

# Simple Tables Demo Doc

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**25 Col space**

**27**

**26 Still ok**

**28**

# 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()

data <- pmt_summarized

head(data)
```

```
## # A tibble: 6 x 9
##   STUDY      DOSE  FORM    N    WT   CRCL  AGE  ALB  SCR
##   <chr>    <chr> <chr>  <chr> <chr> <chr> <chr> <chr> <chr>
## 1 12-DEMO-001 100 mg tablet  80   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  16   94.0  93.2   27.4  4.94  1.25
## 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 wrap

There is a wrap function in this document. Don't worry about that; it just puts the output into a table environment and sends the output to get rendered in markdown.

### 3 Simple table

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

```
data %>% stable(cols_bold=TRUE) %>% pt_wrap(stdout())
```

| 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."),  
) %>% pt_wrap(stdout())
```

| 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 |

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."),  
) %>% pt_wrap(stdout())
```

| 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 |

---

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 width 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 = 'l', .r = "DOSE,SCR")) %>%  
  pt_wrap(stdout())
```

| 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,  
) %>% pt_wrap(stdout())
```

| STUDY       | DOSE   | FORM    | N   | WT<br>(kg) | CRCL<br>(ml/min) | AGE<br>(years) | ALB<br>(g/dL) | SCR<br>(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

- Multiline table header
- Unlimited number
- Use ... to break
- 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  
) %>% pt_wrap(stdout())
```

| Study<br>Number | DOSE   | FORM    | N   | WT<br>(kg) | CRCL<br>(ml/min) | AGE<br>(years) | Serum<br>Albumin<br>(g/dL) | SCR<br>(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 Math

- Columns with at least two \$ are “math” and will not be sanitized
- Otherwise they 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")
ptab
```

```
## # A tibble: 4 x 6
##   .type      Parameter      Symbol  Math      Estimate    SE
##   <chr>      <chr>      <chr>   <chr>      <dbl> <dbl>
## 1 Fixed-effects Clearance      CL (L/h~ "$\\exp(\\thet~ 1.22 0.4
## 2 Fixed-effects Volume of distribu~ V2 (L)    "$\\exp(\\thet~ 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"
) %>% pt_wrap(stdout())
```

| Parameter                      | Symbol    | Math             | Estimate | SE   |
|--------------------------------|-----------|------------------|----------|------|
| <b>Fixed-effects</b>           |           |                  |          |      |
| 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) | $\theta_3$       | 1.23     | 0.1  |
| <b>Unexplained variability</b> |           |                  |          |      |
| Additive_error                 | RUV       | $\sigma_1$       | 0.02     | 0.01 |

## 10 hline from column

- Use the column to determine where the hline should go

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

| 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 |

## 11 hline anywhere

- Give row numbers for hline as logical or integer vector

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

| 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 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",  
) %>% pt_wrap(stdout())
```

| 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 |

## 13 Add styling to data frame

- `tex_bold` will make table cells bold when they match pattern
- `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",
) %>% pt_wrap(stdout())
```

| STUDY              | DOSE   | FORM    | N   | WT   | CRCL | AGE  | ALB  | SCR   |
|--------------------|--------|---------|-----|------|------|------|------|-------|
| <b>12-DEMO-001</b> | 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  |
| <b>12-DEMO-002</b> | 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 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: "),  
) %>% pt_wrap(stdout())
```

| DOSE                             | FORM    | N   | WT   | CRCL | AGE  | ALB  | SCR   |
|----------------------------------|---------|-----|------|------|------|------|-------|
| <b>Study number: 12-DEMO-001</b> |         |     |      |      |      |      |       |
| 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  |
| <b>Study number: 12-DEMO-002</b> |         |     |      |      |      |      |       |
| 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 Drop column

- name columns that can be dropped from the table

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

| 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") %>% pt_wrap(stdout())
```

| N                  | WT   | CRCL | AGE  | ALB  |
|--------------------|------|------|------|------|
| <b>12-DEMO-001</b> |      |      |      |      |
| 80                 | 71.4 | 104  | 33.7 | 4.20 |
| 16                 | 89.4 | 122  | 24.4 | 4.63 |
| 48                 | 81.7 | 104  | 34.4 | 3.83 |



## 16 Colspan

- Group columns with a spanning 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),  
) %>% pt_wrap(stdout())
```

| STUDY       | DOSE   | FORM    | N   | In final model |      | AGE  | ALB  | SCR   |
|-------------|--------|---------|-----|----------------|------|------|------|-------|
|             |        |         |     | WT             | CRCL |      |      |       |
| 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 Colspan - 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)
  )
) %>% pt_wrap(stdout())
```

| STUDY       | DOSE   | Meh     |     |      |      | Expert opinion |      |       |  |
|-------------|--------|---------|-----|------|------|----------------|------|-------|--|
|             |        |         |     |      |      | Hrm            |      | Huh   |  |
|             |        | 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 |  |

## 18 Colspan - from cols

- We have some columns of the form 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")
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 = '.'),
) %>% pt_wrap(stdout())
```

| STUDY       | Normal |      |      | ESRD |      |      |
|-------------|--------|------|------|------|------|------|
|             | 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 |

## 19 Handle wide columns

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

### 19.1 `descr` is taking over the table

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

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

### 19.2 Limit `descr` to 5 cm

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

| 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   |

## 20 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")
df.total
```

```
## # A tibble: 3 x 6
##   STUDY      WT    AGE  CRCL  ALB   SCR
##   <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
  )
) %>% pt_wrap(stdout())
```

| 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 |
| <b>All Studies</b> | 75.9 | 32.8 | 105  | 4.37 | 1.04  |

## 21 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
```

## 22 Long table

- Long table is based on a call to `stable`
- The table header, tabular environment 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<br>(kg) | CRCL<br>(ml/min) | AGE<br>(years) | ALB<br>(g/dL) | SCR<br>(mg/dL) |
|--------------------|-------------|-----|------------|------------------|----------------|---------------|----------------|
| <b>12-DEMO-001</b> |             |     |            |                  |                |               |                |
| 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           |
| <b>12-DEMO-002</b> |             |     |            |                  |                |               |                |
| 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

| <b>DOSE</b> | <b>Formulation</b> | <b>N</b> | <b>WT</b><br>(kg) | <b>CRCL</b><br>(ml/min) | <b>AGE</b><br>(years) | <b>ALB</b><br>(g/dL) | <b>SCR</b><br>(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



## 23 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")) %>% pt_wrap(stdout())
```

| 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 |

## 24 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() %>% pt_wrap(stdout())
```

| 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)) %>% pt_wrap(stdout())
```

| 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 = 2)) %>% pt_wrap(stdout())
```

| 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 |

## 25 Col space

- The default is 5

```
data %>% stable(sizes = tab_size(col = 20)) %>% pt_wrap(stdout())
```

| 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 |

## 26 Still ok

```
stable(data) %>% pt_wrap(stdout())
```

| 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 |