# Introduction to R for SAS programmers

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## **About**

On this page you find the materials for the workshop  $Introduction\ to\ R$  for SAS programmers. The workshop provides an RStudio cloud workspace, so you don't need to have R and RStudio locally installed.

If you want to participate in this workshop using your local machine, you need to download the data first. Executing the following chunk in R on your machine will create and populate a data folder in your current working directory. If you work on the RStudio cloud instance provided by us via link, you do not need to run this chunk.

```
# set paths and data names
path <- "https://github.com/pharmaverse/intro-to-r-for-sas-programmers-workshop/blob/main/
local.path <- ("data")
files <- c("adsl.RData", "adsl.csv", "adsl.sas7bdat", "adsl_1.RData", "adsl_2.RData", "ae.
urls <- file.path(path, files)
dest <- file.path(local.path, files)

# create data folder in wd
if (!file.exists(local.path)) {
    dir.create(local.path)
}

# download files
download.file(urls, destfile = dest)</pre>
```

#### **Further material**

You can't get enough? Here is a resource to help transitioning from SAS to R.

#### SAS <-> R :: CHEAT SHEET New variables, conditional editing Some plotting in R This guide aims to familiarise SAS users with R. R examples make use of tidyverse collection of packages. ggplot( my\_data , aes( year , sales ) ) + geom\_point( ) + geom\_line( ) new\_data <- old\_data %>% mutate(total\_income = wages + benefits) set old\_data; total\_income = wages + benefits; Install tidyverse: install.packages("tidyverse") Attach tidyverse packages for use: library(tidyverse) R data here in 'data frames', and occasionally vectors (via **c()**) Other R structures (lists, matrices...) are not explored here. data new\_data; set old\_data; if hours > 30 then full\_time = "Y"; else full\_time = "N"; \_data <- old\_data %>% rtate(full\_time = if\_else(hours > 30 , "Y" , "N")) Keyboard shortcuts: <- Alt + -%>% Ctrl + Shift + m ggplot( my\_data , aes( year , sales ) ) + geom\_point() + geom\_line() + ylim(0, 40) + labs(x = "" , y = "Sales per year") Datasets; drop, keep & rename variables new\_data <- old\_data %>% mutate(weather = case\_when( temp > 20 ~ "Warm", temp > 10 ~ "Mild", TRUE ~ "Cold")) data new\_data; set old\_data; if temp > 20 then weath else if temp > 10 then w else weather = "Cold"; data new\_data; set old\_data; run; new data <- old data 80 20 -88 10 -98 0 -2010 Counting and Summarising data new\_data (drop= temp: ); new\_data <- old\_data %>% select( -starts\_with("temp") For percent, add: %>% mutate(percent = n\*100/sum(n)) C.f. contains(), ends\_with() new\_data <- old\_data %>% rename(new\_name = old\_name) proc freq data = old\_data; old\_data %>% count( job\_type , region ) 2011 2012 2013 year proc summary data = old\_data nway; class job\_type region; output out = new\_data; new\_data <- old\_data %>% group\_by( job\_type , region ) %>% summarise( Count = n( ) ) Conditional filtering ggplot( my\_data , aes( year, sales, fill = dept) ) + geom\_col( ) Equivalent without nway not trivially produced proc summary data = old\_data nway; class job\_type region; var salary; output out = new\_data sum( salary ) = total\_salaries; run; Swap si new\_data <- old\_data %>% group\_by(job\_type , region ) %>% summarise( total\_salaries = sum( salary ) , Count = n()) set old\_data; set old\_data; if year in (2010,2011,2012); run; data new\_data; new\_data <- old\_data %>% filter(year %in% c(2010,2011,2012)) Lots of summary functions in both lang narise( ) for mutate( ) to add summary data to original data Note 'colour' for lines & points, 'fill' for shapes Combining datasets data new\_data; set old\_data; by id; if first.id; new\_data <- old\_data %>% group\_by( id ) %>% slice(1) ggplot( my\_data , aes( year, sales, fill = dept) ) + geom\_col( position = "dodge" ) + coord\_flip( ) new\_data <- bind\_rows( data\_1 , data\_2 ) C.f. rbind() which produces error if columns are not identica Could use slice(n( )) for las data new\_data; merge data\_1 (in= in\_1) data\_2; new\_data <- left\_join( data\_1 , data\_2 , by = "id") data new\_data; set old\_data; if dob > "25APR1990"**d**; new\_data <- old\_data %>% filter(dob > as.Date("1990-04-25")) by id; if in\_1;

Figure 1: Cheatsheet for the transition from SAS to R and vice versa.

C.f. full\_join(), right\_join(), inner\_join()

C.f. position = "fill" for 100% stacked bars/cols

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# Part I datatype & structure

## 1 datatype and structure

Sadchla Mascary

R can be used as a calculator following the order of operations using the basic arithmetic operators, although, the arithmetic equal sign (=) in the equivalent of ==.

```
# simple calculations
3*2

[1] 6

  (59 + 73 + 2) / 3

[1] 44.66667

# complex calculations
pi/8
```

## 1.1 Storing outputs

An object can be created to assign the value of your operation to a specific variable name, which can be reused later in the R session. Using the object\_name <- value naming convention, you can assign (<-) the value ((59 + 73 + 2) / 3) to an object\_name simple\_cal to look like  $simple_cal <- (59 + 73 + 2) / 3$  to store the evaluation of that calculation.

```
x <- 1:10
```

[1] 0.3926991

```
y <- 2*x
simple_cal <- (59 + 73 + 2) / 3
```

#### 1.2 Loading data into R

Depending on the formats for the files containing your data, we can use different base R functions to read and load data into memory

R has two native data formats, **Rdata** (sometimes call Rda) and **RDS**.

**Rdata** can be selected R objects or a workspace, and **RDS** are single R object. R has base functions available to read the two native data formats, and some delimited files.

```
# saving rdata
save(x, file = "data/intro_1.RData")
# Save multiple objects
save(x, y, file = "data/intro_2.RData")
# Saving the entire workspake
save.image(file="intro_program")
# We can follow the syntax for saving single Rdata object to save Rds files
# saveRDS(object, file = "my_data.rds")
# loading Rdata or Rda files
load(file = "data/intro_program.RData")
# loading RDS
# We can follow the syntax for read Rdata object to sread Rds files using the readRDS()
# Comma delimited
adsl_CSV <- read.csv("data/adsl.csv", header = TRUE)</pre>
# Save CSV
adsl_csv_save <- write.csv(adsl_CSV, "data/save_data/adsl.csv", row.names=TRUE)
adsl_TAB_save <- write.table(</pre>
```

```
adsl_CSV,
  "data/save_data/adsl.txt",
append = FALSE,
sep = "\t",
dec = ".",
row.names = TRUE,
col.names = TRUE
)

# Tab-delimited
adsl_TAB <- read.table("data/save_data/adsl.txt", header = TRUE, sep = "\t")</pre>
```

#### 1.3 R Packages

R packages are a collection of reusable functions, compiled codes, documentation, sample data and tests. Some formats of data require the use of an R package in order to load that data into memory. Shareable R packages are typically stored in a repository such as the Comprehensive R Archive Network (CRAN), Bioconductor, and GitHub.

#### 1.4 Installing R packages

```
# From CRAN
#install.packages("insert_package_name")
# {haven} is used to import or export foreign statistical format files (SPSS, Stata, SAS)
install.packages("haven")

# {readxl}
install.packages("readxl")

# From Github
remotes::install_github("pharmaverse/admiral", ref = "devel")
```

# 1.5 Using R packages, functions from an R package, and accessing help pages

Since an R packages are a collection of functions, you can choose to load the entire package within R memory or just the needed function from that package. Usually, the order you choose to load your package does not make a difference, unless you are loading two or more packages that has functions with the same name. If you are loading two or more packages with common function name, then the package loaded last will hide that function in the earlier packages, so in that case is important to note the order you choose to load the packages.

```
# Read file using ::
adsl_sas1 <- haven::read_sas("data/adsl.sas7bdat")

# read file using library call
library(haven)
adsl_sas2 <- read_sas("data/adsl.sas7bdat")

# Reading Excel xls|xlsx files
# read_excel reads both xls|xlsx files but read_xls and read_xlsx can also be used to read
# if NA are represented by another something other than blank then you can specified the N
# within the read_excel() function</pre>
```

## 1.6 Data types

R has different types of **Datatype** \* Integer \* numeric \* Character \* Logical \* complex \* raw

But we will focus on the top 4.

```
type_int <- (1:5)
type_num <- rnorm(5)
type_char <- "USUBJID"
type_logl_1 <- TRUE
type_logl_2 <- FALSE</pre>
```

```
class(type_int)

[1] "integer"

   class(type_num)

[1] "numeric"

   class(type_logl_1)

[1] "logical"

   class(type_logl_2)

[1] "logical"

   class(type_char)

[1] "character"
```

#### 1.7 Date formats

There are base R functions that can be used to format a date object similar to the Date9 formatted date variable from SAS. In addition, there are R packages available, such as {lubridate}, for more complex date/date time formatted objects.

```
# using adsl_sas1 RFSTDTC
class(adsl_sas1$RFSTDTC)
```

[1] "character"

```
# Convert the date from that adsl_sas1 into a date variable
adsl_sas1$RFSTDTC <- as.Date(adsl_sas1$RFSTDTC)
class(adsl_sas1$RFSTDTC)

[1] "Date"

date9 <- lubridate::as_date(18757)
lubridate::mdy(adsl_sas1$RFSTDTC)</pre>
```

Warning: All formats failed to parse. No formats found.

#### 1.8 Structures

Data structures are dimensional ways of organizing the data. There are different data structures in R, let's focus on **vectors** and **dataframe** 

**Vectors** are 1 dimensional collection of data that can contain one or more element of the same data type

```
vect_1 <- 2
vect_2 <- c(2, "USUBJID")
class(vect_1)</pre>
```

[1] "numeric"

```
class(vect_2)
```

#### [1] "character"

```
# Saving vectors from a dataset to a specific variable
usubjid <- adsl_sas1$USUBJID
subjid <- adsl_sas1[, 3]</pre>
```

**Dataframe** is similar to SAS data sets and are 2 dimensional collection of vectors. Dataframe can store vectors of different types but must be of the same length

```
df <- data.frame(</pre>
   age = c(65, 20, 37, 19, 45),
   seq = (1:5),
   type_log1 = c(TRUE, FALSE, TRUE, TRUE, FALSE),
   usubjid = c("001-940-9785","002-950-9726","003-940-9767","004-940-9795","005-940-9734")
  )
 # str() provides the data structure for each object in the dataframe
  str(df)
'data.frame':
               5 obs. of 4 variables:
$ age
         : num 65 20 37 19 45
$ seq
         : int 12345
$ type_logl: logi TRUE FALSE TRUE TRUE FALSE
$ usubjid : chr "001-940-9785" "002-950-9726" "003-940-9767" "004-940-9795" ...
  # In addition to the data structure per variable, also get some descriptive statistics
  summary(df)
                                            usubjid
     age
                    seq
                          type_logl
                          Mode :logical
                                          Length:5
Min. :19.0
              Min. :1
1st Qu.:20.0
              1st Qu.:2
                          FALSE:2
                                          Class : character
Median:37.0 Median:3
                          TRUE :3
                                          Mode : character
Mean :37.2 Mean :3
3rd Qu.:45.0 3rd Qu.:4
Max. :65.0 Max. :5
```

# 2 datatype\_structure\_exercise

Install and load the following packages

{tidyverse} {admiral} {dplyr} {tidyr} {admiral.test}

```
#installing the packages
install.packages(c("tidyverse", "admiral", "dplyr", "tidyr"))

library(tidyverse)
library(admiral)
library(admiral.test)
library(dplyr)
library(tidyr)
```

## 3 Exercise 2

Import adsl.sas7bdat as adsl

```
adsl <- haven::read_sas("data/adsl.sas7bdat")</pre>
```

Part II

dplyr

## 4 dplyr

Stefan Thoma

```
# remotes::install_github("https://github.com/pharmaverse/admiral")
  # library(admiral)
  library(tidyverse)
-- Attaching packages ----- tidyverse 1.3.2 --
v ggplot2 3.3.6
                          0.3.5
              v purrr
v tibble 3.1.8
                 v dplyr 1.0.10
v tidyr
      1.2.1
                 v stringr 1.4.1
v readr
        2.1.3
                 v forcats 0.5.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()
             masks stats::lag()
Read data
  adsl <- read.csv("data/adsl.csv", header = TRUE)
```

We can have a look at the data using many different commands / functions, e.g. the head() function which gives us the first six observations:

```
head(adsl)
```

```
STUDYID USUBJID SUBJID RFSTDTC RFENDTC RFXSTDTC RFXENDTC

1 CDISCPILOTO1 01-701-1015 1015 2014-01-02 2014-07-02 2014-01-02 2014-07-02

2 CDISCPILOTO1 01-701-1023 1023 2012-08-05 2012-09-02 2012-08-05 2012-09-01

3 CDISCPILOTO1 01-701-1028 1028 2013-07-19 2014-01-14 2013-07-19 2014-01-14

4 CDISCPILOTO1 01-701-1033 1033 2014-03-18 2014-04-14 2014-03-18 2014-03-31

5 CDISCPILOTO1 01-701-1034 1034 2014-07-01 2014-12-30 2014-07-01 2014-12-30

6 CDISCPILOTO1 01-701-1047 1047 2013-02-12 2013-03-29 2013-02-12 2013-03-09
```

```
RFICDTC
                  RFPENDTC DTHDTC DTHFL SITEID AGE AGEU SEX
                                                               RACE
                                                  63 YEARS
1
       NA 2014-07-02T11:45
                              <NA>
                                    <NA>
                                             701
                                                              F WHITE
2
                2013-02-18
                              <NA>
                                    <NA>
                                             701
                                                  64 YEARS
                                                              M WHITE
       NΑ
3
                              <NA>
                                    <NA>
                                             701
                                                  71 YEARS
       NA 2014-01-14T11:10
                                                              M WHITE
                                                  74 YEARS
4
       NA
                2014-09-15
                              <NA>
                                    <NA>
                                             701
                                                              M WHITE
                                                  77 YEARS
5
       NA 2014-12-30T09:50
                              <NA>
                                    <NA>
                                             701
                                                              F WHITE
6
                2013-07-28
                              <NA>
                                    <NA>
                                             701
                                                  85 YEARS
                                                              F WHITE
                  ETHNIC
                          ARMCD
                                                   ARM ACTARMCD
      HISPANIC OR LATINO
1
                             Pbo
                                               Placebo
                                                            Pbo
2
      HISPANIC OR LATINO
                             Pbo
                                               Placebo
                                                            Pbo
3 NOT HISPANIC OR LATINO Xan_Hi Xanomeline High Dose
                                                         Xan_Hi
4 NOT HISPANIC OR LATINO Xan_Lo
                                 Xanomeline Low Dose
                                                         Xan_Lo
5 NOT HISPANIC OR LATINO Xan_Hi Xanomeline High Dose
                                                         Xan_Hi
                                                            Pbo
6 NOT HISPANIC OR LATINO
                             Pbo
                                               Placebo
                ACTARM COUNTRY
                                     DMDTC DMDY
                                                                TRT01P
1
                            USA 2013-12-26
                                              -7
               Placebo
                                                               Placebo
2
               Placebo
                            USA 2012-07-22
                                            -14
                                                               Placebo
3 Xanomeline High Dose
                            USA 2013-07-11
                                              -8 Xanomeline High Dose
  Xanomeline Low Dose
                           USA 2014-03-10
                                                 Xanomeline Low Dose
                                              -8
5 Xanomeline High Dose
                            USA 2014-06-24
                                              -7 Xanomeline High Dose
                            USA 2013-01-22
               Placebo
                                            -21
                                                               Placebo
                                     TRTSDTM TRTSTMF
                TRT01A
                                                                    TRTEDTM
1
               Placebo 2014-01-02T00:00:00Z
                                                    H 2014-07-02T23:59:59Z
2
               Placebo 2012-08-05T00:00:00Z
                                                    H 2012-09-01T23:59:59Z
3 Xanomeline High Dose 2013-07-19T00:00:00Z
                                                    H 2014-01-14T23:59:59Z
  Xanomeline Low Dose 2014-03-18T00:00:00Z
                                                    H 2014-03-31T23:59:59Z
 Xanomeline High Dose 2014-07-01T00:00:00Z
                                                    H 2014-12-30T23:59:59Z
6
               Placebo 2013-02-12T00:00:00Z
                                                    H 2013-03-09T23:59:59Z
  TRTETMF
                          TRTEDT TRTDURD SCRFDT
              TRTSDT
                                                      EOSDT
                                                                   EOSSTT
1
        H 2014-01-02 2014-07-02
                                     182
                                            <NA> 2014-07-02
                                                                COMPLETED
2
        H 2012-08-05 2012-09-01
                                      28
                                            <NA> 2012-09-02 DISCONTINUED
3
        H 2013-07-19 2014-01-14
                                     180
                                            <NA> 2014-01-14
                                                                COMPLETED
4
        H 2014-03-18 2014-03-31
                                      14
                                            <NA> 2014-04-14 DISCONTINUED
5
        H 2014-07-01 2014-12-30
                                            <NA> 2014-12-30
                                     183
                                                                COMPLETED
                                      26
6
        H 2013-02-12 2013-03-09
                                            <NA> 2013-03-29 DISCONTINUED
       FRVDT
                 RANDDT DTHDT DTHADY LDDTHELD
                                                  LSTALVDT AGEGR1 SAFFL RACEGR1
1
        <NA> 2014-01-02
                          <NA>
                                   NA
                                             NA 2014-07-02
                                                             18-64
                                                                       Y
                                                                           White
2 2013-02-18 2012-08-05
                          <NA>
                                   NA
                                             NA 2012-09-02
                                                            18-64
                                                                           White
                                                                       Y
        <NA> 2013-07-19
                                                                       Y
3
                          <NA>
                                   NA
                                             NA 2014-01-14
                                                             >=65
                                                                           White
4 2014-09-15 2014-03-18
                          <NA>
                                   NA
                                             NA 2014-04-14
                                                             >=65
                                                                       Y
                                                                           White
        <NA> 2014-07-01
                                             NA 2014-12-30
                                                             >=65
                          <NA>
                                   NA
                                                                       Y
                                                                           White
6 2013-07-28 2013-02-12
                                             NA 2013-04-07
                                                                       Y
                          <NA>
                                   NA
                                                              >=65
                                                                           White
 REGION1 LDDTHGR1 DTH30FL DTHA30FL DTHB30FL
```

1	NA	<na></na>	<na></na>	NA	<na></na>
2	NA	<na></na>	<na></na>	NA	<na></na>
3	NA	<na></na>	<na></na>	NA	<na></na>
4	NA	<na></na>	<na></na>	NA	<na></na>
5	NA	<na></na>	<na></na>	NA	<na></na>
6	NA	<na></na>	<na></na>	NA	<na></na>

## 4.1 dplyr

dplyr is a package which is part of the tidyverse. dplyr helps us handle data. In R, we generally work with data-sets. With dplyr we can easily select variables, filter specific rows, sort data-sets based on variable values and much more.

dplyr is not strictly needed for any of that, everything can be done in base R. However, dplyr provides a framework to write readable code and a pipeline to work efficiently.

#### 4.2 Datawrangling

There are various functions within dplyr for datawrangling which follow a consistent structure. The first input of the most used dplyr functions is the data-frame. Then follow arguments specifying the behaviour of the function. Compared to the base r syntax we do not have to write column / variable names in quotation marks; dplyr syntax lets us refer to columns within a data-frame without the need to always reference the dataframe of origin.

#### **4.2.1** select

The **select** function lets us select all variables mentioned in the arguments (and drops all other variables). Alternatively, we can selectively drop variables if we place a minus (-) in front of the variable name.

We can first have a look at all variable names of the data-frame:

#### names(adsl)

```
[1] "STUDYID"
                 "USUBJID"
                             "SUBJID"
                                         "RFSTDTC"
                                                     "RFENDTC"
                                                                 "RFXSTDTC"
 [7] "RFXENDTC"
                 "RFICDTC"
                             "RFPENDTC"
                                         "DTHDTC"
                                                     "DTHFL"
                                                                 "SITEID"
                                                                 "ARMCD"
[13] "AGE"
                 "AGEU"
                             "SEX"
                                         "RACE"
                                                     "ETHNIC"
[19] "ARM"
                                         "COUNTRY"
                                                     "DMDTC"
                                                                 "DMDY"
                 "ACTARMCD"
                            "ACTARM"
[25] "TRT01P"
                 "TRTO1A"
                             "TRTSDTM"
                                         "TRTSTMF"
                                                     "TRTEDTM"
                                                                 "TRTETMF"
                                         "SCRFDT"
[31] "TRTSDT"
                 "TRTEDT"
                             "TRTDURD"
                                                     "EOSDT"
                                                                 "EOSSTT"
```

```
[37] "FRVDT" "RANDDT" "DTHDT" "DTHADY" "LDDTHELD" "LSTALVDT" [43] "AGEGR1" "SAFFL" "RACEGR1" "REGION1" "LDDTHGR1" "DTH30FL" [49] "DTHA30FL" "DTHB30FL"
```

And then select the desired variables:

```
STUDYID
                    USUBJID
                                             ARM AGE SEX
   CDISCPILOTO1 01-701-1015
                                         Placebo
                                                  63
                                                       F
1
2
   CDISCPILOT01 01-701-1023
                                         Placebo
                                                  64
                                                       М
3
   CDISCPILOTO1 01-701-1028 Xanomeline High Dose
                                                  71
                                                       Μ
   CDISCPILOTO1 01-701-1033 Xanomeline Low Dose
                                                  74
                                                       Μ
   CDISCPILOTO1 01-701-1034 Xanomeline High Dose
5
                                                  77
                                                       F
   CDISCPILOTO1 01-701-1047
                                         Placebo
                                                       F
7
   CDISCPILOTO1 01-701-1057
                                  Screen Failure
                                                  59
                                                       F
8
   CDISCPILOTO1 01-701-1097 Xanomeline Low Dose
                                                  68
                                                       М
   CDISCPILOTO1 01-701-1111 Xanomeline Low Dose
                                                       F
9
                                                  81
10 CDISCPILOTO1 01-701-1115 Xanomeline Low Dose
                                                  84
                                                       Μ
11 CDISCPILOTO1 01-701-1118
                                         Placebo
                                                  52
                                                       Μ
12 CDISCPILOTO1 01-701-1130
                                         Placebo
                                                  84
                                                       Μ
13 CDISCPILOTO1 01-701-1133 Xanomeline High Dose
14 CDISCPILOTO1 01-701-1145
                                  Screen Failure
                                                  57
                                                       F
15 CDISCPILOTO1 01-701-1146 Xanomeline High Dose
                                                  75
                                                       F
16 CDISCPILOTO1 01-701-1148 Xanomeline High Dose
                                                  57
                                                       М
17 CDISCPILOTO1 01-701-1153
                                                  79
                                                       F
                                         Placebo
18 CDISCPILOTO1 01-701-1162
                                                       F
                                  Screen Failure
                                                  82
19 CDISCPILOTO1 01-701-1176
                                  Screen Failure
                                                  62
                                                       F
20 CDISCPILOTO1 01-701-1180 Xanomeline High Dose
21 CDISCPILOTO1 01-701-1181 Xanomeline High Dose
                                                  79
                                                       F
22 CDISCPILOTO1 01-701-1188 Xanomeline Low Dose
                                                  71
                                                       М
23 CDISCPILOTO1 01-701-1192 Xanomeline Low Dose
                                                  80
                                                       F
24 CDISCPILOT01 01-701-1203
                                         Placebo 81
                                                       F
25 CDISCPILOTO1 01-701-1211 Xanomeline Low Dose
                                                       F
                                                  76
26 CDISCPILOTO1 01-701-1234
                                         Placebo
                                                  69
                                                       М
```

