SAS Analysis Examples Replication C7

```
* SAS Analysis Examples Replication for ASDA 2nd Edition
* Berglund April 2017
* Chapter 7 ;
libname d "P:\ASDA 2\Data sets\nhanes 2011_2012\" ;
ods listing ;
ods graphics off ;
options nodate nonumber ls=125 ps=68 ;
ods rtf style=normalprinter  bodytitle file='P:\ASDA 2\Analysis Example Replication\SAS\Analysis
Example Replication SAS C7.rtf' ;

data c7_nhanes ;
  set d.nhanes1112_sub_8aug2016 ;
  bpxdi1_1=bpxdi1 ;
  if bpxdi1=0 then bpxdi1_1=. ;
  agec=age-46.36 ;
  agecsq=agec*agec ;
run ;
title " Section 7.5: Application of Linear Regression, Bivariate relationships " ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first);
 model bpxdi1_1=ridreth1 / solution ;
 run ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class marcat (ref=first);
 model bpxdi1_1=marcat / solution ;
 run ;
 proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class riagendr (ref=first) ;
 model bpxdi1_1=riagendr / solution ;
 run ;
 proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 model bpxdi1_1=agec  / solution ;
 run ;
title "Naive analysis Table 7.2" ;
proc surveyreg data=c7_nhanes ;
 where age18p=1 ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec / solution clparm ;
run ;
title "Weighted regression analysis Table 7.3 " ;
proc surveyreg data=c7_nhanes ;
 where age18p=1 ;
 weight wtmec2yr ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec / solution clparm ;
run ;
title "Correct analysis with weights and complex sample features, Table 7.4" ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec / solution clparm deff ;
```

```
 output out=outdiag1 p=phat r=resid ;
run ;
proc sgplot data=outdiag1 ;
where domain="Age >=18: 1=Yes 0=No=1" ;
title "Scatter Plot, Residual by Age Centered" ;
scatter y=resid x=agec ;
run ;
title "Analysis with weights and complex sample features plus Age Squared" ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agecsq / solution clparm deff ;
 output out=outdiag2 p=phat2 r=resid2 ;
run ;
*plot of residual v. age centered using output data set from previous step, among those age 18 +
;
title "Scatter Plot, Residual by Age Centered" ;
proc sgplot data=outdiag2 ;
 where domain="Age >=18: 1=Yes 0=No=1" ;
  scatter y=resid2 x=agec ;
run ;
title "Interaction Tests for Preliminary Model: Test Race/Ethnicity X Age" ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agecsq riagendr*agec  riagendr*agecsq / solution clparm deff
;
 * note: these are for demonstration purposes, not needed since these tests are in output ;
 contrast 'Race 4 levels'  ridreth1 1 0 0 0 -1, ridreth1 0 1 0 0 -1, ridreth1 0 0 1 0 -1, ridreth1
0 0 0 1 -1 ;
 contrast 'Gender X AGESQ' riagendr*agecsq 1 -1 ;
 contrast 'Gender X agec' riagendr*agec 1 -1 ;
 contrast 'gender x age' riagendr*agec 1 -1 , riagendr*agecsq 1 -1  ;
run ;
title "Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq" ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agecsq ridreth1*agec ridreth1*agecsq / solution clparm deff
;
 contrast 'Race 4 levels'  ridreth1 1 0 0 0 -1, ridreth1 0 1 0 0 -1, ridreth1 0 0 1 0 -1, ridreth1
0 0 0 1 -1 ;
 contrast 'Race X AgeC ' ridreth1*agec -1 1 0 0 0 , ridreth1*agec -1 0 1 0 0 , ridreth1*agec -1 0
0 1 0 , ridreth1*agec -1 0 0 0 1 ;
 contrast 'Race X Agecsq' ridreth1*agecsq -1 1 0 0 0,ridreth1*agecsq -1 0 1 0 0 , ridreth1*agecsq
-1 0 0 1 0 , ridreth1*agecsq -1 0 0 0 1  ;
 contrast 'Race X AgeC and Race X Agecsq' ridreth1*agec -1 1 0 0 0 , ridreth1*agec -1 0 1 0 0 ,
ridreth1*agec -1 0 0 1 0 , ridreth1*agec -1 0 0 0 1,
      ridreth1*agecsq -1 1 0 0 0,ridreth1*agecsq -1 0 1 0 0 , ridreth1*agecsq -1 0 0 1 0 ,
ridreth1*agecsq -1 0 0 0 1  ;
run ;
proc surveyreg data=c7_nhanes ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agecsq riagendr*agec  riagendr*agecsq / solution clparm deff
;
 contrast 'Gender X agesq' riagendr*agecsq 1 -1 ;
 contrast 'Gender X agec' riagendr*agec 1 -1 ;
```

```
 contrast 'Gender X Agec and Gender X Agecsq ' riagendr*agec 1 -1 , riagendr*agecsq 1 -1  ;
run ;
title "Marginal predicted values by Race from model including significant interactions" ;
* rescale agec to avoid problem with ill-specified matrix when using LSMEANS, this does not affect
the numbers, just a rescaling approach;
data c7_nhanes_scale ;
  set c7_nhanes ;
   agec = agec/10;
   agecsq=agec*agec ;
run;
* formats for race category ;
proc format ;
 value rf 1='Mexican' 2='Other Hispanic' 3='NH White' 4='NH Black' 5='Other' ;
 value gf 1='Male' 2='Female' ;
run ;
proc surveyreg data=c7_nhanes_scale ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
  class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agec*agec ridreth1*agec ridreth1*agec*agec riagendr*agec
riagendr*agec*agec / solution clparm deff ;
 lsmeans ridreth1 / at agec=-3.0  e cl ;
 lsmeans ridreth1 / at agec=-2.5 e cl ;
 lsmeans ridreth1 / at agec=-2.0 e cl;
 lsmeans ridreth1 / at agec=-1.5 e cl;
 lsmeans ridreth1 / at agec=-1 e cl;
 lsmeans ridreth1 / at agec=-.5 e cl;
 lsmeans ridreth1 / at agec=0 e cl;
 lsmeans ridreth1 / at agec=.5 e cl;
 lsmeans ridreth1 / at agec=1.0 e cl;
 lsmeans ridreth1 / at agec=1.5 e cl;
 lsmeans ridreth1 / at agec=2.0 e cl;
 lsmeans ridreth1 / at agec=2.5 e cl;
 lsmeans ridreth1 / at agec=3 e cl;
 ods output lsmeans=lsmeans_est ;
 output out=outp p=predicted ;
run ;
title "Plot of Marginal Predicted Values by Age and Race: Figure 7.4" ;
proc sgplot data=lsmeans_est ;
  where domain eq 'Age >=18: 1=Yes 0=No=1' ;
  format agec 2. ridreth1 rf. ;
  highlow x=agec high=upper low=lower / group=ridreth1 highcap=serif lowcap=serif;
  series  x=agec y=estimate / group=ridreth1 ;
  xaxis label ='Centered Age' ; yaxis label='Marginal Predicted DBP' ;
  run;
proc surveyreg data=c7_nhanes_scale ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
  class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agec*agec ridreth1*agec ridreth1*agec*agec riagendr*agec
riagendr*agec*agec / solution clparm deff ;
 lsmeans riagendr / at (agec)=(-3.0)  e cl ;
 lsmeans riagendr / at agec=-2.5 e cl ;
 lsmeans riagendr / at agec=-2.0 e cl;
 lsmeans riagendr / at agec=-1.5 e cl;
 lsmeans riagendr / at agec=-1 e cl;
 lsmeans riagendr / at agec=-.5 e cl;
 lsmeans riagendr / at agec=0 e cl;
 lsmeans riagendr / at agec=.5 e cl;
 lsmeans riagendr / at agec=1.0 e cl;
 lsmeans riagendr / at agec=1.5 e cl;
 lsmeans riagendr / at agec=2.0 e cl;
```

```
 lsmeans riagendr / at agec=2.5 e cl;
 lsmeans riagendr / at agec=3 e cl;
 ods output lsmeans=lsmeans_est ;
 output out=outp p=predicted ;
run ;
title "Plot of Marginal Predicted Values by Age and Gender: Figure 7.4 " ;
proc sgplot data=lsmeans_est ;
  where domain eq 'Age >=18: 1=Yes 0=No=1' ;
  format agec 2. riagendr gf. ;
  highlow x=agec high=upper low=lower / group=riagendr highcap=serif lowcap=serif;
  series  x=agec y=estimate / group=riagendr;
  xaxis label ='Centered Age' ; yaxis label='Marginal Predicted DBP' ;
  run;
* "final" model diagnostics;
proc surveyreg data=c7_nhanes plots=fit ;
 strata sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agecsq ridreth1*agec ridreth1*agecsq riagendr*agec
riagendr*agecsq / solution clparm deff ;
 output out=outdiag p=pred r=resid ;
run ;
* diagnostic plots using PROC SGPLOT: Histogram and Scatter Plot using PROC SGPLOT ;
title "Histogram of Residuals Plot" ;
proc sgplot data=outdiag ;
 histogram resid ;
 density resid ;
 where domain="Age >=18: 1=Yes 0=No=1" ;
run ;
title "Scatter Plot of Residual by Predicted " ;
proc sgplot data=outdiag ;
 where domain="Age >=18: 1=Yes 0=No=1" ;
 scatter y=resid x=pred ;
run ;
* QQ plot from PROC UNIVARIATE ;
title "QQ Plot of Residuals " ;
proc univariate data=outdiag ;
  where domain="Age >=18: 1=Yes 0=No=1" ;
  var resid ;
  qqplot resid ;
run;
title " Use Pfeffermann method (Q weighted)" ;
proc glm data=c7_nhanes ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model wtmec2yr=ridreth1 riagendr agec / solution ;
 output out=outq predicted=w_hat ;
run ;
* create new weight and re-run final model ;
data c7_nhanes_Q ;
 set outq ;
 q_wtmec2yr=wtmec2yr/w_hat ;
run ;
proc surveyreg data=c7_nhanes_Q ;
 strata sdmvstra ; cluster sdmvpsu ; weight q_wtmec2yr ;
 domain age18p ;
 class ridreth1 (ref=first) riagendr (ref=first) ;
 model bpxdi1_1=ridreth1 riagendr agec agecsq ridreth1*agec ridreth1*agecsq riagendr*agec
riagendr*agecsq / solution clparm deff ;
run ;
ods rtf close ;
```

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.009411
Root MSE	12.4078
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	4	8.34	0.0006
Intercept	1	14971.8	<.0001
RIDRETH1	4	8.34	0.0006

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	66.3974418	0.56321000	117.89	<.0001
RIDRETH1 2	1.2060048	1.56274728	0.77	0.4509
RIDRETH1 3	3.8563043	0.83278066	4.63	0.0002
RIDRETH1 4	3.0642660	0.80084629	3.83	0.0014
RIDRETH1 5	2.7334240	0.64580616	4.23	0.0006
RIDRETH1 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.007365
Root MSE	11.5760
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	4	2.14	0.1206
Intercept	1	6958.05	<.0001
RIDRETH1	4	2.14	0.1206

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	55.8381383	0.62761292	88.97	<.0001
RIDRETH1 2	1.7490988	1.46337396	1.20	0.2484
RIDRETH1 3	2.8288303	1.58948281	1.78	0.0930
RIDRETH1 4	1.5346097	0.85192960	1.80	0.0894
RIDRETH1 5	2.5456195	1.00084632	2.54	0.0210
RIDRETH1 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.004955
Root MSE	11.4170
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	4	4.77	0.0092
Intercept	1	17079.4	<.0001
RIDRETH1	4	4.77	0.0092

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	69.8040886	0.45337163	153.97	<.0001
RIDRETH1 2	-0.1548915	1.45599533	-0.11	0.9165
RIDRETH1 3	2.1846975	0.74287741	2.94	0.0091
RIDRETH1 4	2.2902279	0.70322613	3.26	0.0046
RIDRETH1 5	1.3056136	0.70463842	1.85	0.0813
RIDRETH1 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	4845
Sum of Weights	205481295
Weighted Mean of bpxdi1_1	71.92817
Weighted Sum of bpxdi1_1	1.47799E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.001496
Root MSE	11.3304
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
marcat	1=married 2=prev married 3=never married	3	2 3 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	2	0.90	0.4243
Intercept	1	16732.6	<.0001
marcat	2	0.90	0.4243

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	72.1795504	0.51504280	140.14	<.0001
marcat 2	-0.1450875	0.69794643	-0.21	0.8378
marcat 3	-1.1210302	0.84384121	-1.33	0.2016
marcat 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	4845
Number of Observations in Domain	4845
Number of Observations Not in Domain	0
Sum of Weights in Domain	205481295
Weighted Mean of bpxdi1_1	71.92817
Weighted Sum of bpxdi1_1	1.47799E10

Fit Statistics	
R-Square	0.001496
Root MSE	11.3304
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	2	0.90	0.4243
Intercept	1	16732.6	<.0001
marcat	2	0.90	0.4243

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	72.1795504	0.51504280	140.14	<.0001
marcat 2	-0.1450875	0.69794643	-0.21	0.8378
marcat 3	-1.1210302	0.84384121	-1.33	0.2016
marcat 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.005168
Root MSE	12.4316
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	13.12	0.0021
Intercept	1	16209.1	<.0001
RIAGENDR	1	13.12	0.0021

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	70.4667737	0.64990231	108.43	<.0001
RIAGENDR 2	-1.7920491	0.49466428	-3.62	0.0021
RIAGENDR 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.002453
Root MSE	11.6020
Denominator DF	17

Tests of Model Effects			
Effect	**Num DF**	**F Value**	**Pr > F**
Model	1	2.79	0.1135
Intercept	1	3471.67	<.0001
RIAGENDR	1	2.79	0.1135

Note:	**The denominator degrees of freedom for the F tests is 17.**

Estimated Regression Coefficients				
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	57.3739050	0.82767860	69.32	<.0001
RIAGENDR 2	1.1515524	0.69002515	1.67	0.1135
RIAGENDR 1	0.0000000	0.00000000	.	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.009245
Root MSE	11.3898
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	15.01	0.0012
Intercept	1	20210.2	<.0001
RIAGENDR	1	15.01	0.0012

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	72.7255304	0.59013132	123.24	<.0001
RIAGENDR 2	-2.2004481	0.56797167	-3.87	0.0012
RIAGENDR 1	0.0000000	0.00000000	.	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.07882
Root MSE	11.9626
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	115.38	<.0001
Intercept	1	18687.3	<.0001
agec	1	115.38	<.0001

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	70.4172916	0.51511667	136.70	<.0001
agec	0.1734368	0.01614643	10.74	<.0001

Note:	The degrees of freedom for the t tests is 17.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.05948
Root MSE	11.2655
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	47.81	<.0001
Intercept	1	418.64	<.0001
agec	1	47.81	<.0001

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	91.7923765	4.48629439	20.46	<.0001
agec	1.0013268	0.14482174	6.91	<.0001

Note:	The degrees of freedom for the t tests is 17.

Section 7.5: Application of Linear Regression, Bivariate relationships

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.003612
Root MSE	11.4222
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	4.35	0.0523
Intercept	1	20485.9	<.0001
agec	1	4.35	0.0523

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients				
Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	71.6036334	0.50027293	143.13	<.0001
agec	0.0394091	0.01888777	2.09	0.0523

Note:	The degrees of freedom for the t tests is 17.

Naive analysis Table 7.2

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	5112
Mean of bpxdi1_1	71.01682
Sum of bpxdi1_1	363038.0

Fit Statistics	
R-Square	0.01798
Root MSE	11.8394
Denominator DF	5111

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	6	14.82	<.0001
Intercept	1	149698	<.0001
RIDRETH1	4	5.39	0.0003
RIAGENDR	1	52.57	<.0001
agec	1	18.57	<.0001

Note:	The denominator degrees of freedom for the F tests is 5111.

Estimated Regression Coefficients						
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval	
Intercept	70.7835251	0.52932158	133.72	<.0001	69.7458281	71.8212220
RIDRETH1 2	0.2551924	0.70823078	0.36	0.7186	-1.1332432	1.6436280
RIDRETH1 3	1.1925411	0.57892551	2.06	0.0395	0.0575992	2.3274830
RIDRETH1 4	2.2054136	0.61766715	3.57	0.0004	0.9945215	3.4163057
RIDRETH1 5	2.0131114	0.63046903	3.19	0.0014	0.7771221	3.2491007
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000
RIAGENDR 2	-2.4036772	0.33151308	-7.25	<.0001	-3.0535848	-1.7537696
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000
agec	0.0413555	0.00959724	4.31	<.0001	0.0225408	0.0601702

Note:	The degrees of freedom for the t tests is 5111. Matrix X'X is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Weighted regression analysis Table 7.3

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	5112
Sum of Weights	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.01742
Root MSE	11.3488
Denominator DF	5111

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	6	10.41	<.0001
Intercept	1	124755	<.0001
RIDRETH1	4	6.25	<.0001
RIAGENDR	1	28.14	<.0001
agec	1	10.08	0.0015

Note:	The denominator degrees of freedom for the F tests is 5111.

Estimated Regression Coefficients						
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval	
Intercept	71.1486968	0.56620591	125.66	<.0001	70.0386908	72.2587029
RIDRETH1 2	-0.1414120	0.72106572	-0.20	0.8445	-1.5550096	1.2721856
RIDRETH1 3	1.9041990	0.61086701	3.12	0.0018	0.7066381	3.1017599
RIDRETH1 4	2.3019532	0.64525460	3.57	0.0004	1.0369779	3.5669286
RIDRETH1 5	1.2617860	0.70523082	1.79	0.0736	-0.1207684	2.6443404
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000
RIAGENDR 2	-2.2911357	0.43187093	-5.31	<.0001	-3.1377877	-1.4444838
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000
agec	0.0368234	0.01159818	3.17	0.0015	0.0140860	0.0595608

Note:	The degrees of freedom for the t tests is 5111. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Correct analysis with weights and complex sample features, Table 7.4

The SURVEYREG Procedure
Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.08795
Root MSE	11.9076
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	6	65.91	<.0001
Intercept	1	15945.5	<.0001
RIDRETH1	4	3.54	0.0281
RIAGENDR	1	19.52	0.0004
agec	1	88.21	<.0001

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	69.7896762	0.56403668	123.73	<.0001	68.5996629	70.9796896	1.17
RIDRETH1 2	0.4778439	1.33002874	0.36	0.7238	-2.3282715	3.2839592	3.16
RIDRETH1 3	1.8924060	0.89965840	2.10	0.0506	-0.0057073	3.7905193	2.87
RIDRETH1 4	2.1993856	0.76745230	2.87	0.0107	0.5802028	3.8185684	1.41
RIDRETH1 5	1.7076557	0.71078940	2.40	0.0280	0.2080212	3.2072903	0.98
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-2.0433991	0.46246053	-4.42	0.0004	-3.0191056	-1.0676927	2.51
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.1704855	0.01815180	9.39	<.0001	0.1321886	0.2087825	6.06

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Correct analysis with weights and complex sample features, Table 7.4

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.06712
Root MSE	11.2239
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	6	39.95	<.0001
Intercept	1	397.10	<.0001
RIDRETH1	4	1.24	0.3310
RIAGENDR	1	1.92	0.1833
agec	1	46.91	<.0001

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	89.0460111	5.18540361	17.17	<.0001	78.1057658	99.9862564	9.20
RIDRETH1 2	1.6974638	1.47527311	1.15	0.2658	-1.4150904	4.8100180	5.68
RIDRETH1 3	2.5036751	1.67864266	1.49	0.1542	-1.0379513	6.0453015	16.89
RIDRETH1 4	1.0099916	0.89170653	1.13	0.2731	-0.8713447	2.8913279	3.01
RIDRETH1 5	2.1855638	1.00857617	2.17	0.0447	0.0576541	4.3134735	2.77
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	0.8313817	0.59932235	1.39	0.1833	-0.4330780	2.0958413	4.73
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.9875076	0.14418219	6.85	<.0001	0.6833098	1.2917055	8.77

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Correct analysis with weights and complex sample features, Table 7.4

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

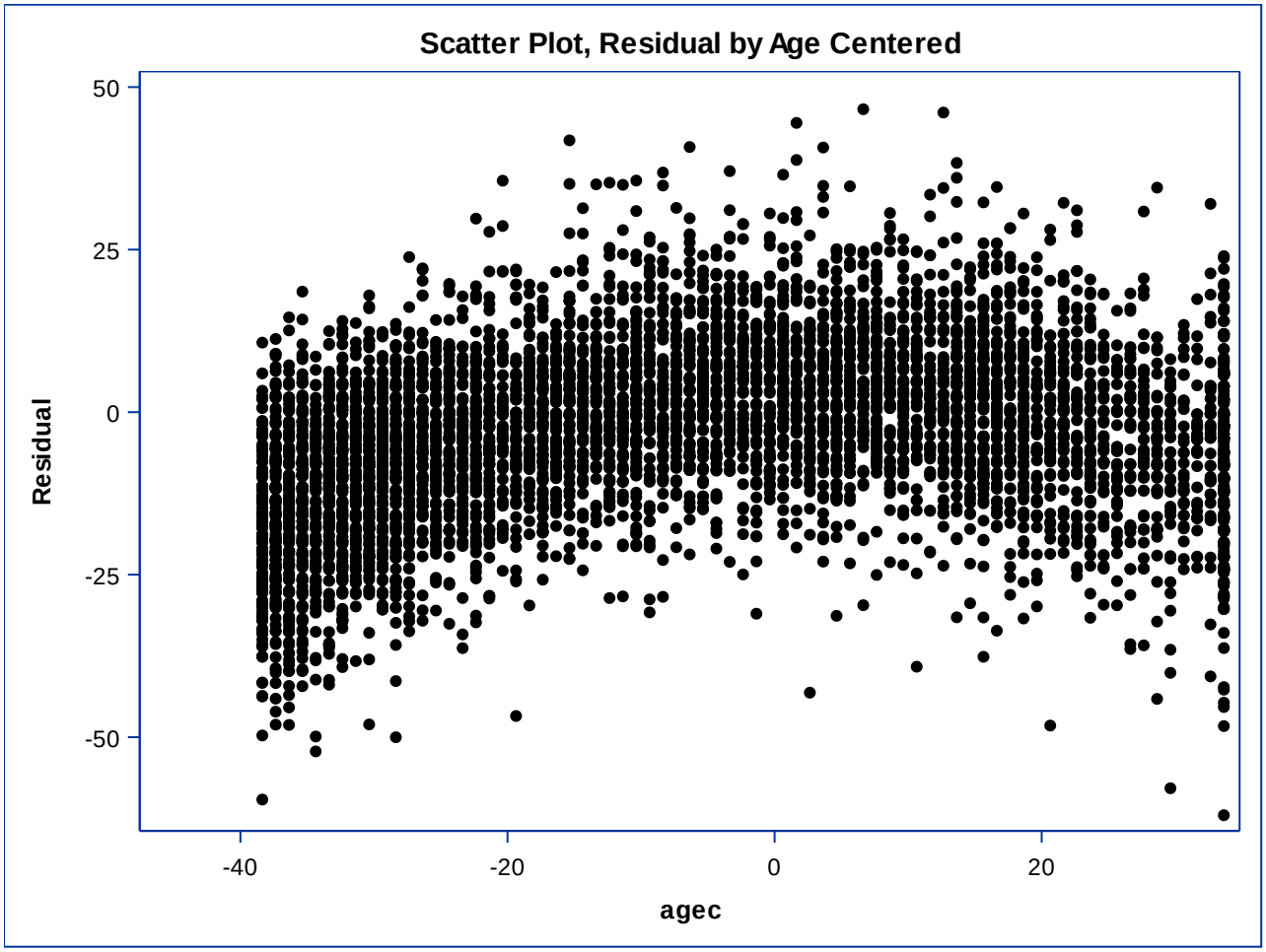
Fit Statistics	
R-Square	0.01742
Root MSE	11.3470
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	6	14.33	<.0001
Intercept	1	17554.1	<.0001
RIDRETH1	4	4.80	0.0089
RIAGENDR	1	17.44	0.0006
agec	1	3.13	0.0948

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	71.1486968	0.51818890	137.30	<.0001	70.0554138	72.2419798	1.00
RIDRETH1 2	-0.1414120	1.37523091	-0.10	0.9193	-3.0428956	2.7600716	3.49
RIDRETH1 3	1.9041990	0.80943923	2.35	0.0310	0.1964315	3.6119665	2.32
RIDRETH1 4	2.3019532	0.66492023	3.46	0.0030	0.8990942	3.7048123	1.07
RIDRETH1 5	1.2617860	0.70699447	1.78	0.0922	-0.2298419	2.7534140	1.01
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-2.2911357	0.54859697	-4.18	0.0006	-3.4485742	-1.1336973	3.88
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0368234	0.02081714	1.77	0.0948	-0.0070969	0.0807438	6.56

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.


