

SWAN Repository Dataset Documentation

Study: App 023, "Depression, Adipocytokines and Metabolic Dysregulation in Black and White Women", Everson-Rose

Datasets: SWANRep015_Adipokines_Long; SWANRep015_Adipokines_V00;

Cohort: SWAN, Pittsburgh and Chicago sites

CONTENTS:

Dataset Variables						
#	Variable	Type	Len	Format	Informat	Description
1	ARCHID	Char				Encrypted SWAN Subject ID
2	Visit	Num	8			Study visit
3	Adiponectin	Num	8			Adiponectin value in ng/mL
4	Leptin	Num	8			Leptin value in µg/mL
5	log_Adiponectin	Num	8			log-transformed adiponectin value
6	log_Leptin	Num	8			log-transformed leptin value
7	Analysis Group	Char	19			Longitudinal (visits 0,1,3,7) or Baseline/V00; (Separate data sets.)

PARTICIPANTS: A total of 581 women (225 African Americans; 356 whites) from the Pittsburgh and Chicago SWAN sites participated in the SWAN Mental Health Study and were eligible for inclusion in this project.

ASSAYS: Project #23 supported assays for two adipocytokines, leptin and adiponectin, which were derived from blood specimens obtained as part of the SWAN assessments at baseline, and follow-ups 01, 03 and 05. Fasting, morning (before 10 a.m.) blood draws were obtained for all SWAN participants. Blood draws were targeted to the early follicular phase of the menstrual cycle (days 2-5) among cycling women; among non-cycling women, blood draws are obtained within 90 days of the anniversary of their baseline SWAN study visit. Cycle day of blood draw was recorded as within or outside the targeted early follicular phase for cycling women and as outside this window for non-cycling women. Samples were maintained at 4 degrees C until separated and then frozen at -80 degrees C and shipped on dry ice to a central laboratory (Medical Research Laboratories, Lexington, KY); aliquots obtained for the SWAN Repository were shipped on dry ice to the University of Michigan's SWAN Repository. Specimens for the study were shipped in 3 batches from the SWAN Repository between late July and mid-September 2009 to the laboratory of Dr. Peter Mancuso at the University of Michigan. Total adiponectin and leptin in human serum samples were determined spectrophotometrically from 0.5 ml serum specimens in duplicate using commercially available kits (ELISA) obtained from Linco, a subsidiary of Millipore, St. Charles, MO. For the cross-sectional analyses with a sample size of 581 and 2 adipocytokine outcomes, a total of 1,162 specimens were assayed in duplicate. For longitudinal analyses, the sample size was 266, with each subject contributing 3 specimens corresponding to 3 follow-up SWAN examinations. This resulted in 1,596 specimens assayed in duplicate for the longitudinal component of the project. All assays were conducted under the direction of Dr. Peter Mancuso at the University of Michigan.

VARIABLES

ARCHID: encrypted ID

Adiponectin: raw adiponectin value obtained from the assays, in ng/mL

Visit: SWAN visit number; 0=baseline; 1=FU visit 01; 3=FU visit 03; 5=FU visit 05

Leptin: raw leptin value obtained from the assays, in $\mu\text{g/mL}$

Log_Adiponectin: log-transformed adiponectin value

Log_Leptin: log-transformed leptin value

Data are sorted by ID and visit, per the following SAS code:

```
proc sort data=Adipokine; by visit EID; run;
```

The data should be merged with other dataset(s) that contains the predictors/covariates that an investigator is interested in, by EID and visit.

SAMPLE SAS CODE:

1) for cross-sectional analyses:

```
data baseline; set Adipokine; where visit=0; run;
proc glm data=baseline;
class COVARIATES;
model log_Adiponectin=COVARIATES;
run;
```

2) for longitudinal analyses:

```
proc mixed data=Adipokine method=reml;
class COVARIATES EID;
model log_Adiponectin=COVARIATES visit / solution;
repeated / type=un subject=EID;
run;
```