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27 CDISCPILOTO1 01-701-1239 Xanomeline High Dose
                                                    56
                                                         Μ
28 CDISCPILOTO1 01-701-1240
                                   Screen Failure
                                                    57
                                                         F
29
   CDISCPILOTO1 01-701-1275 Xanomeline High Dose
                                                    61
                                                         Μ
30 CDISCPILOTO1 01-701-1287 Xanomeline High Dose
                                                    56
                                                         F
                             Xanomeline Low Dose
31
   CDISCPILOTO1 01-701-1294
                                                    67
                                                         Μ
   CDISCPILOTO1 01-701-1302 Xanomeline High Dose
                                                    61
                                                         М
33 CDISCPILOTO1 01-701-1307
                                   Screen Failure
                                                    80
                                                         F
34
   CDISCPILOTO1 01-701-1317 Xanomeline Low Dose
                                                    68
                                                         М
35 CDISCPILOTO1 01-701-1324 Xanomeline Low Dose
                                                    79
                                                         М
36
   CDISCPILOTO1 01-701-1341
                              Xanomeline Low Dose
                                                    51
                                                         Μ
37
   CDISCPILOTO1 01-701-1345
                                                    63
                                                         F
                                           Placebo
   CDISCPILOTO1 01-701-1356
                                                         F
38
                                   Screen Failure
                                                    54
   CDISCPILOTO1 01-701-1360 Xanomeline High Dose
                                                    67
                                                         М
                                                         F
40
   CDISCPILOTO1 01-701-1363
                                           Placebo
                                                    81
41
   CDISCPILOTO1 01-701-1369
                                   Screen Failure
                                                    74
                                                         М
42 CDISCPILOTO1 01-701-1383 Xanomeline High Dose
                                                    72
                                                         F
43
   CDISCPILOTO1 01-701-1386
                                    Screen Failure
                                                    71
                                                         М
44
   CDISCPILOTO1 01-701-1387
                                                    87
                                                         F
                                           Placebo
45
   CDISCPILOTO1 01-701-1392
                                                    78
                                           Placebo
                                                         М
   CDISCPILOTO1 01-701-1411
                                                    76
46
                                    Screen Failure
                                                         Μ
47
   CDISCPILOTO1 01-701-1415
                                           Placebo
                                                    85
                                                         М
48
   CDISCPILOTO1 01-701-1429
                              Xanomeline Low Dose
                                                    84
                                                         F
   CDISCPILOTO1 01-701-1440
                                           Placebo
                                                    70
                                                         М
   CDISCPILOTO1 01-701-1442
                              Xanomeline Low Dose
50
                                                    57
                                                         F
51 CDISCPILOTO1 01-701-1444 Xanomeline High Dose
                                                    63
                                                         М
                              Xanomeline Low Dose
                                                         F
52 CDISCPILOTO1 01-702-1082
                                                    84
   CDISCPILOTO1 01-703-1042
53
                                           Placebo
                                                    64
                                                         Μ
54
   CDISCPILOTO1 01-703-1076 Xanomeline High Dose
                                                    69
                                                         M
                                                    71
55
   CDISCPILOTO1 01-703-1086
                              Xanomeline Low Dose
                                                         М
  CDISCPILOTO1 01-703-1096
                                           Placebo
                                                    81
                                                         F
   CDISCPILOTO1 01-703-1100
                                                         F
57
                                           Placebo
                                                    84
58
   CDISCPILOTO1 01-703-1119
                              Xanomeline Low Dose
                                                    81
                                                         F
59
   CDISCPILOTO1 01-703-1175
                                           Placebo
                                                    75
                                                         М
60 CDISCPILOTO1 01-703-1182
                              Xanomeline Low Dose
                                                    84
                                                         М
                                                         F
61
   CDISCPILOTO1 01-703-1197
                              Xanomeline Low Dose
                                                    76
62
   CDISCPILOTO1 01-703-1210
                                           Placebo
                                                    72
                                                         F
                                                         F
63 CDISCPILOTO1 01-703-1258 Xanomeline High Dose
                                                    78
   CDISCPILOTO1 01-703-1279
                              Xanomeline Low Dose
                                                    72
                                                         F
65 CDISCPILOTO1 01-703-1295 Xanomeline High Dose
                                                         F
                                                    88
66 CDISCPILOTO1 01-703-1299
                                           Placebo
                                                    81
                                                         F
67 CDISCPILOTO1 01-703-1335 Xanomeline High Dose
                                                    67
                                                         F
   CDISCPILOTO1 01-703-1379
                              Xanomeline Low Dose
                                                         F
68
                                                    81
   CDISCPILOTO1 01-703-1396
                                    Screen Failure
                                                    84
                                                         М
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70 CDISCPILOTO1 01-703-1403 Xanomeline High Dose
                                                    67
                                                         Μ
   CDISCPILOTO1 01-703-1439 Xanomeline High Dose
                                                         F
71
                                                    76
72 CDISCPILOTO1 01-704-1008 Xanomeline High Dose
                                                    76
                                                         F
73 CDISCPILOTO1 01-704-1009 Xanomeline Low Dose
                                                    83
                                                         М
74 CDISCPILOTO1 01-704-1010
                                           Placebo
                                                    80
                                                         М
                                                    77
75 CDISCPILOTO1 01-704-1017 Xanomeline High Dose
                                                         М
76 CDISCPILOTO1 01-704-1025
                             Xanomeline Low Dose
                                                         F
77 CDISCPILOTO1 01-704-1065 Xanomeline High Dose
                                                    75
                                                         Μ
78 CDISCPILOTO1 01-704-1074 Xanomeline High Dose
                                                    80
                                                         F
79
   CDISCPILOTO1 01-704-1093 Xanomeline High Dose
                                                    79
                                                         М
80
   CDISCPILOTO1 01-704-1114 Xanomeline Low Dose
                                                    77
                                                         М
   CDISCPILOTO1 01-704-1120
                              Xanomeline Low Dose
                                                    71
                                                         F
81
82
   CDISCPILOTO1 01-704-1127
                                                    84
                                                         F
                                           Placebo
                                                    74
                                                         F
   CDISCPILOTO1 01-704-1135
                              Xanomeline Low Dose
   CDISCPILOTO1 01-704-1164
                                           Placebo
                                                    67
                                                         F
   CDISCPILOTO1 01-704-1218
                                                         F
                              Xanomeline Low Dose
                                                    81
86
   CDISCPILOTO1 01-704-1233
                                           Placebo
                                                    87
                                                         F
87
   CDISCPILOTO1 01-704-1241 Xanomeline High Dose
                                                    86
                                                         М
   CDISCPILOTO1 01-704-1260
                                           Placebo
                                                    71
                                                         F
88
   CDISCPILOTO1 01-704-1266 Xanomeline High Dose
                                                    82
89
                                                         Μ
90
   CDISCPILOTO1 01-704-1323
                              Xanomeline Low Dose
                                                    68
                                                         F
91
   CDISCPILOTO1 01-704-1325
                              Xanomeline Low Dose
                                                    81
                                                         М
92 CDISCPILOTO1 01-704-1332 Xanomeline High Dose
                                                    80
                                                         Μ
93
   CDISCPILOTO1 01-704-1351
                                           Placebo
                                                    70
                                                         Μ
94 CDISCPILOTO1 01-704-1388
                                                    81
                                           Placebo
                                                         М
95 CDISCPILOTO1 01-704-1435
                                                    74
                                           Placebo
                                                         М
96 CDISCPILOTO1 01-704-1445
                                                    75
                                           Placebo
                                                         М
97
   CDISCPILOT01 01-705-1011
                                    Screen Failure
                                                    75
                                                         F
                                                         F
98 CDISCPILOTO1 01-705-1018
                                           Placebo
                                                    69
   CDISCPILOTO1 01-705-1031
                              Xanomeline Low Dose
                                                    56
                                                         F
100 CDISCPILOTO1 01-705-1058
                                    Screen Failure
                                                    89
                                                         Μ
101 CDISCPILOTO1 01-705-1059
                                           Placebo
                                                    66
                                                         F
102 CDISCPILOT01 01-705-1112
                                    Screen Failure
                                                    78
                                                         М
103 CDISCPILOT01 01-705-1186
                                           Placebo
                                                    84
                                                         F
                              Xanomeline Low Dose
104 CDISCPILOT01 01-705-1199
                                                    87
                                                         M
105 CDISCPILOT01 01-705-1243
                                    Screen Failure
                                                    70
                                                         F
106 CDISCPILOT01 01-705-1280 Xanomeline High Dose
                                                         F
107 CDISCPILOTO1 01-705-1281 Xanomeline High Dose
                                                    73
                                                         F
108 CDISCPILOT01 01-705-1282
                                                    70
                                                         F
                                           Placebo
109 CDISCPILOTO1 01-705-1292 Xanomeline Low Dose
                                                    60
                                                         F
110 CDISCPILOT01 01-705-1303 Xanomeline High Dose
                                                    72
                                                         М
                                                         F
111 CDISCPILOTO1 01-705-1310 Xanomeline High Dose
                                                    74
112 CDISCPILOTO1 01-705-1349
                                           Placebo
                                                    86
                                                         F
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113 CDISCPILOTO1 01-705-1377 Xanomeline High Dose
                                                          F
                                                     63
114 CDISCPILOTO1 01-705-1382 Xanomeline High Dose
                                                     82
                                                          Μ
115 CDISCPILOTO1 01-705-1393
                               Xanomeline Low Dose
                                                     84
                                                          F
116 CDISCPILOT01 01-705-1421
                                    Screen Failure
                                                     87
                                                          М
                               Xanomeline Low Dose
                                                          F
117 CDISCPILOTO1 01-705-1431
                                                     68
118 CDISCPILOTO1 01-706-1041
                                            Placebo
                                                     64
                                                          F
119 CDISCPILOTO1 01-706-1049 Xanomeline High Dose
                                                     60
                                                          F
120 CDISCPILOTO1 01-706-1384
                               Xanomeline Low Dose
                                                     74
                                                          F
121 CDISCPILOTO1 01-707-1037
                               Xanomeline Low Dose
                                                     72
                                                          F
122 CDISCPILOT01 01-707-1206
                                            Placebo
                                                     65
                                                          М
                                                     72
                                                          F
123 CDISCPILOTO1 01-707-1276
                                    Screen Failure
                                                          F
124 CDISCPILOTO1 01-707-1430
                                    Screen Failure
                                                     81
125 CDISCPILOT01 01-707-1434
                                                     76
                                                          F
                                    Screen Failure
126 CDISCPILOTO1 01-708-1013
                                    Screen Failure
                                                     80
                                                          M
127 CDISCPILOTO1 01-708-1019
                               Xanomeline Low Dose
                                                     68
                                                          М
128 CDISCPILOT01 01-708-1032
                               Xanomeline Low Dose
                                                     62
                                                          M
129 CDISCPILOT01 01-708-1054
                                    Screen Failure
                                                     73
                                                          F
130 CDISCPILOT01 01-708-1067
                                    Screen Failure
                                                     88
                                                          М
131 CDISCPILOTO1 01-708-1084
                               Xanomeline Low Dose
                                                     73
                                                          F
132 CDISCPILOT01 01-708-1087
                                                     74
                                                          F
                                            Placebo
133 CDISCPILOT01 01-708-1104
                                    Screen Failure
                                                     78
                                                          F
134 CDISCPILOT01 01-708-1158
                                            Placebo
                                                     81
                                                          F
135 CDISCPILOT01 01-708-1171
                                            Placebo
                                                     77
                                                          F
136 CDISCPILOTO1 01-708-1178 Xanomeline High Dose
                                                     77
                                                          F
137 CDISCPILOTO1 01-708-1184
                                    Screen Failure
                                                     70
                                                          F
138 CDISCPILOT01 01-708-1213 Xanomeline High Dose
                                                          F
                                                     76
139 CDISCPILOTO1 01-708-1216 Xanomeline High Dose
                                                     78
                                                          М
                                                          F
140 CDISCPILOTO1 01-708-1236 Xanomeline High Dose
                                                     86
141 CDISCPILOTO1 01-708-1242
                                    Screen Failure
                                                     80
                                                          М
142 CDISCPILOT01 01-708-1253
                                            Placebo
                                                     61
                                                          M
143 CDISCPILOTO1 01-708-1272
                               Xanomeline Low Dose
                                                     82
                                                          M
144 CDISCPILOTO1 01-708-1286
                                                     80
                                                          F
                                            Placebo
145 CDISCPILOT01 01-708-1296
                                            Placebo
                                                     57
                                                          M
146 CDISCPILOT01 01-708-1297
                               Xanomeline Low Dose
                                                     61
                                                          М
                                                          F
147 CDISCPILOTO1 01-708-1316
                                                     74
                                            Placebo
148 CDISCPILOTO1 01-708-1336 Xanomeline High Dose
                                                     73
                                                          М
149 CDISCPILOTO1 01-708-1342
                                            Placebo
                                                          F
150 CDISCPILOTO1 01-708-1347 Xanomeline High Dose
                                                          F
                                                     61
151 CDISCPILOTO1 01-708-1348
                               Xanomeline Low Dose
                                                     79
                                                          F
152 CDISCPILOTO1 01-708-1352
                                    Screen Failure
                                                     87
                                                          F
153 CDISCPILOT01 01-708-1353
                                                     87
                                                          F
                               Xanomeline Low Dose
154 CDISCPILOTO1 01-708-1372 Xanomeline High Dose
                                                          M
155 CDISCPILOT01 01-708-1378
                                            Placebo
                                                     67
                                                          M
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156 CDISCPILOTO1 01-708-1406 Xanomeline High Dose
                                                     71
                                                          F
                                                          F
157 CDISCPILOTO1 01-708-1428
                               Xanomeline Low Dose
                                                     84
158 CDISCPILOT01 01-709-1001
                                                     76
                                                          F
                                            Placebo
159 CDISCPILOTO1 01-709-1007
                               Xanomeline Low Dose
                                                     54
                                                          F
160 CDISCPILOTO1 01-709-1020
                               Xanomeline Low Dose
                                                          F
161 CDISCPILOTO1 01-709-1029 Xanomeline High Dose
                                                     82
                                                          М
162 CDISCPILOTO1 01-709-1081
                               Xanomeline Low Dose
                                                     86
                                                          F
163 CDISCPILOT01 01-709-1088
                                            Placebo
                                                     69
                                                          Μ
164 CDISCPILOTO1 01-709-1099 Xanomeline High Dose
                                                     79
                                                          F
                               Xanomeline Low Dose
165 CDISCPILOTO1 01-709-1102
                                                     71
                                                          F
166 CDISCPILOTO1 01-709-1168 Xanomeline High Dose
                                                     72
                                                          F
                               Xanomeline Low Dose
                                                     77
167 CDISCPILOTO1 01-709-1217
                                                          M
                                                     84
168 CDISCPILOTO1 01-709-1224
                                    Screen Failure
                                                          M
169 CDISCPILOTO1 01-709-1237
                                    Screen Failure
                                                     88
                                                          F
170 CDISCPILOTO1 01-709-1238 Xanomeline High Dose
                                                     69
                                                          М
171 CDISCPILOTO1 01-709-1259
                                            Placebo
                                                     82
                                                          M
172 CDISCPILOT01 01-709-1285
                               Xanomeline Low Dose
                                                     87
                                                          M
173 CDISCPILOT01 01-709-1301
                                                     62
                                                          F
                                           Placebo
174 CDISCPILOT01 01-709-1306
                                                          F
                                           Placebo
                                                     60
175 CDISCPILOTO1 01-709-1309 Xanomeline High Dose
                                                     65
                                                          Μ
176 CDISCPILOTO1 01-709-1312
                                            Placebo
                                                     68
                                                          F
177 CDISCPILOTO1 01-709-1326
                               Xanomeline Low Dose
                                                     75
                                                          F
178 CDISCPILOTO1 01-709-1329 Xanomeline High Dose
                                                     70
                                                          Μ
179 CDISCPILOTO1 01-709-1339
                                            Placebo
                                                     81
                                                          Μ
180 CDISCPILOTO1 01-709-1424 Xanomeline High Dose
                                                     77
                                                          М
181 CDISCPILOTO1 01-710-1002
                               Xanomeline Low Dose
                                                     88
                                                          M
182 CDISCPILOTO1 01-710-1006 Xanomeline High Dose
                                                     77
                                                          М
183 CDISCPILOTO1 01-710-1021 Xanomeline High Dose
                                                     79
                                                          M
184 CDISCPILOTO1 01-710-1027
                                            Placebo
                                                     83
                                                          М
185 CDISCPILOTO1 01-710-1045
                               Xanomeline Low Dose
                                                     83
                                                          F
186 CDISCPILOTO1 01-710-1053
                                                          F
                               Xanomeline Low Dose
                                                     84
187 CDISCPILOTO1 01-710-1060
                                            Placebo
                                                     82
                                                          M
188 CDISCPILOTO1 01-710-1070 Xanomeline High Dose
                                                     85
                                                          F
189 CDISCPILOTO1 01-710-1077
                                                     76
                                           Placebo
                                                          F
                                                          F
190 CDISCPILOTO1 01-710-1078
                                                     81
                                           Placebo
191 CDISCPILOTO1 01-710-1083
                                           Placebo
                                                     89
                                                          F
                                                          F
192 CDISCPILOTO1 01-710-1129
                                    Screen Failure
                                                     69
193 CDISCPILOTO1 01-710-1137 Xanomeline High Dose
                                                     79
                                                          F
194 CDISCPILOTO1 01-710-1142 Xanomeline High Dose
                                                     76
                                                          F
195 CDISCPILOTO1 01-710-1149
                                    Screen Failure
                                                     79
                                                          F
196 CDISCPILOTO1 01-710-1154
                               Xanomeline Low Dose
                                                     84
                                                          М
197 CDISCPILOTO1 01-710-1166
                                                          F
                               Xanomeline Low Dose
                                                     81
198 CDISCPILOTO1 01-710-1183
                                                          F
                                           Placebo
                                                     80
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199 CDISCPILOTO1 01-710-1187 Xanomeline High Dose
                                                          F
                                                     78
200 CDISCPILOTO1 01-710-1235
                               Xanomeline Low Dose
                                                     56
                                                          F
201 CDISCPILOTO1 01-710-1249 Xanomeline High Dose
                                                     79
                                                          M
202 CDISCPILOT01 01-710-1257
                                    Screen Failure
                                                     85
                                                          F
203 CDISCPILOT01 01-710-1264
                                            Placebo
                                                     78
                                                          M
204 CDISCPILOTO1 01-710-1270
                               Xanomeline Low Dose
                                                     83
                                                          F
205 CDISCPILOT01 01-710-1271
                                            Placebo
                                                          F
206 CDISCPILOTO1 01-710-1278 Xanomeline High Dose
                                                     81
                                                          Μ
207 CDISCPILOTO1 01-710-1300
                               Xanomeline Low Dose
                                                     78
                                                          F
208 CDISCPILOTO1 01-710-1314
                                            Placebo
                                                     78
                                                          F
209 CDISCPILOT01 01-710-1315
                                                     83
                                                          F
                                            Placebo
210 CDISCPILOT01 01-710-1337
                                    Screen Failure
                                                     73
                                                          M
211 CDISCPILOTO1 01-710-1354 Xanomeline High Dose
                                                          М
212 CDISCPILOTO1 01-710-1358
                               Xanomeline Low Dose
                                                     82
                                                          M
213 CDISCPILOT01 01-710-1368
                                            Placebo
                                                     88
                                                          F
214 CDISCPILOT01 01-710-1376
                                                          F
                                    Screen Failure
                                                     89
215 CDISCPILOT01 01-710-1380
                                    Screen Failure
                                                     80
                                                          F
216 CDISCPILOTO1 01-710-1385
                               Xanomeline Low Dose
                                                     77
                                                          M
217 CDISCPILOTO1 01-710-1408 Xanomeline High Dose
                                                     80
                                                          М
218 CDISCPILOTO1 01-710-1443
                                    Screen Failure
                                                     88
                                                          F
219 CDISCPILOTO1 01-711-1012 Xanomeline High Dose
                                                     67
                                                          F
220 CDISCPILOT01 01-711-1022
                                    Screen Failure
                                                     86
                                                          F
221 CDISCPILOT01 01-711-1036
                                            Placebo
                                                     70
                                                          Μ
222 CDISCPILOTO1 01-711-1143
                               Xanomeline Low Dose
                                                     76
                                                          F
223 CDISCPILOTO1 01-711-1163
                                    Screen Failure
                                                     74
                                                          F
224 CDISCPILOTO1 01-711-1173
                                    Screen Failure
                                                     62
                                                          Μ
                                                     74
                                                          F
225 CDISCPILOT01 01-711-1226
                                    Screen Failure
226 CDISCPILOTO1 01-711-1251
                                    Screen Failure
                                                     82
                                                          M
                                                     75
227 CDISCPILOTO1 01-711-1283
                                    Screen Failure
                                                          F
228 CDISCPILOTO1 01-711-1284
                                    Screen Failure
                                                     77
                                                          F
229 CDISCPILOTO1 01-711-1290
                                    Screen Failure
                                                          F
                                                     61
230 CDISCPILOTO1 01-711-1433 Xanomeline High Dose
                                                     84
                                                          F
231 CDISCPILOTO1 01-713-1043
                               Xanomeline Low Dose
                                                     78
                                                          F
232 CDISCPILOTO1 01-713-1073
                               Xanomeline Low Dose
                                                     74
                                                          F
233 CDISCPILOTO1 01-713-1106 Xanomeline High Dose
                                                     74
                                                          M
234 CDISCPILOTO1 01-713-1141 Xanomeline High Dose
                                                     79
                                                          М
235 CDISCPILOT01 01-713-1179
                                            Placebo
                                                          F
236 CDISCPILOTO1 01-713-1209 Xanomeline High Dose
                                                     77
                                                          F
                                                     71
237 CDISCPILOT01 01-713-1256
                                            Placebo
                                                          М
238 CDISCPILOT01 01-713-1269
                                            Placebo
                                                     73
                                                          Μ
239 CDISCPILOTO1 01-713-1448
                                                     71
                                                          F
                               Xanomeline Low Dose
240 CDISCPILOTO1 01-714-1035
                                                          F
                                            Placebo
                                                     88
241 CDISCPILOTO1 01-714-1068
                              Xanomeline Low Dose
                                                     79
                                                          F
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242 CDISCPILOTO1 01-714-1195 Xanomeline Low Dose
                                                     75
                                                           M
243 CDISCPILOTO1 01-714-1288 Xanomeline High Dose
                                                     77
                                                          M
244 CDISCPILOT01 01-714-1375
                                            Placebo
                                                     78
                                                           F
245 CDISCPILOTO1 01-714-1425 Xanomeline High Dose
                                                     81
                                                           М
                               Xanomeline Low Dose
                                                           F
246 CDISCPILOTO1 01-715-1085
                                                     77
                               Xanomeline Low Dose
247 CDISCPILOTO1 01-715-1107
                                                     65
                                                           М
248 CDISCPILOT01 01-715-1134
                                    Screen Failure
                                                     50
                                                           F
249 CDISCPILOTO1 01-715-1155
                                            Placebo
                                                     59
                                                           F
250 CDISCPILOT01 01-715-1207
                                                           F
                                            Placebo
                                                     78
251 CDISCPILOT01 01-715-1225
                                    Screen Failure
                                                     77
                                                          F
252 CDISCPILOTO1 01-715-1319 Xanomeline High Dose
                                                     65
                                                           М
253 CDISCPILOTO1 01-715-1321 Xanomeline High Dose
                                                           F
254 CDISCPILOT01 01-715-1333
                                    Screen Failure
                                                     75
                                                           F
                                                           F
255 CDISCPILOT01 01-715-1397
                                            Placebo
                                                     76
256 CDISCPILOTO1 01-715-1405
                               Xanomeline Low Dose
                                                     69
                                                           М
257 CDISCPILOT01 01-715-1407
                                                           F
                                    Screen Failure
                                                     73
258 CDISCPILOT01 01-716-1003
                                    Screen Failure
                                                     79
                                                          M
259 CDISCPILOT01 01-716-1024
                                                     87
                                                           F
                                            Placebo
260 CDISCPILOT01 01-716-1026
                                                     73
                                                           F
                                            Placebo
261 CDISCPILOTO1 01-716-1030 Xanomeline High Dose
                                                           F
                                                     83
262 CDISCPILOTO1 01-716-1044
                                            Placebo
                                                     74
                                                           M
263 CDISCPILOTO1 01-716-1061
                                    Screen Failure
                                                     81
                                                           М
264 CDISCPILOTO1 01-716-1063
                               Xanomeline Low Dose
                                                     80
                                                           M
265 CDISCPILOTO1 01-716-1071 Xanomeline High Dose
                                                     78
                                                           F
266 CDISCPILOTO1 01-716-1094
                               Xanomeline Low Dose
                                                     82
                                                          Μ
267 CDISCPILOTO1 01-716-1103
                               Xanomeline Low Dose
                                                     79
                                                           Μ
268 CDISCPILOTO1 01-716-1108
                                                           F
                                            Placebo
                                                     86
                                                           F
269 CDISCPILOTO1 01-716-1151
                               Xanomeline Low Dose
                                                     83
270 CDISCPILOTO1 01-716-1157
                               Xanomeline Low Dose
                                                     85
                                                           М
271 CDISCPILOT01 01-716-1160
                                            Placebo
                                                     83
                                                           F
272 CDISCPILOT01 01-716-1167
                               Xanomeline Low Dose
                                                     68
                                                          M
273 CDISCPILOT01 01-716-1177
                                            Placebo
                                                     72
                                                          M
274 CDISCPILOTO1 01-716-1189 Xanomeline High Dose
                                                     81
                                                           M
275 CDISCPILOTO1 01-716-1229
                              Xanomeline High Dose
                                                     73
                                                           F
                                                           F
276 CDISCPILOTO1 01-716-1244
                                    Screen Failure
                                                     72
277 CDISCPILOTO1 01-716-1298
                               Xanomeline Low Dose
                                                     76
                                                           F
                                                           F
278 CDISCPILOT01 01-716-1305
                                    Screen Failure
                                                     73
279 CDISCPILOT01 01-716-1308
                                                          F
                                            Placebo
                                                     76
280 CDISCPILOTO1 01-716-1311
                               Xanomeline Low Dose
                                                     78
                                                          Μ
281 CDISCPILOTO1 01-716-1331
                                    Screen Failure
                                                     59
                                                          F
282 CDISCPILOTO1 01-716-1364 Xanomeline High Dose
                                                          F
                                                     84
283 CDISCPILOTO1 01-716-1373 Xanomeline High Dose
                                                     74
                                                           M
284 CDISCPILOTO1 01-716-1418 Xanomeline High Dose
                                                           F
```

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285 CDISCPILOTO1 01-716-1441
                                            Placebo
                                                     85
                                                           М
                                                           F
286 CDISCPILOTO1 01-716-1447 Xanomeline High Dose
                                                     72
287 CDISCPILOTO1 01-717-1004 Xanomeline Low Dose
                                                     80
                                                           F
288 CDISCPILOTO1 01-717-1109 Xanomeline High Dose
                                                     84
                                                           М
289 CDISCPILOTO1 01-717-1174 Xanomeline High Dose
                                                     73
                                                           М
290 CDISCPILOT01 01-717-1201
                                                           F
                                            Placebo
                                                     85
291 CDISCPILOTO1 01-717-1344
                                            Placebo
                                                     64
                                                           F
292 CDISCPILOTO1 01-717-1357 Xanomeline High Dose
                                                     77
                                                           Μ
293 CDISCPILOTO1 01-717-1446
                              Xanomeline Low Dose
                                                           F
                                                     75
                               Xanomeline Low Dose
294 CDISCPILOTO1 01-718-1066
                                                     79
                                                           F
                                                           F
295 CDISCPILOTO1 01-718-1079
                               Xanomeline Low Dose
                                                     67
296 CDISCPILOTO1 01-718-1101 Xanomeline High Dose
                                                     82
                                                           М
                                                     77
297 CDISCPILOTO1 01-718-1139
                                            Placebo
                                                           М
                                                     73
                                                           F
298 CDISCPILOT01 01-718-1150
                                            Placebo
299 CDISCPILOTO1 01-718-1170
                               Xanomeline Low Dose
                                                     80
                                                           F
300 CDISCPILOTO1 01-718-1172
                                            Placebo
                                                     74
                                                           М
301 CDISCPILOTO1 01-718-1250
                               Xanomeline Low Dose
                                                     82
                                                           F
302 CDISCPILOT01 01-718-1254
                               Xanomeline Low Dose
                                                     78
                                                           Μ
303 CDISCPILOT01 01-718-1328 Xanomeline High Dose
                                                     86
                                                           М
304 CDISCPILOT01 01-718-1355
                                            Placebo
                                                     79
                                                           Μ
305 CDISCPILOTO1 01-718-1371 Xanomeline High Dose
                                                     69
                                                           F
306 CDISCPILOTO1 01-718-1427 Xanomeline High Dose
                                 RACE
1
                                WHITE
2
                                WHITE
3
                                WHITE
4
                                WHITE
5
                                WHITE
6
                                WHITE
7
                                WHITE
8
                                WHITE
9
                                WHITE
10
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                                WHITE
11
12
                                WHITE
13
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14
                                WHITE
15
                                WHITE
16
                                WHITE
17
                                WHITE
18
                                WHITE
19
    AMERICAN INDIAN OR ALASKA NATIVE
20
                                WHITE
```