Scatter Plot, Residual by Age Centered
Residual
50
25
0
-25
-50
-40
-20
0
20
agec

Analysis with weights and complex sample features plus Age Squared

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2410
Root MSE	10.8631
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	7	210.02	<.0001
Intercept	1	25268.8	<.0001
RIDRETH1	4	3.35	0.0340
RIAGENDR	1	18.07	0.0005
agec	1	30.26	<.0001
agecsq	1	562.37	<.0001

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	74.3090921	0.58342430	127.37	<.0001	73.0781744	75.5400098	1.41
RIDRETH1 2	0.4908919	1.15085687	0.43	0.6751	-1.9372039	2.9189877	2.84
RIDRETH1 3	2.1765998	0.95714986	2.27	0.0362	0.1571901	4.1960095	3.90
RIDRETH1 4	2.2466403	0.72483061	3.10	0.0065	0.7173814	3.7758992	1.51
RIDRETH1 5	1.5383369	0.63896384	2.41	0.0277	0.1902410	2.8864327	0.95
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-1.7134326	0.40302944	-4.25	0.0005	-2.5637503	-0.8631148	2.29
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec	0.0814563	0.01480856	5.50	<.0001	0.0502130	0.1126996	4.29
agecsq	-0.0122947	0.00051845	-23.71	<.0001	-0.0133885	-0.0112009	2.39

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis with weights and complex sample features plus Age Squared

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.06905
Root MSE	11.2131
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	7	35.88	<.0001
Intercept	1	0.05	0.8252
RIDRETH1	4	1.25	0.3264
RIAGENDR	1	1.78	0.2003
agec	1	1.89	0.1869
agecsq	1	2.99	0.1018

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	8.5037141	46.5466709	0.18	0.8572	-89.701177	106.708606	4.59
RIDRETH1 2	1.7085867	1.4737696	1.16	0.2623	-1.400795	4.817969	5.68
RIDRETH1 3	2.5281532	1.6855861	1.50	0.1520	-1.028123	6.084429	17.06
RIDRETH1 4	1.0274362	0.8871333	1.16	0.2628	-0.844251	2.899124	2.98
RIDRETH1 5	2.2156884	1.0183428	2.18	0.0440	0.067173	4.364204	2.83
RIDRETH1 1	0.0000000	0.0000000	.	.	0.000000	0.000000	.
RIAGENDR 2	0.8271233	0.6207256	1.33	0.2003	-0.482493	2.136740	5.08
RIAGENDR 1	0.0000000	0.0000000	.	.	0.000000	0.000000	.
agec	-3.7994757	2.7624827	-1.38	0.1869	-9.627805	2.028853	4.60
agecsq	-0.0706464	0.0408485	-1.73	0.1018	-0.156829	0.015536	4.63

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Analysis with weights and complex sample features plus Age Squared

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

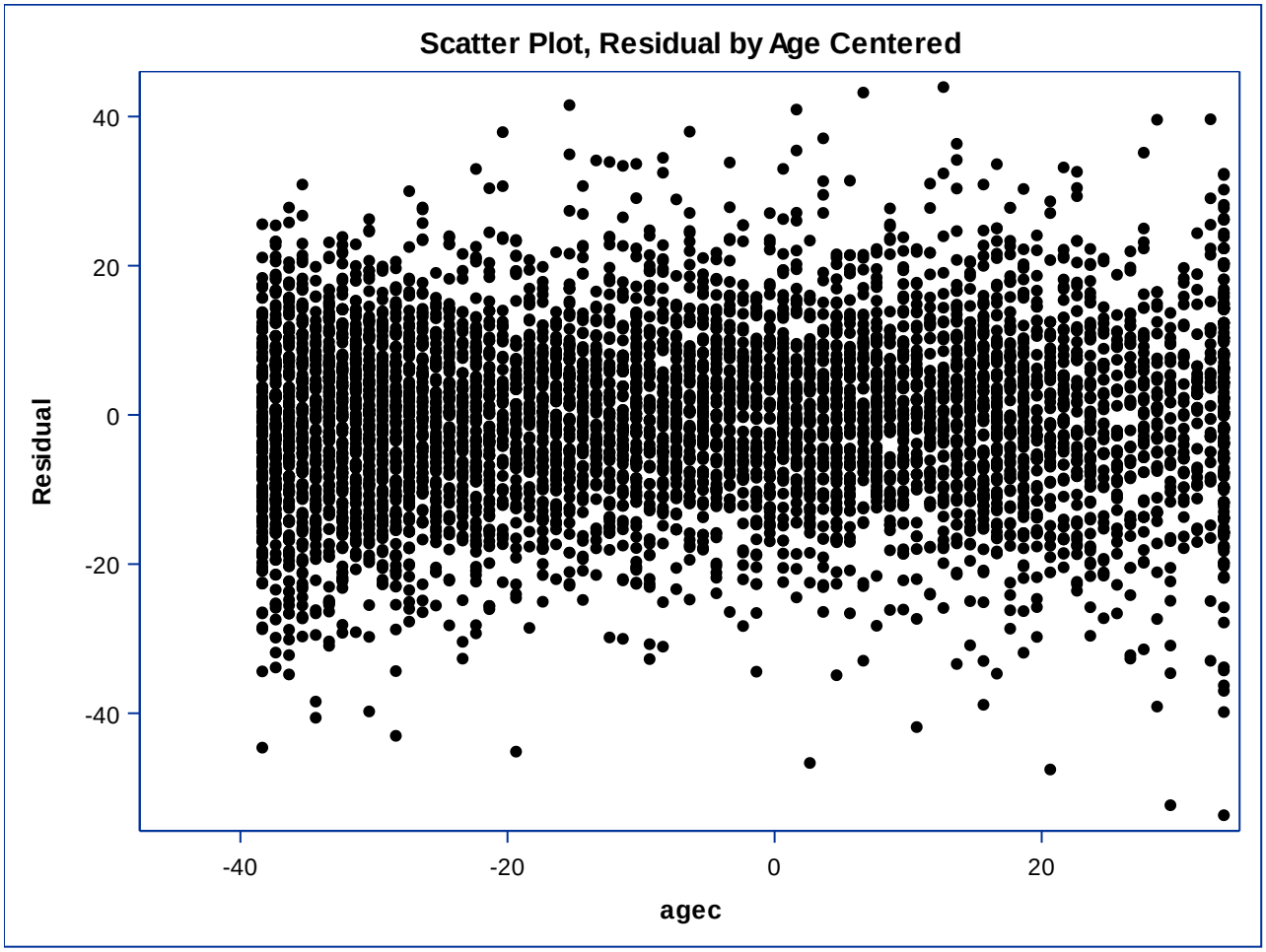
Fit Statistics	
R-Square	0.1141
Root MSE	10.7754
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	7	246.80	<.0001
Intercept	1	24761.7	<.0001
RIDRETH1	4	3.90	0.0201
RIAGENDR	1	19.63	0.0004
agec	1	23.04	0.0002
agecsq	1	264.90	<.0001

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	74.4622832	0.56555603	131.66	<.0001	73.2690643	75.6555021	1.25
RIDRETH1 2	0.2178048	1.21781663	0.18	0.8602	-2.3515637	2.7871733	3.03
RIDRETH1 3	2.0844882	0.85766201	2.43	0.0264	0.2749795	3.8939969	2.88
RIDRETH1 4	2.5108637	0.73404040	3.42	0.0033	0.9621739	4.0595536	1.45
RIDRETH1 5	1.4095682	0.68770336	2.05	0.0561	-0.0413591	2.8604954	1.06
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-2.1692000	0.48954380	-4.43	0.0004	-3.2020471	-1.1363528	3.43
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0748534	0.01559599	4.80	0.0002	0.0419487	0.1077581	3.95
agecsq	-0.0116898	0.00071823	-16.28	<.0001	-0.0132051	-0.0101744	2.75

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.


Scatter Plot, Residual by Age Centered
Residual
40
20
0
-20
-40
-40
-20
0
20
agec

Interaction Tests for Preliminary Model: Test Race/Ethnicity X Age

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2457
Root MSE	10.8319
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	2	0.00	1.0000
Intercept	1	25585.2	<.0001
RIDRETH1	4	3.44	0.0310
RIAGENDR	1	23.89	0.0001
agec	1	27.43	<.0001
agecsq	0	.	.
agec*RIAGENDR	1	2.89	0.1075
agecsq*RIAGENDR	0	.	.

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.1528932	0.61894039	121.42	<.0001	73.8470431	76.4587433	1.48
RIDRETH1 2	0.5000839	1.14420498	0.44	0.6676	-1.9139776	2.9141454	2.82
RIDRETH1 3	2.1926769	0.95457827	2.30	0.0346	0.1786928	4.2066610	3.90
RIDRETH1 4	2.2906740	0.72341341	3.17	0.0056	0.7644051	3.8169428	1.51
RIDRETH1 5	1.5704772	0.64181044	2.45	0.0256	0.2163755	2.9245789	0.97
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
RIAGENDR 2	-3.3917508	0.69393230	-4.89	0.0001	-4.8558200	-1.9276817	3.33
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0600528	0.01571761	3.82	0.0014	0.0268915	0.0932141	2.24
agecsq	0.0643831	0.00000000	Infty	<.0001	0.0643831	0.0643831	.
agec*RIAGENDR 2	0.0356556	0.02098631	1.70	0.1075	-0.0086216	0.0799329	2.23
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	-0.0746852	0.00000000	-Infty	<.0001	-0.0746852	-0.0746852	.
agecsq*RIAGENDR 1	-0.0790030	0.00000000	-Infty	<.0001	-0.0790030	-0.0790030	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Race 4 levels	4	3.44	0.0310
Gender X AGESQ	0	.	.
Gender X agec	1	2.89	0.1075
gender x age	1	2.89	0.1075

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X Age

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.07215
Root MSE	11.1970
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	0.00	1.0000
Intercept	1	0.15	0.7018
RIDRETH1	4	1.34	0.2940
RIAGENDR	1	1.68	0.2121
agec	1	1.42	0.2493
agecsq	1	0.00	1.0000
agec*RIAGENDR	1	1.53	0.2336
agecsq*RIAGENDR	2	0.00	1.0000

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	76.53633	68.54154	1.12	0.2797	-68.0737	221.14635	4.78
RIDRETH1 2	1.72481	1.43847	1.20	0.2470	-1.3101	4.75971	5.41
RIDRETH1 3	2.65946	1.67279	1.59	0.1303	-0.8698	6.18873	16.77
RIDRETH1 4	1.03355	0.87041	1.19	0.2514	-0.8028	2.86995	2.88
RIDRETH1 5	2.27345	1.01120	2.25	0.0381	0.1400	4.40690	2.79
RIDRETH1 1	0.00000	0.00000	.	.	0.0000	0.00000	.
RIAGENDR 2	-119.48862	92.14904	-1.30	0.2121	-313.9061	74.92886	4.45
RIAGENDR 1	0.00000	0.00000	.	.	0.0000	0.00000	.
agec	0.03377	4.11285	0.01	0.9935	-8.6436	8.71113	4.92
agecsq	-0.05914	2675.49600	-0.00	1.0000	-5644.8623	5644.74400	0.74
agec*RIAGENDR 2	-6.75465	5.46926	-1.24	0.2336	-18.2938	4.78448	4.46
agec*RIAGENDR 1	0.00000	0.00000	.	.	0.0000	0.00000	.
agecsq*RIAGENDR 2	-0.05194	4634.09501	-0.00	1.0000	-9777.1378	9777.03389	2.22

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agecsq*RIAGENDR 1	0.04193	3783.72273	0.00	1.0000	-7982.9152	7982.99908	1.48

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Race 4 levels	4	1.34	0.2940
Gender X AGESQ	1	0.00	1.0000
Gender X agec	1	1.53	0.2336
gender x age	2	0.76	0.4817

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X Age

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.1179
Root MSE	10.7536
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	9	392.65	<.0001
Intercept	1	24931.2	<.0001
RIDRETH1	4	4.01	0.0181
RIAGENDR	1	17.51	0.0006
agec	1	20.48	0.0003
agecsq	1	284.73	<.0001
agec*RIAGENDR	1	4.29	0.0538
agecsq*RIAGENDR	1	4.13	0.0579

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	74.9846596	0.64614618	116.05	<.0001	73.6214103	76.3479089	1.52
RIDRETH1 2	0.2056088	1.20959655	0.17	0.8670	-2.3464169	2.7576344	3.00
RIDRETH1 3	2.0990068	0.84590923	2.48	0.0238	0.3142944	3.8837193	2.82
RIDRETH1 4	2.5401774	0.73329601	3.46	0.0030	0.9930580	4.0872967	1.45
RIDRETH1 5	1.4274416	0.69246583	2.06	0.0549	-0.0335336	2.8884168	1.08
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.1707086	0.75773648	-4.18	0.0006	-4.7693928	-1.5720244	4.14
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0481536	0.01632574	2.95	0.0090	0.0137093	0.0825979	2.18
agecsq	-0.0135697	0.00084000	-16.15	<.0001	-0.0153419	-0.0117974	1.77
agec*RIAGENDR 2	0.0476044	0.02297186	2.07	0.0538	-0.0008620	0.0960708	2.22
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	0.0033007	0.00162337	2.03	0.0579	-0.0001243	0.0067257	3.49

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agecsq*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Race 4 levels	4	4.01	0.0181
Gender X AGESQ	1	4.13	0.0579
Gender X agec	1	4.29	0.0538
gender x age	2	5.35	0.0158

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2427
Root MSE	10.8585
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	3	0.00	1.0000
Intercept	1	26564.6	<.0001
RIDRETH1	4	4.41	0.0126
RIAGENDR	1	18.54	0.0005
agec	1	32.95	<.0001
agecsq	1	0.00	1.0000
agec*RIDRETH1	4	0.87	0.5046
agecsq*RIDRETH1	3	0.00	1.0000

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	74.6632498	0.58860	126.85	<.0001	73.4214	75.90508	0.78
RIDRETH1 2	0.0263161	0.99104	0.03	0.9791	-2.0646	2.11722	0.99
RIDRETH1 3	1.5753296	0.81184	1.94	0.0691	-0.1375	3.28816	1.36
RIDRETH1 4	3.1340565	0.85435	3.67	0.0019	1.3315	4.93659	0.99
RIDRETH1 5	1.1436094	0.75102	1.52	0.1462	-0.4409	2.72812	0.63
RIDRETH1 1	0.0000000	0.00000	.	.	0.0000	0.00000	.

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
RIAGENDR 2	-1.7278289	0.40132	-4.31	0.0005	-2.5745	-0.88111	2.27
RIAGENDR 1	0.0000000	0.00000	.	.	0.0000	0.00000	.
agec	0.0601803	0.03420	1.76	0.0964	-0.0120	0.13233	0.82
agecsq	0.0733953	2028.42602	0.00	1.0000	-4279.5314	4279.67821	0.29
agec*RIDRETH1 2	0.0436911	0.05320	0.82	0.4228	-0.0685	0.15593	1.20
agec*RIDRETH1 3	0.0158846	0.04787	0.33	0.7441	-0.0851	0.11687	1.54
agec*RIDRETH1 4	0.0330769	0.03527	0.94	0.3615	-0.0413	0.10749	0.65
agec*RIDRETH1 5	0.0212385	0.05123	0.41	0.6837	-0.0869	0.12933	1.20
agec*RIDRETH1 1	0.0000000	0.00000	.	.	0.0000	0.00000	.
agecsq*RIDRETH1 2	-0.0849598	2236.16358	-0.00	1.0000	-4717.9777	4717.80780	0.35
agecsq*RIDRETH1 3	-0.0851147	1489.28438	-0.00	1.0000	-3142.2005	3142.03028	0.16
agecsq*RIDRETH1 4	-0.0882311	2621.32250	-0.00	1.0000	-5530.5953	5530.41882	0.48
agecsq*RIDRETH1 5	-0.0855777	1147.99792	-0.00	0.9999	-2422.1495	2421.97831	0.09
agecsq*RIDRETH1 1	-0.0870356	0.00000	-Infty	<.0001	-0.0870	-0.08704	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Race 4 levels	4	4.41	0.0126
Race X AgeC	4	0.87	0.5046
Race X Agecsq	3	0.00	1.0000
Race X AgeC and Race X Agecsq	7	0.49	0.8258

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.07199
Root MSE	11.2029
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	5	0.00	1.0000
Intercept	1	1.10	0.3084
RIDRETH1	4	2.18	0.1153
RIAGENDR	1	2.07	0.1680
agec	1	0.08	0.7820
agecsq	0	.	.
agec*RIDRETH1	4	2.21	0.1116
agecsq*RIDRETH1	0	.	.

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	35.643576	70.306326	0.51	0.6187	-112.68981	183.976958	1.40
RIDRETH1 2	-19.437283	179.227617	-0.11	0.9149	-397.57450	358.699936	3.44
RIDRETH1 3	-85.351857	94.751745	-0.90	0.3803	-285.26057	114.556851	2.05
RIDRETH1 4	103.117449	103.285758	1.00	0.3321	-114.79645	321.031350	1.59
RIDRETH1 5	121.766208	174.825742	0.70	0.4955	-247.08387	490.616282	3.16
RIDRETH1 1	0.000000	0.000000	.	.	0.00000	0.000000	.
RIAGENDR 2	0.883542	0.613534	1.44	0.1680	-0.41090	2.177985	4.90
RIAGENDR 1	0.000000	0.000000	.	.	0.00000	0.000000	.
agec	-2.252853	4.102667	-0.55	0.5901	-10.90872	6.403017	1.37
agecsq	0.071897	0.000000	Infty	<.0001	0.07190	0.071897	.
agec*RIDRETH1 2	-1.520229	10.525899	-0.14	0.8869	-23.72793	20.687477	3.40
agec*RIDRETH1 3	-5.038632	5.568505	-0.90	0.3782	-16.78715	6.709887	2.03
agec*RIDRETH1 4	6.044361	6.147428	0.98	0.3393	-6.92558	19.014300	1.60

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 5	7.008284	10.377707	0.68	0.5086	-14.88676	28.903331	3.17
agec*RIDRETH1 1	0.000000	0.000000	.	.	0.00000	0.000000	.
agecsq*RIDRETH1 2	-0.146948	0.000000	-Infty	<.0001	-0.14695	-0.146948	.
agecsq*RIDRETH1 3	-0.192360	0.000000	-Infty	<.0001	-0.19236	-0.192360	.
agecsq*RIDRETH1 4	-0.031896	0.000000	-Infty	<.0001	-0.03190	-0.031896	.
agecsq*RIDRETH1 5	-0.018769	0.000000	-Infty	<.0001	-0.01877	-0.018769	.
agecsq*RIDRETH1 1	-0.120699	0.000000	-Infty	<.0001	-0.12070	-0.120699	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Race 4 levels	4	2.18	0.1153
Race X AgeC	4	2.21	0.1116
Race X Agecsq	4	0.00	1.0000
Race X AgeC and Race X Agecsq	8	1.10	0.4076

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.1165
Root MSE	10.7668
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	15	2008.59	<.0001
Intercept	1	24876.9	<.0001
RIDRETH1	4	4.85	0.0085
RIAGENDR	1	19.55	0.0004
agec	1	42.15	<.0001
agecsq	1	277.92	<.0001
agec*RIDRETH1	4	3.90	0.0201
agecsq*RIDRETH1	4	7.02	0.0016

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	74.8592013	0.76161698	98.29	<.0001	73.2523300	76.4660727	1.22
RIDRETH1 2	0.2240800	0.92873001	0.24	0.8122	-1.7353691	2.1835290	0.83
RIDRETH1 3	1.3989931	0.90799285	1.54	0.1418	-0.5167044	3.3146905	1.61
RIDRETH1 4	3.3415833	0.96307661	3.47	0.0029	1.3096693	5.3734974	1.22
RIDRETH1 5	1.0847841	0.90072509	1.20	0.2450	-0.8155798	2.9851479	0.88
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-2.1684555	0.49043660	-4.42	0.0004	-3.2031863	-1.1337247	3.44
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0611597	0.03296999	1.86	0.0810	-0.0084009	0.1307203	0.88
agecsq	-0.0136111	0.00182281	-7.47	<.0001	-0.0174569	-0.0097654	0.91
agec*RIDRETH1 2	0.0558551	0.04741021	1.18	0.2550	-0.0441717	0.1558819	1.04
agec*RIDRETH1 3	-0.0011241	0.04985741	-0.02	0.9823	-0.1063141	0.1040658	1.87
agec*RIDRETH1 4	0.0400011	0.03608346	1.11	0.2831	-0.0361283	0.1161306	0.74

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 5	0.0190378	0.04570674	0.42	0.6822	-0.0773950	0.1154706	1.03
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIDRETH1 2	0.0012086	0.00321744	0.38	0.7118	-0.0055796	0.0079969	1.51
agecsq*RIDRETH1 3	0.0029605	0.00156895	1.89	0.0764	-0.0003497	0.0062707	0.63
agecsq*RIDRETH1 4	-0.0019481	0.00180349	-1.08	0.2952	-0.0057531	0.0018570	0.61
agecsq*RIDRETH1 5	0.0017277	0.00271350	0.64	0.5328	-0.0039973	0.0074527	1.16
agecsq*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Race 4 levels	4	4.85	0.0085
Race X AgeC	4	3.90	0.0201
Race X Agecsq	4	7.02	0.0016
Race X AgeC and Race X Agecsq	8	11.87	<.0001

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2457
Root MSE	10.8319
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	2	0.00	1.0000
Intercept	1	25585.2	<.0001
RIDRETH1	4	3.44	0.0310
RIAGENDR	1	23.89	0.0001
agec	1	27.43	<.0001
agecsq	0	.	.
agec*RIAGENDR	1	2.89	0.1075
agecsq*RIAGENDR	0	.	.

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.1528932	0.61894039	121.42	<.0001	73.8470431	76.4587433	1.48
RIDRETH1 2	0.5000839	1.14420498	0.44	0.6676	-1.9139776	2.9141454	2.82
RIDRETH1 3	2.1926769	0.95457827	2.30	0.0346	0.1786928	4.2066610	3.90
RIDRETH1 4	2.2906740	0.72341341	3.17	0.0056	0.7644051	3.8169428	1.51
RIDRETH1 5	1.5704772	0.64181044	2.45	0.0256	0.2163755	2.9245789	0.97
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
RIAGENDR 2	-3.3917508	0.69393230	-4.89	0.0001	-4.8558200	-1.9276817	3.33
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0600528	0.01571761	3.82	0.0014	0.0268915	0.0932141	2.24
agecsq	0.0643831	0.00000000	Infty	<.0001	0.0643831	0.0643831	.
agec*RIAGENDR 2	0.0356556	0.02098631	1.70	0.1075	-0.0086216	0.0799329	2.23
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	-0.0746852	0.00000000	-Infty	<.0001	-0.0746852	-0.0746852	.
agecsq*RIAGENDR 1	-0.0790030	0.00000000	-Infty	<.0001	-0.0790030	-0.0790030	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Analysis of Contrasts			
Contrast	**Num DF**	**F Value**	**Pr > F**
Gender X agesq	0	.	.
Gender X agec	1	2.89	0.1075
Gender X Agec and Gender X Agecsq	1	2.89	0.1075

Note:	**The denominator degrees of freedom for the F tests is 17.**

Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.07215
Root MSE	11.1970
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	1	0.00	1.0000
Intercept	1	0.15	0.7018
RIDRETH1	4	1.34	0.2940
RIAGENDR	1	1.68	0.2121
agec	1	1.42	0.2493
agecsq	1	0.00	1.0000
agec*RIAGENDR	1	1.53	0.2336
agecsq*RIAGENDR	2	0.00	1.0000

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	76.53633	68.54154	1.12	0.2797	-68.0737	221.14635	4.78
RIDRETH1 2	1.72481	1.43847	1.20	0.2470	-1.3101	4.75971	5.41
RIDRETH1 3	2.65946	1.67279	1.59	0.1303	-0.8698	6.18873	16.77
RIDRETH1 4	1.03355	0.87041	1.19	0.2514	-0.8028	2.86995	2.88
RIDRETH1 5	2.27345	1.01120	2.25	0.0381	0.1400	4.40690	2.79
RIDRETH1 1	0.00000	0.00000	.	.	0.0000	0.00000	.
RIAGENDR 2	-119.48862	92.14904	-1.30	0.2121	-313.9061	74.92886	4.45
RIAGENDR 1	0.00000	0.00000	.	.	0.0000	0.00000	.
agec	0.03377	4.11285	0.01	0.9935	-8.6436	8.71113	4.92
agecsq	-0.05914	2675.49600	-0.00	1.0000	-5644.8623	5644.74400	0.74
agec*RIAGENDR 2	-6.75465	5.46926	-1.24	0.2336	-18.2938	4.78448	4.46
agec*RIAGENDR 1	0.00000	0.00000	.	.	0.0000	0.00000	.
agecsq*RIAGENDR 2	-0.05194	4634.09501	-0.00	1.0000	-9777.1378	9777.03389	2.22

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
agecsq*RIAGENDR 1	0.04193	3783.72273	0.00	1.0000	-7982.9152	7982.99908	1.48

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Analysis of Contrasts			
Contrast	Num DF	F Value	Pr > F
Gender X agesq	1	0.00	1.0000
Gender X agec	1	1.53	0.2336
Gender X Agec and Gender X Agecsq	2	0.76	0.4817

Note:	The denominator degrees of freedom for the F tests is 17.

Interaction Tests for Preliminary Model: Test Race/Ethnicity X AgeC and AgeCsq

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.1179
Root MSE	10.7536
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	9	392.65	<.0001
Intercept	1	24931.2	<.0001
RIDRETH1	4	4.01	0.0181
RIAGENDR	1	17.51	0.0006
agec	1	20.48	0.0003
agecsq	1	284.73	<.0001
agec*RIAGENDR	1	4.29	0.0538
agecsq*RIAGENDR	1	4.13	0.0579

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	74.9846596	0.64614618	116.05	<.0001	73.6214103	76.3479089	1.52
RIDRETH1 2	0.2056088	1.20959655	0.17	0.8670	-2.3464169	2.7576344	3.00
RIDRETH1 3	2.0990068	0.84590923	2.48	0.0238	0.3142944	3.8837193	2.82
RIDRETH1 4	2.5401774	0.73329601	3.46	0.0030	0.9930580	4.0872967	1.45
RIDRETH1 5	1.4274416	0.69246583	2.06	0.0549	-0.0335336	2.8884168	1.08
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.1707086	0.75773648	-4.18	0.0006	-4.7693928	-1.5720244	4.14
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0481536	0.01632574	2.95	0.0090	0.0137093	0.0825979	2.18
agecsq	-0.0135697	0.00084000	-16.15	<.0001	-0.0153419	-0.0117974	1.77
agec*RIAGENDR 2	0.0476044	0.02297186	2.07	0.0538	-0.0008620	0.0960708	2.22
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	0.0033007	0.00162337	2.03	0.0579	-0.0001243	0.0067257	3.49

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
agecsq*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Analysis of Contrasts			
Contrast	Num DF	F Value	Pr > F
Gender X agesq	1	4.13	0.0579
Gender X agec	1	4.29	0.0538
Gender X Agec and Gender X Agecsq	2	5.35	0.0158

Note:	The denominator degrees of freedom for the F tests is 17.

