

**Supplement Table I – FHS Exam 14 variables**

	<b>Variable Label</b>
<b>1</b>	SPOUSE-SEX
<b>2</b>	AGE
<b>3</b>	SEX
<b>4</b>	MARITAL-STATUS
<b>5</b>	WEIGHT
<b>6</b>	HEIGHT IN INCHES
<b>7</b>	SBP-NURSE
<b>8</b>	DBP-NURSE
<b>9</b>	SBP-PHYSICIAN-1ST
<b>10</b>	DBP-PHYSICIAN-1ST
<b>11</b>	SBP-PHYSICIAN-2ND
<b>12</b>	DBP-PHYSICIAN-2ND
<b>13</b>	CARBON-MONO-ECOLYZER
<b>14</b>	VASCULOGRAM-LEFT
<b>15</b>	VASCULOGRAM-RIGHT
<b>16</b>	CARDIAC-GLYCOSIDES
<b>17</b>	NITRITES
<b>18</b>	PROPRANOLAL
<b>19</b>	QUINIDINE-PROCAINAMIDE
<b>20</b>	DIURETICS-HYPERTENSION
<b>21</b>	DIURETICS-OTHER
<b>22</b>	HYPO-EXCL-DIURETICS
<b>23</b>	ANTI-CHOL-AGENTS
<b>24</b>	THYROID
<b>25</b>	ANTI-COAGULANTS
<b>26</b>	INSULIN
<b>27</b>	ORAL-HYPOGLYCEMI-AGENT
<b>28</b>	SLEEPING-PILLS
<b>29</b>	TRANQUILIZERS
<b>30</b>	BRONCHODILA-OR-AEROSOL
<b>31</b>	OTHER-MEDICINES
<b>32</b>	HORMONE-TREATMENT

33	HYSTERECTOMY
34	OVARIES-REMOVED
35	SMOKE-1YR-IN-LAST-2YRS
36	CIGARETTES-DAY
37	CIGARS-DAY
38	CIGARILLOS-DAY
39	PIPES-DAY
40	FILTER-CIGARETTES
41	INHALES
42	DIET-REDUCING
43	CHOL-LOWERING-DIET
44	LOW-SALT-DIET
45	DIABETIC
46	COFFEE-CUPS-DAY
47	COFFEE-DECAF-CUPS-DAY
48	TEA-CUPS-DAY
49	COLA-BOTTLES-DAY
50	BEER-WEEK
51	WINE-WEEK
52	COCKTAILS-WEEK
53	EGGS-WEEK
54	RED-MEAT-WEEK
55	CHEESE-WEEK
56	WHOLE-MILK-WEEK
57	MARGARINE-VS-BUTTER
58	FOLLOWING-DIET
59	CHRONIC-COUGH
60	TROUBLE-WHEEZ-ASTHMA
61	DYSPNEA-ON-EXERTION
62	DYSPNEA-INCRS-PAST-2YR
63	ORTHOPNEA
64	PAROXYSMAL-NOCT-DYSPNE
65	ANKLE-EDEMA-BILATERAL
66	FST-EXAMER-PULMONARY
67	SND-EXAMER-PULMONARY

68	CHEST-DISCOMFORT
69	SUDDEN-MUSCULAR-WEAK
70	SUDDEN-SPEECH-DIFFICULT
71	SUDDEN-VISUAL-DEFECT
72	UNCONSCIOUSNESS
73	DOUBLE-VISION
74	LOSS-VISION-ONE-EYE
75	NUMBNESS-TINGLING
76	EVER-HAD-VARICOSE
77	PHLEBITIS
78	SWELL-LEG-UNILATERAL
79	LEG-ULCERS
80	TREAT-VARICOSE-VEINS
81	FRACTURE-OR-SER-INJURY
82	WEAR-RESTRICT-GARMENT
83	POSITION-AT-WORK
84	FAMILY-HISTORY-VARICOS
85	DISCOMFORT-LOWER-LIMBS
86	ONE-FOOT-COLDER-OTHER
87	CORNEAL-ARCUS
88	XANTHELASMA
89	XANTHOMATA
90	THYROID-SCAR
91	SINGLE-NODULE
92	MULTIPLE-NODULES
93	DIFFUSE-ENLARGEMENT
94	OTHER-MANIFEST-THYROID
95	INC-ANTEROPosterior
96	ABNORMAL-BREATH-SOUND
97	RALES
98	FIXED-THORAC
99	HEART-ENLARGEMENT
100	GALLOP
101	OTHER-ABNORMAL-SOUND
102	APEX-REGURG-OR-HOLO