21			WHITE
22			WHITE
23			WHITE
24	BLACK OR	AFRICAN	AMERICAN
25			WHITE
26			WHITE
27			WHITE
28	BLACK OR	AFRICAN	AMERICAN
29	AMERICAN INDIAN	OR ALASH	KA NATIVE
30			WHITE
31			WHITE
32			WHITE
33			WHITE
34			WHITE
35			WHITE
36			WHITE
37			WHITE
38			WHITE
39			WHITE
40	BLACK OR	AFRICAN	AMERICAN
41			WHITE
42			WHITE
43			WHITE
44			WHITE
45			WHITE
46	BLACK OR	AFRICAN	AMERICAN
47			WHITE
48			WHITE
49			WHITE
50	BLACK OR	AFRICAN	AMERICAN
51			WHITE
52			WHITE
53			WHITE
54			WHITE
55			WHITE
56			WHITE
57			WHITE
58			WHITE
59			WHITE
60			WHITE
61	BLACK OR	AFRICAN	AMERICAN
62			WHITE
63			WHITE

0.4				
64				WHITE
65				WHITE
66				WHITE
67	BLACK			
68	BLACK	OR	AFRICAN	AMERICAN
69				ASIAN
70				WHITE
71				WHITE
72				WHITE
73				WHITE
74				WHITE
75				WHITE
76				WHITE
77				WHITE
78				WHITE
79				WHITE
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96				WHITE
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98				WHITE
99				WHITE
100				WHITE
101				WHITE
102				WHITE
103				WHITE
104				WHITE
105				WHITE
106				WHITE

107	BLACK	OR	AFRICAN	AMERICAN
108	BLACK	OR	AFRICAN	AMERICAN
109	${\tt BLACK}$	OR	AFRICAN	AMERICAN
110				WHITE
111				WHITE
112				WHITE
113	BLACK	OR	AFRICAN	AMERICAN
114				WHITE
115				WHITE
116				WHITE
117				WHITE
118	${\tt BLACK}$	OR	AFRICAN	AMERICAN
119				WHITE
120				WHITE
121				WHITE
122				WHITE
123				WHITE
124				WHITE
125				WHITE
126				WHITE
127				WHITE
128				WHITE
129	${\tt BLACK}$	OR	${\tt AFRICAN}$	AMERICAN
130				WHITE
131				WHITE
132				WHITE
133				ASIAN
134				WHITE
135				WHITE
136	${\tt BLACK}$	OR	${\tt AFRICAN}$	AMERICAN
137				WHITE
138				WHITE
139				WHITE
140				WHITE
141				WHITE
142				WHITE
143				WHITE
144	${\tt BLACK}$	OR	${\tt AFRICAN}$	AMERICAN
145	${\tt BLACK}$	OR	${\tt AFRICAN}$	AMERICAN
146				WHITE
147				WHITE
148				WHITE
149				WHITE

450				
150				WHITE
151				WHITE
152				WHITE
153	BLACK	OR	AFRICAN	
154				WHITE
155	BLACK	OR	AFRICAN	AMERICAN
156				WHITE
157				WHITE
158				WHITE
159				WHITE
160				WHITE
161				WHITE
162				WHITE
163				WHITE
164				WHITE
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175				WHITE
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177				WHITE
178				WHITE
179				WHITE
180				WHITE
181				WHITE
182				WHITE
183	BLACK	OR	AFRICAN	AMERICAN
184				WHITE
185				WHITE
186				WHITE
187				WHITE
188				WHITE
189				WHITE
190				WHITE
191				WHITE
192	BLACK	OR	AFRICAN	AMERICAN

193	BLACK	OR	AFRICAN	AMERICAN
194				WHITE
195				WHITE
196				WHITE
197				WHITE
198				WHITE
199				WHITE
200				WHITE
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215				WHITE
216				WHITE
217				WHITE
218				WHITE
219				WHITE
220				WHITE
221	BLACK	OR	AFRICAN	AMERICAN
222				WHITE
223	BLACK	OR	AFRICAN	AMERICAN
224				WHITE
225				WHITE
226				WHITE
227	BLACK	OR	AFRICAN	AMERICAN
228				WHITE
229				WHITE
230				WHITE
231				WHITE
232	BLACK	OR	AFRICAN	AMERICAN
233				WHITE
234				WHITE
235				WHITE

236				WHITE
237				WHITE
238				WHITE
239				WHITE
240				WHITE
241				WHITE
242				WHITE
243	BLACK	OR	AFRICAN	AMERICAN
244				WHITE
245				WHITE
246				WHITE
247				WHITE
248				WHITE
249				WHITE
250				WHITE
251				WHITE
252				WHITE
253				WHITE
254				WHITE
255				WHITE
256				WHITE
257				WHITE
258				WHITE
259				WHITE
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261				WHITE
262				WHITE
263				WHITE
264				WHITE
265				WHITE
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267				WHITE
268				WHITE
269				WHITE
270				WHITE
271				WHITE
272				WHITE
273				WHITE
274				WHITE
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276				WHITE
277				WHITE
278				WHITE

279				WHITE
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286				WHITE
287				WHITE
288				WHITE
289				WHITE
290				WHITE
291				WHITE
292				WHITE
293				WHITE
294				WHITE
295				WHITE
296	BLACK	OR	AFRICAN	AMERICAN
297				WHITE
298				WHITE
299				WHITE
300				WHITE
301				WHITE
302				WHITE
303				WHITE
304				WHITE
305				WHITE
306	BLACK	OR	AFRICAN	AMERICAN

We end up with a new data-frame including only the selected variables. Note here that we do not save the resulting data-frame at the moment.

There are also some helper functions to use within the select function of dplyr. starts\_with() ends\_with() num\_range(). They allow us to select multiple columns sharing a naming structure. num\_range() let's us select consecutively numbered columns, e.g.: num\_range("example", 1:4) would select the columns named: example1, example2, example3, example4.

We can try out starts\_with():

	USUBJID	TRT01P	TRT01A	TRTSDTM
1	01-701-1015	Placebo	Placebo	2014-01-02T00:00:00Z
2	01-701-1023	Placebo	Placebo	2012-08-05T00:00:00Z
3	01-701-1028	Xanomeline High Dose	Xanomeline High Dose	2013-07-19T00:00:00Z
4	01-701-1033	<del>~</del>	Xanomeline Low Dose	
5	01-701-1034		Xanomeline High Dose	
6	01-701-1047	Placebo		2013-02-12T00:00:00Z
7	01-701-1057	Screen Failure	Screen Failure	<na></na>
8	01-701-1097	Xanomeline Low Dose	Xanomeline Low Dose	2014-01-01T00:00:00Z
9	01-701-1111	Xanomeline Low Dose	Xanomeline Low Dose	2012-09-07T00:00:00Z
10	01-701-1115	Xanomeline Low Dose	Xanomeline Low Dose	2012-11-30T00:00:00Z
11	01-701-1118	Placebo	Placebo	2014-03-12T00:00:00Z
12	01-701-1130	Placebo	Placebo	2014-02-15T00:00:00Z
13	01-701-1133	Xanomeline High Dose	Xanomeline High Dose	2012-10-28T00:00:00Z
14	01-701-1145	Screen Failure	Screen Failure	<na></na>
15	01-701-1146	Xanomeline High Dose	Xanomeline High Dose	2013-05-20T00:00:00Z
16	01-701-1148	Xanomeline High Dose	Xanomeline High Dose	2013-08-23T00:00:00Z
17	01-701-1153	Placebo	Placebo	2013-09-23T00:00:00Z
18	01-701-1162	Screen Failure	Screen Failure	<na></na>
19	01-701-1176	Screen Failure	Screen Failure	<na></na>
20	01-701-1180	Xanomeline High Dose	${\tt Xanomeline\ High\ Dose}$	2013-02-12T00:00:00Z
21	01-701-1181	Xanomeline High Dose	Xanomeline Low Dose	2013-12-05T00:00:00Z
22	01-701-1188	Xanomeline Low Dose	Xanomeline Low Dose	2013-02-15T00:00:00Z
23	01-701-1192	Xanomeline Low Dose	Xanomeline Low Dose	2012-07-22T00:00:00Z
24	01-701-1203	Placebo	Placebo	2013-02-02T00:00:00Z
25	01-701-1211	Xanomeline Low Dose	Xanomeline Low Dose	2012-11-15T00:00:00Z
26	01-701-1234	Placebo	Placebo	2013-03-30T00:00:00Z
27	01-701-1239	Xanomeline High Dose	Xanomeline High Dose	2014-01-11T00:00:00Z
28	01-701-1240	Screen Failure	Screen Failure	<na></na>
29		<del>~</del>	Xanomeline High Dose	
30		<del>~</del>	Xanomeline High Dose	
31			Xanomeline Low Dose	
32	01-701-1302	Xanomeline High Dose	Xanomeline High Dose	2013-08-29T00:00:00Z
33	01-701-1307	Screen Failure	Screen Failure	<na></na>
34	01-701-1317	Xanomeline Low Dose	Xanomeline Low Dose	2014-05-22T00:00:00Z
35	01-701-1324	Xanomeline Low Dose	Xanomeline Low Dose	2012-10-02T00:00:00Z
36	01-701-1341	Xanomeline Low Dose	Xanomeline Low Dose	2013-01-05T00:00:00Z
37	01-701-1345	Placebo	Placebo	2013-10-08T00:00:00Z
38	01-701-1356	Screen Failure	Screen Failure	<na></na>
39		Xanomeline High Dose		2013-07-31T00:00:00Z
40	01-701-1363	Placebo	Placebo	2013-05-30T00:00:00Z
41	01-701-1369	Screen Failure	Screen Failure	<na></na>
42	01-701-1383	Xanomeline High Dose	Xanomeline High Dose	2013-02-04T00:00:00Z