Marginal predicted values by Race from model including significant interactions

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2474
Root MSE	10.8255
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	2813.29	<.0001
Intercept	1	26759.4	<.0001
RIDRETH1	4	4.76	0.0093
RIAGENDR	1	24.18	0.0001
agec	1	28.34	<.0001
agec*agec	1	698.53	<.0001
agec*RIDRETH1	4	0.57	0.6854
agec*agec*RIDRETH1	4	5.83	0.0038
agec*RIAGENDR	1	2.71	0.1183
agec*agec*RIAGENDR	1	16.78	0.0008

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.4816175	0.67973857	111.05	<.0001	74.0474945	76.9157405	1.01
RIDRETH1 2	0.0308887	0.96713577	0.03	0.9749	-2.0095894	2.0713668	0.95
RIDRETH1 3	1.6229848	0.79987216	2.03	0.0584	-0.0645979	3.3105675	1.33
RIDRETH1 4	3.2495985	0.84813375	3.83	0.0013	1.4601927	5.0390043	0.98

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
RIDRETH1 5	1.1847914	0.73814299	1.61	0.1269	-0.3725542	2.7421369	0.61
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.4128307	0.69403120	-4.92	0.0001	-4.8771086	-1.9485529	3.33
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.4306409	0.37769970	1.14	0.2700	-0.3662358	1.2275176	0.98
agec*agec	-1.5790972	0.10214014	-15.46	<.0001	-1.7945940	-1.3636003	0.53
agec*RIDRETH1 2	0.3743707	0.55947844	0.67	0.5124	-0.8060256	1.5547670	1.33
agec*RIDRETH1 3	0.1214725	0.51168294	0.24	0.8152	-0.9580841	1.2010292	1.77
agec*RIDRETH1 4	0.2716418	0.38329156	0.71	0.4881	-0.5370328	1.0803163	0.77
agec*RIDRETH1 5	0.1642873	0.55558129	0.30	0.7710	-1.0078867	1.3364614	1.42
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIDRETH1 2	0.1924973	0.18250497	1.05	0.3063	-0.1925545	0.5775492	0.88
agec*agec*RIDRETH1 3	0.1736396	0.10027867	1.73	0.1015	-0.0379299	0.3852091	0.49
agec*agec*RIDRETH1 4	-0.1505095	0.12259070	-1.23	0.2363	-0.4091533	0.1081342	0.51
agec*agec*RIDRETH1 5	0.1311487	0.14299393	0.92	0.3719	-0.1705421	0.4328395	0.59
agec*agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.3524244	0.21419598	1.65	0.1183	-0.0994896	0.8043384	2.32
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIAGENDR 2	0.4328618	0.10568291	4.10	0.0008	0.2098904	0.6558333	2.48
agec*agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Coefficients for RIDRETH1 Least Squares Means At agec=-3							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-3	-3	-3	-3	-3
agec*agec			9	9	9	9	9
agec*RIDRETH1	2		-3				
agec*RIDRETH1	3			-3			
agec*RIDRETH1	4				-3		
agec*RIDRETH1	5					-3	
agec*RIDRETH1	1						-3
agec*agec*RIDRETH1	2		9				
agec*agec*RIDRETH1	3			9			
agec*agec*RIDRETH1	4				9		

Coefficients for RIDRETH1 Least Squares Means At agec=-3							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	5					9	
agec*agec*RIDRETH1	1						9
agec*RIAGENDR		2	-1.5	-1.5	-1.5	-1.5	-1.5
agec*RIAGENDR		1	-1.5	-1.5	-1.5	-1.5	-1.5
agec*agec*RIAGENDR		2	4.5	4.5	4.5	4.5	4.5
agec*agec*RIAGENDR		1	4.5	4.5	4.5	4.5	4.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-3.00	60.3309	1.1726	17	51.45	<.0001	0.05	57.8569	62.8049
3	-3.00	62.5120	1.3315	17	46.95	<.0001	0.05	59.7027	65.3213
4	-3.00	60.7707	0.7916	17	76.77	<.0001	0.05	59.1006	62.4409
5	-3.00	61.5629	0.4997	17	123.20	<.0001	0.05	60.5086	62.6172
1	-3.00	59.6906	0.4985	17	119.74	<.0001	0.05	58.6389	60.7424

Coefficients for RIDRETH1 Least Squares Means At agec=-2.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-2.5	-2.5	-2.5	-2.5	-2.5
agec*agec			6.25	6.25	6.25	6.25	6.25
agec*RIDRETH1	2		-2.5				
agec*RIDRETH1	3			-2.5			
agec*RIDRETH1	4				-2.5		
agec*RIDRETH1	5					-2.5	
agec*RIDRETH1	1						-2.5
agec*agec*RIDRETH1	2		6.25				
agec*agec*RIDRETH1	3			6.25			
agec*agec*RIDRETH1	4				6.25		
agec*agec*RIDRETH1	5					6.25	
agec*agec*RIDRETH1	1						6.25
agec*RIAGENDR		2	-1.25	-1.25	-1.25	-1.25	-1.25

Coefficients for RIDRETH1 Least Squares Means At agec=-2.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIAGENDR		1	-1.25	-1.25	-1.25	-1.25	-1.25
agec*agec*RIAGENDR		2	3.125	3.125	3.125	3.125	3.125
agec*agec*RIAGENDR		1	3.125	3.125	3.125	3.125	3.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.50	64.0395	0.9618	17	66.58	<.0001	0.05	62.0102	66.0688
3	-2.50	66.1460	1.1144	17	59.36	<.0001	0.05	63.7948	68.4971
4	-2.50	65.3712	0.7321	17	89.29	<.0001	0.05	63.8266	66.9158
5	-2.50	65.3352	0.5329	17	122.61	<.0001	0.05	64.2109	66.4594
1	-2.50	63.7414	0.5708	17	111.68	<.0001	0.05	62.5372	64.9456

Coefficients for RIDRETH1 Least Squares Means At agec=-2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-2	-2	-2	-2	-2
agec*agec			4	4	4	4	4
agec*RIDRETH1	2		-2				
agec*RIDRETH1	3			-2			
agec*RIDRETH1	4				-2		
agec*RIDRETH1	5					-2	
agec*RIDRETH1	1						-2
agec*agec*RIDRETH1	2		4				
agec*agec*RIDRETH1	3			4			
agec*agec*RIDRETH1	4				4		
agec*agec*RIDRETH1	5					4	
agec*agec*RIDRETH1	1						4
agec*RIAGENDR		2	-1	-1	-1	-1	-1
agec*RIAGENDR		1	-1	-1	-1	-1	-1
agec*agec*RIAGENDR		2	2	2	2	2	2
agec*agec*RIAGENDR		1	2	2	2	2	2

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.00	67.1630	0.8304	17	80.88	<.0001	0.05	65.4109	68.9150
3	-2.00	69.1854	0.9320	17	74.24	<.0001	0.05	67.2191	71.1517
4	-2.00	69.2151	0.7137	17	96.99	<.0001	0.05	67.7094	70.7208
5	-2.00	68.4916	0.5797	17	118.15	<.0001	0.05	67.2686	69.7147
1	-2.00	67.1108	0.6193	17	108.36	<.0001	0.05	65.8042	68.4175

Coefficients for RIDRETH1 Least Squares Means At agec=-1.5								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-1.5	-1.5	-1.5	-1.5	-1.5
agec*agec			2.25	2.25	2.25	2.25	2.25
agec*RIDRETH1	2		-1.5				
agec*RIDRETH1	3			-1.5			
agec*RIDRETH1	4				-1.5		
agec*RIDRETH1	5					-1.5	
agec*RIDRETH1	1						-1.5
agec*agec*RIDRETH1	2		2.25				
agec*agec*RIDRETH1	3			2.25			
agec*agec*RIDRETH1	4				2.25		
agec*agec*RIDRETH1	5					2.25	
agec*agec*RIDRETH1	1						2.25
agec*RIAGENDR		2	-0.75	-0.75	-0.75	-0.75	-0.75
agec*RIAGENDR		1	-0.75	-0.75	-0.75	-0.75	-0.75
agec*agec*RIAGENDR		2	1.125	1.125	1.125	1.125	1.125
agec*agec*RIAGENDR		1	1.125	1.125	1.125	1.125	1.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.50	69.7014	0.7763	17	89.79	<.0001	0.05	68.0635	71.3392
3	-1.50	71.6304	0.7834	17	91.44	<.0001	0.05	69.9777	73.2831

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
4	-1.50	72.3024	0.7206	17	100.34	<.0001	0.05	70.7821	73.8227
5	-1.50	71.0324	0.6182	17	114.91	<.0001	0.05	69.7281	72.3366
1	-1.50	69.7989	0.6342	17	110.06	<.0001	0.05	68.4609	71.1370

Coefficients for RIDRETH1 Least Squares Means At agec=-1								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-1	-1	-1	-1	-1
agec*agec			1	1	1	1	1
agec*RIDRETH1	2		-1				
agec*RIDRETH1	3			-1			
agec*RIDRETH1	4				-1		
agec*RIDRETH1	5					-1	
agec*RIDRETH1	1						-1
agec*agec*RIDRETH1	2		1				
agec*agec*RIDRETH1	3			1			
agec*agec*RIDRETH1	4				1		
agec*agec*RIDRETH1	5					1	
agec*agec*RIDRETH1	1						1
agec*RIAGENDR		2	-0.5	-0.5	-0.5	-0.5	-0.5
agec*RIAGENDR		1	-0.5	-0.5	-0.5	-0.5	-0.5
agec*agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.00	71.6547	0.7933	17	90.32	<.0001	0.05	69.9809	73.3285
3	-1.00	73.4808	0.6665	17	110.25	<.0001	0.05	72.0747	74.8870
4	-1.00	74.6331	0.7380	17	101.13	<.0001	0.05	73.0760	76.1902
5	-1.00	72.9573	0.6445	17	113.20	<.0001	0.05	71.5976	74.3171
1	-1.00	71.8057	0.6154	17	116.68	<.0001	0.05	70.5073	73.1040

Coefficients for RIDRETH1 Least Squares Means At agec=-0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-0.5	-0.5	-0.5	-0.5	-0.5
agec*agec			0.25	0.25	0.25	0.25	0.25
agec*RIDRETH1	2		-0.5				
agec*RIDRETH1	3			-0.5			
agec*RIDRETH1	4				-0.5		
agec*RIDRETH1	5					-0.5	
agec*RIDRETH1	1						-0.5
agec*agec*RIDRETH1	2		0.25				
agec*agec*RIDRETH1	3			0.25			
agec*agec*RIDRETH1	4				0.25		
agec*agec*RIDRETH1	5					0.25	
agec*agec*RIDRETH1	1						0.25
agec*RIAGENDR		2	-0.25	-0.25	-0.25	-0.25	-0.25
agec*RIAGENDR		1	-0.25	-0.25	-0.25	-0.25	-0.25
agec*agec*RIAGENDR		2	0.125	0.125	0.125	0.125	0.125
agec*agec*RIAGENDR		1	0.125	0.125	0.125	0.125	0.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-0.50	73.0229	0.8752	17	83.44	<.0001	0.05	71.1764	74.8695
3	-0.50	74.7368	0.5780	17	129.31	<.0001	0.05	73.5173	75.9562
4	-0.50	76.2073	0.7556	17	100.86	<.0001	0.05	74.6131	77.8014
5	-0.50	74.2665	0.6678	17	111.21	<.0001	0.05	72.8576	75.6755
1	-0.50	73.1311	0.5717	17	127.92	<.0001	0.05	71.9249	74.3373

Coefficients for RIDRETH1 Least Squares Means At agec=0							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1

Coefficients for RIDRETH1 Least Squares Means At agec=0							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec							
agec*agec							
agec*RIDRETH1	2						
agec*RIDRETH1	3						
agec*RIDRETH1	4						
agec*RIDRETH1	5						
agec*RIDRETH1	1						
agec*agec*RIDRETH1	2						
agec*agec*RIDRETH1	3						
agec*agec*RIDRETH1	4						
agec*agec*RIDRETH1	5						
agec*agec*RIDRETH1	1						
agec*RIAGENDR		2					
agec*RIAGENDR		1					
agec*agec*RIAGENDR		2					
agec*agec*RIAGENDR		1					

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.00	73.8061	1.0195	17	72.39	<.0001	0.05	71.6551	75.9571
3	0.00	75.3982	0.5135	17	146.85	<.0001	0.05	74.3149	76.4815
4	0.00	77.0248	0.7679	17	100.31	<.0001	0.05	75.4047	78.6449
5	0.00	74.9600	0.7079	17	105.88	<.0001	0.05	73.4664	76.4536
1	0.00	73.7752	0.5264	17	140.15	<.0001	0.05	72.6646	74.8858

Coefficients for RIDRETH1 Least Squares Means At agec=0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		

Coefficients for RIDRETH1 Least Squares Means At agec=0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			0.5	0.5	0.5	0.5	0.5
agec*agec			0.25	0.25	0.25	0.25	0.25
agec*RIDRETH1	2		0.5				
agec*RIDRETH1	3			0.5			
agec*RIDRETH1	4				0.5		
agec*RIDRETH1	5					0.5	
agec*RIDRETH1	1						0.5
agec*agec*RIDRETH1	2		0.25				
agec*agec*RIDRETH1	3			0.25			
agec*agec*RIDRETH1	4				0.25		
agec*agec*RIDRETH1	5					0.25	
agec*agec*RIDRETH1	1						0.25
agec*RIAGENDR		2	0.25	0.25	0.25	0.25	0.25
agec*RIAGENDR		1	0.25	0.25	0.25	0.25	0.25
agec*agec*RIAGENDR		2	0.125	0.125	0.125	0.125	0.125
agec*agec*RIAGENDR		1	0.125	0.125	0.125	0.125	0.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.50	74.0042	1.2278	17	60.27	<.0001	0.05	71.4137	76.5947
3	0.50	75.4651	0.4690	17	160.89	<.0001	0.05	74.4755	76.4547
4	0.50	77.0858	0.7739	17	99.61	<.0001	0.05	75.4531	78.7184
5	0.50	75.0377	0.7908	17	94.89	<.0001	0.05	73.3692	76.7061
1	0.50	73.7380	0.5261	17	140.16	<.0001	0.05	72.6280	74.8479

Coefficients for RIDRETH1 Least Squares Means At agec=1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5

Coefficients for RIDRETH1 Least Squares Means At agec=1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			1	1	1	1	1
agec*agec			1	1	1	1	1
agec*RIDRETH1	2		1				
agec*RIDRETH1	3			1			
agec*RIDRETH1	4				1		
agec*RIDRETH1	5					1	
agec*RIDRETH1	1						1
agec*agec*RIDRETH1	2		1				
agec*agec*RIDRETH1	3			1			
agec*agec*RIDRETH1	4				1		
agec*agec*RIDRETH1	5					1	
agec*agec*RIDRETH1	1						1
agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.00	73.6171	1.5031	17	48.98	<.0001	0.05	70.4459	76.7884
3	1.00	74.9375	0.4437	17	168.88	<.0001	0.05	74.0013	75.8737
4	1.00	76.3901	0.7765	17	98.38	<.0001	0.05	74.7519	78.0284
5	1.00	74.4996	0.9380	17	79.42	<.0001	0.05	72.5205	76.4787
1	1.00	73.0194	0.6243	17	116.96	<.0001	0.05	71.7022	74.3366

Coefficients for RIDRETH1 Least Squares Means At agec=1.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			1.5	1.5	1.5	1.5	1.5
agec*agec			2.25	2.25	2.25	2.25	2.25

Coefficients for RIDRETH1 Least Squares Means At agec=1.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIDRETH1	2		1.5				
agec*RIDRETH1	3			1.5			
agec*RIDRETH1	4				1.5		
agec*RIDRETH1	5					1.5	
agec*RIDRETH1	1						1.5
agec*agec*RIDRETH1	2		2.25				
agec*agec*RIDRETH1	3			2.25			
agec*agec*RIDRETH1	4				2.25		
agec*agec*RIDRETH1	5					2.25	
agec*agec*RIDRETH1	1						2.25
agec*RIAGENDR		2	0.75	0.75	0.75	0.75	0.75
agec*RIAGENDR		1	0.75	0.75	0.75	0.75	0.75
agec*agec*RIAGENDR		2	1.125	1.125	1.125	1.125	1.125
agec*agec*RIAGENDR		1	1.125	1.125	1.125	1.125	1.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.50	72.6450	1.8478	17	39.31	<.0001	0.05	68.7465	76.5436
3	1.50	73.8154	0.4412	17	167.30	<.0001	0.05	72.8845	74.7463
4	1.50	74.9379	0.7827	17	95.74	<.0001	0.05	73.2865	76.5893
5	1.50	73.3458	1.1590	17	63.28	<.0001	0.05	70.9005	75.7911
1	1.50	71.6195	0.8348	17	85.79	<.0001	0.05	69.8582	73.3807

Coefficients for RIDRETH1 Least Squares Means At agec=2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			2	2	2	2	2
agec*agec			4	4	4	4	4
agec*RIDRETH1	2		2				
agec*RIDRETH1	3			2			
agec*RIDRETH1	4				2		

Coefficients for RIDRETH1 Least Squares Means At agec=2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIDRETH1	5					2	
agec*RIDRETH1	1						2
agec*agec*RIDRETH1	2		4				
agec*agec*RIDRETH1	3			4			
agec*agec*RIDRETH1	4				4		
agec*agec*RIDRETH1	5					4	
agec*agec*RIDRETH1	1						4
agec*RIAGENDR		2	1	1	1	1	1
agec*RIAGENDR		1	1	1	1	1	1
agec*agec*RIAGENDR		2	2	2	2	2	2
agec*agec*RIAGENDR		1	2	2	2	2	2

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.00	71.0879	2.2635	17	31.41	<.0001	0.05	66.3122	75.8635
3	2.00	72.0987	0.4694	17	153.59	<.0001	0.05	71.1083	73.0892
4	2.00	72.7291	0.8032	17	90.55	<.0001	0.05	71.0345	74.4237
5	2.00	71.5762	1.4529	17	49.26	<.0001	0.05	68.5109	74.6416
1	2.00	69.5382	1.1382	17	61.09	<.0001	0.05	67.1369	71.9396

Coefficients for RIDRETH1 Least Squares Means At agec=2.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			2.5	2.5	2.5	2.5	2.5
agec*agec			6.25	6.25	6.25	6.25	6.25
agec*RIDRETH1	2		2.5				
agec*RIDRETH1	3			2.5			
agec*RIDRETH1	4				2.5		
agec*RIDRETH1	5					2.5	
agec*RIDRETH1	1						2.5
agec*agec*RIDRETH1	2		6.25				

Coefficients for RIDRETH1 Least Squares Means At agec=2.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	3			6.25			
agec*agec*RIDRETH1	4				6.25		
agec*agec*RIDRETH1	5					6.25	
agec*agec*RIDRETH1	1						6.25
agec*RIAGENDR		2	1.25	1.25	1.25	1.25	1.25
agec*RIAGENDR		1	1.25	1.25	1.25	1.25	1.25
agec*agec*RIAGENDR		2	3.125	3.125	3.125	3.125	3.125
agec*agec*RIAGENDR		1	3.125	3.125	3.125	3.125	3.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.50	68.9456	2.7511	17	25.06	<.0001	0.05	63.1414	74.7498
3	2.50	69.7876	0.5363	17	130.12	<.0001	0.05	68.6560	70.9191
4	2.50	69.7637	0.8508	17	82.00	<.0001	0.05	67.9686	71.5587
5	2.50	69.1909	1.8153	17	38.11	<.0001	0.05	65.3608	73.0209
1	2.50	66.7757	1.5165	17	44.03	<.0001	0.05	63.5761	69.9752

Coefficients for RIDRETH1 Least Squares Means At agec=3							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			3	3	3	3	3
agec*agec			9	9	9	9	9
agec*RIDRETH1	2		3				
agec*RIDRETH1	3			3			
agec*RIDRETH1	4				3		
agec*RIDRETH1	5					3	
agec*RIDRETH1	1						3
agec*agec*RIDRETH1	2		9				
agec*agec*RIDRETH1	3			9			
agec*agec*RIDRETH1	4				9		
agec*agec*RIDRETH1	5					9	

Coefficients for RIDRETH1 Least Squares Means At agec=3							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	1						9
agec*RIAGENDR		2	1.5	1.5	1.5	1.5	1.5
agec*RIAGENDR		1	1.5	1.5	1.5	1.5	1.5
agec*agec*RIAGENDR		2	4.5	4.5	4.5	4.5	4.5
agec*agec*RIAGENDR		1	4.5	4.5	4.5	4.5	4.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	3.00	66.2182	3.3108	17	20.00	<.0001	0.05	59.2331	73.2033
3	3.00	66.8819	0.6456	17	103.59	<.0001	0.05	65.5198	68.2441
4	3.00	66.0417	0.9374	17	70.45	<.0001	0.05	64.0640	68.0194
5	3.00	66.1898	2.2420	17	29.52	<.0001	0.05	61.4596	70.9199
1	3.00	63.3318	1.9598	17	32.32	<.0001	0.05	59.1970	67.4666

Marginal predicted values by Race from model including significant interactions

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.07446
Root MSE	11.1889
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	701.22	<.0001
Intercept	1	1.12	0.3047
RIDRETH1	4	2.26	0.1059
RIAGENDR	1	1.52	0.2339
agec	1	0.07	0.7969
agec*agec	1	0.34	0.5685
agec*RIDRETH1	4	2.25	0.1066
agec*agec*RIDRETH1	4	2.20	0.1129
agec*RIAGENDR	1	1.39	0.2544
agec*agec*RIAGENDR	1	1.25	0.2794

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	77.59236	55.817676	1.39	0.1824	-40.17264	195.357363	0.79
RIDRETH1 2	-7.15937	186.244532	-0.04	0.9698	-400.10098	385.782248	3.72
RIDRETH1 3	-57.07703	101.797047	-0.56	0.5823	-271.85003	157.695962	2.35
RIDRETH1 4	114.70964	102.379828	1.12	0.2781	-101.29292	330.712198	1.56
RIDRETH1 5	138.50325	175.579375	0.79	0.4411	-231.93685	508.943346	3.19
RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
RIAGENDR 2	-108.71029	88.077169	-1.23	0.2339	-294.53687	77.116294	4.01
RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec	0.90884	33.003879	0.03	0.9784	-68.72326	70.540939	0.79
agec*agec	-1.64557	4.868354	-0.34	0.7395	-11.91690	8.625758	0.80
agec*RIDRETH1 2	-7.85972	109.412724	-0.07	0.9436	-238.70039	222.980951	3.68

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
agec*RIDRETH1 3	-34.26986	59.695080	-0.57	0.5734	-160.21547	91.675749	2.32
agec*RIDRETH1 4	67.13930	60.980467	1.10	0.2862	-61.51824	195.796836	1.57
agec*RIDRETH1 5	79.63757	104.157524	0.76	0.4550	-140.11559	299.390741	3.19
agec*RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec*agec*RIDRETH1 2	-1.53326	16.013365	-0.10	0.9248	-35.31850	32.251990	3.65
agec*agec*RIDRETH1 3	-4.87730	8.742153	-0.56	0.5842	-23.32164	13.567026	2.30
agec*agec*RIDRETH1 4	9.84214	9.084295	1.08	0.2937	-9.32405	29.008326	1.61
agec*agec*RIDRETH1 5	11.55120	15.354399	0.75	0.4622	-20.84375	43.946151	3.20
agec*agec*RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec*RIAGENDR 2	-61.55298	52.184387	-1.18	0.2544	-171.65241	48.546453	4.01
agec*RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec*agec*RIAGENDR 2	-8.55939	7.661195	-1.12	0.2794	-24.72310	7.604322	3.98
agec*agec*RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Coefficients for RIDRETH1 Least Squares Means At agec=-3							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-3	-3	-3	-3	-3
agec*agec			9	9	9	9	9
agec*RIDRETH1	2		-3				
agec*RIDRETH1	3			-3			
agec*RIDRETH1	4				-3		
agec*RIDRETH1	5					-3	
agec*RIDRETH1	1						-3
agec*agec*RIDRETH1	2		9				
agec*agec*RIDRETH1	3			9			
agec*agec*RIDRETH1	4				9		
agec*agec*RIDRETH1	5					9	
agec*agec*RIDRETH1	1						9
agec*RIAGENDR		2	-1.5	-1.5	-1.5	-1.5	-1.5
agec*RIAGENDR		1	-1.5	-1.5	-1.5	-1.5	-1.5
agec*agec*RIAGENDR		2	4.5	4.5	4.5	4.5	4.5
agec*agec*RIAGENDR		1	4.5	4.5	4.5	4.5	4.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-3.00	62.1333	2.3269	17	26.70	<.0001	0.05	57.2239	67.0426
3	-3.00	61.3496	1.4556	17	42.15	<.0001	0.05	58.2786	64.4205
4	-3.00	61.3838	1.3620	17	45.07	<.0001	0.05	58.5102	64.2574
5	-3.00	63.0641	1.3337	17	47.28	<.0001	0.05	60.2502	65.8780
1	-3.00	59.5128	1.2357	17	48.16	<.0001	0.05	56.9056	62.1199

