**Beginner** *(Best for those with limited or no prior R or Tables/Listings/Figures experience)*

Here are specifications for some basic function to build the table.

* **tplyr\_table** – Create a Tplyr table object
* **set\_pop\_data** – Return or set population data bindings
* **set\_pop\_treat\_var** – Return or set pop\_treat\_var binding
* **add\_layer –** Attach a layer to a tplyr\_table object
* **group\_desc –** Create a desc layer for descriptive statistics summaries
* **set\_format\_strings –** Set the format strings and associated summaries to be performed in a layer
* **build -** Trigger the execution of the tplyr\_table
* **add\_column\_headers -** Attach column headers to a Tplyr output
* **header\_n -** Return or set header\_n binding

The input ADaM are: ADVS and ADSL taken from admiral - as for the tables exercises it is better to show more patients than just the few used in the preceding admiral exercise.

Using pre-prepared data: ADVS and ADSL as input, try out the provided R code “beginner\_exercise\_Tplyr.R” containing calls to Tplyr functions in order to create the table.

Run the code, and examine the input and output table.

Explore the documentation for the functions you have used here, to help understand the arguments used in the code:

* <https://atorus-research.github.io/Tplyr/reference/tplyr_table.html>
* <https://atorus-research.github.io/Tplyr/reference/pop_data.html>
* <https://atorus-research.github.io/Tplyr/reference/pop_treat_var.html>
* <https://atorus-research.github.io/Tplyr/reference/layer_attachment.html>
* <https://atorus-research.github.io/Tplyr/reference/layer_constructors.html>
* <https://atorus-research.github.io/Tplyr/reference/set_format_strings.html>
* <https://atorus-research.github.io/Tplyr/reference/build.html>
* <https://atorus-research.github.io/Tplyr/reference/add_column_headers.html>
* <https://atorus-research.github.io/Tplyr/reference/header_n.html>

Now, review the example code and answer the following questions:

1. How many result columns are there in the tables?
2. From what dataset do the header N counts originate?
3. What function is setting the descriptive statistics being performed?
4. Using the last example – increase the number of decimal places for standard deviation in the “Mean (sd)” row by 1 decimal place.
5. After completing the rtables exercise, compare the results of the rtables output to the Tplyr data. Do the numbers the match?

If you finish all the above, then have a read through the following pages, which will help you get a wider appreciation of the Tplyr:

* Getting Started with Tplyr:
  + <https://atorus-research.github.io/Tplyr/articles/Tplyr.html>