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Screen Failure
                                           Screen Failure
43
  01-701-1386
                                                                           <NA>
    01-701-1387
                             Placebo
                                                   Placebo 2014-03-12T00:00:00Z
45
    01-701-1392
                             Placebo
                                                   Placebo 2012-10-28T00:00:00Z
    01-701-1411
46
                      Screen Failure
                                           Screen Failure
                                                                           <NA>
47
    01-701-1415
                             Placebo
                                                   Placebo 2013-09-23T00:00:00Z
    01-701-1429
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-03-19T00:00:00Z
49
    01-701-1440
                             Placebo
                                                   Placebo 2013-08-08T00:00:00Z
50
    01-701-1442
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-10-26T00:00:00Z
    01-701-1444 Xanomeline High Dose Xanomeline High Dose 2013-01-05T00:002
51
52
    01-702-1082
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-07-26T00:00:00Z
53
    01-703-1042
                             Placebo
                                                   Placebo 2013-03-02T00:00:00Z
    01-703-1076 Xanomeline High Dose Xanomeline High Dose 2013-10-25T00:002
54
                                      Xanomeline Low Dose 2012-09-02T00:00:00Z
                 Xanomeline Low Dose
55
    01-703-1086
56
    01-703-1096
                             Placebo
                                                   Placebo 2013-01-25T00:00:00Z
57
    01-703-1100
                             Placebo
                                                   Placebo 2013-03-13T00:00:00Z
                                      Xanomeline Low Dose 2013-02-20T00:00:00Z
58
    01-703-1119
                 Xanomeline Low Dose
59
    01-703-1175
                             Placebo
                                                   Placebo 2013-12-20T00:00:00Z
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-10-17T00:00:00Z
60
    01-703-1182
    01-703-1197
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-06-16T00:00:00Z
61
    01-703-1210
                                                   Placebo 2013-03-16T00:00:00Z
62
                             Placebo
    01-703-1258 Xanomeline High Dose Xanomeline High Dose 2012-07-20T00:002
    01-703-1279
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-05-13T00:00:00Z
64
    01-703-1295 Xanomeline High Dose Xanomeline High Dose 2013-11-21T00:00:00Z
65
66
   01-703-1299
                             Placebo
                                                   Placebo 2012-09-12T00:00:00Z
    01-703-1335 Xanomeline High Dose Xanomeline High Dose 2014-03-17T00:00:00Z
67
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-09-22T00:00:00Z
    01-703-1379
68
    01-703-1396
69
                      Screen Failure
                                           Screen Failure
                                                                           <NA>
70
    01-703-1403 Xanomeline High Dose
                                      Xanomeline Low Dose 2012-12-12T00:00:00Z
    01-703-1439 Xanomeline High Dose Xanomeline High Dose 2014-03-12T00:00Z
    01-704-1008 Xanomeline High Dose Xanomeline High Dose 2013-01-13T00:00:00Z
    01-704-1009
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-08-27T00:00:00Z
73
74
    01-704-1010
                             Placebo
                                                   Placebo 2014-02-21T00:00:00Z
75
    01-704-1017 Xanomeline High Dose Xanomeline High Dose 2013-10-06T00:00:00Z
    01-704-1025
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-09-27T00:00:00Z
    01-704-1065 Xanomeline High Dose Xanomeline High Dose 2013-10-24T00:00Z
77
    01-704-1074 Xanomeline High Dose Xanomeline High Dose 2014-01-22T00:00Z
79
    01-704-1093 Xanomeline High Dose Xanomeline High Dose 2013-03-15T00:002
    01-704-1114
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-01-23T00:00:00Z
80
81
    01-704-1120
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-12-02T00:00:00Z
    01-704-1127
                                                   Placebo 2013-10-02T00:00:00Z
82
                             Placebo
                                      Xanomeline Low Dose 2013-10-31T00:00:00Z
83
    01-704-1135
                 Xanomeline Low Dose
                                                   Placebo 2012-09-19T00:00:00Z
    01-704-1164
                             Placebo
84
   01-704-1218
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2012-11-19T00:00:00Z
```

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Placebo 2013-03-21T00:00:00Z
86
  01-704-1233
                             Placebo
    01-704-1241 Xanomeline High Dose Xanomeline High Dose 2013-08-25T00:00:00Z
87
                             Placebo
                                                   Placebo 2012-08-30T00:00:00Z
88
   01-704-1260
    01-704-1266 Xanomeline High Dose Xanomeline High Dose 2013-10-13T00:00:00Z
89
                Xanomeline Low Dose
                                     Xanomeline Low Dose 2013-07-08T00:00:00Z
90
    01-704-1323
                Xanomeline Low Dose
                                      Xanomeline Low Dose 2014-04-23T00:00:00Z
    01-704-1325
   01-704-1332 Xanomeline High Dose Xanomeline High Dose 2013-12-09T00:002
93
   01-704-1351
                             Placebo
                                                   Placebo 2013-10-12T00:00:00Z
94
   01-704-1388
                             Placebo
                                                  Placebo 2012-12-07T00:00:00Z
   01-704-1435
95
                             Placebo
                                                   Placebo 2012-11-17T00:00:00Z
   01-704-1445
                                                   Placebo 2014-05-11T00:00:00Z
96
                             Placebo
                      Screen Failure
97
    01-705-1011
                                            Screen Failure
                                                                           <NA>
                             Placebo
                                                   Placebo 2013-07-05T00:00:00Z
   01-705-1018
   01-705-1031
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-11-27T00:00:00Z
100 01-705-1058
                      Screen Failure
                                            Screen Failure
101 01-705-1059
                             Placebo
                                                   Placebo 2013-08-05T00:00:00Z
102 01-705-1112
                      Screen Failure
                                            Screen Failure
                                                                           <NA>
103 01-705-1186
                                                   Placebo 2014-01-08T00:00:00Z
                             Placebo
104 01-705-1199
                 Xanomeline Low Dose
                                      Xanomeline Low Dose 2013-09-16T00:00:00Z
105 01-705-1243
                      Screen Failure
                                            Screen Failure
                                                                           <NA>
106 01-705-1280 Xanomeline High Dose Xanomeline High Dose 2014-01-17T00:00:00Z
107 01-705-1281 Xanomeline High Dose Xanomeline High Dose 2013-11-28T00:002
108 01-705-1282
                             Placebo
                                                   Placebo 2012-12-26T00:00:00Z
109 01-705-1292
                Xanomeline Low Dose
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247	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Lo
248	WHITE	NOT	HISPANIC	OR	LATINO	Scrnfail
249	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
250	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
251	WHITE	NOT	HISPANIC	OR	LATINO	Scrnfail
252	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Hi
253	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Hi
254	WHITE	NOT	HISPANIC	OR	LATINO	Scrnfail
255	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
256	$\mathtt{WHITE}$	NOT	${\tt HISPANIC}$	OR	LATINO	Xan_Lo
257	WHITE	NOT	HISPANIC	OR	LATINO	Scrnfail
258	WHITE		HISPANIC	OR	LATINO	Scrnfail
259	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
260	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
261	$\mathtt{WHITE}$	NOT	HISPANIC	OR	LATINO	Xan_Hi
262	$\mathtt{WHITE}$	NOT	HISPANIC	OR	LATINO	Pbo
263	$\mathtt{WHITE}$	NOT	HISPANIC	OR	LATINO	${\tt Scrnfail}$
			HISPANIC			
265	$\mathtt{WHITE}$	NOT	HISPANIC	OR	LATINO	Xan_Hi
266	WHITE	NOT	${\tt HISPANIC}$	OR	LATINO	Xan_Lo
267			HISPANIC			_
268	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
269			HISPANIC			_
270	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Lo
271			HISPANIC			
272	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Lo
273			HISPANIC			
274			HISPANIC			_
275			HISPANIC			_
276			HISPANIC			
277	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Lo
278	WHITE	NOT	HISPANIC	OR	LATINO	Scrnfail
279	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
280			HISPANIC			Xan_Lo
281	WHITE	NOT	HISPANIC	OR	LATINO	Scrnfail
282			HISPANIC			Xan_Hi
283			HISPANIC			Xan_Hi
284	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Hi
285	WHITE	NOT	HISPANIC	OR	LATINO	Pbo
286			HISPANIC			Xan_Hi
287			HISPANIC			Xan_Lo
288			HISPANIC			Xan_Hi
289	WHITE	NOT	HISPANIC	OR	LATINO	Xan_Hi

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290
                                 WHITE NOT HISPANIC OR LATINO
                                                                     Pbo
                                 WHITE NOT HISPANIC OR LATINO
291
                                                                     Pbo
292
                                 WHITE NOT HISPANIC OR LATINO
                                                                  Xan_Hi
293
                                 WHITE NOT HISPANIC OR LATINO
                                                                  Xan Lo
                                 WHITE NOT HISPANIC OR LATINO
                                                                  Xan Lo
294
                                 WHITE NOT HISPANIC OR LATINO
                                                                  Xan Lo
295
296
           BLACK OR AFRICAN AMERICAN NOT HISPANIC OR LATINO
                                                                  Xan Hi
297
                                 WHITE NOT HISPANIC OR LATINO
                                                                     Pbo
                                 WHITE NOT HISPANIC OR LATINO
298
                                                                     Pbo
                                 WHITE NOT HISPANIC OR LATINO
299
                                                                  Xan_Lo
                                 WHITE NOT HISPANIC OR LATINO
300
                                                                     Pbo
                                           HISPANIC OR LATINO
301
                                 WHITE
                                                                  {\tt Xan\_Lo}
302
                                 WHITE
                                           HISPANIC OR LATINO
                                                                  Xan_Lo
                                 WHITE NOT HISPANIC OR LATINO
303
                                                                  Xan_Hi
304
                                 WHITE NOT HISPANIC OR LATINO
                                                                     Pbo
305
                                 WHITE NOT HISPANIC OR LATINO
                                                                  Xan_Hi
306
           BLACK OR AFRICAN AMERICAN NOT HISPANIC OR LATINO
                                                                  Xan_Hi
                      ARM ACTARMCD
                                                   ACTARM COUNTRY
                                                                        DMDTC DMDY
1
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                                                 Placebo
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2
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                                                              USA 2012-07-22
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                                                 Placebo
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3
    Xanomeline High Dose
                            Xan Hi Xanomeline High Dose
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4
     Xanomeline Low Dose
                            Xan Lo
                                    Xanomeline Low Dose
                                                              USA 2014-03-10
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                            Xan_Hi Xanomeline High Dose
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                               Pbo
                                                  Placebo
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7
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8
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                                     Xanomeline Low Dose
                                                              USA 2013-12-23
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     Xanomeline Low Dose
9
                            {\tt Xan\_Lo}
                                                              USA 2012-08-25
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                            {\tt Xan\_Lo}
                                     Xanomeline Low Dose
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11
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                                Pbo
                                                  Placebo
                                                              USA 2014-02-27
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                               Pbo
                                                  Placebo
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14
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                            Xan_Hi Xanomeline High Dose
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                                                              USA 2013-08-14
17
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                               Pbo
                                                 Placebo
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19
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                                                              USA 2012-09-30
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                            Xan Hi Xanomeline High Dose
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                                     Xanomeline Low Dose
21
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22
     Xanomeline Low Dose
                            Xan Lo
                                     Xanomeline Low Dose
                                                              USA 2013-02-03
                                                                               -12
23
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                                     Xanomeline Low Dose
                                                              USA 2012-07-08
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24
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                                                  Placebo
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25
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                                    Xanomeline Low Dose
                                                              USA 2012-10-30
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26
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29
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31
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                             Xan Hi Xanomeline High Dose
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                            Xan Lo
                                     Xanomeline Low Dose
                                                               USA 2012-09-16
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36
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                                     Xanomeline Low Dose
                                                               USA 2012-12-22
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37
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38
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39
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                             Xan_Lo
                                     Xanomeline Low Dose
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                                                  Placebo
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46
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47
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48
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49
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53
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56
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57
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                                                  Placebo
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59
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61
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                             Xan Lo
                                     Xanomeline Low Dose
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62
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                                Pbo
                                                  Placebo
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64
     Xanomeline Low Dose
                            Xan_Lo
                                     Xanomeline Low Dose
                                                               USA 2013-04-27
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    Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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66
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                                Pbo
                                                  Placebo
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67
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                                     Xanomeline Low Dose
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68
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69
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          Screen Failure Scrnfail
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70
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                            Xan_Hi Xanomeline High Dose
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71
72
                            Xan_Hi Xanomeline High Dose
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    Xanomeline High Dose
                                                               USA 2013-01-06
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73
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                            Xan Lo
                                     Xanomeline Low Dose
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74
                  Placebo
                                Pbo
                                                  Placebo
                                                               USA 2014-02-08
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75
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                            Xan Hi Xanomeline High Dose
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                                                                                -16
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76
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                            Xan Lo
                                     Xanomeline Low Dose
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77
    Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
                                                               USA 2013-10-17
78
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                            Xan_Hi Xanomeline High Dose
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79
    Xanomeline High Dose
                             Xan_Hi Xanomeline High Dose
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                                                               USA 2013-02-22
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80
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                             Xan_Lo
                                     Xanomeline Low Dose
                                                               USA 2013-01-09
                                     Xanomeline Low Dose
81
     Xanomeline Low Dose
                            {\tt Xan\_Lo}
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82
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                                Pbo
                                                  Placebo
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83
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                             Xan_Lo
                                     Xanomeline Low Dose
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84
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                                Pbo
                                                  Placebo
                                                               USA 2012-09-11
85
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                            Xan_Lo
                                     Xanomeline Low Dose
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86
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                                Pbo
                                                  Placebo
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                                                                                -13
87
    Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
                                                               USA 2013-08-14
                                                                                -11
88
                                Pbo
                                                                                 -7
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                                                  Placebo
                                                               USA 2012-08-23
89
    Xanomeline High Dose
                            Xan Hi Xanomeline High Dose
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90
     Xanomeline Low Dose
                            Xan Lo
                                     Xanomeline Low Dose
                                                               USA 2013-06-13
                                                                                -25
91
     Xanomeline Low Dose
                            Xan Lo
                                     Xanomeline Low Dose
                                                               USA 2014-04-16
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92
    Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
                                                               USA 2013-11-24
                                                                                -15
93
                                Pbo
                                                                                -16
                  Placebo
                                                  Placebo
                                                               USA 2013-09-26
94
                                Pbo
                                                               USA 2012-11-28
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                                                  Placebo
95
                  Placebo
                                Pbo
                                                  Placebo
                                                               USA 2012-11-01
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96
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                                Pbo
                                                  Placebo
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97
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                                          Screen Failure
                                                               USA 2013-09-01
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98
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                                Pbo
                                                  Placebo
                                                               USA 2013-06-30
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99
     Xanomeline Low Dose
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                             Xan_Lo
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100
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101
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                                Pbo
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102
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104
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                                     Xanomeline Low Dose
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105
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                                          Screen Failure
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106 Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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107 Xanomeline High Dose
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108
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109
                            Xan_Lo
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110 Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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111 Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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Pbo
112
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114 Xanomeline High Dose
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115
116
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117
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                                     Xanomeline Low Dose
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118
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                               Pbo
                                                  Placebo
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119 Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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120
     Xanomeline Low Dose
                            Xan Lo
                                     Xanomeline Low Dose
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121
     Xanomeline Low Dose
                            Xan Lo
                                     Xanomeline Low Dose
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122
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                                Pbo
                                                  Placebo
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123
                                          Screen Failure
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                                          Screen Failure
124
          Screen Failure Scrnfail
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125
          Screen Failure Scrnfail
                                          Screen Failure
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126
          Screen Failure Scrnfail
                                          Screen Failure
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127
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129
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130
          Screen Failure Scrnfail
                                          Screen Failure
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131
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                                     Xanomeline Low Dose
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132
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                                Pbo
                                                  Placebo
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133
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                                          Screen Failure
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134
                 Placebo
                               Pbo
                                                  Placebo
                                                              USA 2014-02-01
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135
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                               Pbo
                                                  Placebo
                                                              USA 2012-11-25
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136 Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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137
          Screen Failure Scrnfail
                                          Screen Failure
                                                              USA 2013-01-14
                                                                                 NA
138 Xanomeline High Dose
                            {\tt Xan\_Lo}
                                     Xanomeline Low Dose
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   Xanomeline High Dose
                            Xan_Hi Xanomeline High Dose
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140
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141
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142
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                               Pbo
                                                  Placebo
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143
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                            Xan_Lo
                                     Xanomeline Low Dose
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147
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                                Pbo
                                                  Placebo
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148 Xanomeline High Dose
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150 Xanomeline High Dose
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153
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154 Xanomeline High Dose
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155
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297	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
298	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
299	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
300	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
301	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
302	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
303	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
304	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
305	Y	White	NA	<na></na>	<na></na>	NA	<na></na>
306	Y	Non-white	NA	<na></na>	<na></na>	NA	<na></na>

## 4.2.2 filter

The filter function allows us to look at a subset of observations. As input, the function requires a logical vector and (of course) a data-frame. This time, we first save the reduced (selected) data-frame and use that as the first argument to filter.

```
selected_data <- select(ads1,
STUDYID,
USUBJID,
ARM,
AGE,
SEX,
RACE)
```

The logical vector is generally created within the function call and can use any of the following logic operators:

```
<
                  less than
<=
                  less than or equal to
                  greater than
                  greater than or equal to
>=
                  equal
1=
                  not equal
                  not x (negation)
!x
x \mid y
                  x OR y
х & у
                  x AND y
x %in% y
                  logical vector of length x with TRUE if element of x is in y
```

Within filter, we can chain logical vectors by separating them with a comma (,). Lets have a look at women that are 70 and older:

```
filter(selected_data,
    AGE >= 70,
    SEX == "F")
```

```
STUDYID
                     USUBJID
                                               ARM AGE SEX
1
   CDISCPILOTO1 01-701-1034 Xanomeline High Dose
                                                    77
                                                         F
2
   CDISCPILOTO1 01-701-1047
                                           Placebo
                                                         F
   CDISCPILOTO1 01-701-1111 Xanomeline Low Dose
                                                         F
3
                                                    81
4
   CDISCPILOTO1 01-701-1133 Xanomeline High Dose
                                                         F
5
   CDISCPILOTO1 01-701-1146 Xanomeline High Dose
                                                         F
```

```
CDISCPILOT01 01-701-1153
                                           Placebo
                                                    79
                                                         F
6
7
    CDISCPILOT01 01-701-1162
                                   Screen Failure
                                                    82
                                                         F
    CDISCPILOTO1 01-701-1181 Xanomeline High Dose
                                                    79
                                                         F
8
    CDISCPILOT01 01-701-1192
                              Xanomeline Low Dose
9
                                                    80
                                                         F
                                                         F
10
   CDISCPILOTO1 01-701-1203
                                           Placebo
                                                    81
11 CDISCPILOTO1 01-701-1211
                                                    76
                                                         F
                              Xanomeline Low Dose
12 CDISCPILOTO1 01-701-1307
                                    Screen Failure
                                                    80
                                                         F
13 CDISCPILOTO1 01-701-1363
                                           Placebo
                                                    81
                                                         F
14 CDISCPILOTO1 01-701-1383 Xanomeline High Dose
                                                    72
                                                         F
15 CDISCPILOTO1 01-701-1387
                                           Placebo
                                                    87
                                                         F
16 CDISCPILOTO1 01-701-1429
                              Xanomeline Low Dose
                                                    84
                                                         F
17 CDISCPILOTO1 01-702-1082
                                                         F
                              Xanomeline Low Dose
                                                    84
18 CDISCPILOTO1 01-703-1096
                                                         F
                                           Placebo
                                                    81
                                                         F
19 CDISCPILOTO1 01-703-1100
                                           Placebo
                                                    84
20 CDISCPILOTO1 01-703-1119
                              Xanomeline Low Dose
                                                    81
                                                         F
21 CDISCPILOTO1 01-703-1197
                              Xanomeline Low Dose
                                                    76
                                                         F
22 CDISCPILOTO1 01-703-1210
                                           Placebo
                                                    72
                                                         F
23 CDISCPILOTO1 01-703-1258 Xanomeline High Dose
                                                    78
                                                         F
24 CDISCPILOTO1 01-703-1279
                              Xanomeline Low Dose
                                                    72
                                                         F
25 CDISCPILOTO1 01-703-1295 Xanomeline High Dose
                                                    88
                                                         F
26 CDISCPILOTO1 01-703-1299
                                           Placebo
                                                    81
                                                         F
27 CDISCPILOTO1 01-703-1379
                              Xanomeline Low Dose
                                                    81
                                                         F
28 CDISCPILOTO1 01-703-1439 Xanomeline High Dose
                                                    76
                                                         F
   CDISCPILOTO1 01-704-1008 Xanomeline High Dose
29
                                                    76
                                                         F
30 CDISCPILOTO1 01-704-1025
                              Xanomeline Low Dose
                                                    81
                                                         F
   CDISCPILOTO1 01-704-1074 Xanomeline High Dose
                                                         F
31
                                                    80
32 CDISCPILOTO1 01-704-1120
                              Xanomeline Low Dose
                                                    71
                                                         F
33
   CDISCPILOTO1 01-704-1127
                                           Placebo
                                                    84
                                                         F
34 CDISCPILOTO1 01-704-1135
                                                    74
                                                         F
                              Xanomeline Low Dose
35 CDISCPILOTO1 01-704-1218
                              Xanomeline Low Dose
                                                         F
   CDISCPILOTO1 01-704-1233
                                                         F
36
                                           Placebo
                                                    87
37
   CDISCPILOTO1 01-704-1260
                                           Placebo
                                                    71
                                                         F
38 CDISCPILOTO1 01-705-1011
                                   Screen Failure
                                                    75
                                                         F
39 CDISCPILOTO1 01-705-1186
                                                         F
                                           Placebo
                                                    84
                                                         F
40
   CDISCPILOTO1 01-705-1243
                                   Screen Failure
                                                    70
41
   CDISCPILOTO1 01-705-1281 Xanomeline High Dose
                                                    73
                                                         F
                                                         F
42 CDISCPILOTO1 01-705-1282
                                           Placebo
                                                    70
   CDISCPILOTO1 01-705-1310 Xanomeline High Dose
                                                    74
                                                         F
44 CDISCPILOTO1 01-705-1349
                                           Placebo
                                                    86
                                                         F
45 CDISCPILOTO1 01-705-1393 Xanomeline Low Dose
                                                    84
                                                         F
46 CDISCPILOTO1 01-706-1384 Xanomeline Low Dose
                                                    74
                                                         F
                              Xanomeline Low Dose
                                                         F
47 CDISCPILOTO1 01-707-1037
                                                    72
48 CDISCPILOTO1 01-707-1276
                                   Screen Failure
                                                    72
                                                         F
```

```
49 CDISCPILOTO1 01-707-1430
                                   Screen Failure
                                                        F
                                                   81
                                                        F
50 CDISCPILOTO1 01-707-1434
                                   Screen Failure
                                                   76
51 CDISCPILOTO1 01-708-1054
                                   Screen Failure
                                                   73
                                                        F
52 CDISCPILOTO1 01-708-1084
                                                   73
                             Xanomeline Low Dose
                                                        F
                                                        F
53 CDISCPILOTO1 01-708-1087
                                          Placebo
                                                   74
54 CDISCPILOTO1 01-708-1104
                                                        F
                                   Screen Failure
                                                   78
55 CDISCPILOTO1 01-708-1158
                                          Placebo
                                                   81
                                                        F
56 CDISCPILOTO1 01-708-1171
                                          Placebo
                                                   77
                                                        F
57 CDISCPILOTO1 01-708-1178 Xanomeline High Dose
                                                   77
                                                        F
58 CDISCPILOTO1 01-708-1184
                                   Screen Failure
                                                   70
                                                        F
59 CDISCPILOTO1 01-708-1213 Xanomeline High Dose
                                                   76
                                                        F
60 CDISCPILOTO1 01-708-1236 Xanomeline High Dose
                                                        F
                                                   86
61 CDISCPILOTO1 01-708-1286
                                          Placebo
                                                   80
                                                        F
                                                   74
                                                        F
62 CDISCPILOTO1 01-708-1316
                                          Placebo
63 CDISCPILOTO1 01-708-1348 Xanomeline Low Dose
                                                   79
                                                        F
64 CDISCPILOTO1 01-708-1352
                                   Screen Failure
                                                   87
                                                        F
65
   CDISCPILOTO1 01-708-1353
                              Xanomeline Low Dose
                                                   87
                                                        F
66 CDISCPILOTO1 01-708-1406 Xanomeline High Dose
                                                   71
                                                        F
67 CDISCPILOTO1 01-708-1428
                              Xanomeline Low Dose
                                                   84
                                                        F
68 CDISCPILOTO1 01-709-1001
                                                   76
                                                        F
                                          Placebo
69 CDISCPILOTO1 01-709-1020
                              Xanomeline Low Dose
                                                   72
                                                        F
70 CDISCPILOTO1 01-709-1081
                              Xanomeline Low Dose
                                                   86
                                                        F
71 CDISCPILOTO1 01-709-1099 Xanomeline High Dose
                                                   79
                                                        F
72 CDISCPILOTO1 01-709-1102
                              Xanomeline Low Dose
                                                   71
                                                        F
73 CDISCPILOTO1 01-709-1168 Xanomeline High Dose
                                                   72
                                                        F
74 CDISCPILOTO1 01-709-1237
                                                        F
                                   Screen Failure
                                                   88
75 CDISCPILOTO1 01-709-1326 Xanomeline Low Dose
                                                   75
                                                        F
76 CDISCPILOTO1 01-710-1045
                              Xanomeline Low Dose
                                                   83
                                                        F
77 CDISCPILOTO1 01-710-1053 Xanomeline Low Dose
                                                   84
                                                        F
78 CDISCPILOTO1 01-710-1070 Xanomeline High Dose
                                                   85
                                                        F
79 CDISCPILOTO1 01-710-1077
                                                   76
                                                        F
                                          Placebo
80 CDISCPILOTO1 01-710-1078
                                          Placebo
                                                   81
                                                        F
81 CDISCPILOTO1 01-710-1083
                                          Placebo
                                                   89
                                                        F
82 CDISCPILOTO1 01-710-1137 Xanomeline High Dose
                                                   79
                                                        F
   CDISCPILOTO1 01-710-1142 Xanomeline High Dose
                                                        F
83
                                                   76
84
   CDISCPILOTO1 01-710-1149
                                   Screen Failure
                                                   79
                                                        F
                                                        F
85 CDISCPILOTO1 01-710-1166
                            Xanomeline Low Dose
                                                   81
   CDISCPILOTO1 01-710-1183
                                                   80
                                                        F
86
                                          Placebo
87 CDISCPILOTO1 01-710-1187 Xanomeline High Dose
                                                   78
                                                        F
88 CDISCPILOTO1 01-710-1257
                                   Screen Failure
                                                   85
                                                        F
89 CDISCPILOTO1 01-710-1270 Xanomeline Low Dose
                                                   83
                                                        F
                                                        F
90 CDISCPILOTO1 01-710-1271
                                          Placebo
                                                   86
   CDISCPILOTO1 01-710-1300 Xanomeline Low Dose
                                                   78
```

```
92 CDISCPILOTO1 01-710-1314
                                                     78
                                                          F
                                           Placebo
93
  CDISCPILOTO1 01-710-1315
                                           Placebo
                                                     83
                                                          F
   CDISCPILOT01 01-710-1368
                                                     88
                                                          F
                                           Placebo
95 CDISCPILOT01 01-710-1376
                                    Screen Failure
                                                     89
                                                          F
                                                          F
96 CDISCPILOTO1 01-710-1380
                                    Screen Failure
                                                     80
97
  CDISCPILOTO1 01-710-1443
                                    Screen Failure
                                                     88
                                                          F
   CDISCPILOTO1 01-711-1022
                                    Screen Failure
                                                     86
                                                          F
99
   CDISCPILOTO1 01-711-1143
                              Xanomeline Low Dose
                                                     76
                                                          F
100 CDISCPILOTO1 01-711-1163
                                    Screen Failure
                                                     74
                                                          F
101 CDISCPILOT01 01-711-1226
                                    Screen Failure
                                                     74
                                                          F
102 CDISCPILOT01 01-711-1283
                                                     75
                                                          F
                                    Screen Failure
103 CDISCPILOT01 01-711-1284
                                                          F
                                    Screen Failure
                                                     77
104 CDISCPILOT01 01-711-1433 Xanomeline High Dose
                                                          F
                                                     84
                               Xanomeline Low Dose
                                                          F
105 CDISCPILOTO1 01-713-1043
                                                     78
106 CDISCPILOTO1 01-713-1073
                               Xanomeline Low Dose
                                                     74
                                                          F
107 CDISCPILOT01 01-713-1209 Xanomeline High Dose
                                                     77
                                                          F
108 CDISCPILOT01 01-713-1448
                               Xanomeline Low Dose
                                                     71
                                                          F
109 CDISCPILOTO1 01-714-1035
                                                          F
                                           Placebo
                                                     88
110 CDISCPILOTO1 01-714-1068
                                                     79
                                                          F
                              Xanomeline Low Dose
111 CDISCPILOTO1 01-714-1375
                                                     78
                                                          F
                                           Placebo
112 CDISCPILOTO1 01-715-1085
                               Xanomeline Low Dose
                                                     77
                                                          F
113 CDISCPILOT01 01-715-1207
                                           Placebo
                                                     78
                                                          F
114 CDISCPILOTO1 01-715-1225
                                    Screen Failure
                                                     77
                                                          F
115 CDISCPILOTO1 01-715-1321 Xanomeline High Dose
                                                     75
                                                          F
116 CDISCPILOTO1 01-715-1333
                                    Screen Failure
                                                     75
                                                          F
                                                          F
117 CDISCPILOTO1 01-715-1397
                                                     76
                                           Placebo
118 CDISCPILOTO1 01-715-1407
                                                     73
                                                          F
                                    Screen Failure
119 CDISCPILOTO1 01-716-1024
                                           Placebo
                                                     87
                                                          F
                                                     73
120 CDISCPILOTO1 01-716-1026
                                           Placebo
                                                          F
121 CDISCPILOTO1 01-716-1030 Xanomeline High Dose
                                                          F
122 CDISCPILOTO1 01-716-1071 Xanomeline High Dose
                                                     78
                                                          F
123 CDISCPILOT01 01-716-1108
                                           Placebo
                                                     86
                                                          F
124 CDISCPILOTO1 01-716-1151
                              Xanomeline Low Dose
                                                     83
                                                          F
125 CDISCPILOTO1 01-716-1160
                                           Placebo
                                                     83
                                                          F
126 CDISCPILOTO1 01-716-1229 Xanomeline High Dose
                                                     73
                                                          F
127 CDISCPILOTO1 01-716-1244
                                    Screen Failure
                                                     72
                                                          F
128 CDISCPILOTO1 01-716-1298
                              Xanomeline Low Dose
                                                     76
                                                          F
129 CDISCPILOTO1 01-716-1305
                                    Screen Failure
                                                     73
                                                          F
130 CDISCPILOTO1 01-716-1308
                                           Placebo
                                                     76
                                                          F
131 CDISCPILOTO1 01-716-1364 Xanomeline High Dose
                                                     84
                                                          F
132 CDISCPILOTO1 01-716-1418 Xanomeline High Dose
                                                          F
                                                     80
133 CDISCPILOTO1 01-716-1447 Xanomeline High Dose
                                                     72
                                                          F
134 CDISCPILOTO1 01-717-1004 Xanomeline Low Dose
                                                     80
                                                          F
```