Coefficients for RIDRETH1 Least Squares Means At agec=-2.5								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-2.5	-2.5	-2.5	-2.5	-2.5
agec*agec			6.25	6.25	6.25	6.25	6.25
agec*RIDRETH1	2		-2.5				
agec*RIDRETH1	3			-2.5			
agec*RIDRETH1	4				-2.5		
agec*RIDRETH1	5					-2.5	
agec*RIDRETH1	1						-2.5
agec*agec*RIDRETH1	2		6.25				
agec*agec*RIDRETH1	3			6.25			
agec*agec*RIDRETH1	4				6.25		
agec*agec*RIDRETH1	5					6.25	
agec*agec*RIDRETH1	1						6.25
agec*RIAGENDR		2	-1.25	-1.25	-1.25	-1.25	-1.25
agec*RIAGENDR		1	-1.25	-1.25	-1.25	-1.25	-1.25
agec*agec*RIAGENDR		2	3.125	3.125	3.125	3.125	3.125
agec*agec*RIAGENDR		1	3.125	3.125	3.125	3.125	3.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.50	63.7805	10.6666	17	5.98	<.0001	0.05	41.2760	86.2850
3	-2.50	58.9879	4.3171	17	13.66	<.0001	0.05	49.8797	68.0961
4	-2.50	69.2482	6.6153	17	10.47	<.0001	0.05	55.2912	83.2052

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
5	-2.50	72.4777	8.9065	17	8.14	<.0001	0.05	53.6866	91.2689
1	-2.50	60.8734	5.2235	17	11.65	<.0001	0.05	49.8527	71.8941

Coefficients for RIDRETH1 Least Squares Means At agec=-2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-2	-2	-2	-2	-2
agec*agec			4	4	4	4	4
agec*RIDRETH1	2		-2				
agec*RIDRETH1	3			-2			
agec*RIDRETH1	4				-2		
agec*RIDRETH1	5					-2	
agec*RIDRETH1	1						-2
agec*agec*RIDRETH1	2		4				
agec*agec*RIDRETH1	3			4			
agec*agec*RIDRETH1	4				4		
agec*agec*RIDRETH1	5					4	
agec*agec*RIDRETH1	1						4
agec*RIAGENDR		2	-1	-1	-1	-1	-1
agec*RIAGENDR		1	-1	-1	-1	-1	-1
agec*agec*RIAGENDR		2	2	2	2	2	2
agec*agec*RIAGENDR		1	2	2	2	2	2

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.00	61.6985	25.7630	17	2.39	0.0284	0.05	7.3432	116.05
3	-2.00	51.2249	10.3798	17	4.94	0.0001	0.05	29.3255	73.1243
4	-2.00	79.0711	16.5612	17	4.77	0.0002	0.05	44.1300	114.01
5	-2.00	84.7044	22.5061	17	3.76	0.0015	0.05	37.2207	132.19
1	-2.00	59.2715	12.3632	17	4.79	0.0002	0.05	33.1873	85.3556

Coefficients for RIDRETH1 Least Squares Means At agec=-1.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-1.5	-1.5	-1.5	-1.5	-1.5
agec*agec			2.25	2.25	2.25	2.25	2.25
agec*RIDRETH1	2		-1.5				
agec*RIDRETH1	3			-1.5			
agec*RIDRETH1	4				-1.5		
agec*RIDRETH1	5					-1.5	
agec*RIDRETH1	1						-1.5
agec*agec*RIDRETH1	2		2.25				
agec*agec*RIDRETH1	3			2.25			
agec*agec*RIDRETH1	4				2.25		
agec*agec*RIDRETH1	5					2.25	
agec*agec*RIDRETH1	1						2.25
agec*RIAGENDR		2	-0.75	-0.75	-0.75	-0.75	-0.75
agec*RIAGENDR		1	-0.75	-0.75	-0.75	-0.75	-0.75
agec*agec*RIAGENDR		2	1.125	1.125	1.125	1.125	1.125
agec*agec*RIAGENDR		1	1.125	1.125	1.125	1.125	1.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.50	55.8872	47.3831	17	1.18	0.2545	0.05	-44.0824	155.86
3	-1.50	38.0607	19.2145	17	1.98	0.0640	0.05	-2.4783	78.5996
4	-1.50	90.8523	31.0463	17	2.93	0.0094	0.05	25.3504	156.35
5	-1.50	99.7439	41.9621	17	2.38	0.0295	0.05	11.2117	188.28
1	-1.50	54.7068	22.5500	17	2.43	0.0267	0.05	7.1305	102.28

Coefficients for RIDRETH1 Least Squares Means At agec=-1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			

Coefficients for RIDRETH1 Least Squares Means At agec=-1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-1	-1	-1	-1	-1
agec*agec			1	1	1	1	1
agec*RIDRETH1	2		-1				
agec*RIDRETH1	3			-1			
agec*RIDRETH1	4				-1		
agec*RIDRETH1	5					-1	
agec*RIDRETH1	1						-1
agec*agec*RIDRETH1	2		1				
agec*agec*RIDRETH1	3			1			
agec*agec*RIDRETH1	4				1		
agec*agec*RIDRETH1	5					1	
agec*agec*RIDRETH1	1						1
agec*RIAGENDR		2	-0.5	-0.5	-0.5	-0.5	-0.5
agec*RIAGENDR		1	-0.5	-0.5	-0.5	-0.5	-0.5
agec*agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.00	46.3467	75.5081	17	0.61	0.5475	0.05	-112.96	205.65
3	-1.00	19.4951	30.7762	17	0.63	0.5349	0.05	-45.4370	84.4272
4	-1.00	104.59	50.0555	17	2.09	0.0520	0.05	-1.0158	210.20
5	-1.00	117.60	67.2696	17	1.75	0.0985	0.05	-24.3299	259.52
1	-1.00	47.1796	35.7733	17	1.32	0.2047	0.05	-28.2954	122.65

Coefficients for RIDRETH1 Least Squares Means At agec=-0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1

Coefficients for RIDRETH1 Least Squares Means At agec=-0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-0.5	-0.5	-0.5	-0.5	-0.5
agec*agec			0.25	0.25	0.25	0.25	0.25
agec*RIDRETH1	2		-0.5				
agec*RIDRETH1	3			-0.5			
agec*RIDRETH1	4				-0.5		
agec*RIDRETH1	5					-0.5	
agec*RIDRETH1	1						-0.5
agec*agec*RIDRETH1	2		0.25				
agec*agec*RIDRETH1	3			0.25			
agec*agec*RIDRETH1	4				0.25		
agec*agec*RIDRETH1	5					0.25	
agec*agec*RIDRETH1	1						0.25
agec*RIAGENDR		2	-0.25	-0.25	-0.25	-0.25	-0.25
agec*RIAGENDR		1	-0.25	-0.25	-0.25	-0.25	-0.25
agec*agec*RIAGENDR		2	0.125	0.125	0.125	0.125	0.125
agec*agec*RIAGENDR		1	0.125	0.125	0.125	0.125	0.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-0.50	33.0769	110.13	17	0.30	0.7676	0.05	-199.29	265.44
3	-0.50	-4.4717	45.0583	17	-0.10	0.9221	0.05	-99.5365	90.5931
4	-0.50	120.29	73.5855	17	1.63	0.1205	0.05	-34.9617	275.54
5	-0.50	138.26	98.4285	17	1.40	0.1781	0.05	-69.4040	345.93
1	-0.50	36.6897	52.0307	17	0.71	0.4903	0.05	-73.0855	146.46

Coefficients for RIDRETH1 Least Squares Means At agec=0							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec							

Coefficients for RIDRETH1 Least Squares Means At agec=0							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec							
agec*RIDRETH1	2						
agec*RIDRETH1	3						
agec*RIDRETH1	4						
agec*RIDRETH1	5						
agec*RIDRETH1	1						
agec*agec*RIDRETH1	2						
agec*agec*RIDRETH1	3						
agec*agec*RIDRETH1	4						
agec*agec*RIDRETH1	5						
agec*agec*RIDRETH1	1						
agec*RIAGENDR		2					
agec*RIAGENDR		1					
agec*agec*RIAGENDR		2					
agec*agec*RIAGENDR		1					

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.00	16.0778	151.26	17	0.11	0.9166	0.05	-303.06	335.21
3	0.00	-33.8398	62.0597	17	-0.55	0.5926	0.05	-164.77	97.0948
4	0.00	137.95	101.64	17	1.36	0.1924	0.05	-76.4848	352.38
5	0.00	161.74	135.44	17	1.19	0.2488	0.05	-124.01	447.49
1	0.00	23.2372	71.3218	17	0.33	0.7485	0.05	-127.24	173.71

Coefficients for RIDRETH1 Least Squares Means At agec=0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			0.5	0.5	0.5	0.5	0.5
agec*agec			0.25	0.25	0.25	0.25	0.25
agec*RIDRETH1	2		0.5				
agec*RIDRETH1	3			0.5			

Coefficients for RIDRETH1 Least Squares Means At agec=0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIDRETH1	4				0.5		
agec*RIDRETH1	5					0.5	
agec*RIDRETH1	1						0.5
agec*agec*RIDRETH1	2		0.25				
agec*agec*RIDRETH1	3			0.25			
agec*agec*RIDRETH1	4				0.25		
agec*agec*RIDRETH1	5					0.25	
agec*agec*RIDRETH1	1						0.25
agec*RIAGENDR		2	0.25	0.25	0.25	0.25	0.25
agec*RIAGENDR		1	0.25	0.25	0.25	0.25	0.25
agec*agec*RIAGENDR		2	0.125	0.125	0.125	0.125	0.125
agec*agec*RIAGENDR		1	0.125	0.125	0.125	0.125	0.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.50	-4.6505	198.89	17	-0.02	0.9816	0.05	-424.27	414.97
3	0.50	-68.6092	81.7804	17	-0.84	0.4131	0.05	-241.15	103.93
4	0.50	157.56	134.20	17	1.17	0.2566	0.05	-125.58	440.71
5	0.50	188.03	178.30	17	1.05	0.3064	0.05	-188.15	564.22
1	0.50	6.8221	93.6460	17	0.07	0.9428	0.05	-190.75	204.40

Coefficients for RIDRETH1 Least Squares Means At agec=1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			1	1	1	1	1
agec*agec			1	1	1	1	1
agec*RIDRETH1	2		1				
agec*RIDRETH1	3			1			
agec*RIDRETH1	4				1		
agec*RIDRETH1	5					1	
agec*RIDRETH1	1						1

Coefficients for RIDRETH1 Least Squares Means At agec=1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	2		1				
agec*agec*RIDRETH1	3			1			
agec*agec*RIDRETH1	4				1		
agec*agec*RIDRETH1	5					1	
agec*agec*RIDRETH1	1						1
agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.00	-29.1080	253.02	17	-0.12	0.9098	0.05	-562.93	504.72
3	1.00	-108.78	104.22	17	-1.04	0.3112	0.05	-328.67	111.11
4	1.00	179.14	171.29	17	1.05	0.3103	0.05	-182.26	540.53
5	1.00	217.14	227.02	17	0.96	0.3522	0.05	-261.83	696.10
1	1.00	-12.5557	119.00	17	-0.11	0.9172	0.05	-263.63	238.52

Coefficients for RIDRETH1 Least Squares Means At agec=1.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			1.5	1.5	1.5	1.5	1.5
agec*agec			2.25	2.25	2.25	2.25	2.25
agec*RIDRETH1	2		1.5				
agec*RIDRETH1	3			1.5			
agec*RIDRETH1	4				1.5		
agec*RIDRETH1	5					1.5	
agec*RIDRETH1	1						1.5
agec*agec*RIDRETH1	2		2.25				
agec*agec*RIDRETH1	3			2.25			
agec*agec*RIDRETH1	4				2.25		

Coefficients for RIDRETH1 Least Squares Means At agec=1.5								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	5					2.25	
agec*agec*RIDRETH1	1						2.25
agec*RIAGENDR		2	0.75	0.75	0.75	0.75	0.75
agec*RIAGENDR		1	0.75	0.75	0.75	0.75	0.75
agec*agec*RIAGENDR		2	1.125	1.125	1.125	1.125	1.125
agec*agec*RIAGENDR		1	1.125	1.125	1.125	1.125	1.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.50	-57.2949	313.65	17	-0.18	0.8572	0.05	-719.03	604.44
3	1.50	-154.35	129.38	17	-1.19	0.2493	0.05	-427.32	118.62
4	1.50	202.67	212.90	17	0.95	0.3545	0.05	-246.51	651.84
5	1.50	249.05	281.59	17	0.88	0.3888	0.05	-345.04	843.15
1	1.50	-34.8961	147.39	17	-0.24	0.8157	0.05	-345.87	276.08

Coefficients for RIDRETH1 Least Squares Means At agec=2								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			2	2	2	2	2
agec*agec			4	4	4	4	4
agec*RIDRETH1	2		2				
agec*RIDRETH1	3			2			
agec*RIDRETH1	4				2		
agec*RIDRETH1	5					2	
agec*RIDRETH1	1						2
agec*agec*RIDRETH1	2		4				
agec*agec*RIDRETH1	3			4			
agec*agec*RIDRETH1	4				4		
agec*agec*RIDRETH1	5					4	
agec*agec*RIDRETH1	1						4
agec*RIAGENDR		2	1	1	1	1	1

Coefficients for RIDRETH1 Least Squares Means At agec=2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIAGENDR		1	1	1	1	1	1
agec*agec*RIAGENDR		2	2	2	2	2	2
agec*agec*RIAGENDR		1	2	2	2	2	2

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.00	-89.2110	380.78	17	-0.23	0.8176	0.05	-892.58	714.16
3	2.00	-205.33	157.26	17	-1.31	0.2091	0.05	-537.11	126.46
4	2.00	228.16	259.02	17	0.88	0.3907	0.05	-318.34	774.65
5	2.00	283.78	342.01	17	0.83	0.4182	0.05	-437.78	1005.35
1	2.00	-60.1991	178.82	17	-0.34	0.7405	0.05	-437.47	317.07

Coefficients for RIDRETH1 Least Squares Means At agec=2.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			2.5	2.5	2.5	2.5	2.5
agec*agec			6.25	6.25	6.25	6.25	6.25
agec*RIDRETH1	2		2.5				
agec*RIDRETH1	3			2.5			
agec*RIDRETH1	4				2.5		
agec*RIDRETH1	5					2.5	
agec*RIDRETH1	1						2.5
agec*agec*RIDRETH1	2		6.25				
agec*agec*RIDRETH1	3			6.25			
agec*agec*RIDRETH1	4				6.25		
agec*agec*RIDRETH1	5					6.25	
agec*agec*RIDRETH1	1						6.25
agec*RIAGENDR		2	1.25	1.25	1.25	1.25	1.25
agec*RIAGENDR		1	1.25	1.25	1.25	1.25	1.25
agec*agec*RIAGENDR		2	3.125	3.125	3.125	3.125	3.125
agec*agec*RIAGENDR		1	3.125	3.125	3.125	3.125	3.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.50	-124.86	454.41	17	-0.27	0.7868	0.05	-1083.57	833.86
3	2.50	-261.70	187.86	17	-1.39	0.1815	0.05	-658.05	134.65
4	2.50	255.61	309.67	17	0.83	0.4206	0.05	-397.74	908.95
5	2.50	321.33	408.28	17	0.79	0.4421	0.05	-540.07	1182.72
1	2.50	-88.4648	213.27	17	-0.41	0.6835	0.05	-538.43	361.51

Coefficients for RIDRETH1 Least Squares Means At agec=3								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			3	3	3	3	3
agec*agec			9	9	9	9	9
agec*RIDRETH1	2		3				
agec*RIDRETH1	3			3			
agec*RIDRETH1	4				3		
agec*RIDRETH1	5					3	
agec*RIDRETH1	1						3
agec*agec*RIDRETH1	2		9				
agec*agec*RIDRETH1	3			9			
agec*agec*RIDRETH1	4				9		
agec*agec*RIDRETH1	5					9	
agec*agec*RIDRETH1	1						9
agec*RIAGENDR		2	1.5	1.5	1.5	1.5	1.5
agec*RIAGENDR		1	1.5	1.5	1.5	1.5	1.5
agec*agec*RIAGENDR		2	4.5	4.5	4.5	4.5	4.5
agec*agec*RIAGENDR		1	4.5	4.5	4.5	4.5	4.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	3.00	-164.23	534.54	17	-0.31	0.7624	0.05	-1292.01	963.55
3	3.00	-323.48	221.18	17	-1.46	0.1618	0.05	-790.12	143.17

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
4	3.00	285.01	364.83	17	0.78	0.4454	0.05	-484.72	1054.74
5	3.00	361.68	480.40	17	0.75	0.4618	0.05	-651.88	1375.25
1	3.00	-119.69	250.76	17	-0.48	0.6392	0.05	-648.76	409.37

Marginal predicted values by Race from model including significant interactions

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.1203
Root MSE	10.7452
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	2987.50	<.0001
Intercept	1	25022.6	<.0001
RIDRETH1	4	5.18	0.0065
RIAGENDR	1	17.67	0.0006
agec	1	36.65	<.0001
agec*agec	1	275.91	<.0001
agec*RIDRETH1	4	3.08	0.0447
agec*agec*RIDRETH1	4	6.42	0.0024
agec*RIAGENDR	1	3.75	0.0697
agec*agec*RIAGENDR	1	4.14	0.0579

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.3464498	0.82011243	91.87	<.0001	73.6161638	77.0767358	1.38
RIDRETH1 2	0.2714371	0.92217646	0.29	0.7721	-1.6741852	2.2170594	0.82
RIDRETH1 3	1.4611713	0.91162242	1.60	0.1274	-0.4621839	3.3845265	1.63
RIDRETH1 4	3.4500173	0.96227934	3.59	0.0023	1.4197854	5.4802493	1.22
RIDRETH1 5	1.1441363	0.89600412	1.28	0.2188	-0.7462671	3.0345398	0.88
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.1953718	0.76025991	-4.20	0.0006	-4.7993800	-1.5913636	4.17
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.3922655	0.39823459	0.99	0.3384	-0.4479360	1.2324671	1.24
agec*agec	-1.5235576	0.18104432	-8.42	<.0001	-1.9055277	-1.1415874	0.86
agec*RIDRETH1 2	0.4963768	0.49755685	1.00	0.3324	-0.5533764	1.5461300	1.15

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
agec*RIDRETH1 3	-0.0447546	0.53246995	-0.08	0.9340	-1.1681681	1.0786588	2.14
agec*RIDRETH1 4	0.3454883	0.38776916	0.89	0.3854	-0.4726331	1.1636097	0.86
agec*RIDRETH1 5	0.1490591	0.49282074	0.30	0.7660	-0.8907017	1.1888200	1.20
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIDRETH1 2	0.0836542	0.34523731	0.24	0.8114	-0.6447329	0.8120413	1.74
agec*agec*RIDRETH1 3	0.2662321	0.17171368	1.55	0.1395	-0.0960521	0.6285163	0.75
agec*agec*RIDRETH1 4	-0.2368008	0.19841895	-1.19	0.2491	-0.6554282	0.1818266	0.74
agec*agec*RIDRETH1 5	0.1444580	0.29858582	0.48	0.6347	-0.4855030	0.7744190	1.41
agec*agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.4549443	0.23500066	1.94	0.0697	-0.0408637	0.9507524	2.32
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIAGENDR 2	0.3386353	0.16648154	2.03	0.0579	-0.0126100	0.6898807	3.66
agec*agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Coefficients for RIDRETH1 Least Squares Means At agec=-3							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-3	-3	-3	-3	-3
agec*agec			9	9	9	9	9
agec*RIDRETH1	2		-3				
agec*RIDRETH1	3			-3			
agec*RIDRETH1	4				-3		
agec*RIDRETH1	5					-3	
agec*RIDRETH1	1						-3
agec*agec*RIDRETH1	2		9				
agec*agec*RIDRETH1	3			9			
agec*agec*RIDRETH1	4				9		
agec*agec*RIDRETH1	5					9	
agec*agec*RIDRETH1	1						9
agec*RIAGENDR		2	-1.5	-1.5	-1.5	-1.5	-1.5
agec*RIAGENDR		1	-1.5	-1.5	-1.5	-1.5	-1.5
agec*agec*RIAGENDR		2	4.5	4.5	4.5	4.5	4.5
agec*agec*RIAGENDR		1	4.5	4.5	4.5	4.5	4.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-3.00	59.2366	1.9743	17	30.00	<.0001	0.05	55.0711	63.4020
3	-3.00	63.6929	1.6630	17	38.30	<.0001	0.05	60.1843	67.2015
4	-3.00	59.9837	0.9903	17	60.57	<.0001	0.05	57.8944	62.0731
5	-3.00	61.6985	0.9976	17	61.85	<.0001	0.05	59.5938	63.8031
1	-3.00	59.7014	0.8512	17	70.14	<.0001	0.05	57.9055	61.4973

Coefficients for RIDRETH1 Least Squares Means At agec=-2.5								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-2.5	-2.5	-2.5	-2.5	-2.5
agec*agec			6.25	6.25	6.25	6.25	6.25
agec*RIDRETH1	2		-2.5				
agec*RIDRETH1	3			-2.5			
agec*RIDRETH1	4				-2.5		
agec*RIDRETH1	5					-2.5	
agec*RIDRETH1	1						-2.5
agec*agec*RIDRETH1	2		6.25				
agec*agec*RIDRETH1	3			6.25			
agec*agec*RIDRETH1	4				6.25		
agec*agec*RIDRETH1	5					6.25	
agec*agec*RIDRETH1	1						6.25
agec*RIAGENDR		2	-1.25	-1.25	-1.25	-1.25	-1.25
agec*RIAGENDR		1	-1.25	-1.25	-1.25	-1.25	-1.25
agec*agec*RIAGENDR		2	3.125	3.125	3.125	3.125	3.125
agec*agec*RIAGENDR		1	3.125	3.125	3.125	3.125	3.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.50	63.2888	1.4288	17	44.29	<.0001	0.05	60.2742	66.3033
3	-2.50	66.9724	1.3403	17	49.97	<.0001	0.05	64.1447	69.8001
4	-2.50	64.8417	0.8446	17	76.77	<.0001	0.05	63.0597	66.6237

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
5	-2.50	65.4098	0.6502	17	100.60	<.0001	0.05	64.0380	66.7815
1	-2.50	63.7354	0.5653	17	112.74	<.0001	0.05	62.5427	64.9281

Coefficients for RIDRETH1 Least Squares Means At agec=-2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-2	-2	-2	-2	-2
agec*agec			4	4	4	4	4
agec*RIDRETH1	2		-2				
agec*RIDRETH1	3			-2			
agec*RIDRETH1	4				-2		
agec*RIDRETH1	5					-2	
agec*RIDRETH1	1						-2
agec*agec*RIDRETH1	2		4				
agec*agec*RIDRETH1	3			4			
agec*agec*RIDRETH1	4				4		
agec*agec*RIDRETH1	5					4	
agec*agec*RIDRETH1	1						4
agec*RIAGENDR		2	-1	-1	-1	-1	-1
agec*RIAGENDR		1	-1	-1	-1	-1	-1
agec*agec*RIAGENDR		2	2	2	2	2	2
agec*agec*RIAGENDR		1	2	2	2	2	2

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.00	66.7056	1.0322	17	64.63	<.0001	0.05	64.5279	68.8833
3	-2.00	69.7079	1.0717	17	65.04	<.0001	0.05	67.4468	71.9691
4	-2.00	68.9042	0.7719	17	89.26	<.0001	0.05	67.2755	70.5328
5	-2.00	68.5162	0.5072	17	135.09	<.0001	0.05	67.4461	69.5863
1	-2.00	67.0923	0.5088	17	131.85	<.0001	0.05	66.0188	68.1659

Coefficients for RIDRETH1 Least Squares Means At agec=-1.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-1.5	-1.5	-1.5	-1.5	-1.5
agec*agec			2.25	2.25	2.25	2.25	2.25
agec*RIDRETH1	2		-1.5				
agec*RIDRETH1	3			-1.5			
agec*RIDRETH1	4				-1.5		
agec*RIDRETH1	5					-1.5	
agec*RIDRETH1	1						-1.5
agec*agec*RIDRETH1	2		2.25				
agec*agec*RIDRETH1	3			2.25			
agec*agec*RIDRETH1	4				2.25		
agec*agec*RIDRETH1	5					2.25	
agec*agec*RIDRETH1	1						2.25
agec*RIAGENDR		2	-0.75	-0.75	-0.75	-0.75	-0.75
agec*RIAGENDR		1	-0.75	-0.75	-0.75	-0.75	-0.75
agec*agec*RIAGENDR		2	1.125	1.125	1.125	1.125	1.125
agec*agec*RIAGENDR		1	1.125	1.125	1.125	1.125	1.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.50	69.4872	0.8021	17	86.63	<.0001	0.05	67.7949	71.1796
3	-1.50	71.8994	0.8581	17	83.79	<.0001	0.05	70.0891	73.7098
4	-1.50	72.1711	0.7532	17	95.82	<.0001	0.05	70.5820	73.7602
5	-1.50	71.0177	0.5563	17	127.66	<.0001	0.05	69.8440	72.1914
1	-1.50	69.7721	0.5891	17	118.45	<.0001	0.05	68.5293	71.0149

Coefficients for RIDRETH1 Least Squares Means At agec=-1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			

Coefficients for RIDRETH1 Least Squares Means At agec=-1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-1	-1	-1	-1	-1
agec*agec			1	1	1	1	1
agec*RIDRETH1	2		-1				
agec*RIDRETH1	3			-1			
agec*RIDRETH1	4				-1		
agec*RIDRETH1	5					-1	
agec*RIDRETH1	1						-1
agec*agec*RIDRETH1	2		1				
agec*agec*RIDRETH1	3			1			
agec*agec*RIDRETH1	4				1		
agec*agec*RIDRETH1	5					1	
agec*agec*RIDRETH1	1						1
agec*RIAGENDR		2	-0.5	-0.5	-0.5	-0.5	-0.5
agec*RIAGENDR		1	-0.5	-0.5	-0.5	-0.5	-0.5
agec*agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.00	71.6335	0.7356	17	97.39	<.0001	0.05	70.0816	73.1854
3	-1.00	73.5469	0.6983	17	105.33	<.0001	0.05	72.0738	75.0201
4	-1.00	74.6425	0.7620	17	97.96	<.0001	0.05	73.0349	76.2501
5	-1.00	72.9143	0.6660	17	109.47	<.0001	0.05	71.5091	74.3196
1	-1.00	71.7748	0.6699	17	107.14	<.0001	0.05	70.3614	73.1882

