

# Previous pmtables implemented with stable framework

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## 1 Setup

```
units = ys_get_unit(ys_help$spec(), parens = TRUE)
```

```
data <- pmt_first
data_pk <- pmt_pk
data_all <- pmt_obs
```

## 2 Data inventory tables

- Count number of
  - individuals
  - observations
  - BQL observations
  - missing values
- Calculate the percent of observations or BQL in different sub groups

## 2.1 Stacked by endpoint

- The stacked plot creates multiple independent tables to summarize different endpoints; there is no single overall summary for the table because we are summarizing different endpoints

```
x <- pt_data_inventory(  
  data_all,  
  by = c(Study = "STUDYf"),  
  panel = as.panel("SEQf", prefix = "Endpoint: "),  
  stacked = TRUE  
) %>% as_stable( wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Study	Number				Percent	
	SUBJ	MISS	OBS	BQL	OBS	BQL
<b>Endpoint: DEMO PK</b>						
12-DEMO-001	30	8	427	15	13.9	0.5
12-DEMO-002	50	10	1152	38	37.4	1.2
11-DEMO-005	40	10	920	30	29.9	1.0
13-DEMO-001	40	7	582	11	18.9	0.4
<i>Group Total</i>	160	35	3081	94	100.0	3.1
<b>Endpoint: ESTRDIOL</b>						
11-DEMO-005	40	0	40	0	50.6	0.0
13-DEMO-001	40	1	39	0	49.4	0.0
<i>Group Total</i>	80	1	79	0	100.0	0.0
<b>Endpoint: BMD</b>						
11-DEMO-005	40	9	111	0	49.1	0.0
13-DEMO-001	40	5	115	0	50.9	0.0
<i>Group Total</i>	80	14	226	0	100.0	0.0

SUBJ: subjects  
BQL: below quantitation limit  
MISS: missing observations (not BQL)  
OBS: observations  
Source code: test.R  
Source file: test.tex

Study	Number				Percent	
	SUBJ	MISS	OBS	BQL	OBS	BQL
<b>Endpoint: DEMO PK</b>						
12-DEMO-001	30	8	427	15	13.9	0.5
12-DEMO-002	50	10	1152	38	37.4	1.2
11-DEMO-005	40	10	920	30	29.9	1.0
13-DEMO-001	40	7	582	11	18.9	0.4
<i>Group Total</i>	160	35	3081	94	100.0	3.1
<b>Endpoint: ESTRDIOL</b>						
11-DEMO-005	40	0	40	0	50.6	0.0
13-DEMO-001	40	1	39	0	49.4	0.0
<i>Group Total</i>	80	1	79	0	100.0	0.0
<b>Endpoint: BMD</b>						
11-DEMO-005	40	9	111	0	49.1	0.0
13-DEMO-001	40	5	115	0	50.9	0.0
<i>Group Total</i>	80	14	226	0	100.0	0.0

SUBJ: subjects  
 BQL: below quantitation limit  
 MISS: missing observations (not BQL)  
 OBS: observations  
 Source code: test.R  
 Source file: test.tex

## 2.2 Paneled

- Just summarize a single endpoint

```
pt_data_inventory(
  data_pk,
  by = c(Study = "STUDYf"),
  panel = "ASIANf"
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Study	Number				Group percent		Overall percent	
	SUBJ	MISS	OBS	BQL	OBS	BQL	OBS	BQL
<b>Asian</b>								
12-DEMO-001	17	4	241	10	19.5	0.8	7.8	0.3
12-DEMO-002	18	4	414	14	33.4	1.1	13.4	0.5
11-DEMO-005	16	5	366	13	29.5	1.0	11.9	0.4
13-DEMO-001	15	3	218	4	17.6	0.3	7.1	0.1
<b>non-Asian</b>								
12-DEMO-001	13	4	186	5	10.1	0.3	6.0	0.2
12-DEMO-002	32	6	738	24	40.1	1.3	24.0	0.8
11-DEMO-005	24	5	554	17	30.1	0.9	18.0	0.6
13-DEMO-001	25	4	364	7	19.8	0.4	11.8	0.2
<b>All data</b>	160	35	3081	94	—	—	100.0	3.1

