**Outputs: Table Formatting**

Once again, the files you need to submit are your **R script and this document in word or PDF by 11:59pm on the due date**. Paste in your code and output into this document where it is specifically requested (or a plot is requested – always paste those in). If directions are given but nothing is asked directly, an “OK” response will suffice. Name your files following this convention (where X is the number of the HW) and email them to Mike:

epid799b\_hwX\_lastname.pdf (Homework document with answers filled in)

epid799b\_hwX\_lastname.r (R script).

**Readability.** A reminder, please, for your sake and the instructor’s, make efforts to comment, create code blocks, and write legible code. However, on answering questions in this document, please write as little as you can – short answers and sentence fragments are encouraged.

**Recoding**. Homeworks 2 through 5 extend on the preceding homework, so please build this onto the foundation build previously (e.g. recoding, etc.). If necessary, update your preceding homework sections with the released answers.

Complete the follow steps in R/RStudio:

1. **Create a relatively\* well-formatted table 1.** Using either dplyr or the tableone packages, create a well-formatted excel table and paste the picture in below. See below for an example, but it does not have to exactly match this.*\*Please note that a perfect table is not required. Just get the gist of the pathway!*



1. **Create a well-formatted table 2.** Using tools like broom::tidy() and bind\_rows()/rbind(), send a data.frame of results (likely what you used in HW4 for ggplot-ing) to excel. Format that excel table and paste it in as a picture or word table below. See below for an example, but again, it does not have to match exactly. For an advanced challenge (but much showier code), you may consider trying purrr.



1. **Create a (minimally formatted) county map.** Use the sp or sf packages, a shapefile of North Carolina counties, and a county-specific table (e.g. one built in dplyr, like in HW3) to plot a basic exploratory county map of exposure (% early prenatal care) and outcome (% preterm birth). Optionally, you might also consider plotting effect estimates (e.g. risk differences) by counties to see if there is effect measure modification or clustering by county graphically. Note that the underlying spatial object would typically be output to a better formatting GIS (e.g. ArcGIS or QGIS) for production; for the purpose of this homework, minimal labeling and clean up is required since our only purpose is a quick exploratory map.

***Examples on following pages – note the severe lack of stying!***















