Jackson Heart Study

Vanguard Center Package

Cumulative Release Notes

*(click on arrows to expand sections)*

# JHS Data Update Schedule

The following data archetypes are updated annually. Cohort and Annual Follow-Up datasets contain updated data through the previous calendar year, while Surveillance and Events data generally have a lag of 2-3 years for updates due to the adjudication process.

## Cohort

* 1. Mortality
  2. Cohort Lost-to-follow-up (LTFU)

## Annual Follow-Up (AFU)

* 1. Annual Follow-Up (AFU)
  2. Medical Condition Update (MCU)

## Events

* 1. Events Lost-to-follow-up (LTFU)
  2. Coronary Heart Disease (CHD)
  3. Heart Failure (HF)
  4. Stroke

# JHS VC Release 2015

## General

Updated FAQ document

This FAQ includes questions the JHS CCDC has received regarding JHS data. The FAQ includes documentation on the event adjudication process as well as other useful documentation.

Cohort Eligibility (ELGa) and Deaths/Refusals (TERa) datasets have been relocated

Architecture updates have led to the relocation of these datasets to the Cohort folder. They can be found in the ‘JHS Cohort Frozen Files’ data subfolder.

Events

1. Events data set provides adjudicated events data until 12/31/2012 for Coronary Heart Disease (CHD),  Stroke and heart failure Hospitalization (HF);
2. Incident heart failure Hospitalization data set (incevthfder) provides second set of variables by combining AFU identified heart failure Hospitalization events to provide incident heart failure hospitalization from V1 which is suggested to be used for sensitivity analysis
3. Two changes are made for incident data set to reflect the surveillance  process more accurately,

Consent information is incorporated in the incident data set of CHD, HF and Stroke (incevtchd, incevtstroke, incevthfder);

Censoring time for alive participants with positive consent is set to administrative censoring time (12/31/2012).

Expanded cohort to include participants that were previously excluded for being outside of the target enrollment age

After careful consideration, five participants (J519778, J543043, J553528, J558277, and J500324) have been added to the cohort. These participants were previously excluded because to their baseline age fell outside of the target enrollment age of 35 – 84. As there were over 200 participants that in the Family Study in the range of 18 – 34, it was concluded that these added participants would serve a better purpose to enrich the JHS research cohort rather than introduce bias. An indicator (ageIneligible) has been added to the analysis datasets to allow for quick sensitivity checks to validate this claim on a project-by-project basis.

## AFU

Created new version of the AFUlong dataset

The data in this release is current through December 31, 2014 and contains data from AFUA, AFUB, AFUC, AFUD, AFUE, AFUF, AFOA, AFOB, AFOC, and AFOD.