SUBJ: subjects

BQL: below quantitation limit

MISS: missing observations (not BQL)

OBS: observations

Source code: test.R

Source file: test.tex

Study	Number				Group percent		Overall percent	
	SUBJ	MISS	OBS	BQL	OBS	BQL	OBS	BQL
<b>Asian</b>								
12-DEMO-001	17	4	241	10	19.5	0.8	7.8	0.3
12-DEMO-002	18	4	414	14	33.4	1.1	13.4	0.5
11-DEMO-005	16	5	366	13	29.5	1.0	11.9	0.4
13-DEMO-001	15	3	218	4	17.6	0.3	7.1	0.1
<b>non-Asian</b>								
12-DEMO-001	13	4	186	5	10.1	0.3	6.0	0.2
12-DEMO-002	32	6	738	24	40.1	1.3	24.0	0.8
11-DEMO-005	24	5	554	17	30.1	0.9	18.0	0.6
13-DEMO-001	25	4	364	7	19.8	0.4	11.8	0.2
<b>All data</b>	160	35	3081	94	—	—	100.0	3.1

SUBJ: subjects

BQL: below quantitation limit

MISS: missing observations (not BQL)

OBS: observations

Source code: test.R

Source file: test.tex

## 2.3 Grouped (by study)

```
pt_data_inventory(
  data_pk,
  by = c(Study = "STUDYf")
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Study	Number				Percent	
	SUBJ	MISS	OBS	BQL	OBS	BQL
12-DEMO-001	30	8	427	15	13.9	0.5
12-DEMO-002	50	10	1152	38	37.4	1.2
11-DEMO-005	40	10	920	30	29.9	1.0
13-DEMO-001	40	7	582	11	18.9	0.4
<b>All data</b>	160	35	3081	94	100.0	3.1

SUBJ: subjects  
 BQL: below quantitation limit  
 MISS: missing observations (not BQL)  
 OBS: observations  
 Source code: test.R  
 Source file: test.tex

Study	Number				Percent	
	SUBJ	MISS	OBS	BQL	OBS	BQL
12-DEMO-001	30	8	427	15	13.9	0.5
12-DEMO-002	50	10	1152	38	37.4	1.2
11-DEMO-005	40	10	920	30	29.9	1.0
13-DEMO-001	40	7	582	11	18.9	0.4
<b>All data</b>	160	35	3081	94	100.0	3.1

SUBJ: subjects  
 BQL: below quantitation limit  
 MISS: missing observations (not BQL)  
 OBS: observations  
 Source code: test.R  
 Source file: test.tex

### 3 Wide categorical table

- Summary of categorical data in wide format
- The summary is number (percent within group)
- Wide refers to the fact that the covariates go across the table

#### 3.1 Ungrouped

```
pt_cat_wide(  
  data = data,  
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf)) %>%  
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

n	Formulation			Sex		Race group	
	tablet	capsule	troche	male	female	Asian	non-Asian
160	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

n	Formulation			Sex		Race group	
	tablet	capsule	troche	male	female	Asian	non-Asian
160	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex



### 3.2 Paneled (limited utility, IMO)

- Provided here for completeness

```
out <- pt_cat_wide(
  data = data,
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  panel = as.panel("STUDYf", prefix = "Study: ")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

n	Formulation			Sex		Race group	
	tablet	capsule	troche	male	female	Asian	non-Asian
<b>Study: 12-DEMO-001</b>							
30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
<b>Study: 12-DEMO-002</b>							
50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
<b>Study: 11-DEMO-005</b>							
40	30 (75.0)	3 (7.5)	7 (17.5)	29 (72.5)	11 (27.5)	16 (40.0)	24 (60.0)
<b>Study: 13-DEMO-001</b>							
40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
<b>All data</b>							
160	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

n	Formulation			Sex		Race group	
	tablet	capsule	troche	male	female	Asian	non-Asian
<b>Study: 12-DEMO-001</b>							
30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
<b>Study: 12-DEMO-002</b>							
50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
<b>Study: 11-DEMO-005</b>							
40	30 (75.0)	3 (7.5)	7 (17.5)	29 (72.5)	11 (27.5)	16 (40.0)	24 (60.0)
<b>Study: 13-DEMO-001</b>							
40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
<b>All data</b>							
160	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

### 3.3 Grouped (by male / female)

