Simple Tables Demo Doc

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|--------------|----|
| 24 Col space | 29 |
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1 Data

Mostly working with this data; but some others come in later to illustrate certain features.

```
library(pmtables)
library(yspec)
spec <- ys_help$spec()</pre>
data <- pmt summarized
head(data)
## # A tibble: 6 x 9
    STUDY
                        FORM
                                      WT
                                            CRCL
                                                 AGE
                                                        ALB
                                                              SCR
##
     <chr>>
                       <chr>
                                <chr> <chr> <chr> <chr> <chr> <chr> <chr>
                 <chr>
## 1 12-DEMO-001 100 mg tablet
                                      71.4
                                            104
                                                  33.7
                                                       4.20
                                                              1.06
## 2 12-DEMO-001 150 mg capsule 16
                                      89.4 122
                                                  24.4 4.63 1.12
## 3 12-DEMO-001 150 mg tablet 48
                                      81.7
                                           104
                                                  34.4 3.83 0.910
## 4 12-DEMO-001 150 mg troche
                                      94.0 93.2 27.4 4.94 1.25
                                16
## 5 12-DEMO-001 200 mg tablet
                                64
                                      67.9 100
                                                  27.5 4.25 1.10
## 6 12-DEMO-001 200 mg troche 16
                                      76.6 99.2 22.8 4.54 1.15
```

2 asis

In this document, we are rendering tables inline as we knit. To accomplish this we need to pipe tables to st_asis() and you will see that in every example. If you are knitting a document and want to include a table, you should do this. If you are not knitting a document with included tables, you shouldn't use st_asis()

3 Simple table

- A data frame is wrapped in tabular environmentThe table is created with threeparttable

data %>% stable(cols_bold=TRUE) %>% st_asis()

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|-------------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

4 Annotate

- Arguments to identify the name of the generating R script and the output file name
- The output file name is retained as an attribute to be used later when saving the table data
- Arbitrary notes are also allowed, provided as a character vector; item in the vector is placed on its own line

```
stable(
  data,
  r_file = "foo.R",
  output_file = "foo.tex",
  notes = c("Data were analyzed in quadruplicate.", "The results are very clear."),
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
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| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

Data were analyzed in quadruplicate.

The results are very clear.

Source code: foo.R Source file: foo.tex

5 Notes in minipage

- By default, notes are put in the 3rd part of threeparttable
- Alternatively, we can put them in a minipage just below the table
- The width of the minipage needs to be set by the user

```
stable(
  data,
  note_config = noteconf(type = "minipage", width = 0.85),
  notes = c("Data were analyzed in quadruplicate.", "The results are very clear."),
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
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| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

Data were analyzed in quadruplicate.

The results are very clear.

6 Align

- Columns can be aligned center, left or right
- Columns can be aligned with a fixed with and aligned left, center or right
- Helper functions are provided as cols_center(), cols_left(), cols_right()
- The syntax is to state the default / base alignment for all columns and then pass exceptions to that default setting
- Center everything except for
 - STUDY (left)
 - DOSE and SCR (right)

```
data %>%
  stable(align = cols_center(STUDY = '1', .r = "DOSE,SCR")) %>%
  st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

7 Units

- Automatically put units under the column name
- Units are supplied as a named list, where names correspond with the column name prior to renaming
- The list can contain a subset of columns and can also contain names that are not in the table (there is no warning or error for the latter)

```
units <- ys_get_unit(spec, parens = TRUE)
stable(
  data,
  units = units,
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT (kg) | CRCL (ml/min) | AGE (years) | ALB (g/dL) | SCR (mg/dL) |
|-------------|--------|---------|-----|------------|------------------|----------------|---------------|----------------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

8 Expand header rows

- Multi-line table header
- Unlimited number
- Use . . . to break; pass cols_break to alter the break sequence
- Units go on the bottom row when they are supplied
- Items are always pushed to the bottom

```
stable(
  data,
  cols_rename = vars("Study...Number" = STUDY, "Serum...Albumin" = ALB),
  units = units
) %>% st_asis()
```

| Study Number | DOSE | FORM | N | WT (kg) | CRCL (ml/min) | AGE (years) | Serum Albumin (g/dL) | SCR (mg/dL) |
|-----------------|--------|---------|-----|------------|---------------|----------------|----------------------------|----------------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

