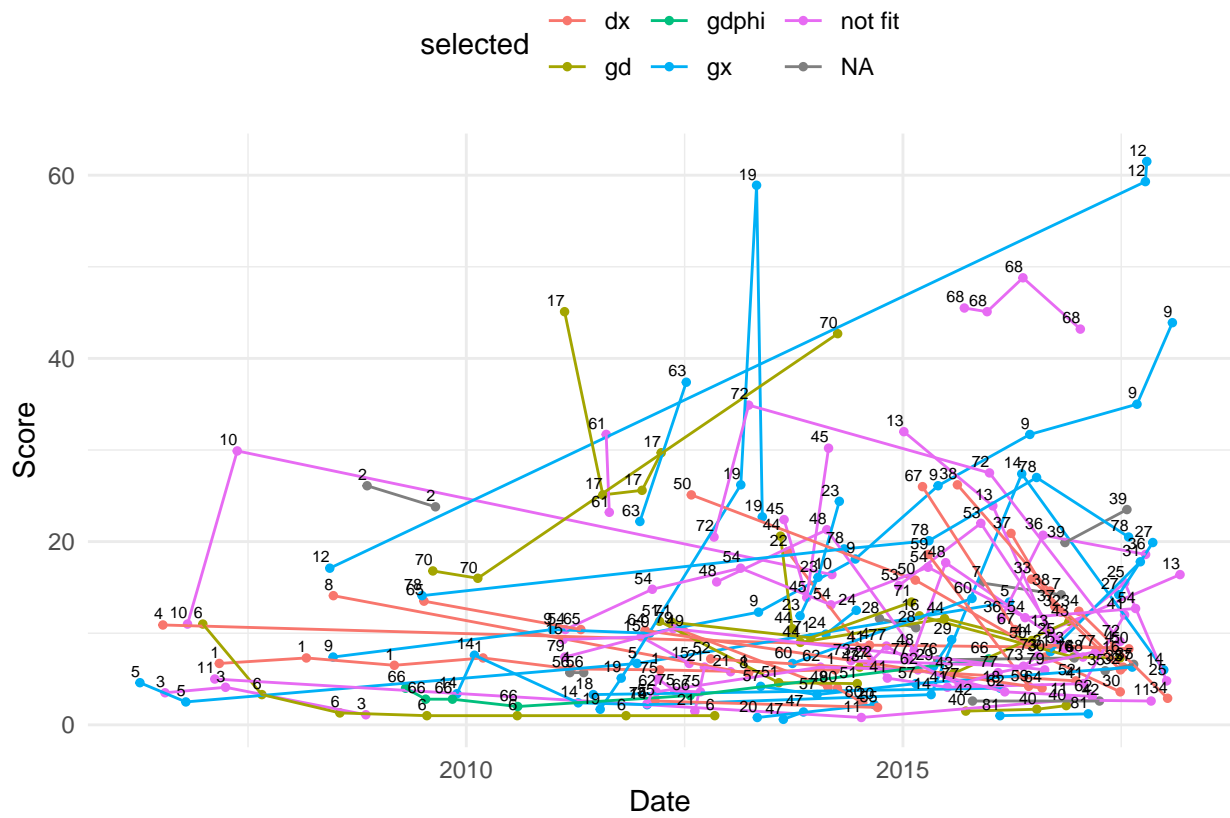
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

