**Group 2 - Family income level and cholesterol medication compliance (NHANES)**

**Cross-sectional study - NHANES 2017-prepandemic 2020**

Study question: What is the association, if any, between **family income (family monthly poverty level)** and **endorsement of compliance with a prescribed cholesterol medication regimen** among adults that endorsed being told they needed to take a prescribed medication for cholesterol?

**Study sample**: Study participants who answered questions related to high cholesterol levels (BPQ080, BPQ060, BPQ090D, BPQ100D)  excluded participants with any cancer history

Dataset information:   [Group 2 project info Income C Med NHANES.xlsx](https://uth.instructure.com/courses/81957/files/6031111?wrap=1)

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**Exposure:** Family income, respective to the poverty line (INDFMMPI, INDFMPIR, INDFMMPC)

**Outcome:** Endorsed compliance with taking prescribed cholesterol medication (BPQ100D)

* + Subjective, dichotomous categorical: BPQ100D
  + There may be more objective data in the [Prescription Drug Data](https://wwwn.cdc.gov/Nchs/Nhanes/2017-2018/P_RXQ_RX.htm)
  + [Links to an external site.](https://wwwn.cdc.gov/Nchs/Nhanes/2017-2018/P_RXQ_RX.htm), relating to if the interviewer saw the medication bottle or not*,* but there is no variable relating to a count to confirm the subject appears to actually be taking the medication or not. E78.0 (pure hypercholesterolemia) and E78.0P (prevent high cholesterol) would be the codes of interest
* **Confounders/Other Variables:**
  + **Health Insurance status:** subjective, polychotomous categoricals
    - HIQ011, HIQ032A, HIQ032B, HIQ032C, HIQ032D, HIQ032E, HIQ032H, HIQ032I, HIQ032J, HIQ260, HIQ270, HIQ210
  + **Race/Hispanic origin:** subjective, polychotomous categoricals
    - RIDRETH1, RIDRETH3
  + **Gender:** subjective, dichotomous categorical
    - RIAGENDR
  + **Age:** subjective, continuous numeric (calculated by interviewer from provided DOB)
    - RIDAGEYR (Age >= 20 years)
  + **Educational level:** subjective, polychotomous categorical
    - DMDEDUC2
  + Marital status
  + Other CVD conditions

Dataset:

STATA;  [Group2\_NHANES\_drugcompliance.dta  &](https://uth.instructure.com/courses/81957/files/6031114?wrap=1)

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Note:  The 'Cholesteroldruginfo dataset' contains individual medication and drug indications only for hypercholesterolemia (E78.0 or E78.0p). This dataset can be merged with Group2\_NHANES\_drugcompliance dataset by 'SEQN'. However, some participants reported to take more than 1 type of cholesterol medications for past month (RXDUSE) so please select one or transpose 'cholesteroldruginfo' dataset to a wide format.