Coefficients for RIDRETH1 Least Squares Means At agec=-0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1

Coefficients for RIDRETH1 Least Squares Means At agec=-0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			-0.5	-0.5	-0.5	-0.5	-0.5
agec*agec			0.25	0.25	0.25	0.25	0.25
agec*RIDRETH1	2		-0.5				
agec*RIDRETH1	3			-0.5			
agec*RIDRETH1	4				-0.5		
agec*RIDRETH1	5					-0.5	
agec*RIDRETH1	1						-0.5
agec*agec*RIDRETH1	2		0.25				
agec*agec*RIDRETH1	3			0.25			
agec*agec*RIDRETH1	4				0.25		
agec*agec*RIDRETH1	5					0.25	
agec*agec*RIDRETH1	1						0.25
agec*RIAGENDR		2	-0.25	-0.25	-0.25	-0.25	-0.25
agec*RIAGENDR		1	-0.25	-0.25	-0.25	-0.25	-0.25
agec*agec*RIAGENDR		2	0.125	0.125	0.125	0.125	0.125
agec*agec*RIAGENDR		1	0.125	0.125	0.125	0.125	0.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-0.50	73.1445	0.7844	17	93.25	<.0001	0.05	71.4896	74.7994
3	-0.50	74.6504	0.5872	17	127.12	<.0001	0.05	73.4115	75.8894
4	-0.50	76.3184	0.7759	17	98.36	<.0001	0.05	74.6814	77.9554
5	-0.50	74.2061	0.7597	17	97.67	<.0001	0.05	72.6032	75.8089
1	-0.50	73.1003	0.7000	17	104.43	<.0001	0.05	71.6234	74.5773

Coefficients for RIDRETH1 Least Squares Means At agec=0							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec							

Coefficients for RIDRETH1 Least Squares Means At agec=0							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec							
agec*RIDRETH1	2						
agec*RIDRETH1	3						
agec*RIDRETH1	4						
agec*RIDRETH1	5						
agec*RIDRETH1	1						
agec*agec*RIDRETH1	2						
agec*agec*RIDRETH1	3						
agec*agec*RIDRETH1	4						
agec*agec*RIDRETH1	5						
agec*agec*RIDRETH1	1						
agec*RIAGENDR		2					
agec*RIAGENDR		1					
agec*agec*RIAGENDR		2					
agec*agec*RIAGENDR		1					

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.00	74.0202	0.9026	17	82.01	<.0001	0.05	72.1159	75.9245
3	0.00	75.2099	0.5145	17	146.17	<.0001	0.05	74.1243	76.2955
4	0.00	77.1988	0.7821	17	98.71	<.0001	0.05	75.5487	78.8489
5	0.00	74.8929	0.8252	17	90.75	<.0001	0.05	73.1518	76.6340
1	0.00	73.7488	0.6760	17	109.09	<.0001	0.05	72.3224	75.1751

Coefficients for RIDRETH1 Least Squares Means At agec=0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			0.5	0.5	0.5	0.5	0.5
agec*agec			0.25	0.25	0.25	0.25	0.25
agec*RIDRETH1	2		0.5				
agec*RIDRETH1	3			0.5			

Coefficients for RIDRETH1 Least Squares Means At agec=0.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIDRETH1	4				0.5		
agec*RIDRETH1	5					0.5	
agec*RIDRETH1	1						0.5
agec*agec*RIDRETH1	2		0.25				
agec*agec*RIDRETH1	3			0.25			
agec*agec*RIDRETH1	4				0.25		
agec*agec*RIDRETH1	5					0.25	
agec*agec*RIDRETH1	1						0.25
agec*RIAGENDR		2	0.25	0.25	0.25	0.25	0.25
agec*RIAGENDR		1	0.25	0.25	0.25	0.25	0.25
agec*agec*RIAGENDR		2	0.125	0.125	0.125	0.125	0.125
agec*agec*RIAGENDR		1	0.125	0.125	0.125	0.125	0.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.50	74.2606	1.0860	17	68.38	<.0001	0.05	71.9694	76.5518
3	0.50	75.2254	0.4672	17	161.02	<.0001	0.05	74.2397	76.2111
4	0.50	77.2836	0.7767	17	99.51	<.0001	0.05	75.6450	78.9222
5	0.50	74.9749	0.8828	17	84.93	<.0001	0.05	73.1123	76.8374
1	0.50	73.7201	0.6299	17	117.03	<.0001	0.05	72.3911	75.0491

Coefficients for RIDRETH1 Least Squares Means At agec=1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			1	1	1	1	1
agec*agec			1	1	1	1	1
agec*RIDRETH1	2		1				
agec*RIDRETH1	3			1			
agec*RIDRETH1	4				1		
agec*RIDRETH1	5					1	
agec*RIDRETH1	1						1

Coefficients for RIDRETH1 Least Squares Means At agec=1							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	2		1				
agec*agec*RIDRETH1	3			1			
agec*agec*RIDRETH1	4				1		
agec*agec*RIDRETH1	5					1	
agec*agec*RIDRETH1	1						1
agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
agec*agec*RIAGENDR		1	0.5	0.5	0.5	0.5	0.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.00	73.8657	1.3568	17	54.44	<.0001	0.05	71.0032	76.7283
3	1.00	74.6969	0.4365	17	171.11	<.0001	0.05	73.7759	75.6179
4	1.00	76.5730	0.7640	17	100.23	<.0001	0.05	74.9611	78.1849
5	1.00	74.4519	0.9745	17	76.40	<.0001	0.05	72.3959	76.5079
1	1.00	73.0143	0.6457	17	113.07	<.0001	0.05	71.6519	74.3767

Coefficients for RIDRETH1 Least Squares Means At agec=1.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			1.5	1.5	1.5	1.5	1.5
agec*agec			2.25	2.25	2.25	2.25	2.25
agec*RIDRETH1	2		1.5				
agec*RIDRETH1	3			1.5			
agec*RIDRETH1	4				1.5		
agec*RIDRETH1	5					1.5	
agec*RIDRETH1	1						1.5
agec*agec*RIDRETH1	2		2.25				
agec*agec*RIDRETH1	3			2.25			
agec*agec*RIDRETH1	4				2.25		

Coefficients for RIDRETH1 Least Squares Means At agec=1.5								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*agec*RIDRETH1	5					2.25	
agec*agec*RIDRETH1	1						2.25
agec*RIAGENDR		2	0.75	0.75	0.75	0.75	0.75
agec*RIAGENDR		1	0.75	0.75	0.75	0.75	0.75
agec*agec*RIAGENDR		2	1.125	1.125	1.125	1.125	1.125
agec*agec*RIAGENDR		1	1.125	1.125	1.125	1.125	1.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.50	72.8356	1.7385	17	41.89	<.0001	0.05	69.1676	76.5035
3	1.50	73.6244	0.4256	17	173.00	<.0001	0.05	72.7265	74.5223
4	1.50	75.0668	0.7577	17	99.08	<.0001	0.05	73.4683	76.6653
5	1.50	73.3241	1.1501	17	63.75	<.0001	0.05	70.8975	75.7506
1	1.50	71.6313	0.8282	17	86.49	<.0001	0.05	69.8840	73.3787

Coefficients for RIDRETH1 Least Squares Means At agec=2								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			2	2	2	2	2
agec*agec			4	4	4	4	4
agec*RIDRETH1	2		2				
agec*RIDRETH1	3			2			
agec*RIDRETH1	4				2		
agec*RIDRETH1	5					2	
agec*RIDRETH1	1						2
agec*agec*RIDRETH1	2		4				
agec*agec*RIDRETH1	3			4			
agec*agec*RIDRETH1	4				4		
agec*agec*RIDRETH1	5					4	
agec*agec*RIDRETH1	1						4
agec*RIAGENDR		2	1	1	1	1	1

Coefficients for RIDRETH1 Least Squares Means At agec=2							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
agec*RIAGENDR		1	1	1	1	1	1
agec*agec*RIAGENDR		2	2	2	2	2	2
agec*agec*RIAGENDR		1	2	2	2	2	2

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.00	71.1701	2.2448	17	31.70	<.0001	0.05	66.4340	75.9061
3	2.00	72.0079	0.4513	17	159.57	<.0001	0.05	71.0558	72.9600
4	2.00	72.7651	0.7801	17	93.27	<.0001	0.05	71.1191	74.4110
5	2.00	71.5914	1.4433	17	49.60	<.0001	0.05	68.5463	74.6364
1	2.00	69.5713	1.1969	17	58.13	<.0001	0.05	67.0460	72.0966

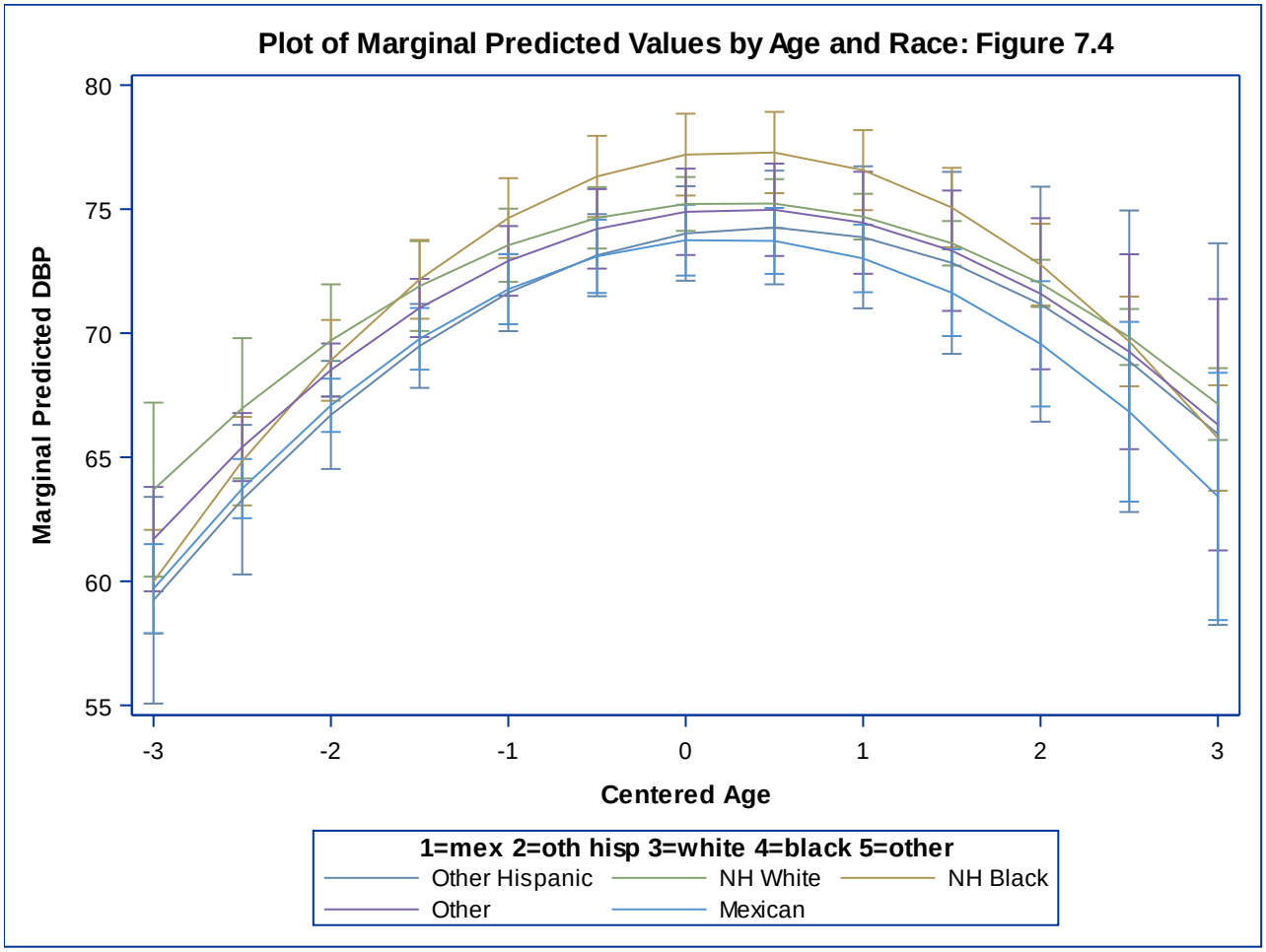
Coefficients for RIDRETH1 Least Squares Means At agec=2.5							
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			2.5	2.5	2.5	2.5	2.5
agec*agec			6.25	6.25	6.25	6.25	6.25
agec*RIDRETH1	2		2.5				
agec*RIDRETH1	3			2.5			
agec*RIDRETH1	4				2.5		
agec*RIDRETH1	5					2.5	
agec*RIDRETH1	1						2.5
agec*agec*RIDRETH1	2		6.25				
agec*agec*RIDRETH1	3			6.25			
agec*agec*RIDRETH1	4				6.25		
agec*agec*RIDRETH1	5					6.25	
agec*agec*RIDRETH1	1						6.25
agec*RIAGENDR		2	1.25	1.25	1.25	1.25	1.25
agec*RIAGENDR		1	1.25	1.25	1.25	1.25	1.25
agec*agec*RIAGENDR		2	3.125	3.125	3.125	3.125	3.125
agec*agec*RIAGENDR		1	3.125	3.125	3.125	3.125	3.125

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.50	68.8693	2.8804	17	23.91	<.0001	0.05	62.7922	74.9464
3	2.50	69.8473	0.5349	17	130.58	<.0001	0.05	68.7188	70.9759
4	2.50	69.6678	0.8576	17	81.24	<.0001	0.05	67.8585	71.4772
5	2.50	69.2538	1.8623	17	37.19	<.0001	0.05	65.3247	73.1828
1	2.50	66.8341	1.7166	17	38.93	<.0001	0.05	63.2124	70.4558

Coefficients for RIDRETH1 Least Squares Means At agec=3								
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2	Row3	Row4	Row5
Intercept			1	1	1	1	1
RIDRETH1	2		1				
RIDRETH1	3			1			
RIDRETH1	4				1		
RIDRETH1	5					1	
RIDRETH1	1						1
RIAGENDR		2	0.5	0.5	0.5	0.5	0.5
RIAGENDR		1	0.5	0.5	0.5	0.5	0.5
agec			3	3	3	3	3
agec*agec			9	9	9	9	9
agec*RIDRETH1	2		3				
agec*RIDRETH1	3			3			
agec*RIDRETH1	4				3		
agec*RIDRETH1	5					3	
agec*RIDRETH1	1						3
agec*agec*RIDRETH1	2		9				
agec*agec*RIDRETH1	3			9			
agec*agec*RIDRETH1	4				9		
agec*agec*RIDRETH1	5					9	
agec*agec*RIDRETH1	1						9
agec*RIAGENDR		2	1.5	1.5	1.5	1.5	1.5
agec*RIAGENDR		1	1.5	1.5	1.5	1.5	1.5
agec*agec*RIAGENDR		2	4.5	4.5	4.5	4.5	4.5
agec*agec*RIAGENDR		1	4.5	4.5	4.5	4.5	4.5

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	3.00	65.9333	3.6460	17	18.08	<.0001	0.05	58.2409	73.6257
3	3.00	67.1428	0.6862	17	97.85	<.0001	0.05	65.6951	68.5905

RIDRETH1 Least Squares Means									
1=mex 2=oth hisp 3=white 4=black 5=other	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
4	3.00	65.7751	1.0080	17	65.25	<.0001	0.05	63.6484	67.9018
5	3.00	66.3113	2.4018	17	27.61	<.0001	0.05	61.2440	71.3785
1	3.00	63.4198	2.3619	17	26.85	<.0001	0.05	58.4367	68.4029


Plot of Marginal Predicted Values by Age and Race: Figure 7.4
Marginal Predicted DBP
80
75
70
65
60
55
-3
-2
-1
0
1
2
3
Centered Age
1=mex 2=oth hisp 3=white 4=black 5=other
Other Hispanic
NH White
NH Black
Other
Mexican

Marginal Predicted Values for Gender and Selected Ages

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2474
Root MSE	10.8255
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	2813.29	<.0001
Intercept	1	26759.4	<.0001
RIDRETH1	4	4.76	0.0093
RIAGENDR	1	24.18	0.0001
agec	1	28.34	<.0001
agec*agec	1	698.53	<.0001
agec*RIDRETH1	4	0.57	0.6854
agec*agec*RIDRETH1	4	5.83	0.0038
agec*RIAGENDR	1	2.71	0.1183
agec*agec*RIAGENDR	1	16.78	0.0008

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.4816175	0.67973857	111.05	<.0001	74.0474945	76.9157405	1.01
RIDRETH1 2	0.0308887	0.96713577	0.03	0.9749	-2.0095894	2.0713668	0.95

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
RIDRETH1 3	1.6229848	0.79987216	2.03	0.0584	-0.0645979	3.3105675	1.33
RIDRETH1 4	3.2495985	0.84813375	3.83	0.0013	1.4601927	5.0390043	0.98
RIDRETH1 5	1.1847914	0.73814299	1.61	0.1269	-0.3725542	2.7421369	0.61
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.4128307	0.69403120	-4.92	0.0001	-4.8771086	-1.9485529	3.33
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.4306409	0.37769970	1.14	0.2700	-0.3662358	1.2275176	0.98
agec*agec	-1.5790972	0.10214014	-15.46	<.0001	-1.7945940	-1.3636003	0.53
agec*RIDRETH1 2	0.3743707	0.55947844	0.67	0.5124	-0.8060256	1.5547670	1.33
agec*RIDRETH1 3	0.1214725	0.51168294	0.24	0.8152	-0.9580841	1.2010292	1.77
agec*RIDRETH1 4	0.2716418	0.38329156	0.71	0.4881	-0.5370328	1.0803163	0.77
agec*RIDRETH1 5	0.1642873	0.55558129	0.30	0.7710	-1.0078867	1.3364614	1.42
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIDRETH1 2	0.1924973	0.18250497	1.05	0.3063	-0.1925545	0.5775492	0.88
agec*agec*RIDRETH1 3	0.1736396	0.10027867	1.73	0.1015	-0.0379299	0.3852091	0.49
agec*agec*RIDRETH1 4	-0.1505095	0.12259070	-1.23	0.2363	-0.4091533	0.1081342	0.51
agec*agec*RIDRETH1 5	0.1311487	0.14299393	0.92	0.3719	-0.1705421	0.4328395	0.59
agec*agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.3524244	0.21419598	1.65	0.1183	-0.0994896	0.8043384	2.32
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIAGENDR 2	0.4328618	0.10568291	4.10	0.0008	0.2098904	0.6558333	2.48
agec*agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Coefficients for RIAGENDR Least Squares Means At agec=-3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-3	-3
agec*agec			9	9
agec*RIDRETH1	2		-0.6	-0.6
agec*RIDRETH1	3		-0.6	-0.6
agec*RIDRETH1	4		-0.6	-0.6
agec*RIDRETH1	5		-0.6	-0.6
agec*RIDRETH1	1		-0.6	-0.6
agec*agec*RIDRETH1	2		1.8	1.8

Coefficients for RIAGENDR Least Squares Means At agec=-3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIDRETH1	3		1.8	1.8
agec*agec*RIDRETH1	4		1.8	1.8
agec*agec*RIDRETH1	5		1.8	1.8
agec*agec*RIDRETH1	1		1.8	1.8
agec*RIAGENDR		2	-3	
agec*RIAGENDR		1		-3
agec*agec*RIAGENDR		2	9	
agec*agec*RIAGENDR		1		9

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-3.00	60.6863	0.6640	17	91.40	<.0001	0.05	59.2854	62.0871
1	-3.00	61.2606	0.5364	17	114.22	<.0001	0.05	60.1290	62.3922

Coefficients for RIAGENDR Least Squares Means At agec=-2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-2.5	-2.5
agec*agec			6.25	6.25
agec*RIDRETH1	2		-0.5	-0.5
agec*RIDRETH1	3		-0.5	-0.5
agec*RIDRETH1	4		-0.5	-0.5
agec*RIDRETH1	5		-0.5	-0.5
agec*RIDRETH1	1		-0.5	-0.5
agec*agec*RIDRETH1	2		1.25	1.25
agec*agec*RIDRETH1	3		1.25	1.25
agec*agec*RIDRETH1	4		1.25	1.25
agec*agec*RIDRETH1	5		1.25	1.25
agec*agec*RIDRETH1	1		1.25	1.25
agec*RIAGENDR		2	-2.5	
agec*RIAGENDR		1		-2.5
agec*agec*RIAGENDR		2	6.25	

Coefficients for RIAGENDR Least Squares Means At agec=-2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIAGENDR		1		6.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.50	64.1324	0.5529	17	116.00	<.0001	0.05	62.9659	65.2989
1	-2.50	65.7209	0.4944	17	132.93	<.0001	0.05	64.6778	66.7640

Coefficients for RIAGENDR Least Squares Means At agec=-2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-2	-2
agec*agec			4	4
agec*RIDRETH1	2		-0.4	-0.4
agec*RIDRETH1	3		-0.4	-0.4
agec*RIDRETH1	4		-0.4	-0.4
agec*RIDRETH1	5		-0.4	-0.4
agec*RIDRETH1	1		-0.4	-0.4
agec*agec*RIDRETH1	2		0.8	0.8
agec*agec*RIDRETH1	3		0.8	0.8
agec*agec*RIDRETH1	4		0.8	0.8
agec*agec*RIDRETH1	5		0.8	0.8
agec*agec*RIDRETH1	1		0.8	0.8
agec*RIAGENDR		2	-2	
agec*RIAGENDR		1		-2
agec*agec*RIAGENDR		2	4	
agec*agec*RIAGENDR		1		4

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.00	67.0401	0.5082	17	131.93	<.0001	0.05	65.9680	68.1122
1	-2.00	69.4263	0.4847	17	143.24	<.0001	0.05	68.4037	70.4489

Coefficients for RIAGENDR Least Squares Means At agec=-1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-1.5	-1.5
agec*agec			2.25	2.25
agec*RIDRETH1	2		-0.3	-0.3
agec*RIDRETH1	3		-0.3	-0.3
agec*RIDRETH1	4		-0.3	-0.3
agec*RIDRETH1	5		-0.3	-0.3
agec*RIDRETH1	1		-0.3	-0.3
agec*agec*RIDRETH1	2		0.45	0.45
agec*agec*RIDRETH1	3		0.45	0.45
agec*agec*RIDRETH1	4		0.45	0.45
agec*agec*RIDRETH1	5		0.45	0.45
agec*agec*RIDRETH1	1		0.45	0.45
agec*RIAGENDR		2	-1.5	
agec*RIAGENDR		1		-1.5
agec*agec*RIAGENDR		2	2.25	
agec*agec*RIAGENDR		1		2.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.50	69.4093	0.5124	17	135.46	<.0001	0.05	68.3282	70.4904
1	-1.50	72.3769	0.4924	17	146.98	<.0001	0.05	71.3379	73.4158

Coefficients for RIAGENDR Least Squares Means At agec=-1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=-1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-1	-1
agec*agec			1	1
agec*RIDRETH1	2		-0.2	-0.2
agec*RIDRETH1	3		-0.2	-0.2
agec*RIDRETH1	4		-0.2	-0.2
agec*RIDRETH1	5		-0.2	-0.2
agec*RIDRETH1	1		-0.2	-0.2
agec*agec*RIDRETH1	2		0.2	0.2
agec*agec*RIDRETH1	3		0.2	0.2
agec*agec*RIDRETH1	4		0.2	0.2
agec*agec*RIDRETH1	5		0.2	0.2
agec*agec*RIDRETH1	1		0.2	0.2
agec*RIAGENDR		2	-1	
agec*RIAGENDR		1		-1
agec*agec*RIAGENDR		2	1	
agec*agec*RIAGENDR		1		1

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.00	71.2401	0.5403	17	131.86	<.0001	0.05	70.1003	72.3800
1	-1.00	74.5725	0.5068	17	147.14	<.0001	0.05	73.5032	75.6418

Coefficients for RIAGENDR Least Squares Means At agec=-0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-0.5	-0.5
agec*agec			0.25	0.25
agec*RIDRETH1	2		-0.1	-0.1
agec*RIDRETH1	3		-0.1	-0.1
agec*RIDRETH1	4		-0.1	-0.1

Coefficients for RIAGENDR Least Squares Means At agec=-0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*RIDRETH1	5		-0.1	-0.1
agec*RIDRETH1	1		-0.1	-0.1
agec*agec*RIDRETH1	2		0.05	0.05
agec*agec*RIDRETH1	3		0.05	0.05
agec*agec*RIDRETH1	4		0.05	0.05
agec*agec*RIDRETH1	5		0.05	0.05
agec*agec*RIDRETH1	1		0.05	0.05
agec*RIAGENDR		2	-0.5	
agec*RIAGENDR		1		-0.5
agec*agec*RIAGENDR		2	0.25	
agec*agec*RIAGENDR		1		0.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-0.50	72.5325	0.5732	17	126.54	<.0001	0.05	71.3231	73.7419
1	-0.50	76.0133	0.5236	17	145.16	<.0001	0.05	74.9086	77.1181

Coefficients for RIAGENDR Least Squares Means At agec=0				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec				
agec*agec				
agec*RIDRETH1	2			
agec*RIDRETH1	3			
agec*RIDRETH1	4			
agec*RIDRETH1	5			
agec*RIDRETH1	1			
agec*agec*RIDRETH1	2			
agec*agec*RIDRETH1	3			
agec*agec*RIDRETH1	4			
agec*agec*RIDRETH1	5			
agec*agec*RIDRETH1	1			

Coefficients for RIAGENDR Least Squares Means At agec=0				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*RIAGENDR		2		
agec*RIAGENDR		1		
agec*agec*RIAGENDR		2		
agec*agec*RIAGENDR		1		

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.00	73.2864	0.6035	17	121.44	<.0001	0.05	72.0132	74.5596
1	0.00	76.6993	0.5450	17	140.74	<.0001	0.05	75.5495	77.8491