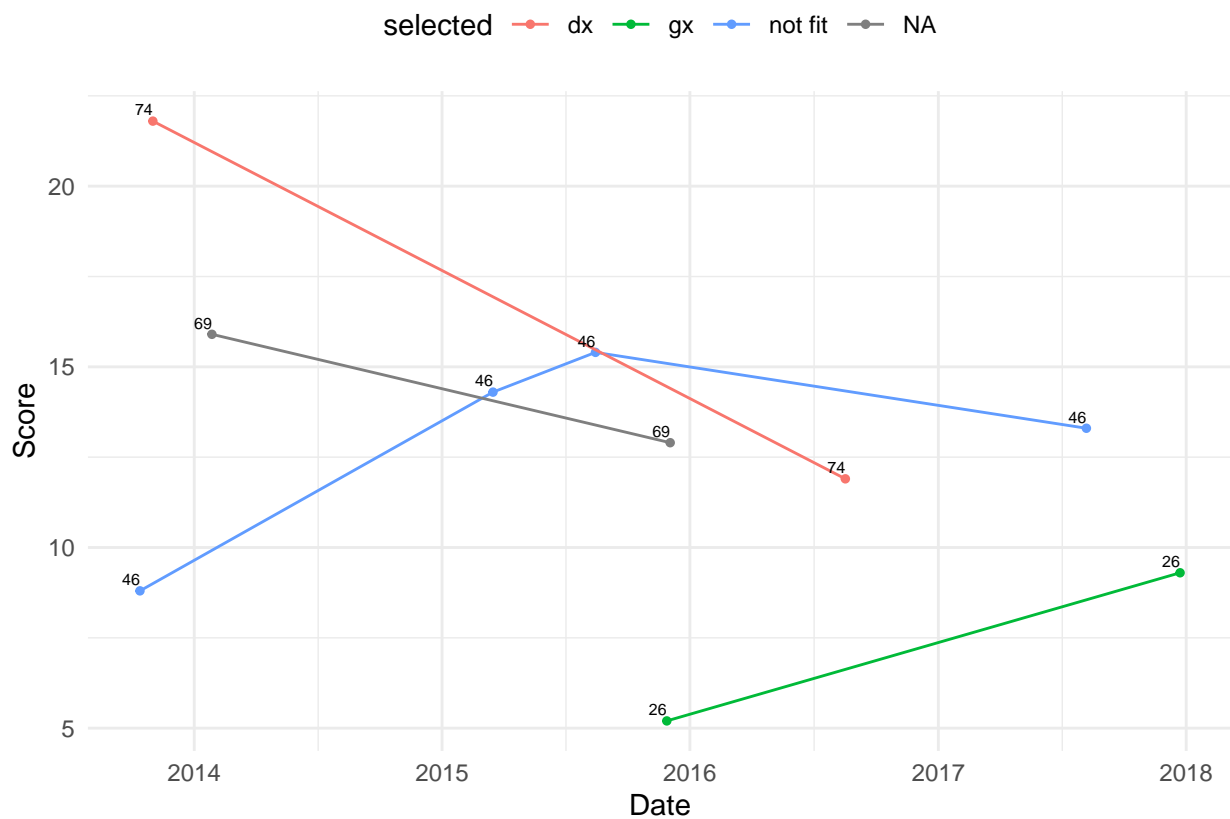
```
h0 = merge(sub_dataframes$IVIg_V1V2_0, gd1, by = "name", all = TRUE)
h1 = merge(sub_dataframes$IVIg_V1V2_1, gd2, by = "name", all = TRUE)
```

```
h0$date = as.Date(h0$date, origin = "1970-01-01")
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```



```
plot_data(h1)
```



```
# g-d-rate model for treatment RTX_V1V2
```

```
out_rtx_0 = gdrate(sub_dataframes$RTX_V1V2_0, 0.05, FALSE)
out_rtx_1 = gdrate(sub_dataframes$RTX_V1V2_1, 0.05, FALSE)
```

```
out_rtx_0$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff  8      10
## 2 excluded      yes      not fit 22      28
## 3 included      yes      dx 19      24
## 4 included      yes      gd  9      12
## 5 included      yes      gdphi 1      1
## 6 included      yes      gx 19      24
```

```
out_rtx_1$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff  1      50
## 2 included      yes      dx 1      50
```

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(out_rtx_0$allest[cols_to_select])
```

```
gd2 = as.data.frame(out_rtx_1$allest[cols_to_select])
```

```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
```

```
gd2 = gd2[!duplicated(gd2), ]
```

