**Hypotheses to test in NHANES data**

**Are POPs associated with thyroid hormone levels?**

Outcomes: lbxtsh, lbxt4

Covariates: RIDAGEYR RIAGENDR RIDRETH1 BMXBMI lipid (if not using exposures ending in LA)

\*clean data set;

\*remove those not in pcb subgroup 1999-2001;

if WTSPO4YR <0 then delete;

\*remove those with thyroid disease or thyroid cancer or using thyroid meds;

if MCQ160I=1 or MCQ160M=1 or thyroidcancer=1 or rx\_thyroid=1 then delete;

\*remove those using steroids or corticosteroids;

if rx\_corticosteroids=1 or rx\_hormones=1 then delete;

\*delete persons <20 years of age;

if RIDAGEYR<20 then delete;

**Are POPs associated with steroid hormones in males?**

Outcomes: SS3ADLG SSSE2 SSSHBG SSTESTO

Covariates: RIDAGEYR RIDRETH1 BMXBMI lipid (if not using exposures ending in LA)

\*clean data set;

\*remove those not in pcb subgroup 1999-2001;

if WTSPO4YR <0 then delete;

\*remove those using steroids or corticosteroids or thyroid hormones;

if rx\_corticosteroids=1 or rx\_hormones=1 or rx\_thyroid=1 then delete;

\*delete persons <20 years of age;

if RIDAGEYR<20 then delete;

\*remove females;

if RIAGENDR=1 then delete;

**Are POPs associated with hemoglobin A1c in non-diabetics?**

Outcome: LBXGH

Covariates: RIDAGEYR RIDRETH1 BMXBMI lipid (if not using exposures ending in LA)

\*clean data set;

\*delete persons <20 years of age;

if RIDAGEYR<20 then delete;

\*delete persons using diabetes medications or with diagnosed diabetes;

If DIQ010 =1 or rx\_antidiab=1 then delete;