Coefficients for RIAGENDR Least Squares Means At agec=0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			0.5	0.5
agec*agec			0.25	0.25
agec*RIDRETH1	2		0.1	0.1
agec*RIDRETH1	3		0.1	0.1
agec*RIDRETH1	4		0.1	0.1
agec*RIDRETH1	5		0.1	0.1
agec*RIDRETH1	1		0.1	0.1
agec*agec*RIDRETH1	2		0.05	0.05
agec*agec*RIDRETH1	3		0.05	0.05
agec*agec*RIDRETH1	4		0.05	0.05
agec*agec*RIDRETH1	5		0.05	0.05
agec*agec*RIDRETH1	1		0.05	0.05
agec*RIAGENDR		2	0.5	
agec*RIAGENDR		1		0.5
agec*agec*RIAGENDR		2	0.25	
agec*agec*RIAGENDR		1		0.25

RIAGENDR Least Squares Means

Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.50	73.5019	0.6320	17	116.30	<.0001	0.05	72.1685	74.8353
1	0.50	76.6303	0.5781	17	132.56	<.0001	0.05	75.4107	77.8500

Coefficients for RIAGENDR Least Squares Means At agec=1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			1	1
agec*agec			1	1
agec*RIDRETH1	2		0.2	0.2
agec*RIDRETH1	3		0.2	0.2
agec*RIDRETH1	4		0.2	0.2
agec*RIDRETH1	5		0.2	0.2
agec*RIDRETH1	1		0.2	0.2
agec*agec*RIDRETH1	2		0.2	0.2
agec*agec*RIDRETH1	3		0.2	0.2
agec*agec*RIDRETH1	4		0.2	0.2
agec*agec*RIDRETH1	5		0.2	0.2
agec*agec*RIDRETH1	1		0.2	0.2
agec*RIAGENDR		2	1	
agec*RIAGENDR		1		1
agec*agec*RIAGENDR		2	1	
agec*agec*RIAGENDR		1		1

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.00	73.1790	0.6665	17	109.80	<.0001	0.05	71.7728	74.5851
1	1.00	75.8065	0.6333	17	119.71	<.0001	0.05	74.4705	77.1426

Coefficients for RIAGENDR Least Squares Means At agec=1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			1.5	1.5
agec*agec			2.25	2.25
agec*RIDRETH1	2		0.3	0.3
agec*RIDRETH1	3		0.3	0.3
agec*RIDRETH1	4		0.3	0.3
agec*RIDRETH1	5		0.3	0.3
agec*RIDRETH1	1		0.3	0.3
agec*agec*RIDRETH1	2		0.45	0.45
agec*agec*RIDRETH1	3		0.45	0.45
agec*agec*RIDRETH1	4		0.45	0.45
agec*agec*RIDRETH1	5		0.45	0.45
agec*agec*RIDRETH1	1		0.45	0.45
agec*RIAGENDR		2	1.5	
agec*RIAGENDR		1		1.5
agec*agec*RIAGENDR		2	2.25	
agec*agec*RIAGENDR		1		2.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.50	72.3176	0.7194	17	100.52	<.0001	0.05	70.7997	73.8355
1	1.50	74.2278	0.7206	17	103.01	<.0001	0.05	72.7076	75.7481

Coefficients for RIAGENDR Least Squares Means At agec=2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			2	2

Coefficients for RIAGENDR Least Squares Means At agec=2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec			4	4
agec*RIDRETH1	2		0.4	0.4
agec*RIDRETH1	3		0.4	0.4
agec*RIDRETH1	4		0.4	0.4
agec*RIDRETH1	5		0.4	0.4
agec*RIDRETH1	1		0.4	0.4
agec*agec*RIDRETH1	2		0.8	0.8
agec*agec*RIDRETH1	3		0.8	0.8
agec*agec*RIDRETH1	4		0.8	0.8
agec*agec*RIDRETH1	5		0.8	0.8
agec*agec*RIDRETH1	1		0.8	0.8
agec*RIAGENDR		2	2	
agec*RIAGENDR		1		2
agec*agec*RIAGENDR		2	4	
agec*agec*RIAGENDR		1		4

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.00	70.9178	0.8049	17	88.11	<.0001	0.05	69.2196	72.6159
1	2.00	71.8943	0.8467	17	84.92	<.0001	0.05	70.1080	73.6806

Coefficients for RIAGENDR Least Squares Means At agec=2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			2.5	2.5
agec*agec			6.25	6.25
agec*RIDRETH1	2		0.5	0.5
agec*RIDRETH1	3		0.5	0.5
agec*RIDRETH1	4		0.5	0.5
agec*RIDRETH1	5		0.5	0.5
agec*RIDRETH1	1		0.5	0.5
agec*agec*RIDRETH1	2		1.25	1.25

Coefficients for RIAGENDR Least Squares Means At agec=2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIDRETH1	3		1.25	1.25
agec*agec*RIDRETH1	4		1.25	1.25
agec*agec*RIDRETH1	5		1.25	1.25
agec*agec*RIDRETH1	1		1.25	1.25
agec*RIAGENDR		2	2.5	
agec*RIAGENDR		1		2.5
agec*agec*RIAGENDR		2	6.25	
agec*agec*RIAGENDR		1		6.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.50	68.9795	0.9340	17	73.85	<.0001	0.05	67.0089	70.9500
1	2.50	68.8059	1.0141	17	67.85	<.0001	0.05	66.6664	70.9454

Coefficients for RIAGENDR Least Squares Means At agec=3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			3	3
agec*agec			9	9
agec*RIDRETH1	2		0.6	0.6
agec*RIDRETH1	3		0.6	0.6
agec*RIDRETH1	4		0.6	0.6
agec*RIDRETH1	5		0.6	0.6
agec*RIDRETH1	1		0.6	0.6
agec*agec*RIDRETH1	2		1.8	1.8
agec*agec*RIDRETH1	3		1.8	1.8
agec*agec*RIDRETH1	4		1.8	1.8
agec*agec*RIDRETH1	5		1.8	1.8
agec*agec*RIDRETH1	1		1.8	1.8
agec*RIAGENDR		2	3	
agec*RIAGENDR		1		3
agec*agec*RIAGENDR		2	9	

Coefficients for RIAGENDR Least Squares Means At agec=3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIAGENDR		1		9

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	3.00	66.5028	1.1125	17	59.78	<.0001	0.05	64.1556	68.8500
1	3.00	64.9626	1.2225	17	53.14	<.0001	0.05	62.3833	67.5419

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.07446
Root MSE	11.1889
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	701.22	<.0001
Intercept	1	1.12	0.3047
RIDRETH1	4	2.26	0.1059
RIAGENDR	1	1.52	0.2339
agec	1	0.07	0.7969
agec*agec	1	0.34	0.5685
agec*RIDRETH1	4	2.25	0.1066
agec*agec*RIDRETH1	4	2.20	0.1129
agec*RIAGENDR	1	1.39	0.2544
agec*agec*RIAGENDR	1	1.25	0.2794

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	77.59236	55.817676	1.39	0.1824	-40.17264	195.357363	0.79
RIDRETH1 2	-7.15937	186.244532	-0.04	0.9698	-400.10098	385.782248	3.72
RIDRETH1 3	-57.07703	101.797047	-0.56	0.5823	-271.85003	157.695962	2.35
RIDRETH1 4	114.70964	102.379828	1.12	0.2781	-101.29292	330.712198	1.56
RIDRETH1 5	138.50325	175.579375	0.79	0.4411	-231.93685	508.943346	3.19
RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
RIAGENDR 2	-108.71029	88.077169	-1.23	0.2339	-294.53687	77.116294	4.01
RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec	0.90884	33.003879	0.03	0.9784	-68.72326	70.540939	0.79
agec*agec	-1.64557	4.868354	-0.34	0.7395	-11.91690	8.625758	0.80
agec*RIDRETH1 2	-7.85972	109.412724	-0.07	0.9436	-238.70039	222.980951	3.68
agec*RIDRETH1 3	-34.26986	59.695080	-0.57	0.5734	-160.21547	91.675749	2.32
agec*RIDRETH1 4	67.13930	60.980467	1.10	0.2862	-61.51824	195.796836	1.57

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
agec*RIDRETH1 5	79.63757	104.157524	0.76	0.4550	-140.11559	299.390741	3.19
agec*RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec*agec*RIDRETH1 2	-1.53326	16.013365	-0.10	0.9248	-35.31850	32.251990	3.65
agec*agec*RIDRETH1 3	-4.87730	8.742153	-0.56	0.5842	-23.32164	13.567026	2.30
agec*agec*RIDRETH1 4	9.84214	9.084295	1.08	0.2937	-9.32405	29.008326	1.61
agec*agec*RIDRETH1 5	11.55120	15.354399	0.75	0.4622	-20.84375	43.946151	3.20
agec*agec*RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec*RIAGENDR 2	-61.55298	52.184387	-1.18	0.2544	-171.65241	48.546453	4.01
agec*RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec*agec*RIAGENDR 2	-8.55939	7.661195	-1.12	0.2794	-24.72310	7.604322	3.98
agec*agec*RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.

Note:	The degrees of freedom for the t tests is 17. Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.

Coefficients for RIAGENDR Least Squares Means At agec=-3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-3	-3
agec*agec			9	9
agec*RIDRETH1	2		-0.6	-0.6
agec*RIDRETH1	3		-0.6	-0.6
agec*RIDRETH1	4		-0.6	-0.6
agec*RIDRETH1	5		-0.6	-0.6
agec*RIDRETH1	1		-0.6	-0.6
agec*agec*RIDRETH1	2		1.8	1.8
agec*agec*RIDRETH1	3		1.8	1.8
agec*agec*RIDRETH1	4		1.8	1.8
agec*agec*RIDRETH1	5		1.8	1.8
agec*agec*RIDRETH1	1		1.8	1.8
agec*RIAGENDR		2	-3	
agec*RIAGENDR		1		-3
agec*agec*RIAGENDR		2	9	
agec*agec*RIAGENDR		1		9

RIAGENDR Least Squares Means

Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-3.00	60.9458	0.9466	17	64.38	<.0001	0.05	58.9485	62.9430
1	-3.00	62.0316	0.8722	17	71.12	<.0001	0.05	60.1913	63.8719

Coefficients for RIAGENDR Least Squares Means At agec=-2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-2.5	-2.5
agec*agec			6.25	6.25
agec*RIDRETH1	2		-0.5	-0.5
agec*RIDRETH1	3		-0.5	-0.5
agec*RIDRETH1	4		-0.5	-0.5
agec*RIDRETH1	5		-0.5	-0.5
agec*RIDRETH1	1		-0.5	-0.5
agec*agec*RIDRETH1	2		1.25	1.25
agec*agec*RIDRETH1	3		1.25	1.25
agec*agec*RIDRETH1	4		1.25	1.25
agec*agec*RIDRETH1	5		1.25	1.25
agec*agec*RIDRETH1	1		1.25	1.25
agec*RIAGENDR		2	-2.5	
agec*RIAGENDR		1		-2.5
agec*agec*RIAGENDR		2	6.25	
agec*agec*RIAGENDR		1		6.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.50	60.9115	3.8636	17	15.77	<.0001	0.05	52.7600	69.0631
1	-2.50	69.2356	5.3736	17	12.88	<.0001	0.05	57.8982	80.5729

Coefficients for RIAGENDR Least Squares Means At agec=-2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=-2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-2	-2
agec*agec			4	4
agec*RIDRETH1	2		-0.4	-0.4
agec*RIDRETH1	3		-0.4	-0.4
agec*RIDRETH1	4		-0.4	-0.4
agec*RIDRETH1	5		-0.4	-0.4
agec*RIDRETH1	1		-0.4	-0.4
agec*agec*RIDRETH1	2		0.8	0.8
agec*agec*RIDRETH1	3		0.8	0.8
agec*agec*RIDRETH1	4		0.8	0.8
agec*agec*RIDRETH1	5		0.8	0.8
agec*agec*RIDRETH1	1		0.8	0.8
agec*RIAGENDR		2	-2	
agec*RIAGENDR		1		-2
agec*agec*RIAGENDR		2	4	
agec*agec*RIAGENDR		1		4

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.00	57.2731	9.8957	17	5.79	<.0001	0.05	36.3951	78.1511
1	-2.00	77.1150	13.6274	17	5.66	<.0001	0.05	48.3637	105.87

Coefficients for RIAGENDR Least Squares Means At agec=-1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-1.5	-1.5

Coefficients for RIAGENDR Least Squares Means At agec=-1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec			2.25	2.25
agec*RIDRETH1	2		-0.3	-0.3
agec*RIDRETH1	3		-0.3	-0.3
agec*RIDRETH1	4		-0.3	-0.3
agec*RIDRETH1	5		-0.3	-0.3
agec*RIDRETH1	1		-0.3	-0.3
agec*agec*RIDRETH1	2		0.45	0.45
agec*agec*RIDRETH1	3		0.45	0.45
agec*agec*RIDRETH1	4		0.45	0.45
agec*agec*RIDRETH1	5		0.45	0.45
agec*agec*RIDRETH1	1		0.45	0.45
agec*RIAGENDR		2	-1.5	
agec*RIAGENDR		1		-1.5
agec*agec*RIAGENDR		2	2.25	
agec*agec*RIAGENDR		1		2.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.50	50.0305	18.6246	17	2.69	0.0156	0.05	10.7360	89.3250
1	-1.50	85.6699	25.4893	17	3.36	0.0037	0.05	31.8921	139.45

Coefficients for RIAGENDR Least Squares Means At agec=-1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-1	-1
agec*agec			1	1
agec*RIDRETH1	2		-0.2	-0.2
agec*RIDRETH1	3		-0.2	-0.2
agec*RIDRETH1	4		-0.2	-0.2
agec*RIDRETH1	5		-0.2	-0.2
agec*RIDRETH1	1		-0.2	-0.2
agec*agec*RIDRETH1	2		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=-1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIDRETH1	3		0.2	0.2
agec*agec*RIDRETH1	4		0.2	0.2
agec*agec*RIDRETH1	5		0.2	0.2
agec*agec*RIDRETH1	1		0.2	0.2
agec*RIAGENDR		2	-1	
agec*RIAGENDR		1		-1
agec*agec*RIAGENDR		2	1	
agec*agec*RIAGENDR		1		1

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.00	39.1836	30.0169	17	1.31	0.2092	0.05	-24.1464	102.51
1	-1.00	94.9003	40.9537	17	2.32	0.0332	0.05	8.4956	181.31

Coefficients for RIAGENDR Least Squares Means At agec=-0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-0.5	-0.5
agec*agec			0.25	0.25
agec*RIDRETH1	2		-0.1	-0.1
agec*RIDRETH1	3		-0.1	-0.1
agec*RIDRETH1	4		-0.1	-0.1
agec*RIDRETH1	5		-0.1	-0.1
agec*RIDRETH1	1		-0.1	-0.1
agec*agec*RIDRETH1	2		0.05	0.05
agec*agec*RIDRETH1	3		0.05	0.05
agec*agec*RIDRETH1	4		0.05	0.05
agec*agec*RIDRETH1	5		0.05	0.05
agec*agec*RIDRETH1	1		0.05	0.05
agec*RIAGENDR		2	-0.5	
agec*RIAGENDR		1		-0.5
agec*agec*RIAGENDR		2	0.25	

Coefficients for RIAGENDR Least Squares Means At agec=-0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIAGENDR		1		0.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-0.50	24.7326	44.0658	17	0.56	0.5819	0.05	-68.2382	117.70
1	-0.50	104.81	60.0200	17	1.75	0.0988	0.05	-21.8248	231.44

Coefficients for RIAGENDR Least Squares Means At agec=0				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec				
agec*agec				
agec*RIDRETH1	2			
agec*RIDRETH1	3			
agec*RIDRETH1	4			
agec*RIDRETH1	5			
agec*RIDRETH1	1			
agec*agec*RIDRETH1	2			
agec*agec*RIDRETH1	3			
agec*agec*RIDRETH1	4			
agec*agec*RIDRETH1	5			
agec*agec*RIDRETH1	1			
agec*RIAGENDR		2		
agec*RIAGENDR		1		
agec*agec*RIAGENDR		2		
agec*agec*RIAGENDR		1		

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.00	6.6774	60.7696	17	0.11	0.9138	0.05	-121.54	134.89
1	0.00	115.39	82.6883	17	1.40	0.1808	0.05	-59.0693	289.84

Coefficients for RIAGENDR Least Squares Means At agec=0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			0.5	0.5
agec*agec			0.25	0.25
agec*RIDRETH1	2		0.1	0.1
agec*RIDRETH1	3		0.1	0.1
agec*RIDRETH1	4		0.1	0.1
agec*RIDRETH1	5		0.1	0.1
agec*RIDRETH1	1		0.1	0.1
agec*agec*RIDRETH1	2		0.05	0.05
agec*agec*RIDRETH1	3		0.05	0.05
agec*agec*RIDRETH1	4		0.05	0.05
agec*agec*RIDRETH1	5		0.05	0.05
agec*agec*RIDRETH1	1		0.05	0.05
agec*RIAGENDR		2	0.5	
agec*RIAGENDR		1		0.5
agec*agec*RIAGENDR		2	0.25	
agec*agec*RIAGENDR		1		0.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.50	-14.9821	80.1273	17	-0.19	0.8539	0.05	-184.04	154.07
1	0.50	126.64	108.96	17	1.16	0.2612	0.05	-103.24	356.53

Coefficients for RIAGENDR Least Squares Means At agec=1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			1	1
agec*agec			1	1
agec*RIDRETH1	2		0.2	0.2
agec*RIDRETH1	3		0.2	0.2
agec*RIDRETH1	4		0.2	0.2
agec*RIDRETH1	5		0.2	0.2
agec*RIDRETH1	1		0.2	0.2
agec*agec*RIDRETH1	2		0.2	0.2
agec*agec*RIDRETH1	3		0.2	0.2
agec*agec*RIDRETH1	4		0.2	0.2
agec*agec*RIDRETH1	5		0.2	0.2
agec*agec*RIDRETH1	1		0.2	0.2
agec*RIAGENDR		2	1	
agec*RIAGENDR		1		1
agec*agec*RIAGENDR		2	1	
agec*agec*RIAGENDR		1		1

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.00	-40.2457	102.14	17	-0.39	0.6985	0.05	-255.74	175.25
1	1.00	138.58	138.83	17	1.00	0.3322	0.05	-154.33	431.49

Coefficients for RIAGENDR Least Squares Means At agec=1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			1.5	1.5
agec*agec			2.25	2.25
agec*RIDRETH1	2		0.3	0.3
agec*RIDRETH1	3		0.3	0.3
agec*RIDRETH1	4		0.3	0.3

Coefficients for RIAGENDR Least Squares Means At agec=1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*RIDRETH1	5		0.3	0.3
agec*RIDRETH1	1		0.3	0.3
agec*agec*RIDRETH1	2		0.45	0.45
agec*agec*RIDRETH1	3		0.45	0.45
agec*agec*RIDRETH1	4		0.45	0.45
agec*agec*RIDRETH1	5		0.45	0.45
agec*agec*RIDRETH1	1		0.45	0.45
agec*RIAGENDR		2	1.5	
agec*RIAGENDR		1		1.5
agec*agec*RIAGENDR		2	2.25	
agec*agec*RIAGENDR		1		2.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.50	-69.1136	126.80	17	-0.55	0.5928	0.05	-336.65	198.42
1	1.50	151.18	172.31	17	0.88	0.3925	0.05	-212.35	514.72

Coefficients for RIAGENDR Least Squares Means At agec=2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			2	2
agec*agec			4	4
agec*RIDRETH1	2		0.4	0.4
agec*RIDRETH1	3		0.4	0.4
agec*RIDRETH1	4		0.4	0.4
agec*RIDRETH1	5		0.4	0.4
agec*RIDRETH1	1		0.4	0.4
agec*agec*RIDRETH1	2		0.8	0.8
agec*agec*RIDRETH1	3		0.8	0.8
agec*agec*RIDRETH1	4		0.8	0.8
agec*agec*RIDRETH1	5		0.8	0.8
agec*agec*RIDRETH1	1		0.8	0.8

Coefficients for RIAGENDR Least Squares Means At agec=2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*RIAGENDR		2	2	
agec*RIAGENDR		1		2
agec*agec*RIAGENDR		2	4	
agec*agec*RIAGENDR		1		4

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.00	-101.59	154.12	17	-0.66	0.5186	0.05	-426.75	223.58
1	2.00	164.47	209.38	17	0.79	0.4430	0.05	-277.29	606.23

Coefficients for RIAGENDR Least Squares Means At agec=2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			2.5	2.5
agec*agec			6.25	6.25
agec*RIDRETH1	2		0.5	0.5
agec*RIDRETH1	3		0.5	0.5
agec*RIDRETH1	4		0.5	0.5
agec*RIDRETH1	5		0.5	0.5
agec*RIDRETH1	1		0.5	0.5
agec*agec*RIDRETH1	2		1.25	1.25
agec*agec*RIDRETH1	3		1.25	1.25
agec*agec*RIDRETH1	4		1.25	1.25
agec*agec*RIDRETH1	5		1.25	1.25
agec*agec*RIDRETH1	1		1.25	1.25
agec*RIAGENDR		2	2.5	
agec*RIAGENDR		1		2.5
agec*agec*RIAGENDR		2	6.25	
agec*agec*RIAGENDR		1		6.25

RIAGENDR Least Squares Means

Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.50	-137.66	184.09	17	-0.75	0.4648	0.05	-526.07	250.74
1	2.50	178.43	250.06	17	0.71	0.4852	0.05	-349.16	706.02

Coefficients for RIAGENDR Least Squares Means At agec=3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			3	3
agec*agec			9	9
agec*RIDRETH1	2		0.6	0.6
agec*RIDRETH1	3		0.6	0.6
agec*RIDRETH1	4		0.6	0.6
agec*RIDRETH1	5		0.6	0.6
agec*RIDRETH1	1		0.6	0.6
agec*agec*RIDRETH1	2		1.8	1.8
agec*agec*RIDRETH1	3		1.8	1.8
agec*agec*RIDRETH1	4		1.8	1.8
agec*agec*RIDRETH1	5		1.8	1.8
agec*agec*RIDRETH1	1		1.8	1.8
agec*RIAGENDR		2	3	
agec*RIAGENDR		1		3
agec*agec*RIAGENDR		2	9	
agec*agec*RIAGENDR		1		9

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	3.00	-177.34	216.72	17	-0.82	0.4245	0.05	-634.58	279.89
1	3.00	193.06	294.35	17	0.66	0.5207	0.05	-427.95	814.08

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.1203
Root MSE	10.7452
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	2987.50	<.0001
Intercept	1	25022.6	<.0001
RIDRETH1	4	5.18	0.0065
RIAGENDR	1	17.67	0.0006
agec	1	36.65	<.0001
agec*agec	1	275.91	<.0001
agec*RIDRETH1	4	3.08	0.0447
agec*agec*RIDRETH1	4	6.42	0.0024
agec*RIAGENDR	1	3.75	0.0697
agec*agec*RIAGENDR	1	4.14	0.0579

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.3464498	0.82011243	91.87	<.0001	73.6161638	77.0767358	1.38
RIDRETH1 2	0.2714371	0.92217646	0.29	0.7721	-1.6741852	2.2170594	0.82
RIDRETH1 3	1.4611713	0.91162242	1.60	0.1274	-0.4621839	3.3845265	1.63
RIDRETH1 4	3.4500173	0.96227934	3.59	0.0023	1.4197854	5.4802493	1.22
RIDRETH1 5	1.1441363	0.89600412	1.28	0.2188	-0.7462671	3.0345398	0.88
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.1953718	0.76025991	-4.20	0.0006	-4.7993800	-1.5913636	4.17
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.3922655	0.39823459	0.99	0.3384	-0.4479360	1.2324671	1.24
agec*agec	-1.5235576	0.18104432	-8.42	<.0001	-1.9055277	-1.1415874	0.86
agec*RIDRETH1 2	0.4963768	0.49755685	1.00	0.3324	-0.5533764	1.5461300	1.15
agec*RIDRETH1 3	-0.0447546	0.53246995	-0.08	0.9340	-1.1681681	1.0786588	2.14
agec*RIDRETH1 4	0.3454883	0.38776916	0.89	0.3854	-0.4726331	1.1636097	0.86

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 5	0.1490591	0.49282074	0.30	0.7660	-0.8907017	1.1888200	1.20
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIDRETH1 2	0.0836542	0.34523731	0.24	0.8114	-0.6447329	0.8120413	1.74
agec*agec*RIDRETH1 3	0.2662321	0.17171368	1.55	0.1395	-0.0960521	0.6285163	0.75
agec*agec*RIDRETH1 4	-0.2368008	0.19841895	-1.19	0.2491	-0.6554282	0.1818266	0.74
agec*agec*RIDRETH1 5	0.1444580	0.29858582	0.48	0.6347	-0.4855030	0.7744190	1.41
agec*agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.4549443	0.23500066	1.94	0.0697	-0.0408637	0.9507524	2.32
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*agec*RIAGENDR 2	0.3386353	0.16648154	2.03	0.0579	-0.0126100	0.6898807	3.66
agec*agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Coefficients for RIAGENDR Least Squares Means At agec=-3				
Effect	**1=mex 2=oth hisp 3=white 4=black 5=other**	**Gender**	**Row1**	**Row2**
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-3	-3
agec*agec			9	9
agec*RIDRETH1	2		-0.6	-0.6
agec*RIDRETH1	3		-0.6	-0.6
agec*RIDRETH1	4		-0.6	-0.6
agec*RIDRETH1	5		-0.6	-0.6
agec*RIDRETH1	1		-0.6	-0.6
agec*agec*RIDRETH1	2		1.8	1.8
agec*agec*RIDRETH1	3		1.8	1.8
agec*agec*RIDRETH1	4		1.8	1.8
agec*agec*RIDRETH1	5		1.8	1.8
agec*agec*RIDRETH1	1		1.8	1.8
agec*RIAGENDR		2	-3	
agec*RIAGENDR		1		-3
agec*agec*RIAGENDR		2	9	
agec*agec*RIAGENDR		1		9