## Analysis Data

New sections/variables included in the analysis datasets

1. Design, Study-Level and Other Items (1 new!)
   1. Original Age Eligibility (new!)
2. Demographics (1 updated)
   1. Current Smoker definition (updated)
3. Anthropometrics (1 new!)
   1. Body Surface Area variable (new!)
4. Medications (14 updated)
   1. Missing medications coded as zero when participants did not bring any medications and stated they had not taken any (updated)
5. Hypertension (1 new! 4 updated)
   1. BP Calibrated across visits (updated)
   2. Ankle Brachial Index (new!)
6. Diabetes
7. Lipids
8. Biospecimens
9. Renal (1 new!)
   1. CKD History (new!)
10. Respiratory
11. Echocardiogram
12. Electrocardiogram
13. CT
14. Stroke
15. CVD History
16. Healthcare Access
17. Psychosocial (6 new! 1 Updated)
    1. Education (Updated)
    2. High School Education indicator (new!)
    3. Everyday Discrimination Experiences (new!)
    4. Major Life Events Discrimination (new!)
    5. Discrimination Burden (new!)
    6. Total Depressive Symptoms Score (new!)
    7. Total Weekly Stress Score (new!)
    8. Total Global Stress Score (new!)
18. Life's Simple 7
19. Nutrition (new section!)
    1. Dark-green Vegetables (new!)
    2. Eggs (new!)
    3. Fish (new!)
    4. Vitamin D variables
20. Physical Activity (new section!)
    1. Sport Index (new!)
    2. Home/yard Index (new!)
    3. Active Living Index (new!)
21. Environmental (new section!)
    1. Fake census tract ID of residence
    2. Median Household income in Census Tract
    3. % below poverty in Census Tract
    4. % black non-hispanic in Census Tract
    5. % white non-hispanic in Census Tract
    6. Census Tract SES score (PC2)
    7. Census Tract SES score (Diez-Roux 1990)
    8. Neighborhood Problems (age, sex adj.)
    9. Neighborhood Social Cohesion (age, sex adj.)
    10. Neighborhood Violence (age, sex adj.)
    11. Favorable Food Stores (3 mile kernel)
    12. Physical Activity Facilities (3 mile kernel)
    13. Percent Residential Land Use per square mile
    14. Population Density per square mile
22. Genetic Phenotypes (new section! – Descriptions Only, Contact CC for Data)
    1. Sickle Cell trait / disease (rs334)
    2. Sickle Cell (rs334)
    3. APOL1 G1 Risk Allele from SNPs rs73885319 and rs60910145
    4. APOL1 G2 risk allele from indel rs71785313
    5. APOL1 CVD risk genotype
    6. Duffy blood group antigen (rs2814778)
    7. PCSK9-C679X
    8. Low density lipoprotein cholesterol level quantitative trait locus 1 (rs28362286)
    9. SerineTyrosine Substitution at AA1103 (rs7626962)
    10. Hemoglobin C (HbC) locus (rs33930165)

## Ancillary Studies

DPASS project files have been relocated

Architecture updates have led to the relocation of these project files to the Supplementary folder.

ASN0023Diez Roux-Geocode 1 2: This folder contains visit 1 & 2 neighborhood environment variables generated by CIAHD: Michigan Center for Integrative Approaches to Health Disparities.

ASN0033Wilson-1000 Genomes Imputed: This study contains 1000 Genomes Imputed SNPs for approximately 3000 JHS participants. Note: Genetic Data and related derived genetic phenotypes are currently only available through direct request from the JHS Coordinating Center and are not distributed with the VC package. We include information on the data available to facilitate requests

ASN0041Bidulescu-Adiponectin: This dataset contains adiponectin values for 5106 JHS participants.

ASN0042Liu-CT:

ASN0069Taylor-Whole Exome Sequencing: This folder contains Exome Chip data for approximately 3000 JHS participants. Note: Genetic Data and related derived genetic phenotypes are currently only available through direct request from the JHS Coordinating Center and are not distributed with the VC package. We include information on the data available to facilitate requests.

## Cohort

Updated frozen LTFU dataset

The new version of the LTFU dataset, frozen at 12/31/2014, utilizes the death data verified with the CDC’s National Death Index (<http://www.cdc.gov/nchs/ndi.htm>), to generate mortalitity incident analysis related variables lastdate and death. Lastdate variable in this data set which is suggested to be used for mortality incident analysis will be administrative censoring date 12/31/2014 for alive participants on 12/31/2014 or deceased date.

AFU until 12/31/2014 is used to determine the last contact time and contact status (variable lastcontactdate and laststatus) allowing for the calculation of a participant’s study involvement status (i.e., active, lost-to-follow-up, etc.).

*Of note, variable lastdate and death variables are suggested by CCDC to be used for mortality incident analysis.*

In addition,

The cohort LTFU dataset [deathLTFUcohort (through 12/31/2014)] was constructed to be consistent with data that utilizes the JHS administrative cut-off date (12/31/2014, i.e., for AFU)