9 Extra column information

- Pass in a data frame any number of rows but same column layout (number and order) as the input data to add information to the header row
- I'm adding units in this example, but think of this as having general application

```
tmp <- slice(ptdata(), 1:5)</pre>
xtra0 <- slice(tmp,1) %>% mutate(across(everything(), ~""))
xtra0
## # A tibble: 1 x 9
                    STUDY DOSE FORM N
                                                                                                                       WT
                                                                                                                                               CRCL AGE
                                                                                                                                                                                                 ALB
                                                                                                                                                                                                                           SCR.
               <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr> <chr> <chr< <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr< <chr> <chr< <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <chr> <chr< <
## 1 "" "" "" ""
                                                                                                                                     11.11
                                                                                                                                                                       11 11
xtra1 <- mutate(xtra0, DOSE = "(mg)", N = "(number)", WT = "(kg)")</pre>
xtra2 <- mutate(xtra0, WT = "[baseline]")</pre>
xtra <- bind_rows(xtra2,xtra1)</pre>
xtra
## # A tibble: 2 x 9
##
                    STUDY DOSE FORM N
                                                                                                                                                WT
                                                                                                                                                                                              CRCL AGE
                                                                                                                                                                                                                                                                        SCR
                                                                                                                                                                                                                                               ALB
##
                    <chr> <chr> <chr> <chr>
                                                                                                                                                 <chr>
                                                                                                                                                                                              <chr> <chr> <chr> <chr> <chr>
## 1 "" "" ""
                                                                                                 11 11
                                                                                                                                                 [baseline] ""
                                                                                                                                                                                                                      11 11
                                                                                                                                                                                                                                                11 11
                                                                                                                                                                                                                                                                        11 11
## 2 ""
                                            "(mg)" ""
                                                                                                                                                                                                                      11 11
                                                                                                                                                                                                                                                11 11
                                                                                                                                                                                                                                                                         11 11
                                                                                                   "(number)" (kg)
stable(tmp, cols_extra = xtra) %>% st_asis()
```

| STUDY | DOSE (mg) | FORM | N (number) | WT [baseline] (kg) | CRCL | AGE | ALB | SCR |
|-------------|--------------|---------|---------------|--------------------------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |

10 Math

- Columns with at least two \$ are "math" and will not be sanitized
- Otherwise the are functions to "prime" the data frame
 - The default is to convert every column to character
 - Then walk the columns, look for non-math columns and sanitize them

```
ptab <- readRDS("datasets/ptab.RDS")</pre>
ptab
## # A tibble: 4 x 6
##
                                             Symbol
                                                                                    SE
     .type
                        Parameter
                                                       Math
                                                                       Estimate
##
     <chr>>
                         <chr>
                                             <chr>
                                                       <chr>
                                                                           <dbl> <dbl>
                                             CL (L/h~ "\\exp(\\thet~
## 1 Fixed-effects
                         Clearance
                                                                           1.22 0.4
## 2 Fixed-effects
                         Volume of distribu~ V2 (L)
                                                       "$\leq(\t \cdot )
                                                                           5.87
                                                                                 0.89
## 3 Fixed-effects
                        Absorption rate co~ KA (1/h~ "$\\theta_3$"
                                                                           1.23 0.1
## 4 Unexplained varia~ Additive_error
                                             RUV
                                                       "$\\sigma_1$"
                                                                           0.02 0.01
stable(
  ptab,
  align = cols_center(Parameter = col_ragged(3), .1 = "Symbol"),
  panel = ".type"
  ) %>% st_asis()
```

| Parameter | Symbol | Math | Estimate | SE |
|--------------------------|-----------|------------------|----------|------|
| Fixed-effects | | | | |
| Clearance | CL (L/hr) | $\exp(\theta_1)$ | 1.22 | 0.4 |
| Volume of distribution | V2 (L) | $\exp(\theta_2)$ | 5.87 | 0.89 |
| Absorption rate constant | KA (1/hr) | $	heta_3$ | 1.23 | 0.1 |
| Unexplained variab | oility | | | |
| Additive_error | RUV | σ_1 | 0.02 | 0.01 |

