Vitamin D Data at Visit 02 and Visit 12

CODEBOOK

ARCHIVED DATASET 2018

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DOCUMENTATION FOR THE PUBLIC-USE SWAN VISIT 02 AND VISIT 12 VITAMIN D DATASET

***Who is included in the frozen data set*:**
The CLASS laboratory (CLASS) provided previously thawed serum from the SWAN Visit 02 and Visit 12 specimen collection to the Massachusetts General Hospital Pathology Service (Path Lab) for Vitamin D testing. The Path Lab measured 25-OH-VitD3 and D2 by liquid chromatography–mass spectrometry (LC-MS/MS). Values were quantified individually and reported as a sum and accompanied by a clinical reference range to the sum.

The sample size by clinic visit is as follows:
N = 2301 at Visit 02
N = 1946 at Visit 12

Quantity not sufficient (QNS) samples:
V02: 353 of the original serum samples shipped to the Path Lab from CLASS were deemed Quantity Not Sufficient (QNS). Additional samples were identified and shipped for all but 52 participants.

V12: 70 of the samples shipped to the Path Lab were deemed QNS and no replacements were sent from CLASS to MGH.

Unaccounted samples:
V02: 144 serum samples on the CLASS picklist/shipment list were not assayed because these serum samples were never received and therefore CLASS was unable to locate them. Another 23 participants were identified as having had blood drawn at V02 but these participants were not selected for shipment by CLASS because the samples were unidentified (no ID or Visit) in the CLASS database.

V12: 11 samples were on the CLASS picklist/shipment list but assay values for these participants were not included in the final dataset. The Path Lab indicated that serum samples for these 11 samples were never received and CLASS was unable to locate them.

Data Cleaning:
In the instances where the values for either Total 250 HD or OH D3 are <3, the value has been set to 2.9. Total 25-OH-VitD is included as a created variable. All Vitamin D variables are presented in units of ng/mL. The following code was used to convert character variables to numeric:

```
TOTAL = TOTAL_25OHD * 1;  *Because it was character;
IF TOTAL_25OHD = '<3' THEN TOTAL = 2.9;

OHD3 = OHD3_CHAR * 1;
IF OHD3_CHAR = '<3' THEN OHD3 = 2.9;
```

Please Note: Vitamin D2 values were NOT converted to numeric as most were <3.

Variables included in the dataset:
The assigned participant ID has been replaced with a randomly generated ARCHID in order to protect participant privacy. Day of collection (COLLDAY) is given in days from interview date at baseline. A variable describing the race/ethnicity of participants (RACE) and study site (SITE) were added from the Screener dataset.

QNS_Dilution indicates samples that were run in dilution. These were small sample amounts that required dilution in order to run the assays.

Variable	Label	Code
ARCHID	Participant ID	
VISIT	Study visit	'02' or '12'
RACE	Race/Ethnicity	1= Black 2= Chinese/Chinese American 3= Japanese/Japanese American 4= White Non-Hispanic 5= Hispanic
SITE	Study Site	11= Detroit, MI 12= Boston, MA 13= Chicago, IL 14= Oakland, CA 15= Los Angeles, CA 16= Newark, NJ 17= Pittsburgh, PA
COLLDAY	Collection day (days since baseline)	Days since baseline
QNS_DILUTION	QNS Dilution	0 = No 1 = Yes
OHD2	25-OH-D2 (ng/mL)	Character value
OHD3	25-OH-D3 (ng/mL)	Numeric value
TOTAL	Total 25-OH-VitD (ng/mL)	Numeric value