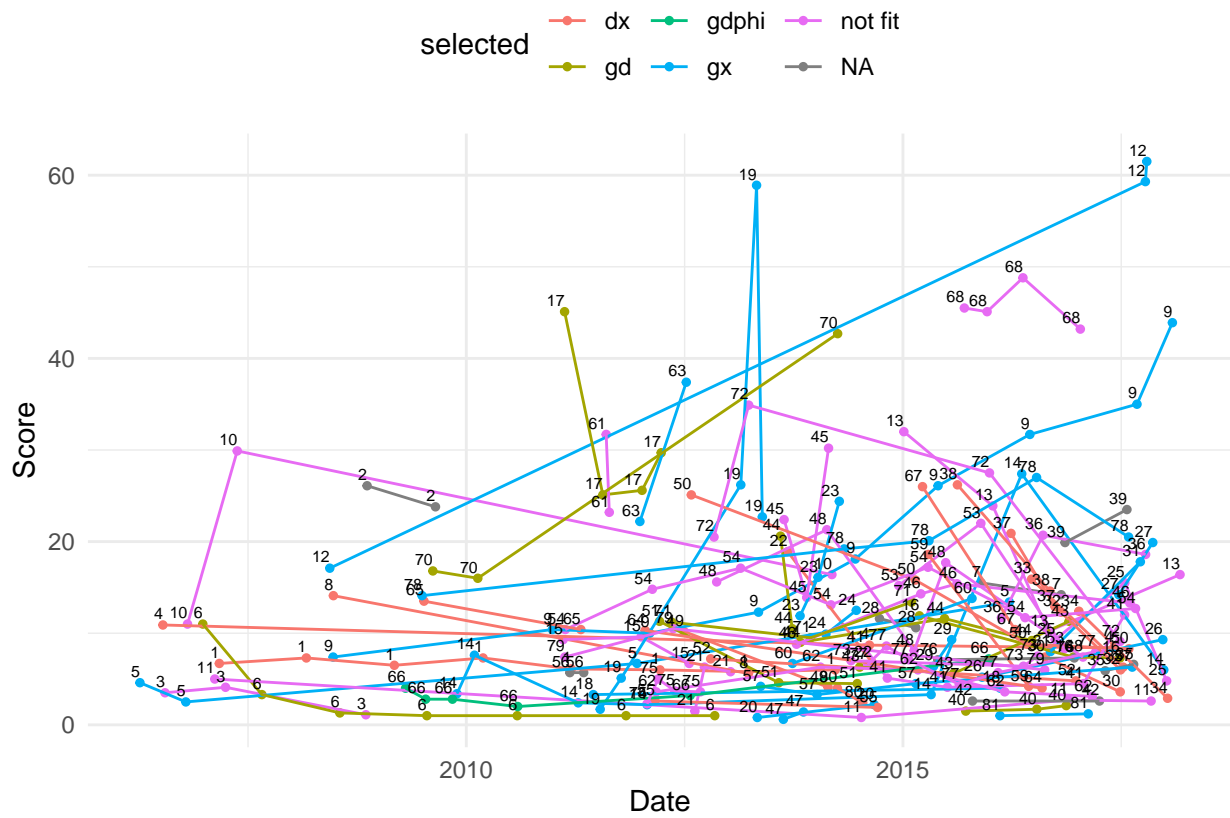
```
h0 = merge(sub_dataframes$RTX_V1V2_0, gd1, by = "name", all = TRUE)
```

```
h1 = merge(sub_dataframes$RTX_V1V2_1, gd2, by = "name", all = TRUE)
```

