# Comprehensive examples for the use of pt\_sum

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# 1 Default options

Ther are four statistics available with pts\_sum. Statistics can be arranged in any order. Options gap() and gap\_end() can be used to add gaps between rows.

```
. post `postname' ("") ("N") ("Mean (sd)") ("Median (IQR)") ("Range")
. pt_sum age qol bmi , postname(`postname') stats(N mean_sd median_iqr range) gap_end(1)
. post `postname' ("") ("N") ("Range") ("Median (IQR)") ("Mean (sd)")
. pt_sum age qol bmi , postname(`postname') stats(N range median_iqr mean_sd)
```

	N	Mean (sd)	Median (IQR)	Range
Age	1000	44.8 (10.1)	44.6 (37.7-51.5)	18.7 - 80.0
Quality of life	905	50.0 (15.2)	50.1 (39.8-60.4)	6.1 - 99.6
BMI	897	25.0 (2.1)	24.9 (23.6-26.3)	17.4 - 31.7
	N	Range	Median (IQR)	Mean (sd)
Age	1000	18.7 - 80.0	44.6 (37.7-51.5)	44.8 (10.1)
Quality of life	905	6.1 - 99.6	50.1 (39.8-60.4)	50.0 (15.2)
BMI	897	17.4 - 31.7	24.9 (23.6-26.3)	25.0 (2.1)

## 2 over()

The option over() can be used to present statistics over another variable, for example treatment group. over\_grps can be used to set the order in which the groups appear in. order(group\_sum) groups the columns by treatment group then by summary statistic.

```
. post `postname' ("") ("Group 0") ("") ("Group 1") ("")
. post `postname' ("") ("Mean (sd)") ("Median (IQR)") ("Mean (sd)") ("Median (IQR)")
. pt_sum age qol bmi , postname(`postname') stats(mean_sd median_iqr) gap_end(1) over(treat)
```

#### Statistics can be arranged in any order

```
. post `postname' ("") ("Group 1") ("") ("Group 0") ("")
. post `postname' ("") ("N") ("Range") ("N") ("Range")
. pt_sum age qol bmi , postname(`postname') stats(N range ) over(treat) over_grps(1 0) gap_end(1)
```

Summaries can be grouped by over group or by `statistic type.

```
. post `postname' ("") ("Mean (sd)") ("") ("Median (IQR)") ("")
. post `postname' ("") ("Group 1") ("Group 0") ("Group 1") ("Group 0")
. pt_sum age qol bmi , postname(`postname') stats(mean_sd median_iqr) over(treat) over_grps(1 0)
order(group_sum)
```

	Group 0		Group 1	
	Mean (sd)	Median (IQR)	Mean (sd)	Median (IQR)
Age	44.6 (10.1)	44.1 (38.0-51.4)	44.9 (10.1)	45.0 (37.5-51.5)
Quality of life	49.5 (15.1)	49.6 (39.0-59.2)	50.4 (15.3)	50.8 (40.6-60.7)
BMI	24.9 (2.1)	24.9 (23.6-26.3)	25.0 (2.0)	24.9 (23.7-26.4)
	Group 1		Group 0	
	N	Range	N	Range
Age	506	19.6 - 77.7	494	18.7 - 80.0
Quality of life	461	6.1 - 99.6	444	7.7 - 87.7
BMI	456	18.9 - 30.4	18.9 - 30.4 441	
	Mean (sd)		Median (IQR)	
	Group 1	Group 0	Group 1	Group 0
Age	44.9 (10.1)	44.6 (10.1)	45.0 (37.5-51.5)	44.1 (38.0-51.4)
Quality of life	50.4 (15.3)	49.5 (15.1)	50.8 (40.6-60.7)	49.6 (39.0-59.2)
BMI	25.0 (2.0)	24.9 (2.1)	24.9 (23.7-26.4)	24.9 (23.6-26.3)

### 3 overall()

When over() is specified, overall() can be used to a column summarising the wholde dataset. overall(first) positions the overall column first, overall(last) positions the column last.

Summaries can be grouped by over group or by `statistic type.

```
. post `postname' ("") ("N") ("") ("") ("Range") ("")
    . post `postname' ("") ("Group 1") ("Group 0") ("Overall") ("Group 1") ("Group 0")
("Overall")
    . pt_sum age bmi qol , postname(`postname') stats(N range ) over(treat) over_grps(1 0) gap_end(1)
overall(last) order(group_sum)
```

	Group 0		Group 1		Overall	
	Mean (sd)	Median (IQR)	Mean (sd)	Median (IQR)	Mean (sd)	Median (IQR)
Age	44.8 (10.1)	44.6 (37.7-51.5)	44.6 (10.1)	44.1 (38.0-51.4)	44.9 (10.1)	45.0 (37.5-51.5)
Quality of life	50.0 (15.2)	50.1 (39.8-60.4)	49.5 (15.1)	49.6 (39.0-59.2)	50.4 (15.3)	50.8 (40.6-60.7)
BMI	25.0 (2.1)	24.9 (23.6-26.3)	24.9 (2.1)	24.9 (23.6-26.3)	25.0 (2.0)	24.9 (23.7-26.4)
	N			Range		
	Group 1	Group 0	Overall	Group 1	Group 0	Overall
Age	506	494	1000	19.6 - 77.7	18.7 - 80.0	18.7 - 80.0
BMI	456	441	897	18.9 - 30.4	17.4 - 31.7	17.4 - 31.7
Quality of life	461	444	905	6.1 - 99.6	7.7 - 87.7	6.1 - 99.6

# 4 Decimals, variable names and comments.

decimal(#), range\_decimal(#) and med\_iqr\_decimal(#) set the number of decimal places to be used (default is 1). comment() can be used to add a comment. var\_lab and append\_label can be used to append text to variable labels.

	N	Mean (sd)	Median (IQR)	Range	Comment
Custom variable name	1000	45 (10)	45 (38-52)	19 - 80	The decimal option sets the decimal places
BMI - you can add	897	25.0 (2.1)	24.9 (23.6-26.3)	17.4 -	
extra text				31.7	
Quality of life	905	49.95	50.07 (39.81-	6 - 100	You can have different numbers of d.p. for
		(15.21)	60.42)		different summaries

# 5 if and in

# if and in can be used in the normal way

```
. post `postname' ("") ("N") ("Mean (sd)") ("Median (IQR)") ("Range")
. pt_sum age if age > 40 , postname(`postname') stats(N mean_sd median_iqr range)
. pt_sum bmi if bmi in 1/10 , postname(`postname') stats(N mean_sd median_iqr range)
. pt_sum qol in 1/10 if qol > 50 , postname(`postname') stats(N mean_sd median_iqr range)
```

	N	Mean (sd)	Median (IQR)	Range
Age	673	50.2 (7.0)	49.1 (44.5-54.4)	40.1 - 80.0
BMI	10	25.6 (1.3)	25.7 (24.4-26.4)	23.6 - 28.0
Quality of life	4	55.5 (3.3)	55.5 (53.0-58.0)	51.7 - 59.4