```
135 CDISCPILOTO1 01-717-1201
                                           Placebo
                                                    85
                                                          F
136 CDISCPILOTO1 01-717-1446 Xanomeline Low Dose
                                                    75
                                                          F
137 CDISCPILOTO1 01-718-1066 Xanomeline Low Dose
                                                    79
                                                          F
138 CDISCPILOTO1 01-718-1150
                                           Placebo
                                                    73
                                                          F
139 CDISCPILOTO1 01-718-1170 Xanomeline Low Dose
                                                          F
                                                    80
140 CDISCPILOTO1 01-718-1250 Xanomeline Low Dose
                                                    82
                                                          F
141 CDISCPILOTO1 01-718-1427 Xanomeline High Dose 74
                                                          F
                         RACE
1
                        WHITE
2
                        WHITE
3
                        WHITE
4
                        WHITE
5
                        WHITE
6
                        WHITE
7
                         WHITE
8
                        WHITE
9
                         WHITE
10
   BLACK OR AFRICAN AMERICAN
11
                        WHITE
12
                        WHITE
13
   BLACK OR AFRICAN AMERICAN
14
                         WHITE
15
                        WHITE
16
                        WHITE
17
                        WHITE
18
                        WHITE
19
                        WHITE
20
                         WHITE
21
   BLACK OR AFRICAN AMERICAN
22
                        WHITE
23
                         WHITE
24
                         WHITE
25
                         WHITE
26
                        WHITE
27
   BLACK OR AFRICAN AMERICAN
28
                         WHITE
29
                        WHITE
30
                        WHITE
31
                        WHITE
32
                        WHITE
33
                        WHITE
34
                        WHITE
35
                        WHITE
```

36				WHITE
37				WHITE
38				WHITE
39				WHITE
40				WHITE
41	BLACK	OR	AFRICAN	AMERICAN
42	BLACK	OR	AFRICAN	AMERICAN
43				WHITE
44				WHITE
45				WHITE
46				WHITE
47				WHITE
48				WHITE
49				WHITE
50				WHITE
51	BLACK	OR	AFRICAN	AMERICAN
52				WHITE
53				WHITE
54				ASIAN
55				WHITE
56				WHITE
57	BLACK	OR	AFRICAN	AMERICAN
58				WHITE
59				WHITE
60				WHITE
61	BLACK	OR	AFRICAN	AMERICAN
62				WHITE
63				WHITE
64				WHITE
65	BLACK	OR	AFRICAN	AMERICAN
66				WHITE
67				WHITE
68				WHITE
69				WHITE
70				WHITE
71				WHITE
72				WHITE
73				WHITE
74				WHITE
75				WHITE
76				WHITE
77				WHITE
78				WHITE

79				WHITE
80				WHITE
81				WHITE
82	BLACK	OR	AFRICAN	AMERICAN
83				WHITE
84				WHITE
85				WHITE
86				WHITE
87				WHITE
88				WHITE
89				WHITE
90				WHITE
91				WHITE
92				WHITE
93				WHITE
94				WHITE
95				WHITE
96				WHITE
97				WHITE
98				WHITE
99				WHITE
100	BLACK	OR	AFRICAN	AMERICAN
101				WHITE
102	BLACK	OR	AFRICAN	AMERICAN
103				WHITE
104				WHITE
105				WHITE
106	BLACK	OR	AFRICAN	AMERICAN
107				WHITE
108				WHITE
109				WHITE
110				WHITE
111				WHITE
112				WHITE
113				WHITE
114				WHITE
115				WHITE
116				WHITE
117				WHITE
118				WHITE
119				WHITE
120				WHITE
121				WHITE

```
122
                          WHITE
123
                          WHITE
124
                          WHITE
125
                          WHITE
126
                          WHITE
127
                          WHITE
128
                          WHITE
129
                          WHITE
130
                          WHITE
131
                          WHITE
                          WHITE
132
133
                          WHITE
134
                          WHITE
135
                          WHITE
136
                          WHITE
137
                          WHITE
138
                          WHITE
139
                          WHITE
140
                          WHITE
141 BLACK OR AFRICAN AMERICAN
```

Now we have a reduced data frame with female patients over 70. However, the nested call is not very intuitive to read. If any more functions get added to this code, it becomes even less readable. That is where the pipe operator (%>%) comes in.

i The pipe operator let us chain multiple dplyr commands, so we can always forward the previously filtered / selected / arranged dataframe and keep working with it. The pipe operator let's us write nested function calls in a sequential way. Traditionally, we start a new line after every pipe operator.

STUDYID USUBJID

ARM AGE SEX

```
CDISCPILOTO1 01-701-1034 Xanomeline High Dose
                                                         F
1
                                                    77
                                                         F
2
    CDISCPILOTO1 01-701-1047
                                           Placebo
                                                    85
3
    CDISCPILOTO1 01-701-1111 Xanomeline Low Dose
                                                    81
                                                         F
    CDISCPILOTO1 01-701-1133 Xanomeline High Dose
4
                                                    81
                                                         F
    CDISCPILOTO1 01-701-1146 Xanomeline High Dose
                                                         F
5
                                                    75
    CDISCPILOT01 01-701-1153
                                           Placebo
                                                         F
6
                                                    79
7
    CDISCPILOTO1 01-701-1162
                                    Screen Failure
                                                    82
                                                         F
8
    CDISCPILOTO1 01-701-1181 Xanomeline High Dose
                                                    79
                                                         F
                              Xanomeline Low Dose
9
    CDISCPILOTO1 01-701-1192
                                                    80
                                                         F
10 CDISCPILOTO1 01-701-1203
                                           Placebo
                                                    81
                                                         F
11
   CDISCPILOTO1 01-701-1211
                                                    76
                                                         F
                              Xanomeline Low Dose
                                                         F
12 CDISCPILOTO1 01-701-1307
                                    Screen Failure
                                                    80
   CDISCPILOTO1 01-701-1363
                                                    81
                                                         F
13
                                           Placebo
                                                    72
                                                         F
14 CDISCPILOTO1 01-701-1383 Xanomeline High Dose
15
   CDISCPILOTO1 01-701-1387
                                           Placebo
                                                    87
                                                         F
16 CDISCPILOTO1 01-701-1429
                              Xanomeline Low Dose
                                                         F
                                                    84
17
   CDISCPILOTO1 01-702-1082
                              Xanomeline Low Dose
                                                    84
                                                         F
18 CDISCPILOTO1 01-703-1096
                                                         F
                                           Placebo
                                                    81
19
   CDISCPILOTO1 01-703-1100
                                                         F
                                           Placebo
                                                    84
20 CDISCPILOTO1 01-703-1119
                              Xanomeline Low Dose
                                                    81
                                                         F
21
   CDISCPILOTO1 01-703-1197
                              Xanomeline Low Dose
                                                    76
                                                         F
22
   CDISCPILOTO1 01-703-1210
                                           Placebo
                                                    72
                                                         F
23 CDISCPILOTO1 01-703-1258 Xanomeline High Dose
                                                    78
                                                         F
   CDISCPILOTO1 01-703-1279
                              Xanomeline Low Dose
                                                    72
                                                         F
25 CDISCPILOTO1 01-703-1295 Xanomeline High Dose
                                                    88
                                                         F
                                                         F
26 CDISCPILOT01 01-703-1299
                                           Placebo
                                                    81
27
   CDISCPILOTO1 01-703-1379
                                                         F
                              Xanomeline Low Dose
                                                    81
                                                         F
28
   CDISCPILOTO1 01-703-1439 Xanomeline High Dose
                                                    76
29
   CDISCPILOTO1 01-704-1008 Xanomeline High Dose
                                                         F
                                                    76
  CDISCPILOTO1 01-704-1025
                              Xanomeline Low Dose
                                                    81
                                                         F
   CDISCPILOTO1 01-704-1074 Xanomeline High Dose
                                                         F
                                                    80
32 CDISCPILOTO1 01-704-1120 Xanomeline Low Dose
                                                    71
                                                         F
33
   CDISCPILOTO1 01-704-1127
                                           Placebo
                                                    84
                                                         F
34 CDISCPILOTO1 01-704-1135
                                                    74
                                                         F
                             Xanomeline Low Dose
                                                         F
35
   CDISCPILOTO1 01-704-1218
                              Xanomeline Low Dose
                                                    81
36 CDISCPILOTO1 01-704-1233
                                           Placebo
                                                    87
                                                         F
                                                         F
37
  CDISCPILOTO1 01-704-1260
                                           Placebo
                                                    71
   CDISCPILOTO1 01-705-1011
                                    Screen Failure
                                                    75
                                                         F
38
                                                         F
39 CDISCPILOTO1 01-705-1186
                                           Placebo
                                                    84
40 CDISCPILOTO1 01-705-1243
                                    Screen Failure
                                                    70
                                                         F
41 CDISCPILOTO1 01-705-1281 Xanomeline High Dose
                                                         F
                                                    73
                                                         F
42 CDISCPILOTO1 01-705-1282
                                                    70
                                           Placebo
43 CDISCPILOTO1 01-705-1310 Xanomeline High Dose
                                                         F
```

```
CDISCPILOTO1 01-705-1349
                                          Placebo
                                                        F
                                                   86
                                                        F
45
  CDISCPILOTO1 01-705-1393 Xanomeline Low Dose
                                                   84
46 CDISCPILOTO1 01-706-1384
                              Xanomeline Low Dose
                                                   74
                                                        F
47 CDISCPILOTO1 01-707-1037
                              Xanomeline Low Dose
                                                   72
                                                        F
                                                        F
48
   CDISCPILOTO1 01-707-1276
                                   Screen Failure
                                                   72
   CDISCPILOTO1 01-707-1430
                                                        F
49
                                   Screen Failure
                                                   81
   CDISCPILOTO1 01-707-1434
                                   Screen Failure
                                                   76
                                                        F
51
   CDISCPILOTO1 01-708-1054
                                   Screen Failure
                                                   73
                                                        F
52 CDISCPILOTO1 01-708-1084
                              Xanomeline Low Dose
                                                   73
                                                        F
53
   CDISCPILOTO1 01-708-1087
                                          Placebo
                                                   74
                                                        F
54 CDISCPILOTO1 01-708-1104
                                                   78
                                                        F
                                   Screen Failure
   CDISCPILOT01 01-708-1158
                                                        F
55
                                          Placebo
                                                   81
                                                   77
56 CDISCPILOTO1 01-708-1171
                                                        F
                                          Placebo
                                                   77
                                                        F
57
   CDISCPILOTO1 01-708-1178 Xanomeline High Dose
   CDISCPILOTO1 01-708-1184
                                   Screen Failure
                                                   70
                                                        F
  CDISCPILOTO1 01-708-1213 Xanomeline High Dose
                                                   76
                                                        F
60
   CDISCPILOTO1 01-708-1236 Xanomeline High Dose
                                                   86
                                                        F
61
   CDISCPILOT01 01-708-1286
                                                   80
                                                        F
                                          Placebo
62 CDISCPILOTO1 01-708-1316
                                                   74
                                                        F
                                          Placebo
63 CDISCPILOTO1 01-708-1348 Xanomeline Low Dose
                                                   79
                                                        F
64 CDISCPILOTO1 01-708-1352
                                   Screen Failure
                                                   87
                                                        F
65 CDISCPILOTO1 01-708-1353 Xanomeline Low Dose
                                                   87
                                                        F
66 CDISCPILOTO1 01-708-1406 Xanomeline High Dose
                                                   71
                                                        F
   CDISCPILOT01 01-708-1428
                              Xanomeline Low Dose
                                                        F
67
                                                   84
68 CDISCPILOTO1 01-709-1001
                                          Placebo
                                                   76
                                                        F
69 CDISCPILOTO1 01-709-1020
                                                   72
                                                        F
                              Xanomeline Low Dose
70 CDISCPILOTO1 01-709-1081
                              Xanomeline Low Dose
                                                        F
                                                   86
71 CDISCPILOTO1 01-709-1099 Xanomeline High Dose
                                                   79
                                                        F
72 CDISCPILOTO1 01-709-1102
                              Xanomeline Low Dose
                                                   71
                                                        F
73 CDISCPILOTO1 01-709-1168 Xanomeline High Dose
                                                   72
                                                        F
74 CDISCPILOTO1 01-709-1237
                                   Screen Failure
                                                        F
                                                   88
75 CDISCPILOTO1 01-709-1326 Xanomeline Low Dose
                                                   75
                                                        F
76 CDISCPILOTO1 01-710-1045
                              Xanomeline Low Dose
                                                   83
                                                        F
77 CDISCPILOTO1 01-710-1053
                              Xanomeline Low Dose
                                                        F
                                                   84
78 CDISCPILOTO1 01-710-1070 Xanomeline High Dose
                                                        F
                                                   85
79 CDISCPILOTO1 01-710-1077
                                          Placebo
                                                   76
                                                        F
                                                        F
80 CDISCPILOTO1 01-710-1078
                                          Placebo
                                                   81
81 CDISCPILOTO1 01-710-1083
                                          Placebo
                                                   89
                                                        F
82 CDISCPILOTO1 01-710-1137 Xanomeline High Dose
                                                   79
                                                        F
83 CDISCPILOTO1 01-710-1142 Xanomeline High Dose
                                                   76
                                                        F
84 CDISCPILOTO1 01-710-1149
                                                   79
                                                        F
                                   Screen Failure
                                                        F
   CDISCPILOTO1 01-710-1166
                             Xanomeline Low Dose
85
                                                   81
   CDISCPILOT01 01-710-1183
                                          Placebo
                                                   80
                                                        F
```

```
CDISCPILOTO1 01-710-1187 Xanomeline High Dose
                                                           F
                                                     78
                                                           F
88
   CDISCPILOTO1 01-710-1257
                                    Screen Failure
                                                     85
89
   CDISCPILOTO1 01-710-1270
                               Xanomeline Low Dose
                                                     83
                                                           F
   CDISCPILOTO1 01-710-1271
90
                                            Placebo
                                                     86
                                                           F
                                                           F
91
   CDISCPILOTO1 01-710-1300
                               Xanomeline Low Dose
                                                     78
92
   CDISCPILOTO1 01-710-1314
                                            Placebo
                                                     78
                                                           F
93
   CDISCPILOTO1 01-710-1315
                                            Placebo
                                                     83
                                                           F
   CDISCPILOTO1 01-710-1368
                                            Placebo
                                                     88
                                                           F
95
  CDISCPILOTO1 01-710-1376
                                    Screen Failure
                                                     89
                                                           F
96
   CDISCPILOTO1 01-710-1380
                                    Screen Failure
                                                     80
                                                           F
97
   CDISCPILOTO1 01-710-1443
                                                           F
                                    Screen Failure
                                                     88
                                                           F
98
   CDISCPILOTO1 01-711-1022
                                    Screen Failure
                                                     86
   CDISCPILOTO1 01-711-1143
                               Xanomeline Low Dose
                                                     76
                                                           F
                                                           F
100 CDISCPILOTO1 01-711-1163
                                    Screen Failure
                                                     74
101 CDISCPILOT01 01-711-1226
                                    Screen Failure
                                                     74
                                                           F
                                    Screen Failure
102 CDISCPILOT01 01-711-1283
                                                     75
                                                           F
103 CDISCPILOT01 01-711-1284
                                    Screen Failure
                                                     77
                                                           F
104 CDISCPILOT01 01-711-1433 Xanomeline High Dose
                                                           F
                                                     84
105 CDISCPILOT01 01-713-1043
                               Xanomeline Low Dose
                                                     78
                                                           F
106 CDISCPILOTO1 01-713-1073
                               Xanomeline Low Dose
                                                     74
                                                           F
107 CDISCPILOT01 01-713-1209 Xanomeline High Dose
                                                     77
                                                           F
108 CDISCPILOT01 01-713-1448
                               Xanomeline Low Dose
                                                     71
                                                           F
109 CDISCPILOT01 01-714-1035
                                            Placebo
                                                     88
                                                           F
110 CDISCPILOTO1 01-714-1068
                               Xanomeline Low Dose
                                                     79
                                                           F
111 CDISCPILOTO1 01-714-1375
                                                     78
                                                           F
                                            Placebo
                                                           F
112 CDISCPILOTO1 01-715-1085
                               Xanomeline Low Dose
                                                     77
113 CDISCPILOT01 01-715-1207
                                                           F
                                            Placebo
                                                     78
114 CDISCPILOTO1 01-715-1225
                                    Screen Failure
                                                     77
                                                           F
115 CDISCPILOTO1 01-715-1321 Xanomeline High Dose
                                                     75
                                                           F
116 CDISCPILOTO1 01-715-1333
                                    Screen Failure
                                                     75
                                                           F
117 CDISCPILOT01 01-715-1397
                                                     76
                                                           F
                                            Placebo
118 CDISCPILOT01 01-715-1407
                                    Screen Failure
                                                     73
                                                           F
119 CDISCPILOTO1 01-716-1024
                                            Placebo
                                                     87
                                                           F
120 CDISCPILOT01 01-716-1026
                                                     73
                                            Placebo
                                                           F
121 CDISCPILOTO1 01-716-1030 Xanomeline High Dose
                                                           F
                                                     83
122 CDISCPILOTO1 01-716-1071 Xanomeline High Dose
                                                     78
                                                           F
                                                           F
123 CDISCPILOT01 01-716-1108
                                            Placebo
                                                     86
124 CDISCPILOTO1 01-716-1151
                               Xanomeline Low Dose
                                                     83
                                                           F
125 CDISCPILOT01 01-716-1160
                                            Placebo
                                                     83
                                                          F
126 CDISCPILOTO1 01-716-1229 Xanomeline High Dose
                                                     73
                                                          F
127 CDISCPILOTO1 01-716-1244
                                    Screen Failure
                                                     72
                                                          F
                                                           F
128 CDISCPILOTO1 01-716-1298
                               Xanomeline Low Dose
                                                     76
129 CDISCPILOT01 01-716-1305
                                    Screen Failure
                                                     73
                                                           F
```

```
130 CDISCPILOTO1 01-716-1308
                                            Placebo
                                                     76
                                                          F
131 CDISCPILOTO1 01-716-1364 Xanomeline High Dose
                                                     84
                                                          F
132 CDISCPILOTO1 01-716-1418 Xanomeline High Dose
                                                     80
                                                          F
133 CDISCPILOTO1 01-716-1447 Xanomeline High Dose
                                                     72
                                                          F
134 CDISCPILOTO1 01-717-1004 Xanomeline Low Dose
                                                     80
                                                          F
135 CDISCPILOTO1 01-717-1201
                                            Placebo
                                                     85
                                                          F
136 CDISCPILOTO1 01-717-1446 Xanomeline Low Dose
                                                     75
                                                          F
137 CDISCPILOTO1 01-718-1066 Xanomeline Low Dose
                                                     79
                                                          F
138 CDISCPILOTO1 01-718-1150
                                           Placebo
                                                     73
                                                          F
139 CDISCPILOTO1 01-718-1170 Xanomeline Low Dose
                                                     80
                                                          F
140 CDISCPILOTO1 01-718-1250 Xanomeline Low Dose
                                                          F
                                                     82
141 CDISCPILOTO1 01-718-1427 Xanomeline High Dose
                                                          F
                          RACE
1
                         WHITE
2
                         WHITE
3
                         WHITE
4
                         WHITE
5
                         WHITE
6
                         WHITE
7
                         WHITE
8
                         WHITE
9
                         WHITE
10
   BLACK OR AFRICAN AMERICAN
                         WHITE
11
12
                         WHITE
13
   BLACK OR AFRICAN AMERICAN
14
                         WHITE
15
                         WHITE
16
                         WHITE
17
                         WHITE
18
                         WHITE
19
                         WHITE
20
                         WHITE
21
   BLACK OR AFRICAN AMERICAN
22
                         WHITE
23
                         WHITE
24
                         WHITE
25
                         WHITE
26
                         WHITE
   BLACK OR AFRICAN AMERICAN
27
28
                         WHITE
29
                         WHITE
30
                         WHITE
```

31				WHITE
32				WHITE
33				WHITE
34				WHITE
35				WHITE
36				WHITE
37				WHITE
38				WHITE
39				WHITE
40				WHITE
41	BLACK	OR	AFRICAN	AMERICAN
42	BLACK	OR	AFRICAN	AMERICAN
43				WHITE
44				WHITE
45				WHITE
46				WHITE
47				WHITE
48				WHITE
49				WHITE
50				WHITE
51	BLACK	OR	AFRICAN	AMERICAN
52				WHITE
53				WHITE
54				ASIAN
55				WHITE
56				WHITE
57	BI.ACK	OR.	AFRICAN	AMERICAN
58		011		WHITE
59				WHITE
60				WHITE
61	BI.ACK	ΩR.	AFRICAN	AMERICAN
62	22	010		WHITE
63				WHITE
64				WHITE
65	BI.ACK	ΠR	AFRICAN	AMERICAN
66	DEMON	010	111 101 01111	WHITE
67				WHITE
68				WHITE
69				WHITE
70				WHITE
71				WHITE
72				WHITE
73				WHITE
13				MUTIE

74				WHITE
75				WHITE
76				WHITE
77				WHITE
78				WHITE
79				WHITE
80				WHITE
81				WHITE
82	BLACK	OR	AFRICAN	AMERICAN
83				WHITE
84				WHITE
85				WHITE
86				WHITE
87				WHITE
88				WHITE
89				WHITE
90				WHITE
91				WHITE
92				WHITE
93				WHITE
94				WHITE
95				WHITE
96				WHITE
97				WHITE
98				WHITE
99				WHITE
	BI ACK	ΠR	AFRICAN	AMERICAN
101	DEMON	010	111 101 01111	WHITE
	BI ACK	ΠR	AFRICAN	AMERICAN
103	DLAGI	UIT	ALICIOAN	WHITE
103				WHITE
105				WHITE
	BI ACK	ΠR	A FRICAN	AMERICAN
107	DLAGI	UIT	ALICIOAN	WHITE
108				WHITE
109				WHITE
110				WHITE
111				WHITE
				WHITE
112				
<ul><li>113</li><li>114</li></ul>				WHITE
				WHITE
115				WHITE
116				WHITE

117				WHITE
118				WHITE
119				WHITE
120				WHITE
121				WHITE
122				WHITE
123				WHITE
124				WHITE
125				WHITE
126				WHITE
127				WHITE
128				WHITE
129				WHITE
130				WHITE
131				WHITE
132				WHITE
133				WHITE
134				WHITE
135				WHITE
136				WHITE
137				WHITE
138				WHITE
139				WHITE
140				WHITE
141	${\tt BLACK}$	OR	AFRICAN	AMERICAN

There is another inline operator which can be very useful within the filter function; %in%. With this operator, we can select rows based on a prespecified vector of values. This can be useful if there are specified values (e.g., specific USUBJID) which we would like to look at.