```
pt_cat_wide(
  data = data,
  by = c(Sex = "SEXf"),
  cols = vars(Formulation = FORMf, "Race group" = ASIANf)) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Sex	n	Formulation			Race group	
		tablet	capsule	troche	Asian	non-Asian
male	80	62 (77.5)	7 (8.8)	11 (13.8)	28 (35.0)	52 (65.0)
female	80	68 (85.0)	8 (10.0)	4 (5.0)	38 (47.5)	42 (52.5)
<b>All data</b>	160	130 (81.2)	15 (9.4)	15 (9.4)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

Sex	n	Formulation			Race group	
		tablet	capsule	troche	Asian	non-Asian
male	80	62 (77.5)	7 (8.8)	11 (13.8)	28 (35.0)	52 (65.0)
female	80	68 (85.0)	8 (10.0)	4 (5.0)	38 (47.5)	42 (52.5)
<b>All data</b>	160	130 (81.2)	15 (9.4)	15 (9.4)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

### 3.4 Paneled and grouped

```
pt_cat_wide(
  data = data,
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  panel = as.panel("STUDYf", prefix = "Study: "),
  by = c("RF Group" = "RFf")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

RF Group	n	Formulation			Sex		Race group	
		tablet	capsule	troche	male	female	Asian	non-Asian
Study: 12-DEMO-001								
normal	30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
Study: 12-DEMO-002								
normal	50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
Study: 11-DEMO-005								
normal	10	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	10	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	10	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	10	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
Study: 13-DEMO-001								
normal	40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
All data	160	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

RF Group	n	Formulation			Sex		Race group	
		tablet	capsule	troche	male	female	Asian	non-Asian
Study: 12-DEMO-001								
normal	30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
Study: 12-DEMO-002								
normal	50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
Study: 11-DEMO-005								
normal	10	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	10	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	10	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	10	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
Study: 13-DEMO-001								
normal	40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
All data	160	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

### 3.5 No summary

```
pt_cat_wide(
  data = data,
  summarize = "none",
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  panel = as.panel("STUDYf", prefix = "Study: "),
  by = c("RF Group" = "RFf")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

RF Group	n	Formulation			Sex		Race group	
		tablet	capsule	troche	male	female	Asian	non-Asian
Study: 12-DEMO-001								
normal	30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
Study: 12-DEMO-002								
normal	50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
Study: 11-DEMO-005								
normal	10	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	10	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	10	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	10	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
Study: 13-DEMO-001								
normal	40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

RF Group	n	Formulation			Sex		Race group	
		tablet	capsule	troche	male	female	Asian	non-Asian
Study: 12-DEMO-001								
normal	30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
Study: 12-DEMO-002								
normal	50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
Study: 11-DEMO-005								
normal	10	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	10	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	10	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	10	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
Study: 13-DEMO-001								
normal	40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

## 4 Long categorical table

- Categorical table in long format
- Long indicates that the covariates go down the table ## Ungrouped

```
pt_cat_long(  
  data = data,  
  cols = vars(Study = STUDYf, Sex = SEXf, "Race group" = ASIANf, "Child-Pugh" = CPf)) %>%  
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Summary n = 160	
<b>Study</b>	
12-DEMO-001	30 (18.8)
12-DEMO-002	50 (31.2)
11-DEMO-005	40 (25.0)
13-DEMO-001	40 (25.0)
<b>Sex</b>	
male	80 (50.0)
female	80 (50.0)
<b>Race group</b>	
Asian	66 (41.2)
non-Asian	94 (58.8)
<b>Child-Pugh</b>	
Score=0	130 (81.2)
Score=1	10 (6.2)
Score=2	10 (6.2)
Score=3	10 (6.2)

Summary is count (percent)  
n: number of records summarized  
Source code: test.R  
Source file: test.tex



Summary n = 160	
<b>Study</b>	
12-DEMO-001	30 (18.8)
12-DEMO-002	50 (31.2)
11-DEMO-005	40 (25.0)
13-DEMO-001	40 (25.0)
<b>Sex</b>	
male	80 (50.0)
female	80 (50.0)
<b>Race group</b>	
Asian	66 (41.2)
non-Asian	94 (58.8)
<b>Child-Pugh</b>	
Score=0	130 (81.2)
Score=1	10 (6.2)
Score=2	10 (6.2)
Score=3	10 (6.2)

Summary is count (percent)  
n: number of records summarized

Source code: test.R

Source file: test.tex

## 4.1 Grouped (by formulation)

