

IVEware Analysis Example Replication C12

* IVEware Analysis Examples Replication for ASDA 2nd Edition
* Berglund April 2017
* Chapter 12 ;

```
libname d "P:\asda 2\data sets\nhanes 2011_2012\" ;
```

```
*set options and location to call IVEware from SAS session ;  
options set=srclib "C:\iveware_15feb2017\sas" sasautos=('!srclib' sasautos) maautosource ;  
* system options ;  
options nonumber nodate ps=67 ls=119 ;
```

```
data c12_nhanes ;  
  set d.c12_impute_subset_nhanes1112 ;  
  if age18p=1 and wtme2yr > 0 ;  
  if bpxdil_1 >=90 then high_dbp =1 ; else if . < bpxdil_1 < 90 then high_dbp=0 ; else high_dbp=. ;  
  * reverse coding of class variables to match lowest omitted group of Stata.  
  IVEware omits highest category by default and does not allow user to specify omitted group in code ;  
  rev_race=6-ridreth1 ;  
  rev_gender=3-riagendr ;  
  rev_dbp=2-high_dbp ;  
run ;
```

```
ods rtf style=normalprinter bodytitle ;  
title "Examine Missing Data Problem" ;  
proc mi nimpute=0 ;  
  var bpxdil_1 bmxmbmi indfmpir marcat riagendr ridreth1 agec agecsq wtme2yr descode ;  
run ;
```

```
* Complete Case Analyses, use SAS for weighted means without design based SE's ;  
title "Weighted Complete Case Analysis for Table 12.3" ;  
proc means data=c12_nhanes n nmiss mean ;  
  var bpxdil_1 bmxmbmi indfmpir ;  
  weight wtme2yr ;  
run ;
```

```
title ;  
* IVEware DESCRIBE / TABLE analysis of high blood pressure, note: IVEware does not offer a logit option for CI, use default  
;   
%describe (setup=new, name="Example for Table 12.4" , dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;  
  title "CC Analysis Weighted and Design Based SE for High BP, Table 12.4" ;  
  datain c12_nhanes ;  
  stratum sdmvstra ; cluster sdmvpsu ; weight wtme2yr ;  
  table high_dbp ;  
run;
```

```
%regress (setup=new, name="Logistic Regression for Table 12.5" , dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware  
files) ;  
  title "CC Analysis Logistic Regression for Table 12.5" ;  
  datain c12_nhanes ;  
  stratum sdmvstra ; cluster sdmvpsu ; weight wtme2yr ;  
  class rev_race rev_gender ;  
  dependent rev_dbp ;  
  predictor rev_race rev_gender agec agecsq ;  
  link logistic ;  
run;
```

```
* MI Analyses ;  
* Method 1: with Design Variables in Imputation Model ;  
data c12_nhanes_m1 ;  
  set c12_nhanes ;  
  * keep only variables needed for imputation process ;  
  keep riagendr ridreth1 agec agecsq wtme2yr descode bmxmbmi marcat indfmpir bpxdil_1 sdmvstra sdmvpsu ;  
run ;
```

```
* Use IMPUTE module for imputation and analysis of imputed data sets in IVEware ;  
%impute (setup=new, name="Example MI with Design Variables in Imputation Models" ,  
  dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;  
  title Method 1 with Design Variables in Models, Numbers for Table 12.5 ;  
  datain c12_nhanes_m1 ;  
  dataout outimpml all ;  
  default continuous ;  
  transfer sdmvstra sdmvpsu ;  
  categorical marcat descode riagendr ridreth1 ;  
  bounds bpxdil_1 (>=10, <=120) indfmpir (>=0, <=5) ;  
  multiples 5 ;
```

```

seed 2016 ;
iterations 5 ;
run;

data outimpml ;
set outimpml ;
if bpxdil_1 >=90 then high_dbp =1 ; else if . < bpxdil_1 < 90 then high_dbp=0 ; else high_dbp=. ;
* reverse coding of class variables to match lowest omitted group of Stata.
IVEware omits highest category by default and does not allow user to specify omitted group in code ;
rev_race=6-ridreth1 ;
rev_gender=3-riagendr ;
rev_dbp=2-high_dbp ;
run ;

* Use DESCRIBE to obtain mean by multiple for 3 variables imputed, Numbers for Table 12.3 ;
%describe (setup=new, name="Example MI Method 1 with Design Variable in Models",
dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model) ;
datain outimpml ;
by _mult_ ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmecl2yr ;
mean bmxmbmi indfmpir bpxdil_1 ;
run;

* Use DESCRIBE to analyze and combine results from 5 imputed data sets ;
%describe (setup=new, name="Example MI Method 1 with Design Variable in Models",
dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title High Blood Pressure, Numbers for Table 12.4 MI method 1 (Design Variable in Model) ;
datain outimpml ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmecl2yr ;
table high_dbp ;
run;

%regress (setup=new, name="MI Method 1 with Design Vars Logistic Regression for Table 12.5 ", dir=P:\ASDA 2\Analysis Example
Replication\IVEware\IVEware files) ;
title "MI Method 1 with Design Vars, Logistic Regression for Table 12.5" ;
datain outimpml ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmecl2yr ;
class rev_race rev_gender ;
dependent rev_dbp ;
predictor rev_race rev_gender agec agecsq ;
link logistic ;
run;

* Method 2 : without Design Variables in Imputation Model ;
data c12_nhanes_m2 ;
set c12_nhanes ;
* keep only variables needed for imputation process, remove descode for this method ;
keep riagendr ridreth1 agec agecsq wtmecl2yr bmxmbmi marcat indfmpir bpxdil_1 sdmvstra sdmvpsu ;
run ;

* Use IMPUTE module for imputation and analysis of imputed data sets in IVEware ;
%impute (setup=new, name="Example MI without Design Variables in Imputation Models ",
dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title Method 2 without Design Variables in Models, Numbers for Table 12.5 ;
datain c12_nhanes_m2 ;
dataout outimpm2 all ;
default continuous ;
transfer sdmvstra sdmvpsu ;
categorical marcat riagendr ridreth1 ;
bounds bpxdil_1 (>=10, <=120) indfmpir (>=0, <=5) ;
multiples 5 ;
seed 2016 ;
iterations 5 ;
run;

data outimpm2 ;
set outimpm2 ;
if bpxdil_1 >=90 then high_dbp =1 ; else if . < bpxdil_1 < 90 then high_dbp=0 ; else high_dbp=. ;
* reverse coding of class variables to match lowest omitted group of Stata.
IVEware omits highest category by default and does not allow user to specify omitted group in code ;
rev_race=6-ridreth1 ;
rev_gender=3-riagendr ;
rev_dbp=2-high_dbp ;
run ;

* Use DESCRIBE to analyze and combine results from 5 imputed data sets ;

