



Visit 17 – Additional Hormones Dataset

CODEBOOK

ARCHIVED DATASET 2026

Dataset file niahrm2026

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DOCUMENTATION FOR THE SWAN VISIT 17 ADDITIONAL HORMONES DATASET

This dataset contains all Estradiol and Testosterone assay data for the SWAN Visit 17 cohort. **PLEASE NOTE:** Visit 17 testosterone and estradiol assays were processed by the Metabolomics lab using LC-MS/MS. However, estradiol and testosterone have been collected approximately annually since baseline and were processed by immunoassay prior to Visit 15. Given the difference in the assay processing methods, the Visit 17 testosterone and estradiol results should only be analyzed cross-sectionally or in conjunction with the Visit 15 LC-MS/MS results.

Who is included in the public use dataset:

The dataset contains information for the 1150 women who participated in the blood draw at Visit 17 and have Estradiol and/or Testosterone assay data available.

How this codebook is constructed:

This documentation section contains in depth explanation of the Visit 17 Additional Hormones dataset., and a list describing the variables used to create this dataset is also provided. Given there are no forms for the lab data, no form pages are included in this codebook. For more information on specimen collection, please refer to the SWAN Visit 17 Core dataset.

The assigned participant ID has been replaced with a randomly generated ARCHID in order to protect participant privacy. The baseline interview date is denoted as day 0 and is used as the basis for all other dates. Variables describing the race/ethnicity of participants (RACE) was added from the Screener dataset.

Missing data coding:

Original missing codes (-1: not applicable, -7: refused, -8: don't know, -9: missing) have been recoded to SAS missing codes (.B: not applicable, .D: refused, .C: don't know, and .A: missing).

Variables included in the dataset:

Variable	Label	Codes
ARCHID	Participant ID	
VISIT	Study Visit	"17" = Visit 17
RACE	Race/Ethnicity	1 = Black 2 = Chinese/Chinese American 3 = Japanese/Japanese American 4 = White Non-Hispanic 5 = Hispanic
SPEDAY17	Day of V17 Specimen Collection	Days since baseline interview
OUTSPE17	Specimen Collection Form Completed Outside of Visit 17 Window	0 = Not flagged 1 = Flagged
FLAGCOL17	Flag: diff collection dates for CLASS & SPEC	0 = Not flagged 1 = Flagged
FLGDRAW17	Incomplete blood draw - may affect some results	0 = Not flagged 1 = Flagged
E2MSRES17	Estradiol result (pg/mL)	[Numeric]
E2MSLLD17	Estradiol lower limit of detection	[Numeric]
FLGE2MS17	Estradiol flag value 1 if result <0.6	0 = Not flagged 1 = Flagged
TMSRESU17	Testosterone result (pg/mL)	[Numeric]
TMSLLD17	Testosterone lower limit of detection	[Numeric]
FLGTMS17	Testosterone flag value 1 if result <10.2	0 = Not flagged 1 = Flagged

Additional Information:

Two hormone analytes were assayed and included in this dataset:

Variable	Assay	Units	Calibrated
E2MSRES17	Estradiol	pg/mL	No
TMSRESU17	Testosterone	pg/mL	No

Flag variables have been created for each of the key primary hormone results variables. These flag variables indicate 'unusual' or outlying values. They have been identified following examination of the lab results, as well as longitudinal checks on absolute change, and percentage change, in values for a given participant between follow-ups 15 and 17.

The table below indicates the ranges that were used to identify 'unusual' values in the Visit 17 dataset. Flags for all key variables were set to 1 for any result outside of these specified ranges. In the case of the longitudinal checks, we have identified unusual cases based on the distribution of the data. No flags were set to indicate the values identified by longitudinal checks.

Lab Result	Flag Name	Flag Range	Units
Estradiol	FLGE2MS17	<0.6	pg/mL
Testosterone	FLGTMS17	<10.2	pg/mL

Note that these flag variables have been created with the aim of highlighting unusual values for analysts. Analysts should determine whether, when viewed in conjunction with other related model variables, the flagged "out of range" values are substantial outliers.