```
# we save 4 USUBJID's in a vector:
lookup_ids <- c("01-716-1151", "01-710-1443", "01-708-1184", "01-705-1186")

# and then create a logical vector which returns TRUE for every entry in the
# USUBJID vector which are represented in the lookup_ids, and else FALSE
adsl$USUBJID %in% lookup_ids</pre>
```

- [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
- [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
- [25] FALSE FALSE
- [37] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE

```
[49] FALSE FALSE
     [61] FALSE FALSE
     [73] FALSE FALSE
     [85] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
     [97] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
 [109] FALSE FALSE
[121] FALSE FALSE
[133] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
[145] FALSE FALSE
[157] FALSE FALSE
[169] FALSE FALSE
[181] FALSE 
[193] FALSE FALSE
[205] FALSE 
[217] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
[229] FALSE FALSE
[241] FALSE FALSE
[253] FALSE 
[265] FALSE FALSE
[277] FALSE FALSE
[289] FALSE FALSE
[301] FALSE FALSE FALSE FALSE FALSE
```

```
# this approach can be used in the filter function:
adsl %>%
  select(STUDYID, USUBJID, ARM, AGE, SEX, RACE) %>%
  filter(USUBJID %in% lookup_ids)
```

```
STUDYID
                                           ARM AGE SEX RACE
                   USUBJID
1 CDISCPILOT01 01-705-1186
                                                84
                                                     F WHITE
                                       Placebo
2 CDISCPILOT01 01-708-1184
                                Screen Failure
                                                70
                                                     F WHITE
                                Screen Failure
3 CDISCPILOTO1 01-710-1443
                                                88
                                                     F WHITE
4 CDISCPILOTO1 01-716-1151 Xanomeline Low Dose 83
                                                      F WHITE
```

Note that within the filter function (and in all major dplyr functions) R looks for the requested variables first within the supplied data-frame and afterwards in the global environment.

## 4.2.3 arrange

We can sort the dataframe with the arrange() function. It allows the sorting based on multiple variables. Note that the order of arranging variables determines the sorting hierarchy, so in this example we first order by AGE and

	STUDYID	USUBJID	ARM	AGE	SEX
1	CDISCPILOT01	01-705-1282	Placebo	70	F
2	CDISCPILOT01	01-704-1260	Placebo	71	F
3	CDISCPILOT01	01-703-1210	Placebo	72	F
4	CDISCPILOT01	01-716-1026	Placebo	73	F
5	CDISCPILOT01	01-718-1150	Placebo	73	F
6	CDISCPILOT01	01-708-1087	Placebo	74	F
7	CDISCPILOT01	01-708-1316	Placebo	74	F
8	CDISCPILOT01	01-709-1001	Placebo	76	F
9	CDISCPILOT01	01-710-1077	Placebo	76	F
10	CDISCPILOT01	01-715-1397	Placebo	76	F
11	CDISCPILOT01	01-716-1308	Placebo	76	F
12	CDISCPILOT01	01-708-1171	Placebo	77	F
13	CDISCPILOT01	01-710-1314	Placebo	78	F
14	CDISCPILOT01	01-714-1375	Placebo	78	F
15	CDISCPILOT01	01-715-1207	Placebo	78	F
16	CDISCPILOT01	01-701-1153	Placebo	79	F
17	CDISCPILOT01	01-708-1286	Placebo	80	F
18	CDISCPILOT01	01-710-1183	Placebo	80	F
19	CDISCPILOT01	01-701-1203	Placebo	81	F
20	CDISCPILOT01	01-701-1363	Placebo	81	F
21	CDISCPILOT01	01-703-1096	Placebo	81	F
22	CDISCPILOT01	01-703-1299	Placebo	81	F
23	CDISCPILOT01	01-708-1158	Placebo	81	F
24	CDISCPILOT01	01-710-1078	Placebo	81	F
25	CDISCPILOT01	01-710-1315	Placebo	83	F
26	CDISCPILOT01	01-716-1160	Placebo	83	F
27	CDISCPILOT01	01-703-1100	Placebo	84	F
28	CDISCPILOT01	01-704-1127	Placebo	84	F
29	CDISCPILOT01	01-705-1186	Placebo	84	F

```
30 CDISCPILOTO1 01-701-1047
                                           Placebo
                                                         F
                                                    85
31
   CDISCPILOTO1 01-717-1201
                                           Placebo
                                                    85
                                                         F
32
   CDISCPILOTO1 01-705-1349
                                                    86
                                                         F
                                           Placebo
33 CDISCPILOT01 01-710-1271
                                           Placebo
                                                    86
                                                         F
                                                         F
34
   CDISCPILOTO1 01-716-1108
                                           Placebo
                                                    86
35
   CDISCPILOTO1 01-701-1387
                                           Placebo
                                                    87
                                                         F
   CDISCPILOTO1 01-704-1233
                                           Placebo
                                                    87
                                                         F
37
   CDISCPILOTO1 01-716-1024
                                           Placebo
                                                    87
                                                         F
38
  CDISCPILOTO1 01-710-1368
                                           Placebo
                                                    88
                                                         F
39
   CDISCPILOTO1 01-714-1035
                                           Placebo
                                                    88
                                                         F
40 CDISCPILOTO1 01-710-1083
                                                         F
                                           Placebo
                                                    89
   CDISCPILOTO1 01-705-1243
                                                         F
41
                                    Screen Failure
                                                    70
42
   CDISCPILOTO1 01-708-1184
                                    Screen Failure
                                                    70
                                                         F
                                                         F
43
   CDISCPILOTO1 01-707-1276
                                    Screen Failure
                                                    72
44
   CDISCPILOTO1 01-716-1244
                                    Screen Failure
                                                    72
                                                         F
   CDISCPILOTO1 01-708-1054
                                    Screen Failure
                                                    73
                                                         F
46
   CDISCPILOTO1 01-715-1407
                                    Screen Failure
                                                    73
                                                         F
47
   CDISCPILOTO1 01-716-1305
                                    Screen Failure
                                                    73
                                                         F
   CDISCPILOTO1 01-711-1163
                                    Screen Failure
                                                    74
                                                         F
48
   CDISCPILOTO1 01-711-1226
                                    Screen Failure
                                                    74
                                                         F
49
   CDISCPILOTO1 01-705-1011
50
                                    Screen Failure
                                                    75
                                                         F
51
   CDISCPILOTO1 01-711-1283
                                    Screen Failure
                                                    75
                                                         F
52 CDISCPILOTO1 01-715-1333
                                    Screen Failure
                                                    75
                                                         F
                                    Screen Failure
53
   CDISCPILOTO1 01-707-1434
                                                    76
                                                         F
54 CDISCPILOTO1 01-711-1284
                                    Screen Failure
                                                    77
                                                         F
                                                         F
55
   CDISCPILOTO1 01-715-1225
                                    Screen Failure
                                                    77
                                                         F
56 CDISCPILOTO1 01-708-1104
                                    Screen Failure
                                                    78
57
   CDISCPILOTO1 01-710-1149
                                    Screen Failure
                                                    79
                                                         F
58
   CDISCPILOTO1 01-701-1307
                                    Screen Failure
                                                    80
                                                         F
   CDISCPILOTO1 01-710-1380
                                    Screen Failure
                                                    80
                                                         F
   CDISCPILOTO1 01-707-1430
                                    Screen Failure
                                                         F
60
                                                    81
61
   CDISCPILOTO1 01-701-1162
                                    Screen Failure
                                                    82
                                                         F
62
   CDISCPILOTO1 01-710-1257
                                    Screen Failure
                                                    85
                                                         F
   CDISCPILOT01 01-711-1022
63
                                    Screen Failure
                                                    86
                                                         F
64
   CDISCPILOTO1 01-708-1352
                                    Screen Failure
                                                    87
                                                         F
65
   CDISCPILOTO1 01-709-1237
                                    Screen Failure
                                                    88
                                                         F
  CDISCPILOTO1 01-710-1443
                                    Screen Failure
                                                    88
                                                         F
   CDISCPILOTO1 01-710-1376
                                    Screen Failure
                                                    89
                                                         F
68 CDISCPILOTO1 01-708-1406 Xanomeline High Dose
                                                    71
                                                         F
69 CDISCPILOTO1 01-701-1383 Xanomeline High Dose
                                                    72
                                                         F
70 CDISCPILOTO1 01-709-1168 Xanomeline High Dose
                                                    72
                                                         F
71 CDISCPILOTO1 01-716-1447 Xanomeline High Dose
                                                         F
                                                    72
72 CDISCPILOTO1 01-705-1281 Xanomeline High Dose
                                                         F
```

```
F
73 CDISCPILOTO1 01-716-1229 Xanomeline High Dose
                                                     73
                                                     74
                                                          F
   CDISCPILOTO1 01-705-1310 Xanomeline High Dose
75
   CDISCPILOTO1 01-718-1427 Xanomeline High Dose
                                                     74
                                                          F
76
   CDISCPILOTO1 01-701-1146 Xanomeline High Dose
                                                     75
                                                          F
                                                          F
77
   CDISCPILOTO1 01-715-1321 Xanomeline High Dose
                                                     75
   CDISCPILOTO1 01-703-1439 Xanomeline High Dose
78
                                                     76
                                                          F
79
   CDISCPILOTO1 01-704-1008 Xanomeline High Dose
                                                     76
                                                          F
80
   CDISCPILOTO1 01-708-1213 Xanomeline High Dose
                                                     76
                                                          F
81
   CDISCPILOTO1 01-710-1142 Xanomeline High Dose
                                                     76
                                                          F
82
   CDISCPILOTO1 01-701-1034 Xanomeline High Dose
                                                     77
                                                          F
   CDISCPILOTO1 01-708-1178 Xanomeline High Dose
                                                     77
83
                                                          F
84
                                                     77
                                                          F
   CDISCPILOTO1 01-713-1209 Xanomeline High Dose
   CDISCPILOTO1 01-703-1258 Xanomeline High Dose
                                                     78
                                                          F
85
                                                          F
   CDISCPILOTO1 01-710-1187 Xanomeline High Dose
                                                     78
87
   CDISCPILOTO1 01-716-1071 Xanomeline High Dose
                                                     78
                                                          F
   CDISCPILOTO1 01-701-1181 Xanomeline High Dose
                                                     79
                                                          F
89
   CDISCPILOTO1 01-709-1099 Xanomeline High Dose
                                                     79
                                                          F
   CDISCPILOTO1 01-710-1137 Xanomeline High Dose
                                                     79
                                                          F
90
   CDISCPILOTO1 01-704-1074 Xanomeline High Dose
                                                          F
91
                                                     80
92
   CDISCPILOTO1 01-716-1418 Xanomeline High Dose
                                                     80
                                                          F
93
   CDISCPILOTO1 01-701-1133 Xanomeline High Dose
                                                     81
                                                          F
94
   CDISCPILOTO1 01-716-1030 Xanomeline High Dose
                                                     83
                                                          F
  CDISCPILOTO1 01-711-1433 Xanomeline High Dose
                                                     84
                                                          F
   CDISCPILOTO1 01-716-1364 Xanomeline High Dose
96
                                                     84
                                                          F
97
   CDISCPILOTO1 01-710-1070 Xanomeline High Dose
                                                          F
                                                     85
                                                          F
  CDISCPILOTO1 01-708-1236 Xanomeline High Dose
                                                     86
                                                          F
  CDISCPILOTO1 01-703-1295 Xanomeline High Dose
                                                     88
100 CDISCPILOTO1 01-704-1120
                               Xanomeline Low Dose
                                                     71
                                                          F
                                                     71
101 CDISCPILOTO1 01-709-1102
                               Xanomeline Low Dose
                                                          F
102 CDISCPILOT01 01-713-1448
                               Xanomeline Low Dose
                                                     71
                                                          F
                                                     72
                                                          F
103 CDISCPILOTO1 01-703-1279
                               Xanomeline Low Dose
104 CDISCPILOT01 01-707-1037
                               Xanomeline Low Dose
                                                     72
                                                          F
105 CDISCPILOTO1 01-709-1020
                               Xanomeline Low Dose
                                                     72
                                                          F
106 CDISCPILOTO1 01-708-1084
                               Xanomeline Low Dose
                                                     73
                                                          F
                                                          F
107 CDISCPILOTO1 01-704-1135
                               Xanomeline Low Dose
                                                     74
108 CDISCPILOTO1 01-706-1384
                               Xanomeline Low Dose
                                                     74
                                                          F
109 CDISCPILOTO1 01-713-1073
                               Xanomeline Low Dose
                                                     74
                                                          F
110 CDISCPILOTO1 01-709-1326
                               Xanomeline Low Dose
                                                     75
                                                          F
111 CDISCPILOTO1 01-717-1446
                               Xanomeline Low Dose
                                                     75
                                                          F
112 CDISCPILOTO1 01-701-1211
                               Xanomeline Low Dose
                                                     76
                                                          F
113 CDISCPILOT01 01-703-1197
                                                     76
                                                          F
                               Xanomeline Low Dose
                                                          F
114 CDISCPILOTO1 01-711-1143
                                                     76
                               Xanomeline Low Dose
115 CDISCPILOTO1 01-716-1298
                               Xanomeline Low Dose
                                                          F
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116 CDISCPILOTO1 01-715-1085
                               Xanomeline Low Dose
                                                     77
                                                          F
117 CDISCPILOTO1 01-710-1300
                               Xanomeline Low Dose
                                                     78
                                                          F
118 CDISCPILOTO1 01-713-1043
                               Xanomeline Low Dose
                                                     78
                                                          F
119 CDISCPILOTO1 01-708-1348
                               Xanomeline Low Dose
                                                     79
                                                          F
120 CDISCPILOTO1 01-714-1068
                               Xanomeline Low Dose
                                                          F
                                                     79
121 CDISCPILOTO1 01-718-1066
                               Xanomeline Low Dose
                                                     79
                                                          F
122 CDISCPILOTO1 01-701-1192
                               Xanomeline Low Dose
                                                     80
                                                          F
123 CDISCPILOTO1 01-717-1004
                               Xanomeline Low Dose
                                                     80
                                                          F
124 CDISCPILOTO1 01-718-1170
                               Xanomeline Low Dose
                                                     80
                                                          F
125 CDISCPILOTO1 01-701-1111
                               Xanomeline Low Dose
                                                     81
                                                          F
126 CDISCPILOTO1 01-703-1119
                               Xanomeline Low Dose
                                                          F
                                                     81
127 CDISCPILOTO1 01-703-1379
                               Xanomeline Low Dose
                                                          F
                                                     81
                               Xanomeline Low Dose
128 CDISCPILOTO1 01-704-1025
                                                          F
                                                     81
                               Xanomeline Low Dose
129 CDISCPILOTO1 01-704-1218
                                                     81
                                                          F
130 CDISCPILOTO1 01-710-1166
                               Xanomeline Low Dose
                                                     81
                                                          F
131 CDISCPILOTO1 01-718-1250
                               Xanomeline Low Dose
                                                          F
                                                     82
132 CDISCPILOTO1 01-710-1045
                               Xanomeline Low Dose
                                                     83
                                                          F
133 CDISCPILOTO1 01-710-1270
                               Xanomeline Low Dose
                                                     83
                                                          F
134 CDISCPILOTO1 01-716-1151
                               Xanomeline Low Dose
                                                          F
                                                     83
135 CDISCPILOTO1 01-701-1429
                               Xanomeline Low Dose
                                                     84
                                                          F
136 CDISCPILOTO1 01-702-1082
                               Xanomeline Low Dose
                                                     84
                                                          F
137 CDISCPILOTO1 01-705-1393
                               Xanomeline Low Dose
                                                     84
                                                          F
138 CDISCPILOTO1 01-708-1428
                               Xanomeline Low Dose
                                                     84
                                                          F
139 CDISCPILOTO1 01-710-1053
                               Xanomeline Low Dose
                                                     84
                                                          F
140 CDISCPILOTO1 01-709-1081
                               Xanomeline Low Dose
                                                     86
                                                          F
141 CDISCPILOTO1 01-708-1353
                               Xanomeline Low Dose
                                                     87
                                                          F
                          RACE
1
    BLACK OR AFRICAN AMERICAN
2
                         WHITE
3
                         WHITE
4
                         WHITE
5
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6
                         WHITE
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9
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11
12
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13
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14
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15
                         WHITE
```

WHITE

16

17	BLACK	OR	AFRICAN	AMERICAN
18				WHITE
19				AMERICAN
	BLACK	OR	AFRICAN	AMERICAN
21				WHITE
22				WHITE
23				WHITE
24				WHITE
25				WHITE
26				WHITE
27				WHITE
28				WHITE
29				WHITE
30				WHITE
31				WHITE
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34				WHITE
35				WHITE
36				WHITE
37				WHITE
38				WHITE
39				WHITE
40				WHITE
41				WHITE
42				WHITE
43				WHITE
44				WHITE
	מו ארע	ΠD	A ED T C A N	AMERICAN
46	DLACK	UIL	ALITTOAN	WHITE
47				WHITE
	DI ACIZ	ΩD	AFDTCAM	AMERICAN
	DLACK	UR	AFKICAN	
49				WHITE
50	DI AGIZ	OD	AEDIGAN	WHITE
51	BLACK	UK	AFRICAN	AMERICAN
52				WHITE
53				WHITE
54				WHITE
55				WHITE
56				ASIAN
57				WHITE
58				WHITE
59				WHITE

60				WHITE
61				WHITE
62				WHITE
63				WHITE
64				WHITE
65				WHITE
66				WHITE
67				WHITE
68				WHITE
69				WHITE
70				WHITE
71				WHITE
72	BLACK	OR	AFRICAN	AMERICAN
73				WHITE
74				WHITE
75	BLACK	OR	AFRICAN	AMERICAN
76				WHITE
77				WHITE
78				WHITE
79				WHITE
80				WHITE
81				WHITE
82				WHITE
83	BLACK	OR	AFRICAN	AMERICAN
84				WHITE
85				WHITE
86				WHITE
87				WHITE
88				WHITE
89				WHITE
90	BLACK	OR.	AFRICAN	AMERICAN
91		011		WHITE
92				WHITE
93				WHITE
94				WHITE
95				WHITE
96				WHITE
97				WHITE
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102				MIITIE

103				WHITE
104				WHITE
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106				WHITE
107				WHITE
108				WHITE
109	BLACK	OR	AFRICAN	AMERICAN
110				WHITE
111				WHITE
112				WHITE
113	BLACK	OR	AFRICAN	AMERICAN
114				WHITE
115				WHITE
116				WHITE
117				WHITE
118				WHITE
119				WHITE
120				WHITE
121				WHITE
122				WHITE
123				WHITE
124				WHITE
125				WHITE
126				WHITE
127	${\tt BLACK}$	OR	${\tt AFRICAN}$	AMERICAN
128				WHITE
129				WHITE
130				WHITE
131				WHITE
132				WHITE
133				WHITE
134				WHITE
135				WHITE
136				WHITE
137				WHITE
138				WHITE
139				WHITE
140				WHITE
141	BLACK	OR	AFRICAN	AMERICAN

To sort by descending order, we can use the helper function desc() within arrange():

	OTTIDUTD	HOUD ITD	ADM	ACE	arv
1	STUDYID CDISCPILOTO1	USUBJID		AGE 89	
1 2	CDISCPILOTO1		Placebo	88	F
_			Placebo		F
3	CDISCPILOTO1		Placebo	88	F
4	CDISCPILOTO1		Placebo	87	F
5	CDISCPILOTO1		Placebo	87	F
6	CDISCPILOTO1		Placebo		F
7	CDISCPILOTO1		Placebo	86	F
8	CDISCPILOTO1		Placebo	86	F
9	CDISCPILOT01		Placebo		F
10	CDISCPILOT01		Placebo		F
11	CDISCPILOT01		Placebo	85	F
12	CDISCPILOT01		Placebo	84	F
13	CDISCPILOT01		Placebo	84	F
14	CDISCPILOT01	01-705-1186	Placebo	84	F
15	CDISCPILOT01	01-710-1315	Placebo	83	F
16	CDISCPILOT01	01-716-1160	Placebo	83	F
17	CDISCPILOT01	01-701-1203	Placebo	81	F
18	CDISCPILOT01	01-701-1363	Placebo	81	F
19	CDISCPILOT01	01-703-1096	Placebo	81	F
20	CDISCPILOT01	01-703-1299	Placebo	81	F
21	CDISCPILOT01	01-708-1158	Placebo	81	F
22	CDISCPILOT01	01-710-1078	Placebo	81	F
23	CDISCPILOT01	01-708-1286	Placebo	80	F
24	CDISCPILOT01	01-710-1183	Placebo	80	F
25	CDISCPILOT01	01-701-1153	Placebo	79	F
26	CDISCPILOT01	01-710-1314	Placebo	78	F
27	CDISCPILOT01	01-714-1375	Placebo	78	F
28	CDISCPILOT01	01-715-1207	Placebo	78	F
29	CDISCPILOT01	01-708-1171	Placebo	77	F
30	CDISCPILOT01	01-709-1001	Placebo	76	F
31	CDISCPILOT01	01-710-1077	Placebo	76	F
32	CDISCPILOT01	01-715-1397	Placebo	76	F
33	CDISCPILOT01	01-716-1308	Placebo	76	F
34	CDISCPILOT01	01-708-1087	Placebo	74	F
35	CDISCPILOT01	01-708-1316	Placebo	74	F

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36 CDISCPILOTO1 01-716-1026
                                           Placebo
                                                    73
                                                         F
37
   CDISCPILOTO1 01-718-1150
                                           Placebo
                                                    73
                                                         F
38
   CDISCPILOTO1 01-703-1210
                                                    72
                                                         F
                                           Placebo
39
   CDISCPILOTO1 01-704-1260
                                                    71
                                           Placebo
                                                         F
                                                         F
40
   CDISCPILOTO1 01-705-1282
                                           Placebo
                                                    70
41
   CDISCPILOTO1 01-710-1376
                                    Screen Failure
                                                    89
                                                         F
   CDISCPILOTO1 01-709-1237
                                    Screen Failure
                                                    88
                                                         F
43
   CDISCPILOTO1 01-710-1443
                                    Screen Failure
                                                    88
                                                         F
  CDISCPILOTO1 01-708-1352
                                    Screen Failure
                                                    87
                                                         F
45
   CDISCPILOTO1 01-711-1022
                                    Screen Failure
                                                    86
                                                         F
46 CDISCPILOTO1 01-710-1257
                                    Screen Failure
                                                         F
                                                    85
                                                         F
47
   CDISCPILOTO1 01-701-1162
                                    Screen Failure
                                                    82
   CDISCPILOTO1 01-707-1430
                                                         F
48
                                    Screen Failure
                                                    81
                                                         F
49
   CDISCPILOT01 01-701-1307
                                    Screen Failure
                                                    80
   CDISCPILOTO1 01-710-1380
                                    Screen Failure
                                                    80
                                                         F
                                    Screen Failure
   CDISCPILOTO1 01-710-1149
                                                         F
                                                    79
52
   CDISCPILOTO1 01-708-1104
                                    Screen Failure
                                                    78
                                                         F
   CDISCPILOT01 01-711-1284
53
                                    Screen Failure
                                                    77
                                                         F
   CDISCPILOTO1 01-715-1225
                                    Screen Failure
                                                    77
                                                         F
54
   CDISCPILOTO1 01-707-1434
                                    Screen Failure
                                                    76
                                                         F
55
56
   CDISCPILOTO1 01-705-1011
                                    Screen Failure
                                                    75
                                                         F
57
   CDISCPILOTO1 01-711-1283
                                    Screen Failure
                                                    75
                                                         F
  CDISCPILOTO1 01-715-1333
                                    Screen Failure
                                                    75
                                                         F
59
   CDISCPILOTO1 01-711-1163
                                    Screen Failure
                                                    74
                                                         F
60 CDISCPILOTO1 01-711-1226
                                    Screen Failure
                                                    74
                                                         F
                                                         F
   CDISCPILOTO1 01-708-1054
                                    Screen Failure
                                                    73
61
                                                    73
                                                         F
62 CDISCPILOTO1 01-715-1407
                                    Screen Failure
   CDISCPILOTO1 01-716-1305
                                    Screen Failure
                                                    73
                                                         F
                                                    72
                                                         F
64
   CDISCPILOTO1 01-707-1276
                                    Screen Failure
   CDISCPILOTO1 01-716-1244
                                    Screen Failure
                                                    72
                                                         F
   CDISCPILOTO1 01-705-1243
                                    Screen Failure
                                                    70
                                                         F
66
67
   CDISCPILOTO1 01-708-1184
                                    Screen Failure
                                                    70
                                                         F
68
   CDISCPILOTO1 01-703-1295 Xanomeline High Dose
                                                    88
                                                         F
  CDISCPILOTO1 01-708-1236 Xanomeline High Dose
69
                                                    86
                                                         F
  CDISCPILOTO1 01-710-1070 Xanomeline High Dose
                                                         F
70
                                                    85
71 CDISCPILOTO1 01-711-1433 Xanomeline High Dose
                                                    84
                                                         F
72 CDISCPILOTO1 01-716-1364 Xanomeline High Dose
                                                         F
73 CDISCPILOTO1 01-716-1030 Xanomeline High Dose
                                                         F
                                                    83
74 CDISCPILOTO1 01-701-1133 Xanomeline High Dose
                                                         F
                                                    81
75 CDISCPILOTO1 01-704-1074 Xanomeline High Dose
                                                    80
                                                         F
76 CDISCPILOTO1 01-716-1418 Xanomeline High Dose
                                                         F
                                                    80
77 CDISCPILOTO1 01-701-1181 Xanomeline High Dose
                                                         F
                                                    79
78 CDISCPILOTO1 01-709-1099 Xanomeline High Dose
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F
   CDISCPILOTO1 01-710-1137 Xanomeline High Dose
                                                     79
                                                          F
80
   CDISCPILOTO1 01-703-1258 Xanomeline High Dose
                                                     78
   CDISCPILOTO1 01-710-1187 Xanomeline High Dose
                                                     78
                                                          F
81
   CDISCPILOTO1 01-716-1071 Xanomeline High Dose
                                                     78
82
                                                          F
                                                          F
83
   CDISCPILOTO1 01-701-1034 Xanomeline High Dose
                                                     77
   CDISCPILOTO1 01-708-1178 Xanomeline High Dose
                                                     77
                                                          F
84
   CDISCPILOTO1 01-713-1209 Xanomeline High Dose
                                                     77
                                                          F
86
   CDISCPILOTO1 01-703-1439 Xanomeline High Dose
                                                     76
                                                          F
   CDISCPILOTO1 01-704-1008 Xanomeline High Dose
87
                                                     76
                                                          F
88
   CDISCPILOTO1 01-708-1213 Xanomeline High Dose
                                                     76
                                                          F
89
   CDISCPILOTO1 01-710-1142 Xanomeline High Dose
                                                     76
                                                          F
   CDISCPILOTO1 01-701-1146 Xanomeline High Dose
                                                          F
90
                                                     75
   CDISCPILOTO1 01-715-1321 Xanomeline High Dose
                                                     75
                                                          F
91
   CDISCPILOTO1 01-705-1310 Xanomeline High Dose
                                                          F
                                                     74
93
   CDISCPILOTO1 01-718-1427 Xanomeline High Dose
                                                     74
                                                          F
   CDISCPILOTO1 01-705-1281 Xanomeline High Dose
                                                     73
                                                          F
95
   CDISCPILOTO1 01-716-1229 Xanomeline High Dose
                                                     73
                                                          F
   CDISCPILOTO1 01-701-1383 Xanomeline High Dose
                                                     72
                                                          F
96
   CDISCPILOTO1 01-709-1168 Xanomeline High Dose
                                                     72
                                                          F
97
   CDISCPILOTO1 01-716-1447 Xanomeline High Dose
                                                     72
                                                          F
98
   CDISCPILOTO1 01-708-1406 Xanomeline High Dose
                                                     71
                                                          F
100 CDISCPILOTO1 01-708-1353
                               Xanomeline Low Dose
                                                     87
                                                          F
101 CDISCPILOTO1 01-709-1081
                               Xanomeline Low Dose
                                                     86
                                                          F
102 CDISCPILOT01 01-701-1429
                               Xanomeline Low Dose
                                                     84
                                                          F
103 CDISCPILOTO1 01-702-1082
                              Xanomeline Low Dose
                                                          F
                                                     84
                                                          F
104 CDISCPILOT01 01-705-1393
                               Xanomeline Low Dose
                                                     84
                               Xanomeline Low Dose
                                                          F
105 CDISCPILOT01 01-708-1428
                                                     84
106 CDISCPILOTO1 01-710-1053
                               Xanomeline Low Dose
                                                     84
                                                          F
107 CDISCPILOTO1 01-710-1045
                               Xanomeline Low Dose
                                                     83
                                                          F
108 CDISCPILOT01 01-710-1270
                               Xanomeline Low Dose
                                                     83
                                                          F
                               Xanomeline Low Dose
                                                          F
109 CDISCPILOT01 01-716-1151
                                                     83
110 CDISCPILOTO1 01-718-1250
                               Xanomeline Low Dose
                                                     82
                                                          F
111 CDISCPILOT01 01-701-1111
                               Xanomeline Low Dose
                                                     81
                                                          F
112 CDISCPILOTO1 01-703-1119
                               Xanomeline Low Dose
                                                          F
                                                     81
                                                          F
113 CDISCPILOT01 01-703-1379
                               Xanomeline Low Dose
                                                     81
114 CDISCPILOTO1 01-704-1025
                               Xanomeline Low Dose
                                                     81
                                                          F
115 CDISCPILOTO1 01-704-1218
                               Xanomeline Low Dose
                                                     81
                                                          F
116 CDISCPILOTO1 01-710-1166
                               Xanomeline Low Dose
                                                          F
117 CDISCPILOTO1 01-701-1192
                               Xanomeline Low Dose
                                                     80
                                                          F
118 CDISCPILOTO1 01-717-1004
                               Xanomeline Low Dose
                                                     80
                                                          F
119 CDISCPILOT01 01-718-1170
                               Xanomeline Low Dose
                                                          F
                                                     80
120 CDISCPILOTO1 01-708-1348
                                                     79
                                                          F
                               Xanomeline Low Dose
121 CDISCPILOTO1 01-714-1068
                               Xanomeline Low Dose
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122 CDISCPILOTO1 01-718-1066
                              Xanomeline Low Dose
                                                     79
                                                          F
123 CDISCPILOTO1 01-710-1300
                              Xanomeline Low Dose
                                                     78
                                                          F
124 CDISCPILOTO1 01-713-1043
                               Xanomeline Low Dose
                                                     78
                                                          F
125 CDISCPILOTO1 01-715-1085
                               Xanomeline Low Dose
                                                     77
                                                          F
126 CDISCPILOTO1 01-701-1211
                               Xanomeline Low Dose
                                                          F
                                                     76
127 CDISCPILOTO1 01-703-1197
                               Xanomeline Low Dose
                                                          F
                                                     76
128 CDISCPILOTO1 01-711-1143
                               Xanomeline Low Dose
                                                     76
                                                          F
129 CDISCPILOTO1 01-716-1298
                               Xanomeline Low Dose
                                                     76
                                                          F
130 CDISCPILOTO1 01-709-1326
                               Xanomeline Low Dose
                                                     75
                                                          F
131 CDISCPILOTO1 01-717-1446
                               Xanomeline Low Dose
                                                     75
                                                          F
132 CDISCPILOTO1 01-704-1135
                               Xanomeline Low Dose
                                                     74
                                                          F
133 CDISCPILOTO1 01-706-1384
                               Xanomeline Low Dose
                                                     74
                                                          F
                               Xanomeline Low Dose
134 CDISCPILOTO1 01-713-1073
                                                     74
                                                          F
135 CDISCPILOTO1 01-708-1084
                               Xanomeline Low Dose
                                                     73
                                                          F
136 CDISCPILOTO1 01-703-1279
                               Xanomeline Low Dose
                                                     72
                                                          F
137 CDISCPILOTO1 01-707-1037
                               Xanomeline Low Dose
                                                     72
                                                          F
138 CDISCPILOTO1 01-709-1020
                               Xanomeline Low Dose
                                                     72
                                                          F
139 CDISCPILOTO1 01-704-1120
                               Xanomeline Low Dose
                                                     71
                                                          F
140 CDISCPILOTO1 01-709-1102
                               Xanomeline Low Dose
                                                     71
                                                          F
141 CDISCPILOTO1 01-713-1448 Xanomeline Low Dose
                                                     71
                                                          F
                          RACE
1
                         WHITE
2
                         WHITE
3
                         WHITE
4
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5
                         WHITE
6
                         WHITE
7
                         WHITE
8
                         WHITE
9
                         WHITE
                         WHITE
10
11
                         WHITE
12
                         WHITE
13
                         WHITE
14
                         WHITE
15
                         WHITE
16
                         WHITE
17
   BLACK OR AFRICAN AMERICAN
   BLACK OR AFRICAN AMERICAN
18
19
                         WHITE
20
                         WHITE
21
                         WHITE
22
                         WHITE
```

