**Date Assigned**: November 6, 2020

**RDC Analyst**

Adrienne L. Jones,

Email: [ALJ1@CDC.GOV](mailto:ALJ1@CDC.GOV)

Phone: 301-458-4300

**Schedule:**

Monday -Thursday, 7am-530pm

Every Friday-Scheduled day off (SDO)

**NOTE:**

Please be advised that I will be on leave from December 7, 2020 – January 2, 2020, returning to the office January 5, 2020

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**Proposal Review**

**General Information**

* Please highlight all sections that have been edited based on the review comments. Please do return the proposal with track changes. Please delete all comments from the revised proposal.
* Please change the date on page 1 to the current date of resubmission after all edits have been completed (i.e. November 22, 2020 (revised)). Please do not change name of the proposal file, it contains your project number which is used in our tracking system, you may change the date at the end of the proposal file name.

#### **Page 2 of Proposal**

\*\* We are requesting two pieces of restricted information: (1) mortality data including month and year of death to match with NHANES III and the continuous NHANES, and (2) geographic information for NHANES III, the continuous NHANES, and NHIS 1999-2013. The geographic information will be used to merge on economic and social factors that might explain differential trends in cardiovascular disease mortality by socioeconomic status. After the merge, we do not need to keep the state or county identifier. However, we would like to create dummy county identifiers (i.e., 1, 2, …) so that we can include county fixed effects in our models

#### **Section E. Data Requirements**

### NHANES III and continuous NHANES

NHANES III Adult Demographic, Laboratory, and Examination Files

Continuous NHANES through 2015-16 Demographic, Examination, Laboratory and Questionnaire Files

* Demographic variables and sample weights
* Physical examination measurements

### NHIS 1999-2013

Sample Adult and Person Files

* Demographic variables and sample weights

Hopelessness and worthlessness variables (variable names – HOPELESS and WORTHLS)

|  |  |
| --- | --- |
| **General Information** | |
| **Date:** | October 27, 2020 |
| **Title of Project:** | Understanding the Education Trend in Heart Disease Mortality |
| **NCHS Data System and Years:** | NHANES 1999-2014 |
| **Non-NCHS Data Files:** | N/A |
| **Mode of Access:** | [\_] NCHS RDC, Hyattsville, MD [\_] NCHS RDC, Rockville, MD  [\_] NCHS RDC, Washington, DC (Government Only) [\_] NCHS RDC, Atlanta, GA  [X] Federal Statistical RDC, specify: National Bureau of Economic Research |
| **Statistical Software:**  (Check all that apply) | [\_] SAS/SUDAAN [X] Stata [\_] Other, specify: |
| **Proposed Start Date:** |  |
| **Funding Source:** |  |
| **Billing Address:**  (include contact person) |  |

#### **Section E, Item 2: Restricted-use Data:**

### From Restricted Use Mortality Data, to link to NHANES III and continuous NHANES

SEQN – to merge with public use files ELIGSTAT – to adjust sample weights MORTSTAT

UCOD\_113 – want to know if COD is related to cardiovascular diseases. UCOD\_358 – want to know if COD is related to cardiovascular diseases. UCOD\_39 – want to know if COD is related to cardiovascular diseases. HYPTERTEN – analysis includes hypertension statistics.

DODMONTH – to calculate death within 5 years DODYEAR – to calculate death within 5 years MECMONTH – to calculate death within 5 years MECYEAR – to calculate death within 5 years

#### **Section E, Item 4: Merge Variables**

### NHANES III

* + - 1. merge mortality information from restricted access file to NHANES III by SEQN.
      2. merge state and county identifiers to NHANES III by SEQN.
      3. merge economic information from ACS by county and education group\* and population change by county from Census.
      4. merge feelings of hopelessness and worthlessness from NHIS by county and education group\*.

### NHIS 1999-2014

1) merge county to NHIS by PUBLICID (created using variables SRVY\_YR, HHX, FMX, PX, and FPX)

**Section G. Output**

We would like to see the merge statistics. We will check that:

* In the mortality data, all death information should merge to someone in the NHANES file.
* In the geographic data, all geographic areas in NHANES should match to economic variables, health insurance, and despair measures.

**Section G. Item 2**

|  |  |
| --- | --- |
| **Exhibit 2: Summary Statistics** | |
| **Variable** | **Continuous NHANES Mean (std dev)** |
| **Demographics** |  |
| Age |  |
| Male (%) |  |
| Non-Hispanic white (%) |  |
| Non-Hispanic black (%) |  |
| Hispanic |  |
| **Cardiovascular disease risk** |  |
| Predicted 5 year mortality |  |
| Systolic / diastolic blood pressure |  |
| Total cholesterol |  |
| LDL cholesterol |  |
| HbA1c |  |
| BMI |  |
| Current smoker / former smoker (%) |  |
| **Cardiovascular outcomes** |  |
| Cardiovascular death in next 5 years (%) |  |
|  |  |
| **Economic variables (%, average for county)** |  |
| Employment-to-population ratio, 2005-2009 |  |
| Unemployment rate, 2005-2009 |  |
| Population change, 1990-2010 |  |
|  |  |
| **Health insurance (average for county)** |  |
| Uninsured 2005-2009 (%) |  |
|  |  |
| **Despair (%, average for county)** |  |
| Percent feeling helpless or worthless, 1999-2014 |  |
| Note: All tabulations are from the continuous NHANES, 1999-2016, with the exception of cardiovascular disease death in the next five years, which is meas- ured for 1999-2010 years. Data are for people aged 45-74 at the time of the MEC sample. Data are weighted to national totals. Standard errors are reported for continuous variables and are adjusted for complex survey design. | |

**Section G. Item 3**

We intend to write one or more research papers. They will be submitted for publication in peer- reviewed journals and presented at scientific meetings.

**Section H. Data Dictionary**

In addition to the data dictionary here, the attached excel spreadsheets show the data we request.

Please contact me if you have questions. We look forward to working with you.

*Thanks,*

*Adrienne L. Jones*

*NCHS/Research Data Center (RDC)*

*301-458-4300*

[*Alj1@cdc.gov*](mailto:Alj1@cdc.gov)

*Monday-Thursday, 7-530pm*

*Friday, SDO (Scheduled Day Off)*