```
pt_cat_long(
  data = data,
  cols = vars(Study = STUDYf, Sex = SEXf, "Race group" = ASIANf, "Child-Pugh" = CPf),
  span = c(Formulation = "FORMf")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Formulation			Summary n = 160
	tablet n = 130	capsule n = 15	troche n = 15	
Study				
12-DEMO-001	25 (19.2)	3 (20.0)	2 (13.3)	30 (18.8)
12-DEMO-002	42 (32.3)	6 (40.0)	2 (13.3)	50 (31.2)
11-DEMO-005	30 (23.1)	3 (20.0)	7 (46.7)	40 (25.0)
13-DEMO-001	33 (25.4)	3 (20.0)	4 (26.7)	40 (25.0)
Sex				
male	62 (47.7)	7 (46.7)	11 (73.3)	80 (50.0)
female	68 (52.3)	8 (53.3)	4 (26.7)	80 (50.0)
Race group				
Asian	53 (40.8)	7 (46.7)	6 (40.0)	66 (41.2)
non-Asian	77 (59.2)	8 (53.3)	9 (60.0)	94 (58.8)
Child-Pugh				
Score=0	106 (81.5)	12 (80.0)	12 (80.0)	130 (81.2)
Score=1	7 (5.4)	1 (6.7)	2 (13.3)	10 (6.2)
Score=2	8 (6.2)	1 (6.7)	1 (6.7)	10 (6.2)
Score=3	9 (6.9)	1 (6.7)	0 (0.0)	10 (6.2)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

	Formulation			Summary n = 160
	tablet n = 130	capsule n = 15	troche n = 15	
Study				
12-DEMO-001	25 (19.2)	3 (20.0)	2 (13.3)	30 (18.8)
12-DEMO-002	42 (32.3)	6 (40.0)	2 (13.3)	50 (31.2)
11-DEMO-005	30 (23.1)	3 (20.0)	7 (46.7)	40 (25.0)
13-DEMO-001	33 (25.4)	3 (20.0)	4 (26.7)	40 (25.0)
Sex				
male	62 (47.7)	7 (46.7)	11 (73.3)	80 (50.0)
female	68 (52.3)	8 (53.3)	4 (26.7)	80 (50.0)
Race group				
Asian	53 (40.8)	7 (46.7)	6 (40.0)	66 (41.2)
non-Asian	77 (59.2)	8 (53.3)	9 (60.0)	94 (58.8)
Child-Pugh				
Score=0	106 (81.5)	12 (80.0)	12 (80.0)	130 (81.2)
Score=1	7 (5.4)	1 (6.7)	2 (13.3)	10 (6.2)
Score=2	8 (6.2)	1 (6.7)	1 (6.7)	10 (6.2)
Score=3	9 (6.9)	1 (6.7)	0 (0.0)	10 (6.2)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