23	BLACK	OR	AFRICAN	AMERICAN
24				WHITE
25				WHITE
26				WHITE
27				WHITE
28				WHITE
29				WHITE
30				WHITE
31				WHITE
32				WHITE
33				WHITE
34				WHITE
35				WHITE
36				WHITE
37				WHITE
38				WHITE
39				WHITE
40	BLACK	OR	AFRICAN	AMERICAN
41				WHITE
42				WHITE
43				WHITE
44				WHITE
45				WHITE
46				WHITE
47				WHITE
48				WHITE
49				WHITE
50				WHITE
51				WHITE
52				ASIAN
53				WHITE
54				WHITE
55				WHITE
56				WHITE
57	BLACK	OR	AFRICAN	AMERICAN
58				WHITE
59	BLACK	OR	AFRICAN	AMERICAN
60				WHITE
61	BLACK	OR	AFRICAN	AMERICAN
62				WHITE
63				WHITE
64				WHITE
65				WHITE

66				WHITE
67				WHITE
68				WHITE
69				WHITE
70				WHITE
71				WHITE
72				WHITE
73				WHITE
74				WHITE
75				WHITE
76				WHITE
77				WHITE
78				WHITE
79	BLACK	OR	AFRICAN	AMERICAN
80				WHITE
81				WHITE
82				WHITE
83				WHITE
84	BLACK	OR	AFRICAN	AMERICAN
85				WHITE
86				WHITE
87				WHITE
88				WHITE
89				WHITE
90				WHITE
91				WHITE
92				WHITE
93	BLACK	OR.	AFRICAN	AMERICAN
94				AMERICAN
95				WHITE
96				WHITE
97				WHITE
98				WHITE
99				WHITE
	BI.ACK	ΩR.	AFRICAN	AMERICAN
101		011		WHITE
102				WHITE
103				WHITE
104				WHITE
105				WHITE
106				WHITE
107				WHITE
107				WHITE
100				MIITIE

109				WHITE
110				WHITE
111				WHITE
112				WHITE
113	BLACK	OR	AFRICAN	AMERICAN
114				WHITE
115				WHITE
116				WHITE
117				WHITE
118				WHITE
119				WHITE
120				WHITE
121				WHITE
122				WHITE
123				WHITE
124				WHITE
125				WHITE
126				WHITE
127	BLACK	OR	AFRICAN	AMERICAN
128				WHITE
129				WHITE
130				WHITE
131				WHITE
132				WHITE
133				WHITE
134	BLACK	OR	AFRICAN	AMERICAN
135				WHITE
136				WHITE
137				WHITE
138				WHITE
139				WHITE
140				WHITE
141				WHITE

# 5 dplyr exercises

Stefan Thoma

```
library("tidyverse")
-- Attaching packages ----- tidyverse 1.3.2 --
v ggplot2 3.3.6 v purrr
                         0.3.5
v tibble 3.1.8
               v dplyr 1.0.10
v tidyr 1.2.1
                v stringr 1.4.1
v readr 2.1.3
             v forcats 0.5.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag() masks stats::lag()
  # load data
  adsl <- haven::read_sas("data/adsl.sas7bdat") %>%
   mutate_if(is_character, na_if, "")
```

## 5.1 Data wrangling with dplyr

Load the adsl data-frame and select the following variables:

- USUBJID
- ARM
- SEX
- AGE
- AGEU
- AGEGR1

- COUNTRY
- EOSSTT

```
# we use starts_with("AGE") because we want to include every AGE variable that is in the o
 select(USUBJID, ARM, SEX, starts_with("AGE"), COUNTRY, EOSSTT)
```

```
# A tibble: 306 x 8
  USUBJID
               ARM
                                    SEX
                                             AGE AGEU AGEGR1 COUNTRY EOSSTT
                                    <chr> <dbl> <chr>
                                                        <dbl> <chr>
                                                                      <chr>
  <chr>
               <chr>>
1 01-701-1015 Placebo
                                             63 YEARS
                                                            2 USA
                                                                      COMPLETED
2 01-701-1023 Placebo
                                    Μ
                                             64 YEARS
                                                            2 USA
                                                                      DISCONTINU~
3 01-701-1028 Xanomeline High Dose M
                                             71 YEARS
                                                            3 USA
                                                                      COMPLETED
4 01-701-1033 Xanomeline Low Dose M
                                             74 YEARS
                                                            3 USA
                                                                      DISCONTINU~
5 01-701-1034 Xanomeline High Dose F
                                                            3 USA
                                             77 YEARS
                                                                      COMPLETED
6 01-701-1047 Placebo
                                    F
                                             85 YEARS
                                                            3 USA
                                                                      DISCONTINU~
7 01-701-1057 Screen Failure
                                    F
                                             59 YEARS
                                                            2 USA
                                                                      <NA>
8 01-701-1097 Xanomeline Low Dose M
                                             68 YEARS
                                                            3 USA
                                                                      COMPLETED
9 01-701-1111 Xanomeline Low Dose F
                                             81 YEARS
                                                            3 USA
                                                                      DISCONTINU~
10 01-701-1115 Xanomeline Low Dose M
                                             84 YEARS
                                                            3 USA
                                                                      DISCONTINU~
# ... with 296 more rows
```

On the selected variables, include only patients in the placebo arm who are 66, 77, 88, or 99 vears old.

```
# There are different ways to solve this. The best way to filter the AGE is to create a ve
  age_vec <- c(66, 77, 88, 99)
  # or
  age_vec <- 6:9 * 11
  # we can then use either the age_vec or the code that created the age_vec directly as a st
  adsl %>%
    select(USUBJID, SEX, ARM, EOSSTT, starts_with("AGE")) %>%
    filter(ARM == "Placebo",
           AGE %in% c(66, 77, 88, 99))
# A tibble: 5 x 7
```

USUBJID AGE AGEU AGEGR1 SEX ARM EOSSTT <chr> <chr> <chr> <chr> <dbl> <dbl> <dbl>

```
1 01-705-1059 F
                    Placebo DISCONTINUED
                                              66 YEARS
                                                             3
2 01-708-1171 F
                    Placebo COMPLETED
                                              77 YEARS
                                                            3
3 01-710-1368 F
                    Placebo COMPLETED
                                              88 YEARS
                                                            3
4 01-714-1035 F
                    Placebo COMPLETED
                                              88 YEARS
                                                            3
5 01-718-1139 M
                    Placebo COMPLETED
                                                             3
                                              77 YEARS
```

Further include the variable TRTSDTM (datetime of first exposure to treatment) and sort the previous data-frame according to this variable from most recent to least recent first exposure.

```
# A tibble: 5 x 8
 USUBJID
              SEX
                    ARM
                             EOSSTT
                                            AGE AGEU AGEGR1 TRTSDTM
  <chr>
              <chr> <chr>
                             <chr>
                                          <dbl> <chr>
                                                        <dbl> <dttm>
1 01-714-1035 F
                    Placebo COMPLETED
                                             88 YEARS
                                                            3 2014-04-17 00:00:00
2 01-710-1368 F
                    Placebo COMPLETED
                                             88 YEARS
                                                            3 2013-10-23 00:00:00
3 01-705-1059 F
                    Placebo DISCONTINUED
                                             66 YEARS
                                                            3 2013-08-05 00:00:00
4 01-718-1139 M
                    Placebo COMPLETED
                                                            3 2013-05-19 00:00:00
                                             77 YEARS
5 01-708-1171 F
                    Placebo COMPLETED
                                             77 YEARS
                                                            3 2012-12-06 00:00:00
```

Part III mutate

# 6 mutate

Creating New Columns Using mutate()

Thomas

```
library(dplyr)
library(lubridate)
dm <- readRDS("data/dm.rds")
ae <- readRDS("data/ae.rds")</pre>
```

The equivalent of creating a new variables in SAS inside a data step is to use the mutate() function. In the simplest case a static value is assigned to the new column.

```
adsl <- dm %>% mutate(DATASET = "ADSL")
```

This will set the value of the new variable DATASET to "ADSL" for all records.

```
DATASET
<chr>
1 ADSL
2 ADSL
3 ADSL
4 ADSL
5 ADSL
6 ADSL
7 ADSL
8 ADSL
9 ADSL
10 ADSL
# ... with 296 more rows
```

Note that new variables are always appended after existing columns such that DATASET is now the last column of adsl.

```
colnames(adsl)
```

```
[1] "STUDYID"
                 "DOMAIN"
                            "USUBJID"
                                        "SUBJID"
                                                    "RFSTDTC"
                                                                "RFENDTC"
 [7] "RFXSTDTC" "RFXENDTC" "RFICDTC"
                                        "RFPENDTC" "DTHDTC"
                                                                "DTHFL"
[13] "SITEID"
                 "AGE"
                            "AGEU"
                                        "SEX"
                                                    "RACE"
                                                                "ETHNIC"
[19] "ARMCD"
                 "ARM"
                            "ACTARMCD" "ACTARM"
                                                    "COUNTRY"
                                                                "DMDTC"
[25] "DMDY"
                 "DATASET"
```

Assigning the value of an existing column to a new column is the same as in SAS. The new column name goes to the left of = and the existing column to the right.

```
adsl <- adsl %>% mutate(TRTO1P = ARM)
adsl %>% select(ARM, TRTO1P)
```

```
# A tibble: 306 x 2
```

ARM TRT01P
<chr> <chr> 1 Placebo
 Placebo
 Placebo
 Placebo

- 3 Xanomeline High Dose Xanomeline High Dose 4 Xanomeline Low Dose Xanomeline Low Dose
- 5 Xanomeline High Dose Xanomeline High Dose
- 6 Placebo Placebo
- 7 Screen Failure Screen Failure
- 8 Xanomeline Low Dose Xanomeline Low Dose
- 9 Xanomeline Low Dose Xanomeline Low Dose
- 10 Xanomeline Low Dose Xanomeline Low Dose
- # ... with 296 more rows

In most cases new variables are created by applying functions on existing variables to somehow transform them.

```
adsl <- adsl %>% mutate(RFSTDT = ymd(RFSTDTC))
```

You can create multiple new variables inside mutate() similar to how you would do it inside a data step.

```
adae <- ae %>% mutate(
    ASTDT = ymd(AESTDTC),
    ASTDY = ASTDT - TRTSDT + 1
  adae %>% select(AESTDTC, ASTDT, TRTSDT, ASTDY)
# A tibble: 1,191 x 4
  AESTDTC
              ASTDT
                                    ASTDY
                         TRTSDT
   <chr>
              <date>
                         <date>
                                    <drtn>
 1 2014-01-03 2014-01-03 2014-01-02
                                     2 days
2 2014-01-03 2014-01-03 2014-01-02
                                     2 days
3 2014-01-09 2014-01-09 2014-01-02
                                     8 days
4 2012-08-26 2012-08-26 2012-08-05 22 days
5 2012-08-07 2012-08-07 2012-08-05
                                     3 days
6 2012-08-07 2012-08-07 2012-08-05
                                     3 days
7 2012-08-07 2012-08-07 2012-08-05
                                     3 days
8 2013-07-21 2013-07-21 2013-07-19 3 days
9 2013-08-08 2013-08-08 2013-07-19 21 days
10 2014-08-27 2014-08-27 2014-07-01 58 days
# ... with 1,181 more rows
```

Just like in SAS you can use conditional logic to assign different values to a new variable depending on which value another variable has using if\_else().

```
adae %>%
    mutate(ASTDY = if_else(ASTDT <= TRTSDT, ASTDT - TRTSDT, ASTDT - TRTSDT + 1)) %>%
    select(USUBJID, TRTSDT, ASTDT, ASTDY)
# A tibble: 1,191 x 4
   USUBJID
               TRTSDT
                          ASTDT
                                      ASTDY
   <chr>
               <date>
                          <date>
                                      <drtn>
 1 01-701-1015 2014-01-02 2014-01-03
                                      2 days
2 01-701-1015 2014-01-02 2014-01-03
3 01-701-1015 2014-01-02 2014-01-09
 4 01-701-1023 2012-08-05 2012-08-26 22 days
5 01-701-1023 2012-08-05 2012-08-07
                                      3 days
 6 01-701-1023 2012-08-05 2012-08-07
                                      3 days
7 01-701-1023 2012-08-05 2012-08-07
                                      3 days
8 01-701-1028 2013-07-19 2013-07-21
                                      3 days
9 01-701-1028 2013-07-19 2013-08-08 21 days
10 01-701-1034 2014-07-01 2014-08-27 58 days
```

```
# ... with 1,181 more rows
```

At this point let's make a small excursion to cover how R handles missing values, i.e. NA, when using conditional logic. Unlike in SAS where missing numbers are the smallest possible values such that . < 10 is true, in R any comparison involving NA returns NA as a result.

```
NA < 9
[1] NA
  NA == O
[1] NA
This is the same when using if_else().
  adsl$AGE[1] <- NA
  adsl %>%
    mutate(AGEGR = if_else(AGE >= 65, "Elderly", "Adult")) %>%
    select(USUBJID, AGE, AGEGR)
# A tibble: 306 x 3
   USUBJID
                  AGE AGEGR
                <int> <chr>
   <chr>>
 1 01-701-1015
                   NA <NA>
 2 01-701-1023
                   64 Adult
 3 01-701-1028
                   71 Elderly
 4 01-701-1033
                   74 Elderly
 5 01-701-1034
                   77 Elderly
 6 01-701-1047
                   85 Elderly
 7 01-701-1057
                   59 Adult
 8 01-701-1097
                   68 Elderly
```

To check whether a value is missing use the is.na() function.

81 Elderly

84 Elderly

```
is.na(NA)
```

9 01-701-1111

10 01-701-1115

# ... with 296 more rows

#### [1] TRUE

```
is.na("NA")
```

#### [1] FALSE

Finally, it's noteworthy that is are actually different types on NAs in R. We'll make use of them next.

Table 6.1: Types of 'NA' in R

Type	Example	Missing Value
character	"Brazil"	NA_character_
double	2.51	NA_real_
integer	1L	NA_integer_
logical	FALSE	NA

If the logic is more complex than a simple if\_else() than use case\_when() instead.

```
adsl %>%
  mutate(
    AGEGR1 = case_when(
        AGE < 18 ~ "<18",
        AGE < 45 ~ "<45",
        AGE < 65 ~ "<65",
        TRUE ~ ">=65"
    )
    ) %>%
  select(USUBJID, AGE, AGEGR1)
```

85 >=65

6 01-701-1047

```
7 01-701-1057 59 <65
8 01-701-1097 68 >=65
9 01-701-1111 81 >=65
10 01-701-1115 84 >=65
# ... with 296 more rows
```

The final condition TRUE is the is a catch all term and must be used with some caution. Notice what happened to the AGE of the first subject whose value we set to NA above.

To mitigate this you should either explicitly handle missing values as a separate condition or be explicit for all cases. The former would look something like this.

```
adsl %>%
    mutate(
      AGEGR1 = case_when(
         is.na(AGE) ~ NA_character_,
        AGE < 18 ~ "<18",
        AGE < 45 ~ "<45"
        AGE < 65 \sim "<65"
        TRUE ~ ">=65"
      )
    ) %>%
    select(USUBJID, AGE, AGEGR1)
# A tibble: 306 x 3
   USUBJID
                  AGE AGEGR1
   <chr>
               <int> <chr>
 1 01-701-1015
                  NA <NA>
2 01-701-1023
                  64 < 65
                  71 >=65
3 01-701-1028
4 01-701-1033
                  74 >=65
5 01-701-1034
                  77 >=65
6 01-701-1047
                  85 >=65
7 01-701-1057
                  59 < 65
8 01-701-1097
                  68 >=65
9 01-701-1111
                  81 >=65
10 01-701-1115
                  84 >=65
# ... with 296 more rows
```

And the latter like this.

```
adsl %>%
    mutate(
      AGEGR1 = case_when(
         AGE < 18 ~ "<18",
        AGE < 45 \sim "<45"
        AGE < 65 \sim "<65"
        AGE >= 65 \sim ">=65"
      )
    ) %>%
    select(USUBJID, AGE, AGEGR1)
# A tibble: 306 x 3
   USUBJID
                 AGE AGEGR1
   <chr>
               <int> <chr>
 1 01-701-1015
                  NA <NA>
2 01-701-1023
                  64 < 65
3 01-701-1028
                  71 >=65
4 01-701-1033
                  74 >=65
5 01-701-1034
                  77 >=65
6 01-701-1047
                  85 >=65
7 01-701-1057
                  59 < 65
8 01-701-1097
                  68 >=65
9 01-701-1111
                  81 >=65
10 01-701-1115
                  84 >=65
# ... with 296 more rows
```

Finally, note that when a value does not match any of the conditions given which may be the case when not using a final TRUE then it is assigned NA.

```
adsl %>%
  mutate(
    AGEGR1 = case_when(
        AGE < 18 ~ "<18",
        AGE < 45 ~ "<45",
        AGE < 65 ~ "<65"
        )
    ) %>%
    select(USUBJID, AGE, AGEGR1)

# A tibble: 306 x 3
    USUBJID        AGE AGEGR1
```

	<chr></chr>	<int></int>	<chr></chr>
1	01-701-1015	NA	<na></na>
2	01-701-1023	64	<65
3	01-701-1028	71	<na></na>
4	01-701-1033	74	<na></na>
5	01-701-1034	77	<na></na>
6	01-701-1047	85	<na></na>
7	01-701-1057	59	<65
8	01-701-1097	68	<na></na>
9	01-701-1111	81	<na></na>
10	01-701-1115	84	<na></na>
#	with 296	more r	cows

# 7 mutate() Exercises

Thomas Neitmann

```
library(dplyr)
library(lubridate)
dm <- readRDS("data/dm.rds")
ae <- readRDS("data/ae.rds")</pre>
```

#### 7.1 Exercise 1

A treatment emergent adverse event is defined as an adverse event whose start date is on or after the treatment start date (TRTSDT) and at the latest starts 7 days after the treatment end date (TRTEDT). Given this definition calculate TRTEMFL.