RIAGENDR Least Squares Means

Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-3.00	60.1064	1.0244	17	58.67	<.0001	0.05	57.9450	62.2678
1	-3.00	61.6189	0.7882	17	78.18	<.0001	0.05	59.9560	63.2818

Coefficients for RIAGENDR Least Squares Means At agec=-2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-2.5	-2.5
agec*agec			6.25	6.25
agec*RIDRETH1	2		-0.5	-0.5
agec*RIDRETH1	3		-0.5	-0.5
agec*RIDRETH1	4		-0.5	-0.5
agec*RIDRETH1	5		-0.5	-0.5
agec*RIDRETH1	1		-0.5	-0.5
agec*agec*RIDRETH1	2		1.25	1.25
agec*agec*RIDRETH1	3		1.25	1.25
agec*agec*RIDRETH1	4		1.25	1.25
agec*agec*RIDRETH1	5		1.25	1.25
agec*agec*RIDRETH1	1		1.25	1.25
agec*RIAGENDR		2	-2.5	
agec*RIAGENDR		1		-2.5
agec*agec*RIAGENDR		2	6.25	
agec*agec*RIAGENDR		1		6.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.50	63.7415	0.7548	17	84.45	<.0001	0.05	62.1491	65.3339
1	-2.50	65.9577	0.5786	17	113.99	<.0001	0.05	64.7369	67.1786

Coefficients for RIAGENDR Least Squares Means At agec=-2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=-2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-2	-2
agec*agec			4	4
agec*RIDRETH1	2		-0.4	-0.4
agec*RIDRETH1	3		-0.4	-0.4
agec*RIDRETH1	4		-0.4	-0.4
agec*RIDRETH1	5		-0.4	-0.4
agec*RIDRETH1	1		-0.4	-0.4
agec*agec*RIDRETH1	2		0.8	0.8
agec*agec*RIDRETH1	3		0.8	0.8
agec*agec*RIDRETH1	4		0.8	0.8
agec*agec*RIDRETH1	5		0.8	0.8
agec*agec*RIDRETH1	1		0.8	0.8
agec*RIAGENDR		2	-2	
agec*RIAGENDR		1		-2
agec*agec*RIAGENDR		2	4	
agec*agec*RIAGENDR		1		4

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-2.00	66.8099	0.5875	17	113.72	<.0001	0.05	65.5704	68.0494
1	-2.00	69.5606	0.4728	17	147.11	<.0001	0.05	68.5630	70.5582

Coefficients for RIAGENDR Least Squares Means At agec=-1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-1.5	-1.5

Coefficients for RIAGENDR Least Squares Means At agec=-1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec			2.25	2.25
agec*RIDRETH1	2		-0.3	-0.3
agec*RIDRETH1	3		-0.3	-0.3
agec*RIDRETH1	4		-0.3	-0.3
agec*RIDRETH1	5		-0.3	-0.3
agec*RIDRETH1	1		-0.3	-0.3
agec*agec*RIDRETH1	2		0.45	0.45
agec*agec*RIDRETH1	3		0.45	0.45
agec*agec*RIDRETH1	4		0.45	0.45
agec*agec*RIDRETH1	5		0.45	0.45
agec*agec*RIDRETH1	1		0.45	0.45
agec*RIAGENDR		2	-1.5	
agec*RIAGENDR		1		-1.5
agec*agec*RIAGENDR		2	2.25	
agec*agec*RIAGENDR		1		2.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.50	69.3116	0.5276	17	131.36	<.0001	0.05	68.1984	70.4248
1	-1.50	72.4274	0.4647	17	155.85	<.0001	0.05	71.4470	73.4079

Coefficients for RIAGENDR Least Squares Means At agec=-1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-1	-1
agec*agec			1	1
agec*RIDRETH1	2		-0.2	-0.2
agec*RIDRETH1	3		-0.2	-0.2
agec*RIDRETH1	4		-0.2	-0.2
agec*RIDRETH1	5		-0.2	-0.2
agec*RIDRETH1	1		-0.2	-0.2
agec*agec*RIDRETH1	2		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=-1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIDRETH1	3		0.2	0.2
agec*agec*RIDRETH1	4		0.2	0.2
agec*agec*RIDRETH1	5		0.2	0.2
agec*agec*RIDRETH1	1		0.2	0.2
agec*RIAGENDR		2	-1	
agec*RIAGENDR		1		-1
agec*agec*RIAGENDR		2	1	
agec*agec*RIAGENDR		1		1

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-1.00	71.2466	0.5420	17	131.44	<.0001	0.05	70.1030	72.3902
1	-1.00	74.5583	0.5079	17	146.81	<.0001	0.05	73.4868	75.6297

Coefficients for RIAGENDR Least Squares Means At agec=-0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			-0.5	-0.5
agec*agec			0.25	0.25
agec*RIDRETH1	2		-0.1	-0.1
agec*RIDRETH1	3		-0.1	-0.1
agec*RIDRETH1	4		-0.1	-0.1
agec*RIDRETH1	5		-0.1	-0.1
agec*RIDRETH1	1		-0.1	-0.1
agec*agec*RIDRETH1	2		0.05	0.05
agec*agec*RIDRETH1	3		0.05	0.05
agec*agec*RIDRETH1	4		0.05	0.05
agec*agec*RIDRETH1	5		0.05	0.05
agec*agec*RIDRETH1	1		0.05	0.05
agec*RIAGENDR		2	-0.5	
agec*RIAGENDR		1		-0.5
agec*agec*RIAGENDR		2	0.25	

Coefficients for RIAGENDR Least Squares Means At agec=-0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*agec*RIAGENDR		1		0.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	-0.50	72.6149	0.5809	17	124.99	<.0001	0.05	71.3892	73.8406
1	-0.50	75.9530	0.5593	17	135.81	<.0001	0.05	74.7731	77.1330

Coefficients for RIAGENDR Least Squares Means At agec=0				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec				
agec*agec				
agec*RIDRETH1	2			
agec*RIDRETH1	3			
agec*RIDRETH1	4			
agec*RIDRETH1	5			
agec*RIDRETH1	1			
agec*agec*RIDRETH1	2			
agec*agec*RIDRETH1	3			
agec*agec*RIDRETH1	4			
agec*agec*RIDRETH1	5			
agec*agec*RIDRETH1	1			
agec*RIAGENDR		2		
agec*RIAGENDR		1		
agec*agec*RIAGENDR		2		
agec*agec*RIAGENDR		1		

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.00	73.4164	0.6144	17	119.50	<.0001	0.05	72.1202	74.7127
1	0.00	76.6118	0.6011	17	127.46	<.0001	0.05	75.3436	77.8800

Coefficients for RIAGENDR Least Squares Means At agec=0.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			0.5	0.5
agec*agec			0.25	0.25
agec*RIDRETH1	2		0.1	0.1
agec*RIDRETH1	3		0.1	0.1
agec*RIDRETH1	4		0.1	0.1
agec*RIDRETH1	5		0.1	0.1
agec*RIDRETH1	1		0.1	0.1
agec*agec*RIDRETH1	2		0.05	0.05
agec*agec*RIDRETH1	3		0.05	0.05
agec*agec*RIDRETH1	4		0.05	0.05
agec*agec*RIDRETH1	5		0.05	0.05
agec*agec*RIDRETH1	1		0.05	0.05
agec*RIAGENDR		2	0.5	
agec*RIAGENDR		1		0.5
agec*agec*RIAGENDR		2	0.25	
agec*agec*RIAGENDR		1		0.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	0.50	73.6513	0.6352	17	115.95	<.0001	0.05	72.3111	74.9915
1	0.50	76.5345	0.6338	17	120.76	<.0001	0.05	75.1974	77.8717

Coefficients for RIAGENDR Least Squares Means At agec=1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2

Coefficients for RIAGENDR Least Squares Means At agec=1				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			1	1
agec*agec			1	1
agec*RIDRETH1	2		0.2	0.2
agec*RIDRETH1	3		0.2	0.2
agec*RIDRETH1	4		0.2	0.2
agec*RIDRETH1	5		0.2	0.2
agec*RIDRETH1	1		0.2	0.2
agec*agec*RIDRETH1	2		0.2	0.2
agec*agec*RIDRETH1	3		0.2	0.2
agec*agec*RIDRETH1	4		0.2	0.2
agec*agec*RIDRETH1	5		0.2	0.2
agec*agec*RIDRETH1	1		0.2	0.2
agec*RIAGENDR		2	1	
agec*RIAGENDR		1		1
agec*agec*RIAGENDR		2	1	
agec*agec*RIAGENDR		1		1

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.00	73.3195	0.6536	17	112.18	<.0001	0.05	71.9405	74.6984
1	1.00	75.7213	0.6705	17	112.93	<.0001	0.05	74.3066	77.1359

Coefficients for RIAGENDR Least Squares Means At agec=1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			1.5	1.5
agec*agec			2.25	2.25
agec*RIDRETH1	2		0.3	0.3
agec*RIDRETH1	3		0.3	0.3
agec*RIDRETH1	4		0.3	0.3

Coefficients for RIAGENDR Least Squares Means At agec=1.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*RIDRETH1	5		0.3	0.3
agec*RIDRETH1	1		0.3	0.3
agec*agec*RIDRETH1	2		0.45	0.45
agec*agec*RIDRETH1	3		0.45	0.45
agec*agec*RIDRETH1	4		0.45	0.45
agec*agec*RIDRETH1	5		0.45	0.45
agec*agec*RIDRETH1	1		0.45	0.45
agec*RIAGENDR		2	1.5	
agec*RIAGENDR		1		1.5
agec*agec*RIAGENDR		2	2.25	
agec*agec*RIAGENDR		1		2.25

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	1.50	72.4209	0.6942	17	104.32	<.0001	0.05	70.9563	73.8855
1	1.50	74.1719	0.7335	17	101.12	<.0001	0.05	72.6244	75.7195

Coefficients for RIAGENDR Least Squares Means At agec=2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			2	2
agec*agec			4	4
agec*RIDRETH1	2		0.4	0.4
agec*RIDRETH1	3		0.4	0.4
agec*RIDRETH1	4		0.4	0.4
agec*RIDRETH1	5		0.4	0.4
agec*RIDRETH1	1		0.4	0.4
agec*agec*RIDRETH1	2		0.8	0.8
agec*agec*RIDRETH1	3		0.8	0.8
agec*agec*RIDRETH1	4		0.8	0.8
agec*agec*RIDRETH1	5		0.8	0.8
agec*agec*RIDRETH1	1		0.8	0.8

Coefficients for RIAGENDR Least Squares Means At agec=2				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
agec*RIAGENDR		2	2	
agec*RIAGENDR		1		2
agec*agec*RIAGENDR		2	4	
agec*agec*RIAGENDR		1		4

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.00	70.9557	0.7893	17	89.90	<.0001	0.05	69.2904	72.6209
1	2.00	71.8866	0.8470	17	84.87	<.0001	0.05	70.0996	73.6736

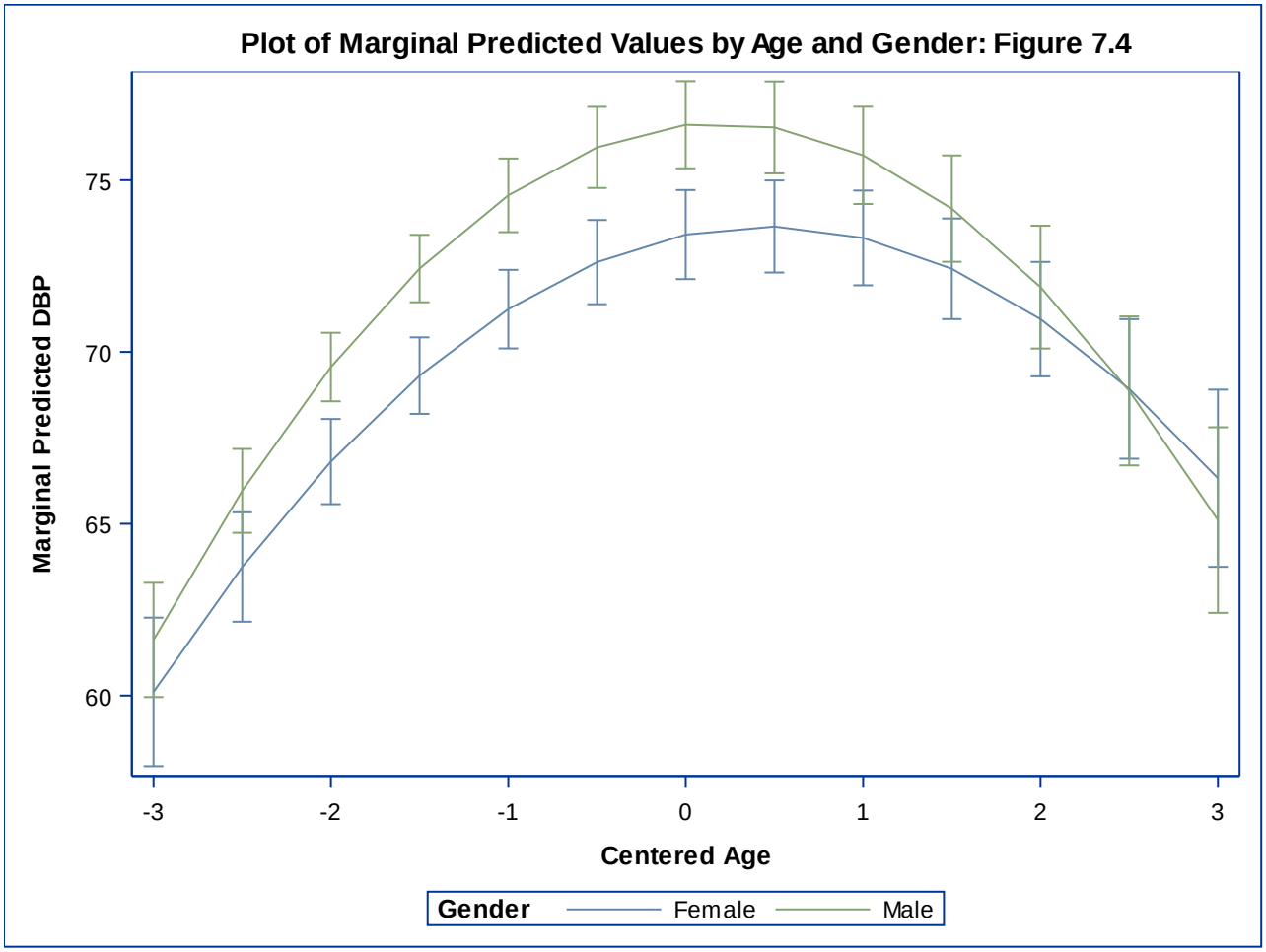
Coefficients for RIAGENDR Least Squares Means At agec=2.5				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			2.5	2.5
agec*agec			6.25	6.25
agec*RIDRETH1	2		0.5	0.5
agec*RIDRETH1	3		0.5	0.5
agec*RIDRETH1	4		0.5	0.5
agec*RIDRETH1	5		0.5	0.5
agec*RIDRETH1	1		0.5	0.5
agec*agec*RIDRETH1	2		1.25	1.25
agec*agec*RIDRETH1	3		1.25	1.25
agec*agec*RIDRETH1	4		1.25	1.25
agec*agec*RIDRETH1	5		1.25	1.25
agec*agec*RIDRETH1	1		1.25	1.25
agec*RIAGENDR		2	2.5	
agec*RIAGENDR		1		2.5
agec*agec*RIAGENDR		2	6.25	
agec*agec*RIAGENDR		1		6.25

RIAGENDR Least Squares Means

Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	2.50	68.9237	0.9630	17	71.57	<.0001	0.05	66.8919	70.9555
1	2.50	68.8652	1.0275	17	67.02	<.0001	0.05	66.6975	71.0330

Coefficients for RIAGENDR Least Squares Means At agec=3				
Effect	1=mex 2=oth hisp 3=white 4=black 5=other	Gender	Row1	Row2
Intercept			1	1
RIDRETH1	2		0.2	0.2
RIDRETH1	3		0.2	0.2
RIDRETH1	4		0.2	0.2
RIDRETH1	5		0.2	0.2
RIDRETH1	1		0.2	0.2
RIAGENDR		2	1	
RIAGENDR		1		1
agec			3	3
agec*agec			9	9
agec*RIDRETH1	2		0.6	0.6
agec*RIDRETH1	3		0.6	0.6
agec*RIDRETH1	4		0.6	0.6
agec*RIDRETH1	5		0.6	0.6
agec*RIDRETH1	1		0.6	0.6
agec*agec*RIDRETH1	2		1.8	1.8
agec*agec*RIDRETH1	3		1.8	1.8
agec*agec*RIDRETH1	4		1.8	1.8
agec*agec*RIDRETH1	5		1.8	1.8
agec*agec*RIDRETH1	1		1.8	1.8
agec*RIAGENDR		2	3	
agec*RIAGENDR		1		3
agec*agec*RIAGENDR		2	9	
agec*agec*RIAGENDR		1		9

RIAGENDR Least Squares Means									
Gender	agec	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	3.00	66.3250	1.2223	17	54.26	<.0001	0.05	63.7462	68.9039
1	3.00	65.1079	1.2799	17	50.87	<.0001	0.05	62.4075	67.8083


Plot of Marginal Predicted Values by Age and Gender: Figure 7.4
Marginal Predicted DBP
75
70
65
60
-3
-2
-1
0
1
2
3
Centered Age
Gender
Female
Male

Final Model with Interactions
The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	250508512
Weighted Mean of bpxdi1_1	69.55356
Weighted Sum of bpxdi1_1	1.74238E10

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2474
Root MSE	10.8263
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	5	3.41	0.0257
Intercept	1	26755.3	<.0001
RIDRETH1	4	4.75	0.0093
RIAGENDR	1	24.18	0.0001
agec	1	28.34	<.0001
agecsq	1	0.00	1.0000
agec*RIDRETH1	4	0.57	0.6855
agecsq*RIDRETH1	3	0.00	1.0000
agec*RIAGENDR	1	2.71	0.1183
agecsq*RIAGENDR	1	16.77	0.0008

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.4816175	0.67979	111.04	<.0001	74.0474	76.91585	1.01
RIDRETH1 2	0.0308887	0.96721	0.03	0.9749	-2.0097	2.07152	0.95
RIDRETH1 3	1.6229848	0.79993	2.03	0.0584	-0.0647	3.31069	1.33
RIDRETH1 4	3.2495985	0.84820	3.83	0.0013	1.4601	5.03914	0.98
RIDRETH1 5	1.1847914	0.73820	1.60	0.1269	-0.3727	2.74225	0.61

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
RIDRETH1 1	0.0000000	0.00000	.	.	0.0000	0.00000	.
RIAGENDR 2	-3.4128307	0.69408	-4.92	0.0001	-4.8772	-1.94844	3.33
RIAGENDR 1	0.0000000	0.00000	.	.	0.0000	0.00000	.
agec	0.0430641	0.03777	1.14	0.2701	-0.0366	0.12276	0.98
agecsq	0.0745788	2873.27164	0.00	1.0000	-6061.9987	6062.14784	0.59
agec*RIDRETH1 2	0.0374371	0.05595	0.67	0.5124	-0.0806	0.15549	1.33
agec*RIDRETH1 3	0.0121473	0.05117	0.24	0.8152	-0.0958	0.12011	1.77
agec*RIDRETH1 4	0.0271642	0.03833	0.71	0.4881	-0.0537	0.10804	0.77
agec*RIDRETH1 5	0.0164287	0.05556	0.30	0.7711	-0.1008	0.13365	1.42
agec*RIDRETH1 1	0.0000000	0.00000	.	.	0.0000	0.00000	.
agecsq*RIDRETH1 2	-0.0884448	0.00000	-Infty	<.0001	-0.0884	-0.08844	.
agecsq*RIDRETH1 3	-0.0886334	0.00000	-Infty	<.0001	-0.0886	-0.08863	.
agecsq*RIDRETH1 4	-0.0918749	0.00000	-Infty	<.0001	-0.0919	-0.09187	.
agecsq*RIDRETH1 5	-0.0890583	0.00000	-Infty	<.0001	-0.0891	-0.08906	.
agecsq*RIDRETH1 1	-0.0903698	3039.91592	-0.00	1.0000	-6413.7523	6413.57159	0.66
agec*RIAGENDR 2	0.0352424	0.02142	1.65	0.1183	-0.0100	0.08044	2.32
agec*RIAGENDR 1	0.0000000	0.00000	.	.	0.0000	0.00000	.
agecsq*RIAGENDR 2	0.0043286	0.00106	4.10	0.0008	0.0021	0.00656	2.48
agecsq*RIAGENDR 1	0.0000000	0.00000	.	.	0.0000	0.00000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	37760598
Weighted Mean of bpxdi1_1	57.97422
Weighted Sum of bpxdi1_1	2189141217

Fit Statistics	
R-Square	0.07446
Root MSE	11.1897
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	7	0.49	0.8314
Intercept	1	1.12	0.3048
RIDRETH1	4	2.25	0.1059
RIAGENDR	1	1.52	0.2339
agec	1	0.07	0.7969
agecsq	1	0.00	1.0000
agec*RIDRETH1	4	2.25	0.1066
agecsq*RIDRETH1	4	0.00	1.0000
agec*RIAGENDR	1	1.39	0.2545
agecsq*RIAGENDR	1	1.25	0.2795

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	77.59236	55.821869	1.39	0.1825	-40.18149	195.366209	0.79
RIDRETH1 2	-7.15937	186.258520	-0.04	0.9698	-400.13050	385.811760	3.72
RIDRETH1 3	-57.07703	101.804693	-0.56	0.5823	-271.86616	157.712093	2.35
RIDRETH1 4	114.70964	102.387518	1.12	0.2781	-101.30914	330.728421	1.56
RIDRETH1 5	138.50325	175.592562	0.79	0.4411	-231.96468	508.971168	3.19
RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
RIAGENDR 2	-108.71029	88.083784	-1.23	0.2339	-294.55083	77.130251	4.01
RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agec	0.09088	3.300636	0.03	0.9784	-6.87285	7.054617	0.79
agecsq	-0.09618	0.000000	-Infty	<.0001	-0.09618	-0.096176	.
agec*RIDRETH1 2	-0.78597	10.942094	-0.07	0.9436	-23.87177	22.299829	3.68
agec*RIDRETH1 3	-3.42699	5.969956	-0.57	0.5735	-16.02249	9.168521	2.32
agec*RIDRETH1 4	6.71393	6.098505	1.10	0.2863	-6.15279	19.580650	1.57

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 5	7.96376	10.416535	0.76	0.4550	-14.01321	29.940725	3.19
agec*RIDRETH1 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agecsq*RIDRETH1 2	0.06439	0.000000	Infty	<.0001	0.06439	0.064388	.
agecsq*RIDRETH1 3	0.03095	0.000000	Infty	<.0001	0.03095	0.030948	.
agecsq*RIDRETH1 4	0.17814	0.000000	Infty	<.0001	0.17814	0.178142	.
agecsq*RIDRETH1 5	0.19523	0.000000	Infty	<.0001	0.19523	0.195233	.
agecsq*RIDRETH1 1	0.07972	0.000000	Infty	<.0001	0.07972	0.079721	.
agec*RIAGENDR 2	-6.15530	5.218831	-1.18	0.2545	-17.16607	4.855472	4.01
agec*RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.
agecsq*RIAGENDR 2	-0.08559	0.076618	-1.12	0.2795	-0.24724	0.076055	3.98
agecsq*RIAGENDR 1	0.00000	0.000000	.	.	0.00000	0.000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	212747914
Weighted Mean of bpxdi1_1	71.60877
Weighted Sum of bpxdi1_1	1.52346E10

Fit Statistics	
R-Square	0.1203
Root MSE	10.7452
Denominator DF	17

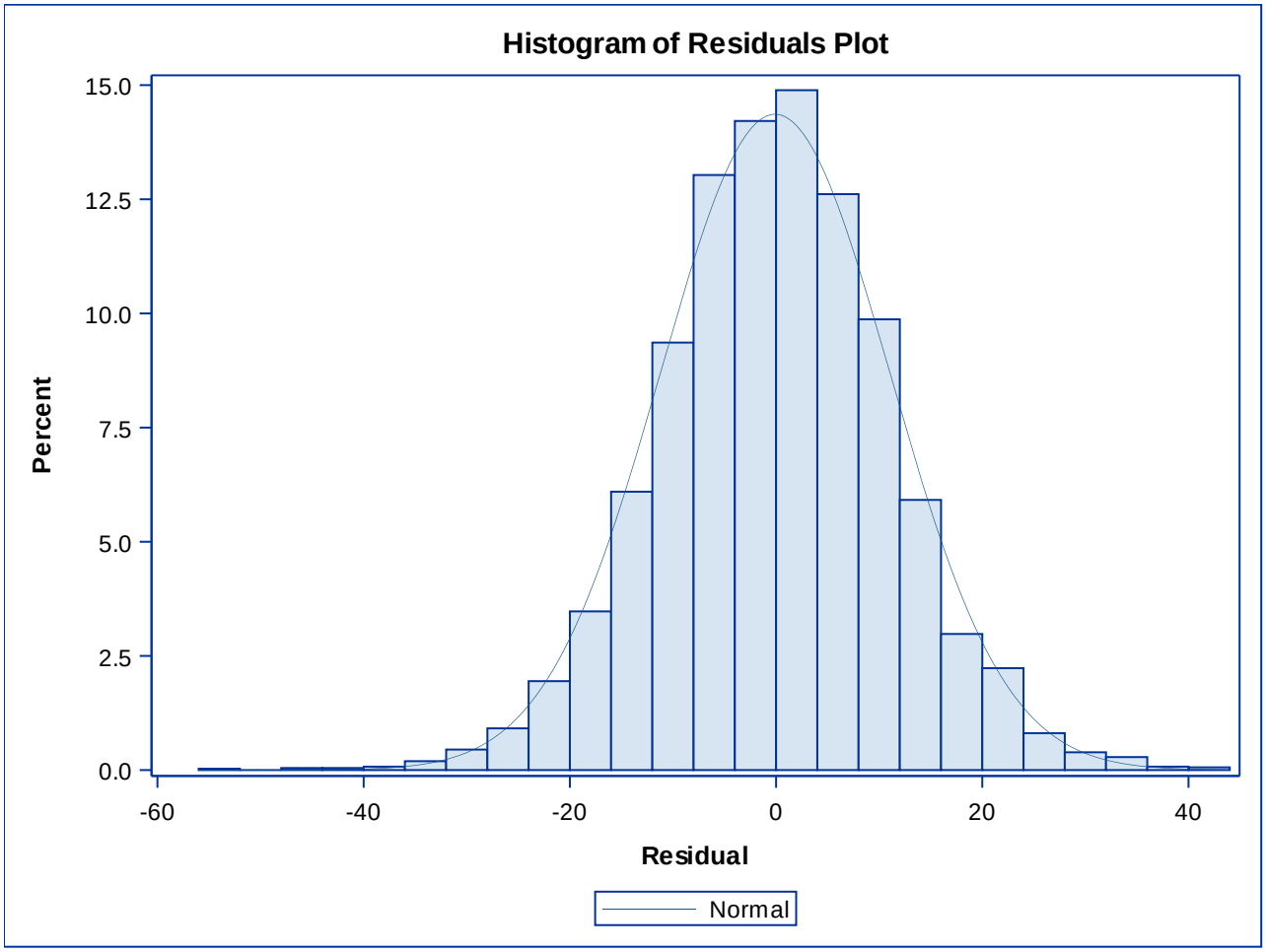
Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	2987.50	<.0001
Intercept	1	25022.6	<.0001
RIDRETH1	4	5.18	0.0065
RIAGENDR	1	17.67	0.0006
agec	1	36.65	<.0001
agecsq	1	275.91	<.0001
agec*RIDRETH1	4	3.08	0.0447
agecsq*RIDRETH1	4	6.42	0.0024
agec*RIAGENDR	1	3.75	0.0697
agecsq*RIAGENDR	1	4.14	0.0579