## 4.2 Summary on bottom and right

```
pt_cat_long(
  data = data,
  summarize = "both",
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  span = vars(Study = STUDYf)
) %>%
as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Study				Summary n = 160
	12-DEMO-001 n = 30	12-DEMO-002 n = 50	11-DEMO-005 n = 40	13-DEMO-001 n = 40	
Formulation					
tablet	25 (83.3)	42 (84.0)	30 (75.0)	33 (82.5)	130 (81.2)
capsule	3 (10.0)	6 (12.0)	3 (7.5)	3 (7.5)	15 (9.4)
troche	2 (6.7)	2 (4.0)	7 (17.5)	4 (10.0)	15 (9.4)
Sex					
male	10 (33.3)	18 (36.0)	29 (72.5)	23 (57.5)	80 (50.0)
female	20 (66.7)	32 (64.0)	11 (27.5)	17 (42.5)	80 (50.0)
Race group					
Asian	17 (56.7)	18 (36.0)	16 (40.0)	15 (37.5)	66 (41.2)
non-Asian	13 (43.3)	32 (64.0)	24 (60.0)	25 (62.5)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

	Study				Summary n = 160
	12-DEMO-001 n = 30	12-DEMO-002 n = 50	11-DEMO-005 n = 40	13-DEMO-001 n = 40	
Formulation					
tablet	25 (83.3)	42 (84.0)	30 (75.0)	33 (82.5)	130 (81.2)
capsule	3 (10.0)	6 (12.0)	3 (7.5)	3 (7.5)	15 (9.4)
troche	2 (6.7)	2 (4.0)	7 (17.5)	4 (10.0)	15 (9.4)
Sex					
male	10 (33.3)	18 (36.0)	29 (72.5)	23 (57.5)	80 (50.0)
female	20 (66.7)	32 (64.0)	11 (27.5)	17 (42.5)	80 (50.0)
Race group					
Asian	17 (56.7)	18 (36.0)	16 (40.0)	15 (37.5)	66 (41.2)
non-Asian	13 (43.3)	32 (64.0)	24 (60.0)	25 (62.5)	94 (58.8)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

### 4.3 No summary

```
pt_cat_long(  
  data = data,  
  summarize = "none",  
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),  
  span = vars(Study = STUDYf)  
) %>%  
as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Study			
	12-DEMO-001	12-DEMO-002	11-DEMO-005	13-DEMO-001
<b>Formulation</b>				
tablet	25 (83.3)	42 (84.0)	30 (75.0)	33 (82.5)
capsule	3 (10.0)	6 (12.0)	3 (7.5)	3 (7.5)
troche	2 (6.7)	2 (4.0)	7 (17.5)	4 (10.0)
<b>Sex</b>				
male	10 (33.3)	18 (36.0)	29 (72.5)	23 (57.5)
female	20 (66.7)	32 (64.0)	11 (27.5)	17 (42.5)
<b>Race group</b>				
Asian	17 (56.7)	18 (36.0)	16 (40.0)	15 (37.5)
non-Asian	13 (43.3)	32 (64.0)	24 (60.0)	25 (62.5)

Summary is count (percent)  
n: number of records summarized  
Source code: test.R  
Source file: test.tex

	Study			
	12-DEMO-001	12-DEMO-002	11-DEMO-005	13-DEMO-001
<b>Formulation</b>				
tablet	25 (83.3)	42 (84.0)	30 (75.0)	33 (82.5)
capsule	3 (10.0)	6 (12.0)	3 (7.5)	3 (7.5)
troche	2 (6.7)	2 (4.0)	7 (17.5)	4 (10.0)
<b>Sex</b>				
male	10 (33.3)	18 (36.0)	29 (72.5)	23 (57.5)
female	20 (66.7)	32 (64.0)	11 (27.5)	17 (42.5)
<b>Race group</b>				
Asian	17 (56.7)	18 (36.0)	16 (40.0)	15 (37.5)
non-Asian	13 (43.3)	32 (64.0)	24 (60.0)	25 (62.5)

Summary is count (percent)

n: number of records summarized

Source code: test.R

Source file: test.tex

## 5 Wide continuous table

- Continuous table in wide format
- Wide means that the covariates go across the table

### 5.1 Ungrouped

```
pt_cont_wide(  
  data = data,  
  cols = "WT,SCR,AGE,ALB,HT",  
  units = units  
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]

Source code: test.R

Source file: test.tex

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]

Source code: test.R

Source file: test.tex

### 5.2 Paneled

```
pt_cont_wide(  
  data = data,  
  cols = "WT,SCR,AGE,ALB,HT",  
  panel = c(Study = "STUDYf"),  
  units = units  
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```



WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
<b>Study 12-DEMO-001</b>				
72.2 (14.3) [29]	1.03 (0.155) [30]	32.0 (9.19) [30]	4.28 (0.474) [29]	180 (19.3) [30]
<b>Study 12-DEMO-002</b>				
72.4 (11.5) [49]	0.971 (0.161) [50]	35.0 (8.20) [50]	4.47 (0.468) [50]	182 (15.4) [50]
<b>Study 11-DEMO-005</b>				
68.9 (14.5) [39]	2.52 (1.43) [40]	32.8 (8.48) [40]	4.41 (0.537) [39]	175 (19.2) [40]
<b>Study 13-DEMO-001</b>				
69.4 (11.6) [40]	0.950 (0.165) [40]	34.2 (9.67) [40]	3.58 (1.15) [38]	179 (17.2) [40]
<b>All data</b>				
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]
Summary is mean (sd) [count]				
Source code: test.R				
Source file: test.tex				