Hint: Turn the --DTC variables into proper dates first using the ymd() function.

```
ae %>%
  mutate(
    ASTDT = ymd(AESTDTC),
    AENDT = ymd(AEENDTC),
    TRTEMFL = if_else(ASTDT >= TRTSDT & ASTDT <= TRTEDT + 7, "Y", NA_character_)
) %>%
  select(USUBJID, ASTDT, AENDT, TRTSDT, TRTEDT, TRTEMFL)
```

Warning: 19 failed to parse.

```
# A tibble: 1,191 x 6
  USUBJID
              ASTDT
                          AENDT
                                     TRTSDT
                                                TRTEDT
                                                           TRTEMFL
   <chr>
              <date>
                         <date>
                                     <date>
                                                <date>
                                                           <chr>
1 01-701-1015 2014-01-03 NA
                                    2014-01-02 2014-07-02 Y
2 01-701-1015 2014-01-03 NA
                                     2014-01-02 2014-07-02 Y
```

```
3 01-701-1015 2014-01-09 2014-01-11 2014-01-02 2014-07-02 Y 4 01-701-1023 2012-08-26 NA 2012-08-05 2012-09-01 Y 5 01-701-1023 2012-08-07 2012-08-30 2012-08-05 2012-09-01 Y 6 01-701-1023 2012-08-07 NA 2012-08-05 2012-09-01 Y 7 01-701-1023 2012-08-07 2012-08-30 2012-08-05 2012-09-01 Y 8 01-701-1028 2013-07-21 NA 2013-07-19 2014-01-14 Y 9 01-701-1028 2013-08-08 NA 2013-07-19 2014-01-14 Y 10 01-701-1034 2014-08-27 NA 2014-07-01 2014-12-30 Y # ... with 1,181 more rows
```

#### 7.2 Exercise 2

Create a new variable REGION1 based upon COUTRY as shown in the table below.

Countries	Region
Mexico, USA, Canada	North America
Spain, Greece, Germany, Switzerland	Europe
China, Japan	Asia

```
dm %>%
  mutate(
    REGION1 = case_when(
        COUNTRY %in% c("Mexico", "USA", "Canada") ~ "North America",
        COUNTRY %in% c("Spain", "Greece", "Germany", "Switzerland") ~ "Europe",
        COUNTRY %in% c("China", "Japan") ~ "Asia"
    )
    ) %>%
    select(USUBJID, COUNTRY, REGION1)
# A tibble: 306 x 3
```

```
USUBJID COUNTRY REGION1
<chr> <chr> <chr> 1 01-701-1015 USA North America
2 01-701-1023 USA North America
3 01-701-1028 USA North America
```

4 01-701-1033 USA

5 01-701-1034 USA North America 6 01-701-1047 USA North America

North America

7 01-701-1057 USA North America

8 01-701-1097 USA North America 9 01-701-1111 USA North America 10 01-701-1115 USA North America

# ... with 296 more rows

# Part IV summarize

# 8 Summarizing Data

Thomas Neitmann

```
library(dplyr)
dm <- readRDS("data/dm.rds")
ae <- readRDS("data/ae.rds")</pre>
```

While mutate() adds a new variable for all existing records to a dataset, summarize() aggregates one or more columns of a dataset thereby "collapsing" it. In the simplest case a single variable is aggregated using a summary function such as mean().

```
dm %>%
    summarize(avg_age = mean(AGE, na.rm = TRUE))

avg_age
    <dbl>
1 75.1
```

Just like you can create multiple variables inside a single call to mutate() you can aggregate multiple variables (or the same variable with multiple summary functions) inside summarize().

So far we aggregated only numeric variables. Another useful aggregation is counting the number of records.

dm %>%

8 Switzerland

9 USA

This becomes quite powerful when combining summarize() with group\_by(). This should look rather familiar to you if you every aggregated data using proc sql.

```
group_by(COUNTRY) %>%
    summarize(n = n()) \%>\%
    ungroup()
# A tibble: 9 x 2
 COUNTRY
  <chr>
              <int>
1 Canada
                 86
2 China
                 55
3 Germany
                 49
4 Greece
                 13
5 Japan
                 12
6 Mexico
                  5
                  6
7 Spain
```

Note that it is best practice to ungroup() the dataset after you aggregated it. Failing to do so can lead to some rather bogus error when continuing to manipulate the aggregated dataset, e.g. using mutate().

group\_by() and summarize() can be used with numeric variables as well. In addition one can group by more than a single variable.

```
dm %>%
group_by(ARM, COUNTRY) %>%
```

9

71

```
summarize(avg_age = mean(AGE, na.rm = TRUE)) %>%
ungroup()
```

# # A tibble: 32 x 3

	ARM	COUNTRY	avg_age
	<chr></chr>	<chr></chr>	<dbl></dbl>
1	Placebo	Canada	79.2
2	Placebo	China	70.5
3	Placebo	Germany	75.2
4	Placebo	Greece	75.8
5	Placebo	Japan	70
6	Placebo	Mexico	65
7	Placebo	Spain	83
8	Placebo	${\tt Switzerland}$	69.3
9	Placebo	USA	74.9
10	Screen Failure	Canada	75.1

# ... with 22 more rows

# 9 Summarizing Data Exercises

Thomas Neitmann

```
library(dplyr)
dm <- readRDS("data/dm.rds")
ae <- readRDS("data/ae.rds")</pre>
```

#### 9.1 Exercise 1

Count the number of *overall* adverse events per subject and sort the output such that the subject with the highest overall number of adverse events appears first.

```
ae %>%
    group_by(USUBJID) %>%
    summarise(n_ae = n()) %>%
    arrange(desc(n_ae))
# A tibble: 225 x 2
  USUBJID
               n_ae
  <chr>
               <int>
1 01-701-1302
                  23
2 01-717-1004
                  19
3 01-704-1266
                  16
4 01-709-1029
                  16
5 01-718-1427
                 16
6 01-701-1192
                  15
7 01-701-1275
                  15
8 01-709-1309
                  15
9 01-713-1179
                  15
10 01-711-1143
                  14
# ... with 215 more rows
```

#### 9.2 Exercise 2

Count the overall number of serious adverse events per treatment arm (ACTARM).

#### 9.3 Exercise 3

Find the lowest and highest AGE per treatment arm.

Part V tidyr

# 10 tidyr

Zelos Zhu

#### 10.0.1 Some Context

As we know, data can often be represented in several ways. Multiple observations of a variable can be organized by rows or by columns.

Table A.

ID	Pre	Post
X	1	2
У	3	4

Table B.

ID	Time	Value
X	Pre	1
x	Post	2
У	$\operatorname{Pre}$	3
у	Post	4

When observations are spread along a row as multiple columns, we refer to the data as being in "wide" format (See Table A). When observations are spread along a column as multiple rows, we refer to the data as being in "long" format (See Table B). SDTM data for the most part generally adheres to the "long" structure, but as programmers we need to know how to work with both to suit our needs.

To get the desired shape of data, there are two useful functions from the tidyr package to make this transformation, aptly named: pivot\_longer() and pivot\_wider(). These can be seen as the R-equivalent of proc transpose in SAS.

#### 10.0.2 Setup

```
library(admiral)
  library(admiral.test)
  library(dplyr)
  library(tidyr)
  suppdm <- admiral.test::admiral_suppdm %>%
    select(USUBJID, QNAM, QVAL)
  head(suppdm, 10)
# A tibble: 10 x 3
  USUBJID
               QNAM
                        QVAL
  <chr>
               <chr>
                        <chr>>
1 01-701-1015 COMPLT16 Y
2 01-701-1015 COMPLT24 Y
3 01-701-1015 COMPLT8
4 01-701-1015 EFFICACY Y
5 01-701-1015 ITT
6 01-701-1015 SAFETY
7 01-701-1023 EFFICACY Y
8 01-701-1023 ITT
9 01-701-1023 SAFETY
                        Y
10 01-701-1028 COMPLT16 Y
```

As we see here, in our SUPPDM domain, the data is currently in the "long" format. If we wanted to transform the dataset such that each of the unique values of QNAM was their own column, we are looking to transpose the data from "long" to "wide". In this case, we use pivot\_wider().

```
suppdm_wide <- suppdm %>%
    pivot wider(
      names_from = "QNAM", # assign column names based on QNAM
      values_from = "QVAL" # retrieve values from QVAL
    )
  suppdm_wide
# A tibble: 254 x 7
  USUBJID
               COMPLT16 COMPLT24 COMPLT8 EFFICACY ITT
                                                          SAFETY
   <chr>
               <chr>
                        <chr>
                                  <chr>
                                          <chr>
                                                   <chr> <chr>
```

```
1 01-701-1015 Y
                          Y
                                    Y
                                             Y
                                                       Y
                                                              Υ
 2 01-701-1023 <NA>
                                    <NA>
                                             Y
                                                       Y
                                                              Y
                          <NA>
 3 01-701-1028 Y
                                    Υ
                                             Y
                                                       Y
                                                              Y
                          Y
 4 01-701-1033 <NA>
                          <NA>
                                    <NA>
                                             Y
                                                       Y
                                                              Y
 5 01-701-1034 Y
                                             Y
                                                       Y
                                                              Y
                          Y
                                    Y
 6 01-701-1047 <NA>
                                             Y
                                                       Y
                                                              Y
                          <NA>
                                     <NA>
7 01-701-1097 Y
                                    Y
                                             Y
                                                       Y
                                                              Y
8 01-701-1111 <NA>
                          < NA >
                                    < NA >
                                             Y
                                                       Y
                                                              Y
9 01-701-1115 <NA>
                                    Y
                                             Y
                                                       Y
                                                              Y
                          <NA>
10 01-701-1118 Y
                                                       γ
                                    Υ
                                             Υ
                                                              Y
# ... with 244 more rows
```

Voila! This "wide" dataset may prove useful for joins (to be discussed later). But for now, let's pretend that this "wide" format is how our original data came to us in. If we wanted to take these respective flagging columns and turn them into a "long" format, we use pivot\_longer().

```
suppdm_long <- suppdm_wide %>%
    pivot_longer(
      cols = c("COMPLT16", "COMPLT24", "COMPLT8", "EFFICACY", "ITT", "SAFETY"),
      names_to = "QNAM",
      values to = "QVAL"
    )
  suppdm_long
# A tibble: 1,524 x 3
  USUBJID
               QNAM
                        QVAL
   <chr>
               <chr>
                        <chr>
1 01-701-1015 COMPLT16 Y
2 01-701-1015 COMPLT24 Y
3 01-701-1015 COMPLT8
4 01-701-1015 EFFICACY Y
5 01-701-1015 ITT
6 01-701-1015 SAFETY
7 01-701-1023 COMPLT16 <NA>
8 01-701-1023 COMPLT24 <NA>
9 01-701-1023 COMPLT8 <NA>
10 01-701-1023 EFFICACY Y
# ... with 1,514 more rows
```

As you can see, as we pivoted back, we didn't come up with an *exact* duplicate of our original suppdm dataframe. This is because the default of pivot\_longer() is **not** to drop NA values,

which can be modified with the values\_drop\_na function input, just one of the many powerful additional function inputs from both of these pivoting functions. pivot\_wider() and pivot\_longer() were designed to handle a variety of situations when transposing data in the most flexible of ways.

```
suppdm_long <- suppdm_wide %>%
    pivot longer(
      cols = c("COMPLT16", "COMPLT24", "COMPLT8", "EFFICACY", "ITT", "SAFETY"),
      names_to = "flag",
      values_to = "flag_value",
      values_drop_na = TRUE
  suppdm_long
# A tibble: 1,197 x 3
  USUBJID
           flag
                        flag value
   <chr>
              <chr>
                        <chr>
1 01-701-1015 COMPLT16 Y
2 01-701-1015 COMPLT24 Y
3 01-701-1015 COMPLT8 Y
4 01-701-1015 EFFICACY Y
5 01-701-1015 ITT
6 01-701-1015 SAFETY
7 01-701-1023 EFFICACY Y
8 01-701-1023 ITT
9 01-701-1023 SAFETY
                        Y
10 01-701-1028 COMPLT16 Y
# ... with 1,187 more rows
```

Bonus Trick: The names\_to/values\_to function arguments can prove to be helpful as a renaming step during the data cleaning process too!

#### 10.1 Relational Data (Joins)

When a pair of tables need to be joined together, we have a variety of functions that can achieve such a task:

- left\_join()
- right\_join()
- full\_join()

#### • inner\_join()

The use of these functions is very similar to proc sql in SAS. left\_join() will cover most of use cases and is demonstrated below:

```
dm <- admiral.test::admiral dm %>%
    select(STUDYID, USUBJID, AGE, ARM)
  dm suppdm <- dm %>%
    left_join(suppdm_wide, by = "USUBJID")
  head(dm_suppdm)
# A tibble: 6 x 10
                                     COMPL~1 COMPL~2 COMPLT8 EFFIC~3 ITT
 STUDYID
               USUBJID
                          AGE ARM
                                                                            SAFETY
  <chr>
                        <dbl> <chr> <chr>
                                             <chr>
                                                     <chr>
                                                              <chr>
                                                                      <chr> <chr>
               <chr>
1 CDISCPILOTO1 01-701-~
                           63 Plac~ Y
                                             Y
                                                     Y
                                                             Y
                                                                      Y
                                                                            Υ
                                                                      Y
2 CDISCPILOTO1 01-701-~
                           64 Plac~ <NA>
                                             <NA>
                                                     <NA>
                                                             Y
                                                                            Y
3 CDISCPILOTO1 01-701-~
                           71 Xano~ Y
                                                             Y
                                                                      Y
                                                                            Y
4 CDISCPILOTO1 01-701-~
                           74 Xano~ <NA>
                                             <NA>
                                                     <NA>
                                                             Y
                                                                      Y
                                                                            Y
5 CDISCPILOTO1 01-701-~
                           77 Xano~ Y
                                                             γ
                                                                      Υ
                                                                            γ
                                             Υ
                                                     Υ
6 CDISCPILOTO1 01-701-~
                           85 Plac~ <NA>
                                             <NA>
                                                     <NA>
                                                             Y
                                                                      Y
                                                                            Y
# ... with abbreviated variable names 1: COMPLT16, 2: COMPLT24, 3: EFFICACY
```

The join can also be completed with different column names as long as you define the join-key relationship, demonstrated below:

```
dummy1 <- data.frame(
    STUDYID = c("TRIALX", "TRIALX"),
    USUBJID = c("1001", "1002"),
    AGE = c(18, 22)
)

dummy2 <- data.frame(
    STUDYID = c("TRIALX", "TRIALX"),
    SUBJECT = c("1001", "1002"),
    SEX = c("M", "F")
)

dummy3 <- dummy1 %>%
    left_join(dummy2, by = c("STUDYID" = "STUDYID", "USUBJID" = "SUBJECT"))
```

## head(dummy3)

#### STUDYID USUBJID AGE SEX 1 TRIALX 1001 18 M 2 TRIALX 1002 22 F

# 11 tidyr exercises

Zelos Zhu

```
library(tidyverse)
library(admiral)
library(admiral.test)
library(dplyr)
library(tidyr)

# load data
ex <- admiral_ex
dm <- admiral_dm
ds <- admiral_ds
suppds <- admiral_suppds</pre>
```

#### 11.1 Pivoting with tidyr

Load the ex data-frame from admiral\_exand select the following variables:

- USUBJID
- EXTRT
- VISIT
- EXSTDTC

```
ex %>%
    select(USUBJID, EXTRT, VISIT, EXSTDTC)

# A tibble: 591 x 4
    USUBJID    EXTRT    VISIT    EXSTDTC
```

```
<chr>
                          <chr>
                                   <chr>>
   <chr>
1 01-701-1015 PLACEBO
                          BASELINE 2014-01-02
2 01-701-1015 PLACEBO
                          WEEK 2
                                   2014-01-17
3 01-701-1015 PLACEBO
                          WEEK 24 2014-06-19
4 01-701-1023 PLACEBO
                          BASELINE 2012-08-05
5 01-701-1023 PLACEBO
                          WEEK 2
                                   2012-08-28
6 01-701-1028 XANOMELINE BASELINE 2013-07-19
7 01-701-1028 XANOMELINE WEEK 2
                                   2013-08-02
8 01-701-1028 XANOMELINE WEEK 24 2014-01-07
9 01-701-1033 XANOMELINE BASELINE 2014-03-18
10 01-701-1034 XANOMELINE BASELINE 2014-07-01
# ... with 581 more rows
```

Using pivot\_wider() create a table that would shaped this way

USUBJID EXTRT		BASELINE	WEEK 2	WEEK 24	

```
ex %>%
    select(USUBJID, EXTRT, VISIT, EXSTDTC) %>%
    pivot_wider(names_from = "VISIT", values_from = "EXSTDTC")
# A tibble: 254 x 5
  USUBJID
               EXTRT
                          BASELINE
                                      `WEEK 2`
                                                 `WEEK 24`
   <chr>
               <chr>>
                          <chr>>
                                      <chr>
                                                 <chr>
1 01-701-1015 PLACEBO
                          2014-01-02 2014-01-17 2014-06-19
2 01-701-1023 PLACEBO
                          2012-08-05 2012-08-28 <NA>
3 01-701-1028 XANOMELINE 2013-07-19 2013-08-02 2014-01-07
4 01-701-1033 XANOMELINE 2014-03-18 <NA>
5 01-701-1034 XANOMELINE 2014-07-01 2014-07-16 2014-12-18
6 01-701-1047 PLACEBO
                          2013-02-12 2013-02-26 <NA>
7 01-701-1097 XANOMELINE 2014-01-01 2014-01-16 2014-06-19
8 01-701-1111 XANOMELINE 2012-09-07 <NA>
                                                 <NA>
9 01-701-1115 XANOMELINE 2012-11-30 2012-12-14 <NA>
10 01-701-1118 PLACEBO
                          2014-03-12 2014-03-27 2014-08-28
# ... with 244 more rows
```

Load the dm data-frame from admiral\_dmand select the following variables:

#### • USUBJID

```
• RACE
```

• SEX

```
dm %>%
   select(USUBJID, RACE, SEX)
```

```
# A tibble: 306 x 3
  USUBJID
               RACE SEX
   <chr>
               <chr> <chr>
1 01-701-1015 WHITE F
2 01-701-1023 WHITE M
3 01-701-1028 WHITE M
4 01-701-1033 WHITE M
5 01-701-1034 WHITE F
6 01-701-1047 WHITE F
7 01-701-1057 WHITE F
8 01-701-1097 WHITE M
9 01-701-1111 WHITE F
10 01-701-1115 WHITE M
# ... with 296 more rows
```

Using pivot\_longer() create a table that would shaped this way

USUBJID	VAR	VAL
1001	RACE	WHITE
1001	SEX	$\mathbf{M}$

```
4 01-701-1023 SEX M
5 01-701-1028 RACE WHITE
6 01-701-1028 SEX M
7 01-701-1033 RACE WHITE
8 01-701-1033 SEX M
9 01-701-1034 RACE WHITE
10 01-701-1034 SEX F
# ... with 602 more rows
```

#### 11.2 Joining using dplyr

Load the ds data-frame from admiral\_ds and suppds data-frame from admiral\_suppds. Prior to joining the two datasets together, we may need to do some cleaning of the data on suppds.

- Mutate IDVARVAL from type character to type numeric.
- Select USUBJID IDVARVAL QNAM QLABEL QVAL

```
suppds <- suppds %>%
  filter(IDVAR == "DSSEQ") %>%
  mutate(IDVARVAL = as.numeric(IDVARVAL)) %>%
  select(USUBJID, IDVARVAL, QNAM, QLABEL, QVAL)
suppds
```

Join the two tables together using USUBJID and DSSEQ as the key joining variables.

```
ds %>%
  left_join(suppds, by = c("USUBJID" = "USUBJID", "DSSEQ" = "IDVARVAL"))
```

# A tibble: 850 x 16

	STUDYID	DOMAIN	USUBJID	DSSEQ	DSSPID	DSTERM	${\tt DSDECOD}$	DSCAT	VISIT~1	VISIT	DSDTC
	<chr></chr>	<chr></chr>	<chr></chr>	<dbl></dbl>	<chr></chr>	<chr></chr>	<chr></chr>	<chr></chr>	<dbl></dbl>	<chr></chr>	<chr></chr>
1	${\tt CDISCPI^{\sim}}$	DS	01-701~	1	<na></na>	RANDO~	${\tt RANDOM}{\sim}$	PROT~	3	BASE~	2014~
2	${\tt CDISCPI^{\sim}}$	DS	01-701~	2	<na></na>	PROTO~	${\tt COMPLE~}$	DISP~	13	WEEK~	2014~
3	${\tt CDISCPI^{\sim}}$	DS	01-701~	3	<na></na>	FINAL~	FINAL ~	OTHE~	13	WEEK~	2014~
4	${\tt CDISCPI^{\sim}}$	DS	01-701~	1	<na></na>	RANDO~	RANDOM~	PROT~	3	BASE~	2012~
5	${\tt CDISCPI^{\sim}}$	DS	01-701~	2	24	ADVER~	ADVERS~	DISP~	5	WEEK~	2012~
6	${\tt CDISCPI^{\sim}}$	DS	01-701~	3	<na></na>	FINAL~	FINAL ~	OTHE~	5	WEEK~	2012~
7	${\tt CDISCPI^{\sim}}$	DS	01-701~	4	<na></na>	FINAL~	FINAL ~	OTHE~	201	$\mathtt{RETR} \mathord{\hspace{1pt}\hspace{1pt}}$	2013~
8	${\tt CDISCPI^{\sim}}$	DS	01-701~	1	<na></na>	RANDO~	${\tt RANDOM}{\sim}$	PROT~	3	BASE~	2013~
9	${\tt CDISCPI^{\sim}}$	DS	01-701~	2	<na></na>	PROTO~	COMPLE~	DISP~	13	WEEK~	2014~
10	${\tt CDISCPI^{\sim}}$	DS	01-701~	3	<na></na>	FINAL~	FINAL ~	OTHE~	13	WEEK~	2014~

<sup># ...</sup> with 840 more rows, 5 more variables: DSSTDTC <chr>, DSSTDY <dbl>,

<sup>#</sup> QNAM <chr>, QLABEL <chr>, QVAL <chr>, and abbreviated variable name

<sup># 1:</sup> VISITNUM