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 statsitics 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 | 441 | 17.4 - 31.7 |
|  |  |  |  |  |
|  | 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.

. post `postname' ("") ("Group 0") ("") ("Group 1") ("") ("Overall") ("")  
 . post `postname' ("") ("Mean (sd)") ("Median (IQR)") ("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) overall(first)

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.

. post `postname' ("") ("N") ("Mean (sd)") ("Median (IQR)") ("Range") ("Comment")  
 . pt\_sum age , postname(`postname') stats(N mean\_sd median\_iqr range) var\_lab("Custom variable name") comment("The decimal option sets the decimal places") decimal(0)  
 . pt\_sum bmi , postname(`postname') stats(N mean\_sd median\_iqr range) append\_label("- you can add extra text") comment("no comment")  
 . pt\_sum qol , postname(`postname') stats(N mean\_sd median\_iqr range) comment("You can have different numbers of d.p. for different summaries") decimal(2) range\_decimal(0) med\_iqr\_decimal(1)

|  | **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 extra text | 897 | 25.0 (2.1) | 24.9 (23.6-26.3) | 17.4 - 31.7 |  |
| Quality of life | 905 | 49.95 (15.21) | 50.07 (39.81-60.42) | 6 - 100 | You can have different numbers of d.p. for 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 |