**EPI 510 --Stata assignment 2**

For this assignment, please submit two files: (1) **a file containing text, tables and figures** (.doc, .docx, .pdf or .txt) responding to questions posed in the assignment, and (2) **a Stata script** that performs the requested operations (.do).

1. For Stata assignment 1, you wrote a script that (a) brought in data from “vipcls.dta”, (b) set to missing all -1’s and implausible values for momage, delges and bw.
   1. For this assignment, create a new script, starting with your data management code from assignment 1 (i.e. the code from questions 1, 2c, and 4 from HW 1). We’ll use this as a starting point, make a few modifications, and add additional code to expand our analysis **(2 points)**.
   2. Use misstable summarize, all to produce output to check that your dataset has the appropriate values **(2 points).**
2. Define new categorical variables based upon existing variables. I’ll give the original variable names, and category cutoff values on the left, and the new variable name and the values corresponding to the category cutoffs on the right. Tip: remember to consider missing values, which are infinitely large in Stata – if the existing variable is missing than the new variable should be missing as well! **(2 points each, for 16 points total)**
   1. momage (<19, 20-29, 30+) -------------------> momageCat (1, 2, 3)
   2. grade (<12, 13+), ----------------------------> college (0, 1)
   3. marstat (1, 2-4, 5) --------------------------> marCat (1, 2, 3)
   4. partyr (<1, 2+) -----------------------------> monog (1, 0)
   5. pregnum (1 vs 2+) ---------------------------> multipar (0, 1)
   6. delges (<37, 37-42, 43+) -------------------> delgesCat (1, 2, 3)
   7. bw (<1500, 1500-2499, 2500-3999, 4000+) -> bwCat (1, 2, 3, 4).
   8. Finally, create a new variable for Study Clinic (clinic), which is based upon the patid (Clinic 1 has patid 1,000,000 to 1,999,999, Clinic 3 has patid from 3,000,000 to 3,999,999, etc). Clinics (which are fabricated) are as follows: 1=Olympia, 3=Everett, 5=Seattle, 6=Bellingham, 7=Spokane, 8=Bellevue, 9=Tacoma
3. We have variables indicating smoking and alcohol use in the first and second trimester. We want to define 2 new variables categorizing these behaviors across both trimesters:
   1. Create a new variable, called smoke, for smoking during pregnancy with three categories: (1) never smoked, (2) 1st trimester only, and (3) 2nd trimester with or without smoking in the 1st trimester. **(2 points)**
   2. Create a new variable, called drink, for alcohol use during pregnancy with three categories: (1) non-drinker, (2) use in 1st trimester only, and (3) use in 2nd trimester with or without use in the 1st trimester. **(2 points)**
4. Now we’re going to work with date variables:
   1. Create a date variable containing the enrollment date. **(2 points)**
   2. Create a date variable containing the delivery date. **(2 points)**
   3. Format these two new date variables in %td format. **(2 points)**
   4. Create a new variable containing the number of days between enrollment and delivery. **(2 points)**
   5. Determine if there are any delivery dates which precede enrollment. If so, at which clinic was the subject who had date problems enrolled? **(2 points)**
   6. Set any implausible number of days between enrollment and delivery to missing in your permanent Stata dataset. **(2 points)**
5. Let’s add labels to produce a neat dataset:
   1. Label all variables in the dataset (variable labels) **(6 points)**
   2. Define and apply value labels to all categorical variables (raceth, marstat, etoh1, etoh2, deltype, induclab, auglab, intrapih, and all variables created in questions 2 and 3 of this assignment). **(6 points)**
6. Save this dataset as vipclsClean.dta (we’ll be working from this clean dataset in future homework assignments.) **(2 points)**