Deathltfucohort data set provides mortality data until 12/31/2014

| **Table of laststatus by lastyear** | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Contact Type / Participant Status** | **Last Year Contacted** | | | | | | | | | | | | | | |
| **Count Overall %** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** | **Total** |
| **AFU Contact** | 0 0 | 1 0 | 10 0 | 4 0 | 5 0 | 8 0 | 21 0 | 70 1 | 45 1 | 64 1 | 158 3 | 270 5 | 350 7 | 3403 64 | 4409 83 |
| **Confirmed Deceased** | 4 0 | 14 0 | 33 1 | 37 1 | 62 1 | 63 1 | 71 1 | 58 1 | 86 2 | 74 1 | 73 1 | 67 1 | 67 1 | 86 2 | 795 15 |
| **Exam 1 Contact** | 3 0 | 0 0 | 2 0 | 1 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 6 0 |
| **Exam 2 Contact** | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 2 0 | 1 0 | 6 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 9 0 |
| **Exam 3 Contact** | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 2 0 | 6 0 | 31 1 | 44 1 | 4 0 | 0 0 | 87 2 |
| **Total** | 7 0 | 15 0 | 45 1 | 42 1 | 67 1 | 73 1 | 93 2 | 134 3 | 133 3 | 144 3 | 262 5 | 381 7 | 421 8 | 3489 66 | 5306 100 |

## Events

Derived HF incident data updates

Incident heart failure Hospitalization data set (incevthfder) provides second set of variables by combining AFU identified heart failure Hospitalization events to provide incident heart failure hospitalization from V1 which is suggested to be used for sensitivity analysis;

Updates made for incident data set to reflect the surveillance process more accurately

Consent information is incorporated in the incident data set of CHD, HF and Stroke (incevtchd, incevtstroke, incevthfder).

Censoring time for alive participants with positive consent is set to administrative censoring time (12/31/2012).

Adjudicated event data for HF, CHD and stroke through 2012

This package includes adjudicated event data for HF, CHD and stroke through 2012 for Coronary Heart Disease (CHD), Stroke and heart failure Hospitalization (HF).

LTFU dataset (*deathltfuevents*) frozen at 2012

This package includes LTFU dataset, frozen at 12/31/2012, that  utilizes the annual record of calls along with the death data verified using the CDC’s National Death Index (<http://www.cdc.gov/nchs/ndi.htm>), with the date and coroner-determined cause of death to determine last point of contact for the entire JHS cohort. This should allow for the determination of a participant’s censoring time in incident data sets (incevtchd, incevtstroke and incevthfder).

| **Table of laststatus by lastyear** | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Contact Type / Participant Status** | **Last Year Contacted** | | | | | | | | | | | | | |
| **Count Overall %** | **2000** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **Total** |
| **AFU Contact** | 0 0 | 0 0 | 1 0 | 10 0 | 4 0 | 5 0 | 7 0 | 20 0 | 70 1 | 43 1 | 79 1 | 312 6 | 3444 65 | 3995 75 |
| **Confirmed Deceased** | 0 0 | 4 0 | 13 0 | 32 1 | 35 1 | 61 1 | 62 1 | 70 1 | 55 1 | 82 2 | 71 1 | 67 1 | 65 1 | 617 12 |
| **Exam 1 Contact** | 0 0 | 3 0 | 0 0 | 2 0 | 1 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 6 0 |
| **Exam 2 Contact** | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 2 0 | 1 0 | 5 0 | 0 0 | 0 0 | 0 0 | 0 0 | 8 0 |
| **Exam 3 Contact** | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 1 0 | 11 0 | 66 1 | 205 4 | 283 5 |
| **Refused** | 4 0 | 37 1 | 53 1 | 56 1 | 30 1 | 1 0 | 25 0 | 17 0 | 40 1 | 26 0 | 41 1 | 45 1 | 22 0 | 397 7 |
| **Total** | 4 0 | 44 1 | 67 1 | 100 2 | 70 1 | 67 1 | 96 2 | 108 2 | 170 3 | 152 3 | 202 4 | 490 9 | 3736 70 | 5306 100 |

Notes:

* The events LTFU dataset [*deathltfuevents* (through 12/31/2012)] was constructed to be consistent with data elements housed in the events data folder
* Regarding how to determine the censoring time for non-death participants in the incidence data sets (incevtchd, incevthfder and incevtstroke), we proposed three alternative methods.

a. last contact before administrative censoring date (12/31/2012) as censoring time ---- corresponding to **lastdate** variable in Deathltfuevents data set

b. last known contact time prior to administrative censoring date (12/31/2012) if contacts past admin censoring date (12/31/2012) does not exist or administrative censoring date (12/31/2012) if contacts past admin censoring date (12/31/2012) exist ---- corresponding to **lastdate2** variable in Deathltfuevents data set

c. administrative censoring time (12/31/2012) ---- corresponding to **lastdate3** variable in Deathltfuevents data set

In our 2012 incidence data sets, we updated the main option used to determine the censoring time to reflect the real surveillance process more accurately. **Option c** was used to derive our incident data sets (incevtchd, incevthfder and incevtstroke) in contrast to **Option a** used in 2010 or 2011 events data set.