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
<b>Study 12-DEMO-001</b>				
72.2 (14.3) [29]	1.03 (0.155) [30]	32.0 (9.19) [30]	4.28 (0.474) [29]	180 (19.3) [30]
<b>Study 12-DEMO-002</b>				
72.4 (11.5) [49]	0.971 (0.161) [50]	35.0 (8.20) [50]	4.47 (0.468) [50]	182 (15.4) [50]
<b>Study 11-DEMO-005</b>				
68.9 (14.5) [39]	2.52 (1.43) [40]	32.8 (8.48) [40]	4.41 (0.537) [39]	175 (19.2) [40]
<b>Study 13-DEMO-001</b>				
69.4 (11.6) [40]	0.950 (0.165) [40]	34.2 (9.67) [40]	3.58 (1.15) [38]	179 (17.2) [40]
<b>All data</b>				
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]
Summary is mean (sd) [count]				
Source code: test.R				
Source file: test.tex				

### 5.3 Grouped (by study)

```
pt_cont_wide(
  data = data,
  cols = "WT,SCR,AGE,ALB,HT",
  by = c(Study = "STUDYf"),
  units = units
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Study	WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
12-DEMO-001	72.2 (14.3) [29]	1.03 (0.155) [30]	32.0 (9.19) [30]	4.28 (0.474) [29]	180 (19.3) [30]
12-DEMO-002	72.4 (11.5) [49]	0.971 (0.161) [50]	35.0 (8.20) [50]	4.47 (0.468) [50]	182 (15.4) [50]
11-DEMO-005	68.9 (14.5) [39]	2.52 (1.43) [40]	32.8 (8.48) [40]	4.41 (0.537) [39]	175 (19.2) [40]
13-DEMO-001	69.4 (11.6) [40]	0.950 (0.165) [40]	34.2 (9.67) [40]	3.58 (1.15) [38]	179 (17.2) [40]
<b>All data</b>	70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]

Source code: test.R

Source file: test.tex

Study	WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
12-DEMO-001	72.2 (14.3) [29]	1.03 (0.155) [30]	32.0 (9.19) [30]	4.28 (0.474) [29]	180 (19.3) [30]
12-DEMO-002	72.4 (11.5) [49]	0.971 (0.161) [50]	35.0 (8.20) [50]	4.47 (0.468) [50]	182 (15.4) [50]
11-DEMO-005	68.9 (14.5) [39]	2.52 (1.43) [40]	32.8 (8.48) [40]	4.41 (0.537) [39]	175 (19.2) [40]
13-DEMO-001	69.4 (11.6) [40]	0.950 (0.165) [40]	34.2 (9.67) [40]	3.58 (1.15) [38]	179 (17.2) [40]
<b>All data</b>	70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]

Source code: test.R

Source file: test.tex

## 5.4 Paneled and grouped