```

```

%describe (setup=new, name="Example MI Method 2 without Design Variable in Models",
          dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title High Blood Pressure, Numbers for Table 12.4 MI method 2 (NO Design Variable in Model) ;
datain outimp2 ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
table high_dbp ;
run;

%regress (setup=new, name="MI Method 2 without Design Vars Logistic Regression for Table 12.5 ", dir=P:\ASDA 2\Analysis
Example Replication\IVEware\IVEware files) ;
title "MI Method 2 without Design Vars, Logistic Regression for Table 12.5" ;
datain outimp2 ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
class rev_race rev_gender ;
dependent rev_dbp ;
predictor rev_race rev_gender agec agecsq ;
link logistic ;
run;

ods text="No FEFI Available in IVEware" ;

ods rtf close ;

```

Examine Missing Data Problem

The MI Procedure

Model Information	
Data Set	WORK.C12_NHANES
Method	MCMC
Multiple Imputation Chain	Single Chain
Initial Estimates for MCMC	EM Posterior Mode
Start	Starting Value
Prior	Jeffreys
Number of Imputations	0
Number of Burn-in Iterations	200
Number of Iterations	100
Seed for random number generator	589602001

Missing Data Patterns												
Group	bpxdi1_1	bmx bmi	indfmpir	marcat	riagendr	ridreth1	agec	agecsq	wtmec2yr	decode	Freq	Percent
1	X	X	X	X	X	X	X	X	X	X	4416	78.65
2	X	X	X	.	X	X	X	X	X	X	230	4.10
3	X	X	.	X	X	X	X	X	X	X	369	6.57
4	X	X	.	.	X	X	X	X	X	X	31	0.55
5	X	.	X	X	X	X	X	X	X	X	48	0.85
6	X	.	X	.	X	X	X	X	X	X	6	0.11
7	X	.	.	X	X	X	X	X	X	X	12	0.21
8	.	X	X	X	X	X	X	X	X	X	386	6.87
9	.	X	X	.	X	X	X	X	X	X	22	0.39
10	.	X	.	X	X	X	X	X	X	X	62	1.10
11	.	X	.	.	X	X	X	X	X	X	9	0.16
12	.	.	X	X	X	X	X	X	X	X	18	0.32
13	.	.	X	.	X	X	X	X	X	X	2	0.04
14	.	.	.	X	X	X	X	X	X	X	4	0.07