11 hline from column

 $\bullet\,$ Use the column to determine where the hline should go

```
stable(
  data,
  hline_from = "STUDY",
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

12 hline anywhere

• Give row numbers for hline as logical or integer vector

```
stable(
  data,
  hline_at = c(3,nrow(data))-1,
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

13 Remove duplicate values

- Discard repeating values in a column
- Also clear_grouped_reps which recursively groups by the column names supplied and clears the most distant column name in the groups

```
stable(
  data,
  clear_reps = "STUDY",
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

14 Add styling to data frame

- tex_bold will make table cells bold when they match pattern
- \bullet tex_it will make table cells italics when they match pattern
- styling is only added when there is at least one character
- input must be string
- combine this with clear_rep and hline_from to partition the table

```
tmp <- ptdata()

tmp <- mutate(tmp, STUDY = tex_bold(as.character(STUDY)))

stable(
  tmp,
  clear_reps = "STUDY",
  hline_from = "STUDY",
) %>% st_asis()
```

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

15 Panel

- Divide the table using column contents
- The panel column data is split in non-repeating chunks
- An error is generated if there are multiple panels with the same name; this can be overridden
- A prefix can be supplied that gets pasted on the front of the column title; the prefix can also come from the name of the supplied panel panel ID (e.g. c(prefix_text = panel_name))

```
stable(
  data,
  panel = as.panel("STUDY", prefix = "Study number: "),
) %>% st_asis()
```

| DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|----------|-----------|------|-------|------|------|------|-------|
| Study nu | ımber: 12 | -DEM | O-001 | | | | |
| 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| Study nu | ımber: 12 | -DEM | O-002 | , | | | |
| 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

16 Drop column

• name columns that can be dropped from the table

```
stable(data[1:3,], drop = "STUDY,FORM,DOSE") %>% st_asis()
```

| N | WT | CRCL | AGE | ALB | SCR |
|----|------|------|------|------|-------|
| 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |

• this works when there is a panel

```
stable(data[1:3,], drop = "SCR,FORM,DOSE", panel = "STUDY") %>% st_asis()
```

| N | WT | CRCL | AGE | ALB | |
|-----|------|------|------|------|--|
| 12- | DEMO | | | | |
| 80 | 71.4 | 104 | 33.7 | 4.20 | |
| 16 | 89.4 | 122 | 24.4 | 4.63 | |
| 48 | 81.7 | 104 | 34.4 | 3.83 | |

17 Colspan

17.1 Basic

- Group columns with a spaning line and a title
- The span goes above the highest row in the column header box

```
stable(
  data,
  span = colgroup("In final model", WT:CRCL),
) %>% st_asis()
```

| | | | | In final model | | | | |
|-------------|--------|---------|-----|----------------|------|------|------|-------|
| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

17.2 Multiple

- Multiple groupings
- Multiple levels

```
stable(
  data,
  span = list(
    colgroup("Meh", DOSE:WT),
    colgroup("Hrm", AGE:CRCL),
    colgroup("Huh", ALB:SCR),
    colgroup("Expert opinion", CRCL:SCR, level = 2)
)
) %>% st_asis()
```

| | | | | E | expert o | pinio | ı | |
|-------------|--------|---------|-----|------|----------|-------|------|-------|
| | | Meh | | | | | Huh | |
| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

17.3 Split from columns

- \bullet We have some columns of the form ${\tt tag.name}$
- These are split on the sep argument; the tag (common across columns in the group) forms the spanner title
- The column names are formed by splitting tag. off of tag.name