Heart Failure Incidence Dataset: Incevthfder

Heart Failure event is only adjudicated after 01/01/2005 in Jackson Heart Study. The incevthfder dataset contains the incidence information about heart failure Hospitalization events and two sets of incident HF Hospitalization variables are provided in this dataset. The first set of variables (HF, date, examdate, years, days, contacttype) are consistent with what we provided of 2011 data by using AFU data to determine heart failure status on 01/01/2005 and excluding subjects with positive or uncertain heart failure status on 01/01/2005 and, deceased or gave negative answer for medical record abstraction consent question before 01/01/2005 (HF variable is missing). As data coordinating center, we suggested HF sets of variable (HF, Date, year, years etc.) for main analysis. In addition, we also combined AFU reported heart failure Hospitalization events from V1 to 01/01/2005 with adjudicated Heart Failure Hospitalization events from 01/01/2005 to 12/31/2012 to generate second set of incident heart failure Hospitalization variables (AFUHF, AFUdate, AFUexamdate, AFUyears, AFUdays, AFUcontacttype) used for sensitivity analysis.

Detailed information regarding the derivation of this data set can be referred to:

…\VanguardCenters\data\Events\0-info\About the Data - Events.docx and two docs in the following folder: …\VanguardCenters\data\Events\0-info\HF Incidence Docs.

## Supplementary

Updated architecture

This folder now warehouses supplementary projects undertaken by the coordinating center and its affiliates.

SSN0001-DPASS

Architecture updates have led to the relocation of Diet and Physical Activity Sub-Study project files.

SSN0002-Medications

SSN0003-LS7

Architecture updates have led to the relocation of the Life’s Simple Seven project files.

SSN0004-BP Calibration

This folder houses the blood pressure comparability study (BPCS). Data includes calibrated blood pressures for all visits. Programs include macros to produce the calibrated data as well as a program to produce some basic exploratory data analysis.

SSN0005-Industry and Occupation

SSN0006-Nutrition

SSN0007-Physical Activity

## Visit 1 “Raw Data”

Updated baseline cohort

The Exam 1 datasets now include observations for participants in the expanded cohort (n = 5,306). The lab results (CENa and LOCa), anthropometrics (ANTv), and ultrasound (ULDAdv) data for these participants are still under review and are scheduled for release in the next data package update.

Updated documentation

Now including all available exam forms, QxQs, and manuals.

## Visit 2 “Raw Data”

Updated baseline cohort

The Exam 2 datasets now include observations for participants in the expanded cohort (n = 5,306) that attended this exam visit (n = 3). The lab results (CENb), medication list (MEDCODES) and MRI (MRIb) data for these participants are still under review and are scheduled for release in the next data package update.

Includes data from participants with complex consent patterns

Following thorough review, the Exam 2 datasets now include observations for participants that were previously excluded due to complex consent patterns (n = 8).

Updated documentation

Now including all available exam forms, QxQs, and manuals.

## Visit 3 “Raw Data”

Updated baseline cohort

The Exam 3 datasets now include observations for participants in the expanded cohort (n = 5,306) that attended this exam visit (n = 4). The lab results (CENc) and medication list (MEDCODES) data for these participants are still under review and are scheduled for release in the next data package update.

Updated documentation

Now including all available exam forms, QxQs, and manuals.

## Example Projects

Wang 2015 - Serum Creatinine Calibration (new!)

0-info folder includes manuscript proposal submission, ASN 2014 abstract submission and final manuscript submission materials.

1-data folder includes additional data and data set explanation used for this project.

2-programs folder includes sas programs used for data analysis for this project.