Missing Data Patterns											
Group	Group Means										
	bpxdi1_1	bmx bmi	indfmpir	marcat	riagendr	ridreth1	agec	agecsq	wtmec2yr	decode	
1	71.566123	28.783243	2.444812	1.652400	1.498641	3.303895	2.017802	315.481111	43501	960.012908	
2	62.234783	25.503478	1.606304	.	1.473913	3.186957	-27.811681	773.737724	27595	962.830435	
3	71.495935	27.984011	.	1.685637	1.463415	3.409214	5.590640	365.713016	31449	960.598916	
4	60.516129	25.967742	.	.	1.516129	3.645161	-24.613224	784.324845	26241	959.193548	
5	69.458333	.	1.978750	1.687500	1.479167	3.145833	11.874007	456.168680	31873	971.375000	
6	49.333333	.	0.561667	.	2.000000	2.833333	-27.688493	766.874858	17700	966.833333	
7	66.666667	.	.	1.916667	1.583333	3.333333	12.811507	440.273597	20355	972.500000	
8	.	29.594560	2.159689	1.639896	1.621762	3.217617	1.046395	313.345611	40647	959.948187	
9	.	28.477273	1.695455	.	1.454545	3.136364	-27.627887	763.498474	29447	961.590909	
10	.	27.659677	.	1.419355	1.580645	3.451613	6.967421	323.666696	32778	959.919355	
11	.	27.111111	.	.	1.444444	2.333333	-17.021826	710.631456	15863	968.444444	
12	.	.	2.062222	1.666667	1.888889	3.666667	5.089285	401.258831	35520	967.111111	
13	.	.	0.670000	.	2.000000	4.500000	-27.855160	776.159912	14766	991.500000	
14	.	.	.	1.500000	1.250000	3.000000	16.394840	594.478257	18287	921.750000	

Weighted Complete Case Analysis for Table 12.3

The MEANS Procedure

Variable	Label	N	N Miss	Mean
bpxdi_1		5112	503	71.6087722
bmx bmi	Body Mass Index (kg/m**2)	5525	90	28.6232688
indfmpir	Ratio of family income to poverty	5128	487	2.8592364

Setup listing:

```

title "CC Analysis Weighted and Design Based SE for High BP, Table 12.4" ;
datain c12_nhanes ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmecl2yr ;
table high_dbp ;
run;
    
```

"CC Analysis Weighted and Design Based SE for High BP, Table 12.4"

```

Stratum variable:      sdmvstra  Masked variance pseudo-stratum
Cluster variable:     sdmvpsu   Masked variance pseudo-PSU
Weight variable:      wtmecl2yr Full sample 2 year MEC exam weight
    
```

Analysis description:

```

      4  Variables
     14  Strata
     31  Secus

Strata Model
     14  Multiple PSU
      0  Paired Selection
      0  Successive Differences

    5615  Cases Read
    
```

"CC Analysis Weighted and Design Based SE for High BP, Table 12.4"

Problem 1

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06202			
Table	Number of	Sum of	Weighted	Standard
high_dbp	Cases	Weights	Proportion	Error
0	4795	1.998083e+008	0.93918	0.00796
1	317	1.293962e+007	0.06082	0.00796
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
0	0.92238	0.95598	117.95128	0.00000
1	0.04402	0.07762	7.63854	0.00000
	Unweighted	Bias	Design	
	Proportion		Effect	
0	0.93799	-0.12666	5.67274	
1	0.06201	1.95590	5.67274	

Setup listing:

```
title "CC Analysis Logistic Regression for Table 12.5" ;
datain c12_nhanes ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmecl2yr ;
class rev_race rev_gender ;
dependent rev_dbp ;
predictor rev_race rev_gender agec agecsq ;
link logistic ;
run;
```

"CC Analysis Logistic Regression for Table 12.5"