```
pt_cont_wide(
  data = data,
  cols = "WT,SCR,AGE,ALB,HT",
  by = c(Study = "STUDYf"),
  panel = c(Formulation = "FORMf"),
  units = units
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Study	WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
<b>Formulation tablet</b>					
12-DEMO-001	71.0 (14.2) [24]	1.01 (0.157) [25]	32.6 (9.23) [25]	4.22 (0.459) [24]	179 (19.7) [25]
12-DEMO-002	72.2 (11.8) [41]	0.966 (0.166) [42]	34.0 (7.93) [42]	4.49 (0.495) [42]	182 (15.9) [42]
11-DEMO-005	68.8 (15.2) [29]	2.48 (1.47) [30]	33.2 (8.73) [30]	4.37 (0.568) [29]	173 (19.7) [30]
13-DEMO-001	69.4 (11.0) [33]	0.967 (0.163) [33]	33.7 (9.67) [33]	3.53 (1.14) [31]	178 (16.5) [33]
<b>Formulation capsule</b>					
12-DEMO-001	72.9 (17.3) [3]	1.12 (0.0700) [3]	32.2 (12.0) [3]	4.49 (0.593) [3]	184 (23.0) [3]
12-DEMO-002	70.9 (10.3) [6]	1.03 (0.146) [6]	37.7 (7.59) [6]	4.38 (0.354) [6]	181 (15.4) [6]
11-DEMO-005	73.9 (11.1) [3]	3.06 (2.19) [3]	31.8 (4.99) [3]	4.65 (0.240) [3]	181 (16.4) [3]
13-DEMO-001	58.4 (4.04) [3]	0.973 (0.195) [3]	36.5 (6.69) [3]	3.09 (1.50) [3]	167 (8.88) [3]
<b>Formulation troche</b>					
12-DEMO-001	85.3 (12.4) [2]	1.20 (0.0707) [2]	25.1 (3.28) [2]	4.74 (0.283) [2]	194 (0.163) [2]
12-DEMO-002	79.7 (8.61) [2]	0.910 (0.0283) [2]	48.0 (1.79) [2]	4.49 (0.0354) [2]	182 (10.9) [2]
11-DEMO-005	66.8 (13.9) [7]	2.45 (1.05) [7]	31.4 (9.34) [7]	4.49 (0.509) [7]	177 (19.8) [7]
13-DEMO-001	77.4 (15.9) [4]	0.795 (0.0777) [4]	37.3 (12.9) [4]	4.32 (0.994) [4]	193 (22.4) [4]
<b>All data</b>	70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]

Source code: test.R

Source file: test.tex

Study	WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
<b>Formulation tablet</b>					
12-DEMO-001	71.0 (14.2) [24]	1.01 (0.157) [25]	32.6 (9.23) [25]	4.22 (0.459) [24]	179 (19.7) [25]
12-DEMO-002	72.2 (11.8) [41]	0.966 (0.166) [42]	34.0 (7.93) [42]	4.49 (0.495) [42]	182 (15.9) [42]
11-DEMO-005	68.8 (15.2) [29]	2.48 (1.47) [30]	33.2 (8.73) [30]	4.37 (0.568) [29]	173 (19.7) [30]
13-DEMO-001	69.4 (11.0) [33]	0.967 (0.163) [33]	33.7 (9.67) [33]	3.53 (1.14) [31]	178 (16.5) [33]
<b>Formulation capsule</b>					
12-DEMO-001	72.9 (17.3) [3]	1.12 (0.0700) [3]	32.2 (12.0) [3]	4.49 (0.593) [3]	184 (23.0) [3]
12-DEMO-002	70.9 (10.3) [6]	1.03 (0.146) [6]	37.7 (7.59) [6]	4.38 (0.354) [6]	181 (15.4) [6]
11-DEMO-005	73.9 (11.1) [3]	3.06 (2.19) [3]	31.8 (4.99) [3]	4.65 (0.240) [3]	181 (16.4) [3]
13-DEMO-001	58.4 (4.04) [3]	0.973 (0.195) [3]	36.5 (6.69) [3]	3.09 (1.50) [3]	167 (8.88) [3]
<b>Formulation troche</b>					
12-DEMO-001	85.3 (12.4) [2]	1.20 (0.0707) [2]	25.1 (3.28) [2]	4.74 (0.283) [2]	194 (0.163) [2]
12-DEMO-002	79.7 (8.61) [2]	0.910 (0.0283) [2]	48.0 (1.79) [2]	4.49 (0.0354) [2]	182 (10.9) [2]
11-DEMO-005	66.8 (13.9) [7]	2.45 (1.05) [7]	31.4 (9.34) [7]	4.49 (0.509) [7]	177 (19.8) [7]
13-DEMO-001	77.4 (15.9) [4]	0.795 (0.0777) [4]	37.3 (12.9) [4]	4.32 (0.994) [4]	193 (22.4) [4]
<b>All data</b>	70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]

Source code: test.R

Source file: test.tex

## 6 Long continuous table

- Continuous summary table in long format
- Long indicates that covariates go down the table