3-results folder includes analysis results.

Williams 2010 - Coping and Blood Pressure

Included derived datasets with supporting programs and documentation.

## Teaching Materials

No changes have been made for this release

## Working Groups

Life’s Simple Seven project files have been relocated

Architecture updates have led to the relocation of these project files to the Supplementary folder.

Medications project files have been relocated

Architecture updates have led to the relocation of these project files to the Supplementary folder.

Hypertension

Included updated derived datasets with supporting programs and documentation.

CVD Events

Melissa Greiner from Duke Clinical Research Institute update the data set and related documents by adding several medication variables and have changed the derived variable ‘lvh\_any’ for left ventricular hypertrophy based on a suggestion from a reviewer for Rob’s QRS manuscript (Mentz et al. *Circ Heart Fail* 8:243-251).

NOTE: this folder was previously named ‘Stroke/HF’, but has been renamed due to re-branding.

CKD

Included updated derived datasets with supporting programs and documentation.

Environmental

Included updated derived datasets with supporting programs and documentation.

Nutrition

Included updated derived datasets with supporting programs and documentation.

Physical Activity

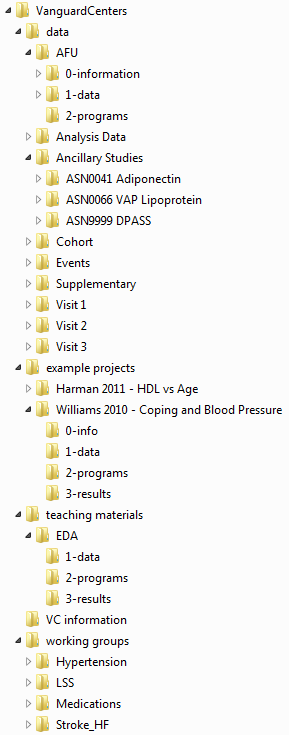
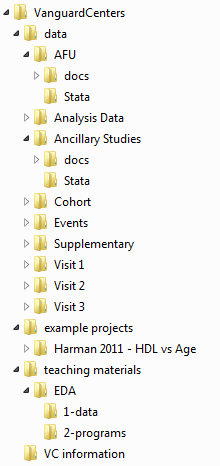
Included updated derived datasets with supporting programs and documentation.

Psychosocial

Included updated derived datasets with supporting programs and documentation.

# JHS VC Release 2014

## General



Previous VC Package

Current VC Package

Updated FAQ document  
This FAQ includes questions the JHS CCDC has received regarding JHS data. The FAQ includes documentation on the event adjudication process as well as other useful documentation.

Including JHS forms

Participants provided an array of medical and social history data as well as data on physical activity, tobacco, alcohol and drug use, use, stress, coping and spirituality, discrimination and healthcare access, social support, and a medication survey. These forms are now available in the documentation folder for each archetype. Many of them have been compressed to conserve storage space

Created CSV datasets

Within data folders, there are now “CSV” folders that contain CSV datasets. These datasets are ready for analysis.

Updated codebook macro

This release includes codebooks for all VC datasets.

Updated example projects and teaching materials to utilize the analysis-ready datasets

## AFU

Created new version of the AFUlong dataset

The new AFUlong dataset combines all AFU forms as well as AFO forms. The variables are now renamed such that they describe the AFU question. For example, “MIever” is the variable corresponding to “Has a doctor ever told you that you’ve had a heart attack?”

The data in this release is current through December 31, 2013 and contains data from AFUA, AFUB, AFUC, AFUD, AFUE, AFOA, AFOB, AFOC, and AFOD. Please note that JHS is still using AFOD (i.e., there is no AFOE).

## Analysis Data

New sections/variables included in the analysis datasets

* Nutrition/Physical Activity
  1. Vitamin D data (3 vars)
* Renal
  1. Re-organized the serum creatinine and eGFR related variables
     1. SCrCC: Cleveland-Clinic-Calibrated Serum Creatinine values (mg/dL).
     2. SCrIDMS: IDMS Traceable Serum Creatinine values (mg/dL).
     3. eGFRmdrd: Estimated eGFR (ml/min/1.73 m2) based on the 4-Variable MDRD formula.
     4. eGFRckdepi: Estimated eGFR (ml/min/1.73 m2) based on the 4-Variable CKD-Epi formula.