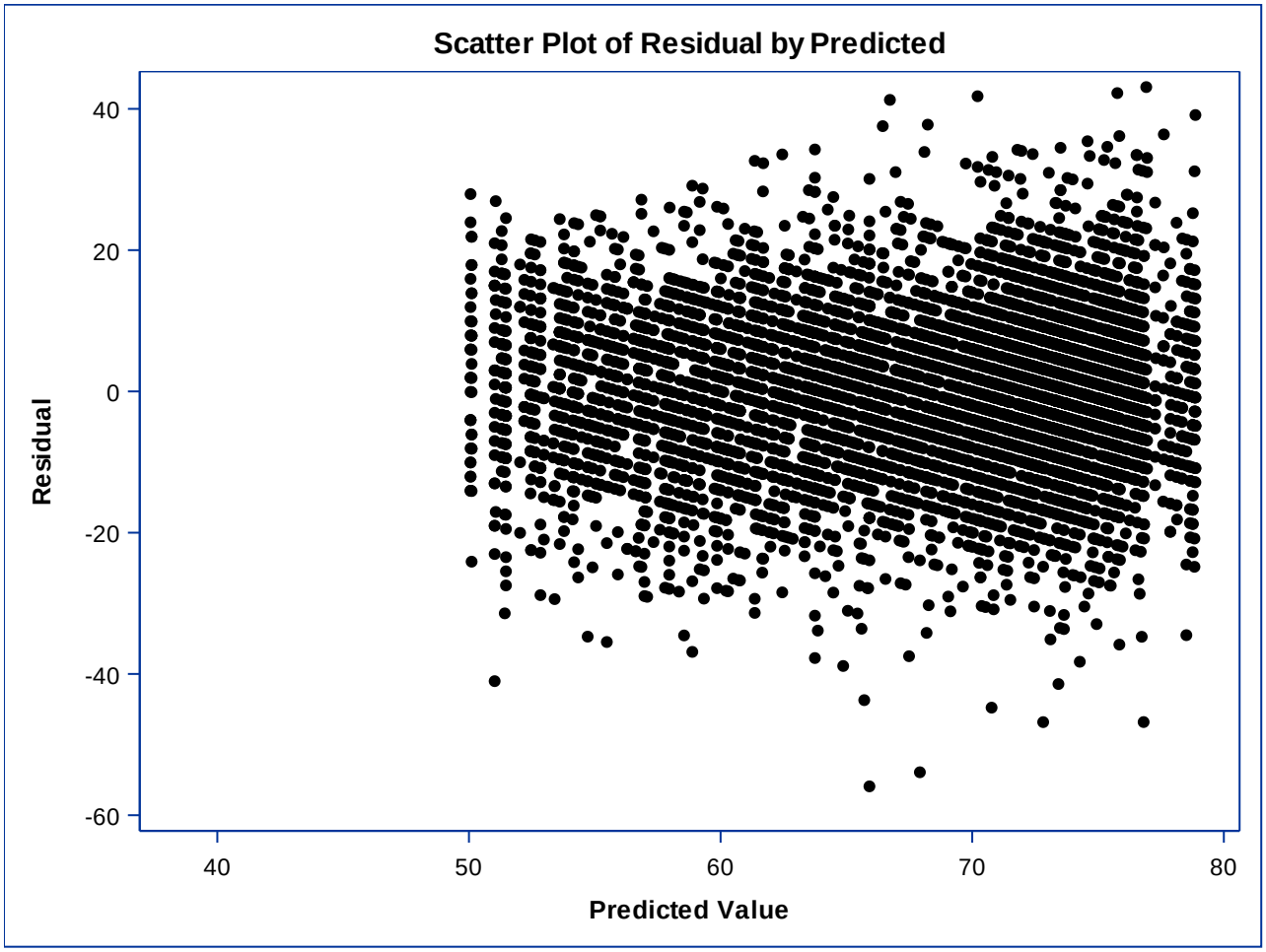
Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.3464498	0.82011243	91.87	<.0001	73.6161638	77.0767358	1.38
RIDRETH1 2	0.2714371	0.92217646	0.29	0.7721	-1.6741852	2.2170594	0.82
RIDRETH1 3	1.4611713	0.91162242	1.60	0.1274	-0.4621839	3.3845265	1.63
RIDRETH1 4	3.4500173	0.96227934	3.59	0.0023	1.4197854	5.4802493	1.22
RIDRETH1 5	1.1441363	0.89600412	1.28	0.2188	-0.7462671	3.0345398	0.88
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.1953718	0.76025991	-4.20	0.0006	-4.7993800	-1.5913636	4.17
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0392266	0.03982346	0.99	0.3384	-0.0447936	0.1232467	1.24
agecsq	-0.0152356	0.00181044	-8.42	<.0001	-0.0190553	-0.0114159	0.86
agec*RIDRETH1 2	0.0496377	0.04975568	1.00	0.3324	-0.0553376	0.1546130	1.15
agec*RIDRETH1 3	-0.0044755	0.05324700	-0.08	0.9340	-0.1168168	0.1078659	2.14
agec*RIDRETH1 4	0.0345488	0.03877692	0.89	0.3854	-0.0472633	0.1163610	0.86

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 5	0.0149059	0.04928207	0.30	0.7660	-0.0890702	0.1188820	1.20
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIDRETH1 2	0.0008365	0.00345237	0.24	0.8114	-0.0064473	0.0081204	1.74
agecsq*RIDRETH1 3	0.0026623	0.00171714	1.55	0.1395	-0.0009605	0.0062852	0.75
agecsq*RIDRETH1 4	-0.0023680	0.00198419	-1.19	0.2491	-0.0065543	0.0018183	0.74
agecsq*RIDRETH1 5	0.0014446	0.00298586	0.48	0.6347	-0.0048550	0.0077442	1.41
agecsq*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.0454944	0.02350007	1.94	0.0697	-0.0040864	0.0950752	2.32
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	0.0033864	0.00166482	2.03	0.0579	-0.0001261	0.0068988	3.66
agecsq*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**


Histogram of Residuals Plot
Percent
15.0
12.5
10.0
7.5
5.0
2.5
0.0
-60
-40
-20
0
20
40
Residual
Normal


Scatter Plot of Residual by Predicted
Residual
40
20
0
-20
-40
-60
40
50
60
70
80
Predicted Value

QQ Plot of Residuals

The UNIVARIATE Procedure
Variable: resid
(Residual)

Moments			
N	6676	**Sum Weights**	6676
Mean	-0.0988884	**Sum Observations**	-660.17917
Std Deviation	11.1098342	**Variance**	123.428415
Skewness	-0.0538634	**Kurtosis**	0.60842902
Uncorrected SS	823949.957	**Corrected SS**	823884.673
Coeff Variation	-11234.716	**Std Error Mean**	0.13597198

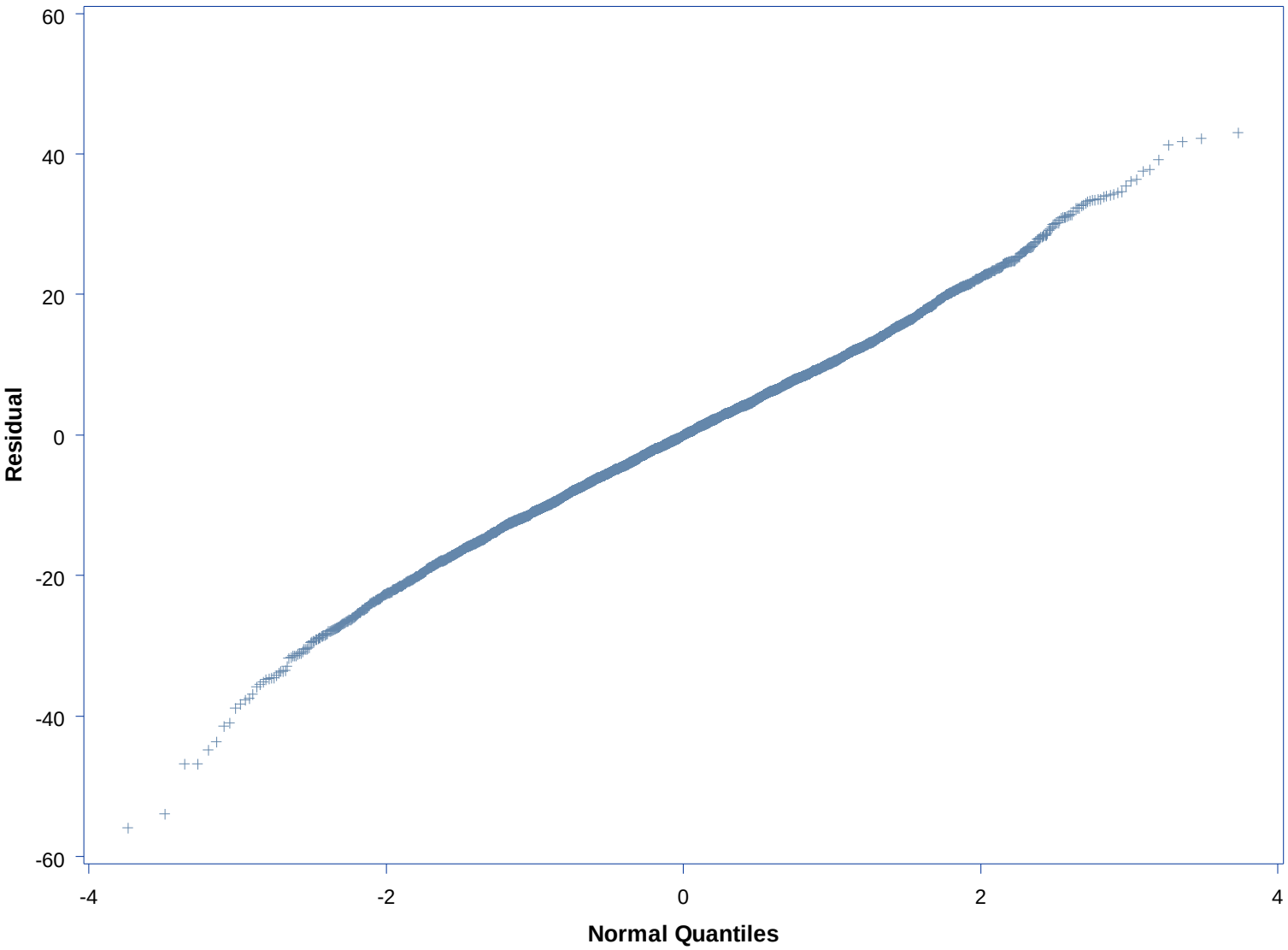
Basic Statistical Measures			
Location		**Variability**	
Mean	-0.09889	**Std Deviation**	11.10983
Median	0.03838	**Variance**	123.42842
Mode	-1.91536	**Range**	98.99889
		Interquartile Range	14.38442

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	-0.72727	**Pr > |t|**	0.4671
Sign	**M**	8	**Pr >= |M|**	0.8543
Signed Rank	**S**	-78181	**Pr >= |S|**	0.6196

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	43.0835296
99%	26.6452862
95%	18.1282322
90%	13.4467853
75% Q3	7.1156886
50% Median	0.0383843
25% Q1	-7.2687335
10%	-13.9044758
5%	-18.0959189
1%	-27.4696719
0% Min	-55.9153555

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
-55.9154	23244	39.1299	28269
-53.9198	25327	41.2711	27158
-46.8199	22247	41.7878	19752
-46.8117	22650	42.2338	24001
-44.7702	20670	43.0835	29071

Missing Values			
Missing Value	Count	Percent Of	
		All Obs	Missing Obs
.	3080	31.57	100.00


QQ Plot of Residuals
Residual
60
40
20
0
-20
-40
-60
-4
-2
0
2
4
Normal Quantiles

Use Pfeffermann method (Q weighted)

The GLM Procedure

Class Level Information		
Class	Levels	Values
RIDRETH1	5	2 3 4 5 1
RIAGENDR	2	2 1

Number of Observations Read	9756
Number of Observations Used	9756

Use Pfeffermann method (Q weighted)

The GLM Procedure

Dependent Variable: WTMEC2YR Full sample 2 year MEC exam weight

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	4.9921232E12	832020525279	1143.25	<.0001
Error	9749	7.0950221E12	727769222.08		
Corrected Total	9755	1.2087145E13			

R-Square	Coeff Var	Root MSE	WTMEC2YR Mean
0.413011	85.84395	26977.20	31425.86

Source	DF	Type I SS	Mean Square	F Value	Pr > F
RIDRETH1	4	4.8420933E12	1.2105233E12	1663.33	<.0001
RIAGENDR	1	8127518971.4	8127518971.4	11.17	0.0008
agec	1	141902371760	141902371760	194.98	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
RIDRETH1	4	4.4577235E12	1.1144309E12	1531.30	<.0001
RIAGENDR	1	7184507364.5	7184507364.5	9.87	0.0017
agec	1	141902371760	141902371760	194.98	<.0001

Parameter	Estimate		Standard Error	t Value	Pr > |t|
Intercept	24948.55321	B	826.842014	30.17	<.0001
RIDRETH1 2	-3410.17192	B	1105.368730	-3.09	0.0020
RIDRETH1 3	40374.18828	B	901.335647	44.79	<.0001
RIDRETH1 4	-9093.87677	B	903.702190	-10.06	<.0001
RIDRETH1 5	-8421.65485	B	989.514053	-8.51	<.0001
RIDRETH1 1	0.00000	B	.	.	.
RIAGENDR 2	1716.86166	B	546.428883	3.14	0.0017
RIAGENDR 1	0.00000	B	.	.	.
agec	158.49692		11.350705	13.96	<.0001

Note:	The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

Use Pfeffermann method (Q weighted)

The SURVEYREG Procedure

Regression Analysis for Dependent Variable bpxdi1_1

Data Summary	
Number of Observations	6676
Sum of Weights	7547.5
Weighted Mean of bpxdi1_1	68.46027
Weighted Sum of bpxdi1_1	516704.4

Design Summary	
Number of Strata	14
Number of Clusters	31

Fit Statistics	
R-Square	0.2879
Root MSE	10.8960
Denominator DF	17

Class Level Information			
CLASS Variable	Label	Levels	Values
RIDRETH1	1=mex 2=oth hisp 3=white 4=black 5=other	5	2 3 4 5 1
RIAGENDR	Gender	2	2 1

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	972.19	<.0001
Intercept	1	26375.4	<.0001
RIDRETH1	4	4.73	0.0095
RIAGENDR	1	38.63	<.0001
agec	1	32.01	<.0001
agecsq	1	768.84	<.0001
agec*RIDRETH1	4	0.87	0.5046
agecsq*RIDRETH1	4	5.52	0.0049
agec*RIAGENDR	1	1.52	0.2339
agecsq*RIAGENDR	1	22.13	0.0002

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.5909357	0.60574556	124.79	<.0001	74.3129243	76.8689472	1.03
RIDRETH1 2	0.0383689	1.03058102	0.04	0.9707	-2.1359670	2.2127048	1.54
RIDRETH1 3	1.6620057	0.79154776	2.10	0.0510	-0.0080141	3.3320255	1.44
RIDRETH1 4	3.2701243	0.85781448	3.81	0.0014	1.4602939	5.0799546	1.56

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
RIDRETH1 5	1.2842616	0.70951604	1.81	0.0880	-0.2126864	2.7812095	0.91
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.6963293	0.59474069	-6.22	<.0001	-4.9511224	-2.4415361	2.29
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0500877	0.03672163	1.36	0.1904	-0.0273881	0.1275636	1.06
agecsq	-0.0155371	0.00092381	-16.82	<.0001	-0.0174862	-0.0135880	0.54
agec*RIDRETH1 2	0.0389889	0.05160818	0.76	0.4603	-0.0698948	0.1478727	1.38
agec*RIDRETH1 3	0.0111835	0.04799053	0.23	0.8185	-0.0900677	0.1124347	1.69
agec*RIDRETH1 4	0.0291716	0.03545928	0.82	0.4221	-0.0456410	0.1039841	0.83
agec*RIDRETH1 5	0.0139650	0.05124257	0.27	0.7885	-0.0941473	0.1220774	1.57
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIDRETH1 2	0.0019992	0.00172913	1.16	0.2636	-0.0016489	0.0056473	1.10
agecsq*RIDRETH1 3	0.0016362	0.00095470	1.71	0.1047	-0.0003780	0.0036505	0.51
agecsq*RIDRETH1 4	-0.0014684	0.00116035	-1.27	0.2228	-0.0039165	0.0009798	0.68
agecsq*RIDRETH1 5	0.0011236	0.00126150	0.89	0.3855	-0.0015379	0.0037852	0.70
agecsq*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.0243746	0.01974837	1.23	0.2339	-0.0172908	0.0660400	1.54
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	0.0040161	0.00085378	4.70	0.0002	0.0022148	0.0058174	1.46
agecsq*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Use Pfeffermann method (Q weighted)

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=0

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	1564
Number of Observations Not in Domain	5112
Sum of Weights in Domain	1513.4
Weighted Mean of bpxdi1_1	57.50472
Weighted Sum of bpxdi1_1	87025.5

Fit Statistics	
R-Square	0.08182
Root MSE	11.0764
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	839.42	<.0001
Intercept	1	1.09	0.3100
RIDRETH1	4	2.14	0.1200
RIAGENDR	1	0.11	0.7387
agec	1	0.07	0.7961
agecsq	1	0.34	0.5700
agec*RIDRETH1	4	2.15	0.1187
agecsq*RIDRETH1	4	2.12	0.1229
agec*RIAGENDR	1	0.09	0.7731
agecsq*RIAGENDR	1	0.06	0.8116

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	44.532341	65.255256	0.68	0.5042	-93.14421	182.208897	1.33
RIDRETH1 2	-11.589509	184.753165	-0.06	0.9507	-401.38462	378.205597	5.09
RIDRETH1 3	-64.156229	102.631525	-0.63	0.5402	-280.68982	152.377361	2.15
RIDRETH1 4	101.472087	100.012814	1.01	0.3245	-109.53651	312.480680	2.36
RIDRETH1 5	137.193946	181.735096	0.75	0.4606	-246.23359	520.621481	5.76
RIDRETH1 1	0.000000	0.000000	.	.	0.00000	0.000000	.
RIAGENDR 2	-32.615341	96.185764	-0.34	0.7387	-235.54956	170.318882	4.89
RIAGENDR 1	0.000000	0.000000	.	.	0.00000	0.000000	.
agec	-1.853152	3.886904	-0.48	0.6396	-10.05380	6.347498	1.35
agecsq	-0.044641	0.057805	-0.77	0.4506	-0.16660	0.077318	1.38
agec*RIDRETH1 2	-1.036382	10.835515	-0.10	0.9249	-23.89732	21.824557	5.03

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 3	-3.838354	6.010577	-0.64	0.5316	-16.51956	8.842855	2.11
agec*RIDRETH1 4	5.915608	5.967767	0.99	0.3355	-6.67528	18.506496	2.40
agec*RIDRETH1 5	7.902307	10.767733	0.73	0.4730	-14.81562	30.620237	5.78
agec*RIDRETH1 1	0.000000	0.000000	.	.	0.00000	0.000000	.
agecsq*RIDRETH1 2	-0.018880	0.158352	-0.12	0.9065	-0.35297	0.315212	4.98
agecsq*RIDRETH1 3	-0.054754	0.087953	-0.62	0.5418	-0.24032	0.130811	2.10
agecsq*RIDRETH1 4	0.086458	0.089090	0.97	0.3454	-0.10151	0.274422	2.47
agecsq*RIDRETH1 5	0.114801	0.158546	0.72	0.4789	-0.21970	0.449303	5.80
agecsq*RIDRETH1 1	0.000000	0.000000	.	.	0.00000	0.000000	.
agec*RIAGENDR 2	-1.679774	5.734049	-0.29	0.7731	-13.77756	10.418012	4.94
agec*RIAGENDR 1	0.000000	0.000000	.	.	0.00000	0.000000	.
agecsq*RIAGENDR 2	-0.020556	0.084926	-0.24	0.8116	-0.19973	0.158622	4.98
agecsq*RIAGENDR 1	0.000000	0.000000	.	.	0.00000	0.000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**

Use Pfeffermann method (Q weighted)

The SURVEYREG Procedure

Age >=18: 1=Yes 0=No=1

Domain Regression Analysis for Variable bpxdi1_1

Domain Summary	
Number of Observations	6676
Number of Observations in Domain	5112
Number of Observations Not in Domain	1564
Sum of Weights in Domain	6034.1
Weighted Mean of bpxdi1_1	71.20792
Weighted Sum of bpxdi1_1	429678.8

Fit Statistics	
R-Square	0.1446
Root MSE	10.8358
Denominator DF	17

Tests of Model Effects			
Effect	Num DF	F Value	Pr > F
Model	17	5756.23	<.0001
Intercept	1	24227.5	<.0001
RIDRETH1	4	5.49	0.0050
RIAGENDR	1	29.29	<.0001
agec	1	39.79	<.0001
agecsq	1	299.74	<.0001
agec*RIDRETH1	4	3.61	0.0263
agecsq*RIDRETH1	4	6.60	0.0021
agec*RIAGENDR	1	1.69	0.2113
agecsq*RIAGENDR	1	3.15	0.0940

Note:	The denominator degrees of freedom for the F tests is 17.

Estimated Regression Coefficients							
Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Interval		Design Effect
Intercept	75.4133925	0.77347826	97.50	<.0001	73.7814960	77.0452890	1.65
RIDRETH1 2	0.2475892	0.95508043	0.26	0.7986	-1.7674544	2.2626327	1.30
RIDRETH1 3	1.5009990	0.89591109	1.68	0.1122	-0.3892082	3.3912062	1.86
RIDRETH1 4	3.5663901	0.99050596	3.60	0.0022	1.4766052	5.6561750	2.05
RIDRETH1 5	1.2376971	0.89346800	1.39	0.1839	-0.6473556	3.1227498	1.42
RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
RIAGENDR 2	-3.4289996	0.63353841	-5.41	<.0001	-4.7656488	-2.0923504	2.72
RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec	0.0467342	0.04045676	1.16	0.2640	-0.0386221	0.1320905	1.58
agecsq	-0.0148196	0.00168732	-8.78	<.0001	-0.0183795	-0.0112597	0.98
agec*RIDRETH1 2	0.0482448	0.04754675	1.01	0.3245	-0.0520701	0.1485596	1.40

Estimated Regression Coefficients							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**95% Confidence Interval**		**Design Effect**
agec*RIDRETH1 3	-0.0055085	0.05135994	-0.11	0.9158	-0.1138685	0.1028515	2.27
agec*RIDRETH1 4	0.0359587	0.03706581	0.97	0.3456	-0.0422433	0.1141608	1.10
agec*RIDRETH1 5	0.0126690	0.04652266	0.27	0.7887	-0.0854853	0.1108232	1.56
agec*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIDRETH1 2	0.0010371	0.00337264	0.31	0.7622	-0.0060786	0.0081527	2.34
agecsq*RIDRETH1 3	0.0025174	0.00171430	1.47	0.1602	-0.0010994	0.0061343	0.90
agecsq*RIDRETH1 4	-0.0026837	0.00196390	-1.37	0.1896	-0.0068271	0.0014598	1.07
agecsq*RIDRETH1 5	0.0012444	0.00306209	0.41	0.6895	-0.0052160	0.0077048	2.28
agecsq*RIDRETH1 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agec*RIAGENDR 2	0.0343899	0.02647365	1.30	0.2113	-0.0214646	0.0902444	2.85
agec*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.
agecsq*RIAGENDR 2	0.0029241	0.00164840	1.77	0.0940	-0.0005537	0.0064019	3.30
agecsq*RIAGENDR 1	0.0000000	0.00000000	.	.	0.0000000	0.0000000	.

Note:	**The degrees of freedom for the t tests is 17.** **Matrix X'WX is singular and a generalized inverse was used to solve the normal equations. Estimates are not unique.**