```
dotdata <- readRDS("datasets/with-dots.RDS")</pre>
head(dotdata, n=2)
## # A tibble: 2 x 7
##
    STUDY
                 Normal.WT Normal.CRCL Normal.ALB ESRD.WT ESRD.CRCL ESRD.ALB
##
     <chr>
                 <chr>
                           <chr>
                                       <chr>
                                                  <chr>
                                                           <chr>
                                                                     <chr>
## 1 12-DEMO-001 71.4
                           104
                                       4.20
                                                  78.5
                                                          26.0
                                                                     2.10
## 2 12-DEMO-001 81.7
                           104
                                       3.83
                                                  89.9
                                                           26.1
                                                                     1.92
stable(
 dotdata,
  span_split = colsplit(sep = '.'),
) %>% st_asis()
```

| | | Normal | | | ESRD | |
|-------------|------|--------|------|------|------|------|
| STUDY | WT | CRCL | ALB | WT | CRCL | ALB |
| 12-DEMO-001 | 71.4 | 104 | 4.20 | 78.5 | 26.0 | 2.10 |
| 12-DEMO-001 | 81.7 | 104 | 3.83 | 89.9 | 26.1 | 1.92 |
| 12-DEMO-001 | 89.4 | 122 | 4.63 | 98.4 | 30.6 | 2.32 |
| 12-DEMO-001 | 94.0 | 93.2 | 4.94 | 103 | 23.3 | 2.47 |
| 12-DEMO-001 | 67.9 | 100 | 4.25 | 74.7 | 25.1 | 2.13 |
| 12-DEMO-001 | 76.6 | 99.2 | 4.54 | 84.2 | 24.8 | 2.27 |
| 12-DEMO-002 | 77.6 | 106 | 4.31 | 85.4 | 26.4 | 2.16 |
| 12-DEMO-002 | 61.3 | 113 | 4.04 | 67.4 | 28.2 | 2.02 |
| 12-DEMO-002 | 71.2 | 106 | 4.63 | 78.3 | 26.4 | 2.32 |
| 12-DEMO-002 | 74.1 | 112 | 4.44 | 81.5 | 28.0 | 2.22 |
| 12-DEMO-002 | 71.6 | 98.9 | 4.49 | 78.8 | 24.7 | 2.25 |
| 12-DEMO-002 | 72.4 | 105 | 3.89 | 79.6 | 26.3 | 1.94 |
| 12-DEMO-002 | 73.6 | 103 | 4.52 | 81.0 | 25.8 | 2.26 |

17.4 With titles breaking across lines

You can include ... in the title it will break in to multiple lines. You can alter the split sequence with the span_title_break argument (default is ...) . See ?tab_spanners.

This feature is in addition to the functionality allowing you to break column names (control the split sequence with cols_break, where default is also . . .).

```
out <- stable(
   stdata(),
   span = colgroup("Final model ... Covariates", WT:SCR),
   cols_rename = c("Study Protocol ... Number" = "STUDY")
) %>% st_asis()
```

18 Handle wide columns

• This shows using col_ragged() alignment to fix the width of a column that has a lot of text in it

18.1 descr is taking over the table

```
ptable <- readRDS("datasets/ptable.RDS")
stable(ptable) %>% st_asis()
```

| symbol | descr | estimate | standard.error |
|--------|---|----------|----------------|
| CL (L) | Metabolic clearance in adults who graduated high school before 1973 and live in Muncie. | 100 | 200 |

18.2 Limit descr to 5 cm

```
stable(
  ptable,
  align = cols_center(descr = col_ragged(5))
) %>% st_asis()
```

| symbol | descr | estimate | standard.error | rse |
|--------|---|----------|----------------|-----|
| CL (L) | Metabolic clearance in adults who graduated high school before 1973 and live in Muncie. | 100 | 200 | 2 |

19 Identify a summary row

- We can point to one or more rows and style it up as a "summary row"
- The summary row can be styled
 - with a horizontal line above
 - with bold text in a designated column
 - with alternate text in a designated column
- · Multiple summary rows can be specified in a list