Corrected Visits 2 and 3 urine albumin conversion factor

Urine albumin (AlbuminUSpot) is given in mg/dL for longitudinal analyses. The visits 2 and 3 conversion factor has been corrected to convert to the correct units.

New definition of hypertension

Changed the hypertension definition to utilize self-reported blood pressure medication use rather than blood pressure medication use determined by TC codes from medications brought to the clinic exam visit. The old definition may be found in the hypertension working group’s derived data.

## Ancillary Studies

ASN9999 (Consolidated) DPASS data

The Diet and Physical Activity Sub-Study (DPASS) data and documentation has been moved from Visit 1 “Raw Data”

1. Diet (PI: Teresa Carithers)
2. Physical Activity (PI: Pat Dubbert)

ASN0066 VAP Lipoprotein:

Included Lipid Subfractions Study. (PIs: Kris Kulkarni, Michael Griswold)

ASN0041 Adiponectin:

Included Adiponectin Study. (PI: Aurelian Bidulescu)

## Cohort

Updated frozen LTFU dataset

The new version of the LTFU dataset, frozen at 12/31/2013, utilizes the annual record of calls along with the death data verified using the CDC’s National Death Index (<http://www.cdc.gov/nchs/ndi.htm>), with the date and coroner-determined cause of death to determine last point of contact for the entire JHS cohort. This should allow for the calculation of a participant’s study involvement status (i.e., active, lost-to-follow-up, etc.). Note that the name of the dataset has been changed to ‘deathltfucohort’.

Notes:

* The events LTFU dataset [*deathltfuevents* (through 12/31/2011)] was constructed to be consistent with data elements housed in the events data folder
* The cohort LTFU dataset[*deathLTFUcohort* (through 12/31/2013)] was constructed to be consistent with data that utilizes the JHS administrative cut-off date (i.e., AFU)

| **Table of laststatus by lastyear** | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Contact Type / Participant Status** | **Last Year Contacted** | | | | | | | | | | | | | |
| **Count Overall %** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **Total** |
| **AFU Contact** | 0 0 | 1 0 | 10 0 | 4 0 | 5 0 | 8 0 | 22 0 | 73 1 | 49 1 | 69 1 | 191 4 | 558 11 | 3487 66 | 4477 84 |
| **Confirmed Deceased** | 4 0 | 14 0 | 33 1 | 37 1 | 62 1 | 62 1 | 71 1 | 58 1 | 86 2 | 74 1 | 70 1 | 61 1 | 53 1 | 685 13 |
| **Exam 1 Contact** | 3 0 | 0 0 | 2 0 | 1 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 6 0 |
| **Exam 2 Contact** | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 2 0 | 1 0 | 7 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 10 0 |
| **Exam 3 Contact** | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 2 0 | 7 0 | 38 1 | 63 1 | 13 0 | 123 2 |
| **Total** | 7 0 | 15 0 | 45 1 | 42 1 | 67 1 | 72 1 | 94 2 | 138 3 | 137 3 | 150 3 | 299 6 | 682 13 | 3553 67 | 5301 100 |

## Events

Adjudicated event data for HF, CHD and stroke through 2011

This package includes adjudicated event data for HF, CHD and stroke through 2011.

LTFU dataset (*deathltfuevents*) frozen at 2011

This package includes LTFU dataset, frozen at 12/31/2013, that utilizes the annual record of calls along with the death data verified using the CDC’s National Death Index (<http://www.cdc.gov/nchs/ndi.htm>), with the date and coroner-determined cause of death to determine last point of contact for the entire JHS cohort. This should allow for the calculation of a participant’s study involvement status (i.e., active, lost-to-follow-up, etc.).