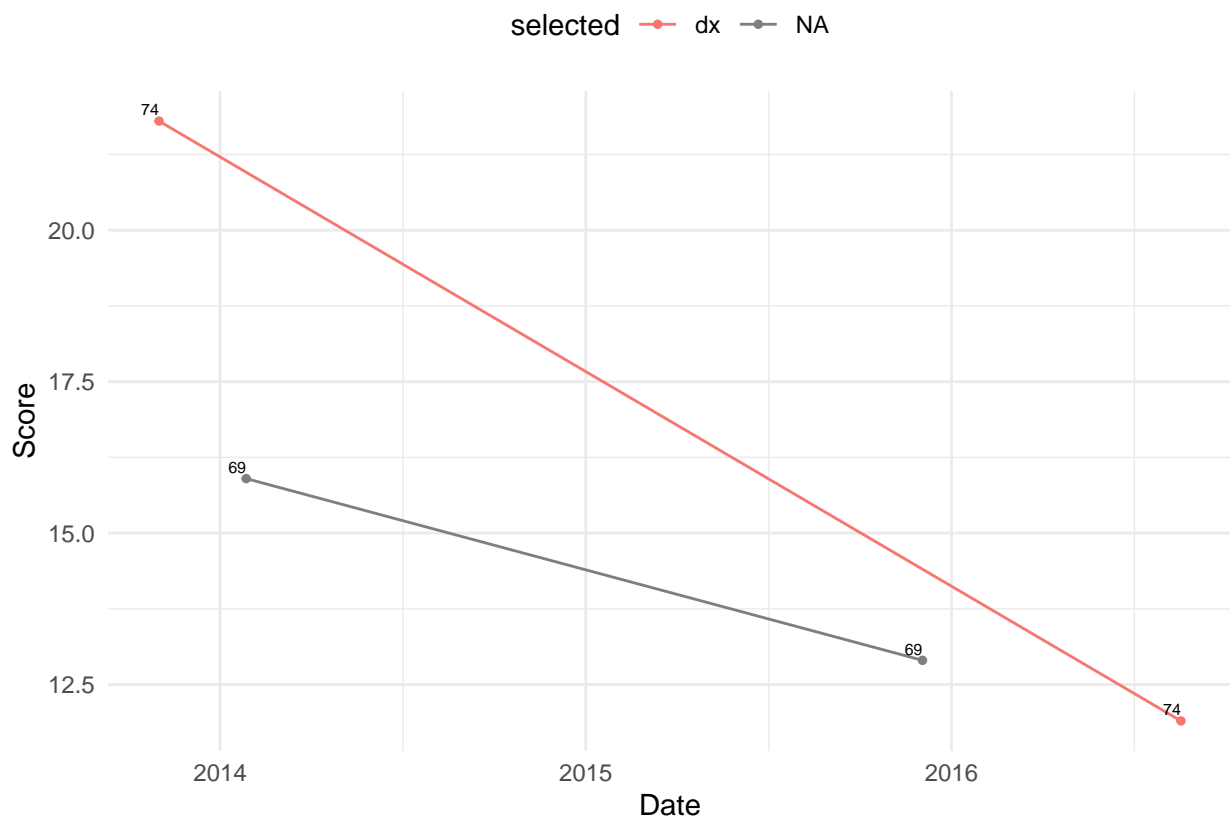
```
h0$date = as.Date(h0$date, origin = "1970-01-01")
```

```
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```

plot_data(h1)



```
# g-d-rate model for Immunosuppressant switch
```

```
swi_0 = gdrate(sub_dataframes$ISswitch_V1V2_0, 0.05, FALSE)
swi_1 = gdrate(sub_dataframes$ISswitch_V1V2_1, 0.05, FALSE)
```

```
swi_0$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff 7      11
## 2 excluded      yes      not fit 15      23
## 3 included      yes      dx 17      27
## 4 included      yes      gd 8      12
## 5 included      yes      gdphi 1      2
## 6 included      yes      gx 16      25
```

```
swi_1$models
```

```
##      Group Analyzed      Type N Percentage
## 1 excluded      no 2 evals not 20% diff 2      12
## 2 excluded      yes      not fit 7      44
## 3 included      yes      dx 3      19
## 4 included      yes      gd 1      6
## 5 included      yes      gx 3      19
```