103	APEX-EJECTION
104	MIDPRECORDIUM
105	BASE
106	MURMUR-INC-ON-VALSALVA
107	SYSTOLIC-MUR-VALVE
108	DIASTOLIC-MURMUR
109	NECK-VEIN-DISTENDED
110	BREAST-ABNORMAL
111	MASTECTOMY-SCAR-PRESE
112	LOCALIZED-MASS
113	AXILLARY-NODES
114	LIVER-ENLARGED
115	ABDOMINAL-ANEURYSM
116	BRUIT
117	SURGICAL-SCAR
118	OTHER-ABDOMINAL-ABNOR
119	LEFT-ANKLE-EDEMA
120	RIGHT-ANKLE-EDEMA
121	LEFT-STEM-VARICOSITIES
122	RIGHT-STEM-VARICOSIT
123	RETICULAR-VARICOSITIES
124	SPIDER-VARICOSITIES
125	TEMP-DIFFER-IN-FEET
126	ABSENT-OR-FEEBLE-PULSE
127	DORSAL-PEDIS
128	POSTERIOR-TIBIAL
129	FEMORAL
130	RADIAL
131	PERIPHERAL-BRUIITS
132	ARTERIAL-PERIPHERAL-1S
133	CHRO-VENOUS-INSUFF-W-O
134	CHRO-VENOU-INSUF-WITH
135	ARTERIAL-PERIPHERAL-2N
136	CHRO-VENOU-INSUFF-W-O
137	CHRO-VENOU-INSUF-WITH

138	SPEECH-DISTURBANCE
139	DISTURBANCE-IN-GAIT
140	LOCAL-MUSCLE-WEAKNESS
141	VISUAL-DISTURBANCE
142	ABNORMAL-REFLEXES
143	CRANIAL-NERVE-ABNORMAL
144	CEREBELLAR-SIGNS
145	SENSORY-IMPAIRMENT
146	CAROTID-BRUIITS
147	EAR-LOBE-CREASE
148	VENTRICULAR-RATE-MIN
149	P-R-INTERVAL
150	QRS-INTERVAL
151	QT-INTERVAL
152	SIGN
153	AQRS
154	IVB-RIGHT
155	IVB-LEFT
156	HEMIBLOCK
157	BIFASCICULAR
158	ATRIOVENTRI-BK-INCOMP
159	ATRIOVENTRI-BK-COMPL
160	WPW-SUNDROME
161	PREMATURE-BEATS
162	ATRIAL-FIBRILLATION
163	ATRIAL-FLUTTER
164	U-WAVE
165	OTHER-ECG-ABNORMALITY
166	TAK-DIGITALIS-QUINIDIN
167	MYOCARDIAL-INFARCTION
168	L-VENTRICULAR-HYPERTRO
169	NS-T-WAVE-ABNORMALITY
170	NS-S-T-SEGMENT-ABNORMA
171	ECG-CLINICAL-READING
172	HYPERTENSIVE-STATUS

173	UNDERTREAT-HYPERTEN
174	HYPERTENSIVE-HEART-DIS
175	DIAG-HHD-OUTSID-CRETE
176	RHEUMATIC-HEART-DIS
177	AORTIC-VALVE-DISEASE
178	MITRAL-VALVE-DISEASE
179	OTHER-HEART-DISEASE
180	ARRHYTHMIA
181	FUNCTIONAL-CLASS
182	PVD-OTHER-MANIFESTAT
183	VARICOSE-VEINS
184	CHRO-VENOU-INSUF-W-O
185	PHLEBITIS
186	OTHER-VASCULAR-DISEASE
187	OTHE-ASCULAR-BRAIN-DIS
188	URINARY-TRACT-DISEASE
189	PULMONARY-DISEASE
190	CHRO-OBSTRUC-LUNG-DISE
191	CHRONIC-BRONCHITIS
192	GOUTY-ARTHRITIS
193	OTHER-ARTHRITIS
194	GALLBLADDER-DISEASE
195	OBESITY
196	OTH-NON-CARDIO-DIAGNO
197	CHEST-FILM-SATISFACTY
198	GENERAL-CARDIC-ENLARG
199	L-VENTRICULAR-HYPERTRO
200	OTHER-CONTOUR
201	TRANS-THORACIS-DIAMETER
202	TRANS-CARDIAC-DIAMETER
203	HEART-LARG-THAN-PRE-EXM
204	PULM-VASCULAR-ENGORGE
205	PLEURAL-EFFUSION
206	DILATION
207	ANEURYSM

<b>208</b>	CALCIFICATION
<b>209</b>	OTHER-AORTIC-ABNORMAL
<b>210</b>	OTHER-THORACIC-DISE
<b>211</b>	HEMATOCRIT
<b>212</b>	SUGAR
<b>213</b>	CREATININE
<b>214</b>	CHOLESTEROL
<b>215</b>	ALBUMIN-QUANTITEST
<b>216</b>	OCCULT-BLOOD
<b>217</b>	KETONE
<b>218</b>	GLUCOSE
<b>219</b>	ALBUMIN-DIP-STICK
<b>220</b>	PH
<b>221</b>	NO-OF-BROTHER-DEAD
<b>222</b>	NO-OF-SISTER-DEAD