Notes:

* The events LTFU dataset [*deathltfuevents* (through 12/31/2011)] was constructed to be consistent with data elements housed in the events data folder
* The cohort LTFU dataset[*deathLTFUcohort* (through 12/31/2013)] was constructed to be consistent with data that utilizes the JHS administrative cut-off date (i.e., AFU)

| **Table of laststatus by lastyear** | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Contact Type / Participant Status** | **Last Year Contacted** | | | | | | | | | | | |
| **Count Overall %** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **Total** |
| **AFU Contact** | 0 0.00 | 1 0.02 | 12 0.23 | 5 0.09 | 6 0.11 | 9 0.17 | 26 0.49 | 91 1.72 | 71 1.34 | 229 4.32 | 3293 62.12 | 3743 70.61 |
| **Confirmed Deceased** | 4 0.08 | 14 0.26 | 33 0.62 | 37 0.70 | 62 1.17 | 62 1.17 | 71 1.34 | 58 1.09 | 86 1.62 | 74 1.40 | 70 1.32 | 571 10.77 |
| **Exam 1 Contact** | 3 0.06 | 0 0.00 | 3 0.06 | 2 0.04 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 8 0.15 |
| **Exam 2 Contact** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 2 0.04 | 1 0.02 | 9 0.17 | 0 0.00 | 0 0.00 | 0 0.00 | 12 0.23 |
| **Exam 3 Contact** | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 0 0.00 | 5 0.09 | 54 1.02 | 908 17.13 | 967 18.24 |
| **Total** | 7 0.13 | 15 0.28 | 48 0.91 | 44 0.83 | 68 1.28 | 73 1.38 | 98 1.85 | 158 2.98 | 162 3.06 | 357 6.73 | 4271 80.57 | 5301 100.00 |

New Heart Failure Incidence Dataset

Heart Failure event is only adjudicated after 01/01/2005 in Jackson Heart Study, and we derived Heart Failure incidence dataset (Incevthfder) using AFU data to determine heart failure status on 01/01/2005 and excluding subjects with positive or uncertain heart failure status on 01/01/2005 from this incidence data set (HF variable in Incevthfder dataset is missing). Detailed information regarding the derivation of this data set can be referred to:

…\VanguardCenters\data\Events\0-info\About the Data - Events.docx and two docs in the following folder: …\VanguardCenters\data\Events\0-info\HF Hospitalization Incidence Data Set Derived Docs\.

Cohort eligibility datasets have been removed

## Supplementary

Now including mortality dataset

The mortality dataset (TERa) includes participants that have been confirmed deceased via death certificate from the National Death Index (<http://www.cdc.gov/nchs/ndi.htm>) through 12-31-2013.

Life’s Simple Seven datasets have been relocated to the ‘working groups\LSS’ directory

## Visit 1 “Raw Data”

Removed the DERIVE dataset

The derive dataset has been incorporated into the analysis-ready datasets and thus removed from the “raw data” folder.

Updated formats programs

The formats programs (VanguardCenters\data\Analysis Data\2-programs) have been optimized to include all necessary formats for raw and derived data in VC package.

Corrected erroneous measurements for High Sensitivity C-Reactive Protein

The minimum measurable value for High Sensitivity C-Reactive Protein (hsCRP) is 0.009. Numeric values less than 0.009have been set equal to ‘0.009’ and character results (Hscrp\_cresult) have been set equal to ‘<0.01’.

The DPASS data has been moved to the ‘Ancillary Studies\ASN9999 DPASS’ directory

## Visit 2 “Raw Data”

Removed the DERIVE dataset

The derive dataset has been incorporated into the analysis-ready datasets and thus removed from the “raw data” folder.

## Visit 3 “Raw Data”

No changes have been made for this release

## Working Groups

Life’s Simple Seven

Included derived datasets with supporting programs and documentation. These datasets replace the datasets found in the simple7v1 and simple7v3 datasets (VanguardCenters\data\Supplementary).

Hypertension

Included derived datasets with supporting programs and documentation.

Stroke/HF

Included derived datasets with supporting programs and documentation.

Medications

Included derived medications datasets with supporting programs and documentation. Presented two potential derivations for medication variables defined:

* + - 1. solely based on TC codes
      2. based on TC codes and imputed using a medication accountability variable.

Note that the analysis datasets rely on (1) to provide objective definition.

## Teaching Materials

No changes have been made for this release