```
df.total <- readRDS(file = "datasets/with-total.RDS")</pre>
df.total
## # A tibble: 3 x 6
##
    STUDY
                      AGE
                            CRCL ALB
                                        SCR
##
     <chr>
                <chr> <chr> <chr> <chr> <chr> <chr>
## 1 12-DEMO-001 80.2 28.4 104 4.40 1.10
## 2 12-DEMO-002 71.7 37.3 106 4.33 0.979
## 3 all
           75.9 32.8 105 4.37 1.04
stable(
 df.total,
 sumrows = sumrow(
   df.total$STUDY == "all",
   label = "All Studies",
   bold = TRUE
 )
) %>% st_asis()
```

| STUDY | WT | AGE | CRCL | ALB | SCR |
|-------------|------|------|------|------|-------|
| 12-DEMO-001 | 80.2 | 28.4 | 104 | 4.40 | 1.10 |
| 12-DEMO-002 | 71.7 | 37.3 | 106 | 4.33 | 0.979 |
| All Studies | 75.9 | 32.8 | 105 | 4.37 | 1.04 |

20 Save the table to file

- There is a output file attribute on the text that is returned
- When the stable output is passed to stable_save(), the attribute is used as the output file name

```
tab <- stable(data, output_file = "foo.tex")
str(tab)

## 'stable' chr [1:26] "\\setlength{\\tabcolsep}{5pt} " ...
## - attr(*, "stable_file")= chr "foo.tex"

This can be used to save
stable_save(tab)

file.exists("foo.tex")

## [1] TRUE</pre>
```

21 Long table

- Long table is based on a call to stable
- The table header, tabular environemnt and table notes are reused

```
long <- ptdata()
long <- map_dfr(1:2, ~ long) %>% arrange(STUDY,DOSE,FORM)