Regression type: Logistic
 Dependent variable: rev_dbp
 Predictors: rev_race
 rev_gender
 agec
 agecsq
 Cat. var. ref. codes: rev_race 5
 rev_gender 2
 rev_dbp 2
 Stratum variable: sdmvstra Masked variance pseudo-stratum
 Cluster variable: sdmvpsu Masked variance pseudo-PSU
 Weight variable: wtmecl2yr Full sample 2 year MEC exam weight

Valid cases 5112
 Sum weights 212747914.3
 Replicates 17
 Degr freedom 17
 -2 LogLike 93637927.65

Variable	Estimate	Std Error	T Test	Prob > T
Intercept	-2.2498852	0.1851925	-12.14890	0.00000
rev_race.1	0.0498803	0.2525815	0.19748	0.84579
rev_race.2	0.6582416	0.2243621	2.93384	0.00927
rev_race.3	0.1312534	0.2386519	0.54998	0.58949
rev_race.4	-0.7256814	0.2344287	-3.09553	0.00657
rev_gender	-0.5467630	0.2226645	-2.45555	0.02513
agec	0.0084599	0.0079280	1.06710	0.30085
agecsq	-0.0016157	0.0003032	-5.32951	0.00006

Variable	Odds Ratio	95% Confidence Interval	
		Lower	Upper
Intercept			
rev_race.1	1.0511452	0.6169174	1.7910117
rev_race.2	1.9313932	1.2030728	3.1006266
rev_race.3	1.1402567	0.6891763	1.8865789
rev_race.4	0.4839947	0.2951467	0.7936760
rev_gender	0.5788204	0.3618433	0.9259067
agec	1.0084958	0.9917675	1.0255063
agecsq	0.9983856	0.9977472	0.9990244

Variable	Design Effect	SRS	% Diff
		Estimate	SRS v Est
Intercept	0.71443	-2.3467126	4.30366
rev_race.1	0.97418	0.2775493	456.43117
rev_race.2	0.93811	0.7530974	14.41049
rev_race.3	1.03234	0.2551449	94.39100
rev_race.4	0.50129	-0.4043647	-44.27793
rev_gender	3.38419	-0.5708307	4.40187
agec	3.69982	0.0140019	65.50856

"CC Analysis Logistic Regression for Table 12.5"

Variable	Design Effect	SRS	% Diff
		Estimate	SRS v Est
agecsq	1.67952	-0.0017603	8.94958

Setup listing:

```

title Method 1 with Design Variables in Models, Numbers for Table 12.5 ;
datain c12_nhanes_ml ;
dataout outimpml all ;
default continuous ;
transfer sdmvstra sdmvpsu ;
categorical marcat descodes riagendr ridreth1 ;
bounds bpxdil_1 (>=10, <=120) indfmpir (>=0, <=5) ;
multiples 5 ;
seed 2016 ;
iterations 5 ;
run;

```

Method 1 with Design Variables in Models, Numbers for Table 12.5

Imputation 1

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmxbmi	5525	90	0
marcat	5315	300	0
descodes	5615	0	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable indfmpir

	Observed	Imputed	Combined
Number	5128	487	5615
Minimum	0	0.0154413	0
Maximum	5	4.99035	5
Mean	2.37393	2.50006	2.38487
Std Dev	1.66622	1.2274	1.63314

Variable bmxbmi

	Observed	Imputed	Combined
Number	5525	90	5615
Minimum	13.4	9.86825	9.86825
Maximum	82.1	43.0532	82.1
Mean	28.6177	29.2882	28.6284
Std Dev	6.92018	7.13963	6.92361

Variable marcat

Code	Observed		Imputed		Combined	
	Freq	Per	Freq	Per	Freq	Per
1	2991	56.27	87	29.00	3078	54.82
2	1183	22.26	3	1.00	1186	21.12
3	1141	21.47	210	70.00	1351	24.06
Total	5315	100.00	300	100.00	5615	100.00

Variable bpxdil_1

	Observed	Imputed	Combined
Number	5112	503	5615
Minimum	10	34.9502	10
Maximum	120	108.189	120
Mean	71.0168	72.0131	71.1061
Std Dev	11.9403	12.1498	11.9615

Method 1 with Design Variables in Models, Numbers for Table 12.5

Imputation 2

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmxbmi	5525	90	0
marcat	5315	300	0
descode	5615	0	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	indfmpir	Observed	Imputed	Combined
Number		5128	487	5615
Minimum		0	0.0301694	0
Maximum		5	4.98011	5
Mean		2.37393	2.49276	2.38423
Std Dev		1.66622	1.16482	1.62912