```
cols_to_select = c("type", "selected", "name")
```

```
gd1 = as.data.frame(swi_0$allest[cols_to_select])
gd2 = as.data.frame(swi_1$allest[cols_to_select])
```

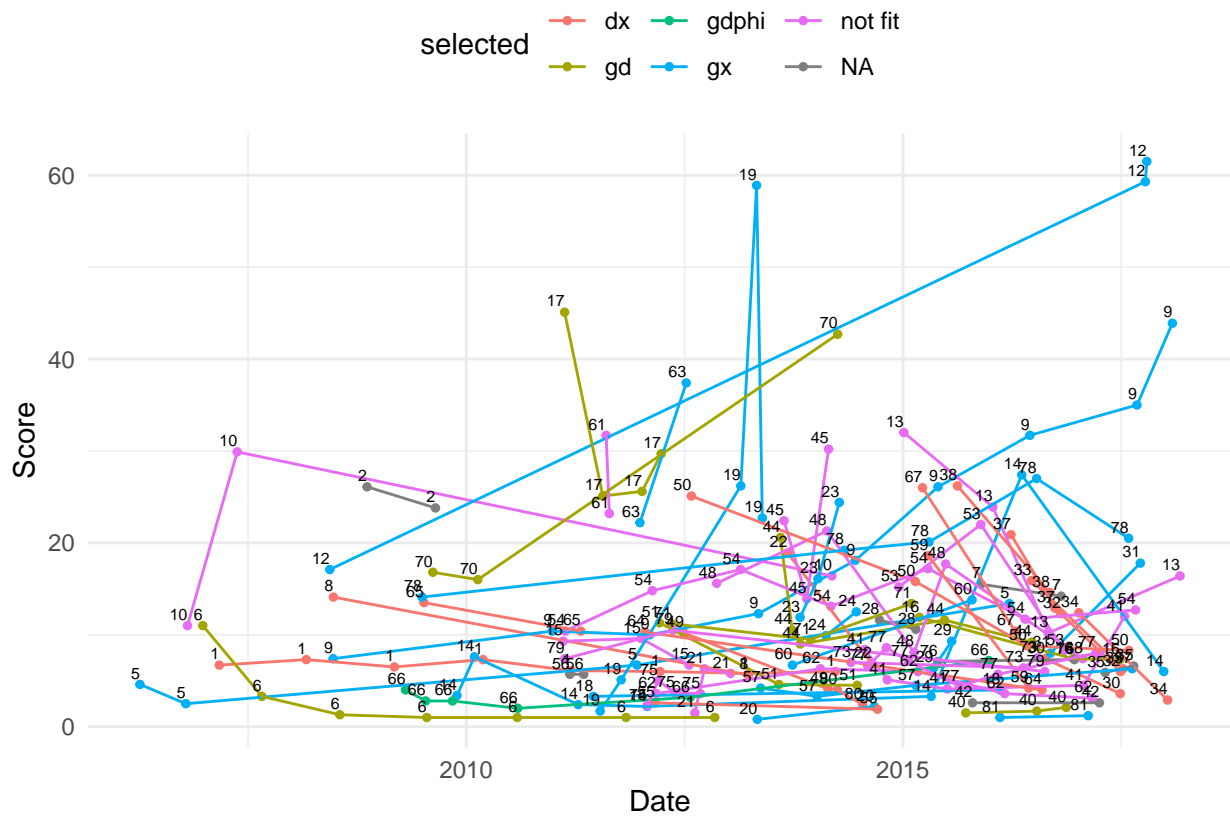
```
# delete duplicated rows
```

```
gd1 = gd1[!duplicated(gd1), ]
gd2 = gd2[!duplicated(gd2), ]
```

```
h0 = merge(sub_dataframes$ISswitch_V1V2_0, gd1, by = "name", all = TRUE)
h1 = merge(sub_dataframes$ISswitch_V1V2_1, gd2, by = "name", all = TRUE)
```

```
h0$date = as.Date(h0$date, origin = "1970-01-01")
h1$date = as.Date(h1$date, origin = "1970-01-01")
```

```
plot_data(h0)
```



plot_data(h1)