long %>%
    stable_long(
    panel = "STUDY", cols_bold = TRUE,
    units = ys_get_unit(spec, parens = TRUE),
    notes = "The results look great!",
    clear_reps = "DOSE",
    cols_rename = c(Formulation = "FORM"),
    r_file = "foo.R", output_file = "../deliv/table/output.tex",
    note_config = noteconf(type = "minipage", width = 0.8,table_skip = 0.2)
) %>% st_wrap(table = FALSE)
```

| DOSE | Formulation | N | WT (kg) | CRCL (ml/min) | AGE (years) | ALB (g/dL) | SCR (mg/dL) |
|--------|-------------|-----|------------|---------------|----------------|---------------|----------------|
| 12-DEM | O-001 | | | | | | |
| 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEM | O-002 | | | | | | |
| 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |

continued on next page

| DOSE | Formulation | N | | CRCL (ml/min) | AGE (years) | ALB (g/dL) | SCR (mg/dL) |
|------|-------------|-----|------|---------------|----------------|---------------|----------------|
| | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |
| | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

The results look great! Source code: foo.R Source file: output.tex

22 Fontsize

- Tables should be rendered with \\normalsize for the most part
 The font size can get bumped up or down in special circumstances

data %>% stable(sizes = tab_size(font = "tiny")) %>% st_asis()

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|-----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |

23 Row space

- The default rowspacing is 1.4; this is a multiplication factor
- The user can bring this up or down so that row spacing of 1 is no extension or compression of row padding

data %>% slice(1:3) %>% stable() %>% st_asis()

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |

data %>% slice(1:3) %>% stable(sizes = tab_size(row = 0.9)) %>% st_asis()

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |

| STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|-------------|--------|---------|----|------|------|------|------|-------|
| 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |

24 Col space

• The default is 5

data %>% stable(sizes = tab_size(col = 20)) %>% st_asis()

| | STUDY | DOSE | FORM | N | WT | CRCL | AGE | ALB |
|---|-------------|--------|---------|-----|------|------|------|------|
| _ | 12-DEMO-001 | 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 |
| | 12-DEMO-001 | 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 |
| | 12-DEMO-001 | 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 |
| | 12-DEMO-001 | 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 |
| | 12-DEMO-001 | 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 |
| | 12-DEMO-001 | 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 |
| | 12-DEMO-002 | 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 |
| | 12-DEMO-002 | 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 |
| | 12-DEMO-002 | 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 |
| | 12-DEMO-002 | 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 |
| | 12-DEMO-002 | 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 |
| | 12-DEMO-002 | 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 |
| | 12-DEMO-002 | 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 |
| | | | | | | | | |

25 Still ok

stable(data) %>% st_asis()

| DOSE | FORM | N | WT | CRCL | AGE | ALB | SCR |
|--------|---|--|---|--|---|---|---|
| 100 mg | tablet | 80 | 71.4 | 104 | 33.7 | 4.20 | 1.06 |
| 150 mg | capsule | 16 | 89.4 | 122 | 24.4 | 4.63 | 1.12 |
| 150 mg | tablet | 48 | 81.7 | 104 | 34.4 | 3.83 | 0.910 |
| 150 mg | troche | 16 | 94.0 | 93.2 | 27.4 | 4.94 | 1.25 |
| 200 mg | tablet | 64 | 67.9 | 100 | 27.5 | 4.25 | 1.10 |
| 200 mg | troche | 16 | 76.6 | 99.2 | 22.8 | 4.54 | 1.15 |
| 100 mg | capsule | 36 | 61.3 | 113 | 38.3 | 4.04 | 1.28 |
| 100 mg | tablet | 324 | 77.6 | 106 | 29.9 | 4.31 | 0.981 |
| 50 mg | capsule | 36 | 74.1 | 112 | 37.1 | 4.44 | 0.900 |
| 50 mg | tablet | 324 | 71.2 | 106 | 34.1 | 4.63 | 0.868 |
| 75 mg | capsule | 36 | 72.4 | 105 | 38.2 | 3.89 | 0.900 |
| 75 mg | tablet | 288 | 71.6 | 98.9 | 34.2 | 4.49 | 0.991 |
| 75 mg | troche | 36 | 73.6 | 103 | 49.2 | 4.52 | 0.930 |
| | 100 mg 150 mg 150 mg 150 mg 200 mg 200 mg 100 mg 50 mg 50 mg 75 mg | 100 mg tablet 150 mg tablet 150 mg troche 200 mg troche 200 mg troche 100 mg capsule 100 mg tablet 50 mg capsule 50 mg tablet 75 mg capsule 75 mg tablet | 100 mg tablet 80 150 mg capsule 16 150 mg tablet 48 150 mg troche 16 200 mg tablet 64 200 mg troche 16 100 mg capsule 36 100 mg tablet 324 50 mg tablet 324 75 mg capsule 36 75 mg tablet 288 | 100 mg tablet 80 71.4 150 mg capsule 16 89.4 150 mg tablet 48 81.7 150 mg troche 16 94.0 200 mg tablet 64 67.9 200 mg troche 16 76.6 100 mg capsule 36 61.3 100 mg tablet 324 77.6 50 mg tablet 324 71.2 75 mg capsule 36 72.4 75 mg tablet 288 71.6 | 100 mg tablet 80 71.4 104 150 mg capsule 16 89.4 122 150 mg tablet 48 81.7 104 150 mg troche 16 94.0 93.2 200 mg tablet 64 67.9 100 200 mg troche 16 76.6 99.2 100 mg capsule 36 61.3 113 100 mg tablet 324 77.6 106 50 mg tablet 324 71.2 106 75 mg capsule 36 72.4 105 75 mg tablet 288 71.6 98.9 | 100 mg tablet 80 71.4 104 33.7 150 mg capsule 16 89.4 122 24.4 150 mg tablet 48 81.7 104 34.4 150 mg troche 16 94.0 93.2 27.4 200 mg tablet 64 67.9 100 27.5 200 mg troche 16 76.6 99.2 22.8 100 mg capsule 36 61.3 113 38.3 100 mg tablet 324 77.6 106 29.9 50 mg capsule 36 74.1 112 37.1 50 mg tablet 324 71.2 106 34.1 75 mg capsule 36 72.4 105 38.2 75 mg tablet 288 71.6 98.9 34.2 | 100 mg tablet 80 71.4 104 33.7 4.20 150 mg capsule 16 89.4 122 24.4 4.63 150 mg tablet 48 81.7 104 34.4 3.83 150 mg troche 16 94.0 93.2 27.4 4.94 200 mg tablet 64 67.9 100 27.5 4.25 200 mg troche 16 76.6 99.2 22.8 4.54 100 mg capsule 36 61.3 113 38.3 4.04 100 mg tablet 324 77.6 106 29.9 4.31 50 mg capsule 36 74.1 112 37.1 4.44 50 mg tablet 324 71.2 106 34.1 4.63 75 mg capsule 36 72.4 105 38.2 3.89 75 mg tablet 288 71.6 98.9 34.2 4.49 |