**Supplement Table II: FHS Variable Field Names and Transformations for Analysis**

<b>Study</b>	<b>Risk Variable</b>	<b>BioLINCC File (sas7bdat)</b>	<b>Field Name</b>	<b>Transformation</b>
FHS Cohort Exam 14	Stroke	vr_survcvd1_2011_m_0785d	STROKE, STROKEDATE	excluded participants with an event prior to exam 14
	CHF	vr_survcvd1_2011_m_0785d	CHF, CHFDate	excluded participants with an event prior to exam 14
	CHD	vr_survcvd1_2011_m_0785d	CHD, CHDDate	excluded patients with an event prior to exam 14
	CVD	vr_survcvd1_2011_m_0785d	CVD, CVDDate	excluded participants with an event prior to exam 14
	Age	vr_dates_2014_a_0912d	AGE14	none
	Gender	vr_dates_2011_m_0689d	SEX	0 = Male, 1 = Female
	SBP	lex0_14	FG68, FG70, FG72	average of blood pressure from all 3 variables
	Hypertension Treatment	lex0_14	FG259	used to evaluate treated and untreated SBP
	Diabetes	vr_diab_ex28_0_0601d	FG113	0 = no condition, 1 = condition
	Smoking	lex0_14	FG103	0 = no, 1 = yes
	Total cholesterol	lex0_14	FG313	none
	HDL	lex0_15	FH333	used HDL variable at nearest exam (15)
	Coffee Consumption	lex0_14	FG114	none
	Decaffeinated coffee consumption	lex0_14	FG115	none
Caffeine consumption	vr_ffreq_ex20_0_0572d	SCORE34	none	



**Supplement Table III- CHS Variable Field Names and Transformations for Analysis**

<b>Study</b>	<b>Risk Variable</b>	<b>BioLINCC File (sas7bdat)</b>	<b>Field Name</b>	<b>Transformation</b>
CHS baseline exam	Stroke	eventsfinal	EVTYPE= 3, 6, TTOEVENT	data was subset to include only participants without a prior event and participants with the event matching the subtype
	CHF	eventsfinal	EVTYPE= 4, TTOEVENT	data was subset to include only participants without a prior event and participants with the event matching the subtype
	CHD	eventsfinal	EVTYPE = 1,2,7,8,11, TTOEVENT	data was subset to include only participants without a prior event and participants with the event matching the subtype
	CVD	eventsfinal	EVTYPE = 1,2,7,8,11, TTOEVENT	data was subset to include only participants without a prior event and participants with the event matching the subtype
	Age	basebothfinal	AGE2	lowest age in 2 year group
	Gender	basebothfinal	GEND01	0 = Male, 1 = Female
	SBP	basebothfinal	AVZMSYS	none
	Hypertension Treatment	basebothfinal	HTNMED06	used to evaluate treated and untreated SBP
	Diabetes	basebothfinal	DIABADA	0 = no condition, 1 = condition
	Smoking	basebothfinal	SMOKE	0 = no, 1 = yes
Total cholesterol	basebothfinal	CHOLADJ	none	
HDL	basebothfinal	HDL44	none	

Coffee Consumption	base2final	COFFE25	values mapped to 0, 0.021, 0.07, 0.36, and 1 cups/day
Decaffeinated coffee consumption	base2final	COFFEED25	values mapped to 0, 0.021, 0.07, 0.36, and 1 cups/day
Caffeine consumption	yr8final	CAFF65	none

**Supplement Table IV: ARIC Variable Field Names and Transformations for Analysis**

<b>Study</b>	<b>Risk Variable</b>	<b>BioLINCC File (sas7bdat)</b>	<b>Field Name</b>	<b>Transformation</b>
ARIC baseline exam	Stroke	ichdps10	INDP10, FTDP10,	excluded participants with an event prior to exam 1
	CHF	ichdps10	INCHF10, FUTIMEHF	excluded participants with an event prior to exam 0
	CHD	ichdps10	ISP10, FUIISP10	excluded participants with an event prior to exam 1
	CVD	ichdps10	ISP10, INDP10, INCHF10, FTDP10, FUTIMEHF, FUIISP10	any ISP10/INDP10/INCHF10 event, and time to was first date of FTDP10/FUTIMEHF/FUIISP10
	Age	derive13	VIAGE01	none
	Gender	derive13	GENDER	0 = Male, 1 = Female
	SBP	sbpa02	SBPA21	none
	Hypertension Treatment	derive13	HYPTMD01	used to evaluate treated and untreated SBP
	Diabetes	derive13	DIABTS02	0 = no condition, 1 = condition
	Smoking	derive13	CIGT01	0 = no, 1 = yes
	Total cholesterol	derive13	TCHSIU01	converted to mg/dL
	HDL	derive13	HDLSIU02	converted to mg/dL
	Coffee Consumption	dtia	DTIA61	values mapped to 0, 0.07, 0.14, 0.43, 0.79, 1, 2.5, 5, and 6.5 cups per day
	Decaffeinated coffee consumption	Variable not in ARIC data	Variable not in ARIC data	N/A
Caffeine consumption	anut2	CAFF	none	