### 6.1 Ungrouped

```
pt_cont_long(  
  data = data,  
  cols = "WT,SCR,AGE",  
  units = units) %>%  
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Variable	n	Mean	Median	SD	Min / Max
WT (kg)	157	70.7	70.0	12.8	43.6 / 97.2
SCR (mg/dL)	160	1.36	1.04	0.986	0.710 / 5.59
AGE (years)	160	33.7	33.4	8.83	18.9 / 49.5

n: number of records summarized

SD: standard deviation

Min: minimum; Max: maximum

Source code: test.R

Source file: test.tex

Variable	n	Mean	Median	SD	Min / Max
WT (kg)	157	70.7	70.0	12.8	43.6 / 97.2
SCR (mg/dL)	160	1.36	1.04	0.986	0.710 / 5.59
AGE (years)	160	33.7	33.4	8.83	18.9 / 49.5

n: number of records summarized

SD: standard deviation

Min: minimum; Max: maximum

Source code: test.R

Source file: test.tex

## 6.2 Paneled

```
pt_cont_long(
  data = data,
  cols = "WT,SCR,AGE",
  panel = vars(Study = STUDYf),
  units = units) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Variable	n	Mean	Median	SD	Min / Max
<b>Study 12-DEMO-001</b>					
WT (kg)	29	72.2	70.0	14.3	50.9 / 97.2
SCR (mg/dL)	30	1.03	1.04	0.155	0.740 / 1.30
AGE (years)	30	32.0	28.0	9.19	19.9 / 47.8
<b>Study 12-DEMO-002</b>					
WT (kg)	49	72.4	72.1	11.5	51.5 / 96.6
SCR (mg/dL)	50	0.971	0.970	0.161	0.720 / 1.30
AGE (years)	50	35.0	36.0	8.20	20.3 / 49.2
<b>Study 11-DEMO-005</b>					
WT (kg)	39	68.9	65.4	14.5	43.6 / 92.8
SCR (mg/dL)	40	2.52	2.33	1.43	0.720 / 5.59
AGE (years)	40	32.8	33.4	8.48	19.2 / 49.5
<b>Study 13-DEMO-001</b>					
WT (kg)	40	69.4	68.1	11.6	50.7 / 96.6
SCR (mg/dL)	40	0.950	0.975	0.165	0.710 / 1.26
AGE (years)	40	34.2	35.2	9.67	18.9 / 49.5
<b>All data</b>					
WT (kg)	157	70.7	70.0	12.8	43.6 / 97.2
SCR (mg/dL)	160	1.36	1.04	0.986	0.710 / 5.59
AGE (years)	160	33.7	33.4	8.83	18.9 / 49.5

n: number of records summarized

SD: standard deviation

Min: minimum; Max: maximum

Source code: test.R

Source file: test.tex

Variable	n	Mean	Median	SD	Min / Max
<b>Study 12-DEMO-001</b>					
WT (kg)	29	72.2	70.0	14.3	50.9 / 97.2
SCR (mg/dL)	30	1.03	1.04	0.155	0.740 / 1.30
AGE (years)	30	32.0	28.0	9.19	19.9 / 47.8
<b>Study 12-DEMO-002</b>					
WT (kg)	49	72.4	72.1	11.5	51.5 / 96.6
SCR (mg/dL)	50	0.971	0.970	0.161	0.720 / 1.30
AGE (years)	50	35.0	36.0	8.20	20.3 / 49.2
<b>Study 11-DEMO-005</b>					
WT (kg)	39	68.9	65.4	14.5	43.6 / 92.8
SCR (mg/dL)	40	2.52	2.33	1.43	0.720 / 5.59
AGE (years)	40	32.8	33.4	8.48	19.2 / 49.5
<b>Study 13-DEMO-001</b>					
WT (kg)	40	69.4	68.1	11.6	50.7 / 96.6
SCR (mg/dL)	40	0.950	0.975	0.165	0.710 / 1.26
AGE (years)	40	34.2	35.2	9.67	18.9 / 49.5
<b>All data</b>					
WT (kg)	157	70.7	70.0	12.8	43.6 / 97.2
SCR (mg/dL)	160	1.36	1.04	0.986	0.710 / 5.59
AGE (years)	160	33.7	33.4	8.83	18.9 / 49.5

n: number of records summarized

SD: standard deviation

Min: minimum; Max: maximum

Source code: test.R

Source file: test.tex