Variable	bmxbmi	Observed	Imputed	Combined
Number		5525	90	5615
Minimum		13.4	9.09624	9.09624
Maximum		82.1	44.2379	82.1
Mean		28.6177	28.4866	28.6156
Std Dev		6.92018	5.88409	6.90437

Variable	marcat	Observed	Imputed	Combined			
	Code	Freq	Per	Freq	Per	Freq	Per
	1	2991	56.27	77	25.67	3068	54.64
	2	1183	22.26	8	2.67	1191	21.21
	3	1141	21.47	215	71.67	1356	24.15
	Total	5315	100.00	300	100.00	5615	100.00

Variable	bpxdil_1	Observed	Imputed	Combined
Number		5112	503	5615
Minimum		10	37.5689	10
Maximum		120	105.401	120
Mean		71.0168	71.6962	71.0777
Std Dev		11.9403	12.051	11.9507

Method 1 with Design Variables in Models, Numbers for Table 12.5

Imputation 3

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmxbmi	5525	90	0
marcat	5315	300	0
descode	5615	0	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
Number	5128	487	5615
Minimum	0	0.00700819	0
Maximum	5	4.97921	5
Mean	2.37393	2.48681	2.38372
Std Dev	1.66622	1.26528	1.63556

Variable	Observed	Imputed	Combined
Number	5525	90	5615
Minimum	13.4	11.0043	11.0043
Maximum	82.1	45.5745	82.1
Mean	28.6177	28.5465	28.6165
Std Dev	6.92018	7.24301	6.9248

Variable	Observed		Imputed		Combined	
Code	Freq	Per	Freq	Per	Freq	Per
1	2991	56.27	78	26.00	3069	54.66
2	1183	22.26	6	2.00	1189	21.18
3	1141	21.47	216	72.00	1357	24.17
Total	5315	100.00	300	100.00	5615	100.00

Variable	Observed	Imputed	Combined
Number	5112	503	5615
Minimum	10	35.6651	10
Maximum	120	114.769	120
Mean	71.0168	71.4865	71.0589
Std Dev	11.9403	12.6099	12.0014

Method 1 with Design Variables in Models, Numbers for Table 12.5

Imputation 4

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmxbmi	5525	90	0
marcat	5315	300	0
descode	5615	0	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
Number	5128	487	5615
Minimum	0	0.00782548	0
Maximum	5	4.96337	5
Mean	2.37393	2.41774	2.37773
Std Dev	1.66622	1.23667	1.6334

Variable	Observed	Imputed	Combined
Number	5525	90	5615
Minimum	13.4	8.92426	8.92426
Maximum	82.1	43.7886	82.1
Mean	28.6177	28.9998	28.6238
Std Dev	6.92018	5.99381	6.90601

Variable	Observed		Imputed		Combined	
Code	Freq	Per	Freq	Per	Freq	Per
1	2991	56.27	75	25.00	3066	54.60
2	1183	22.26	6	2.00	1189	21.18
3	1141	21.47	219	73.00	1360	24.22
Total	5315	100.00	300	100.00	5615	100.00

Variable	Observed	Imputed	Combined
Number	5112	503	5615
Minimum	10	41.3492	10
Maximum	120	109.157	120
Mean	71.0168	72.3044	71.1322
Std Dev	11.9403	12.0558	11.9553

Method 1 with Design Variables in Models, Numbers for Table 12.5

Imputation 5

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmxbmi	5525	90	0
marcat	5315	300	0
descode	5615	0	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
Number	5128	487	5615
Minimum	0	0.00514882	0
Maximum	5	4.98837	5
Mean	2.37393	2.50832	2.38558
Std Dev	1.66622	1.24774	1.63452

Variable	Observed	Imputed	Combined
Number	5525	90	5615
Minimum	13.4	13.6249	13.4
Maximum	82.1	46.859	82.1
Mean	28.6177	28.8649	28.6216
Std Dev	6.92018	6.16482	6.9083

Variable	Observed		Imputed		Combined	
Code	Freq	Per	Freq	Per	Freq	Per
1	2991	56.27	68	22.67	3059	54.48
2	1183	22.26	5	1.67	1188	21.16
3	1141	21.47	227	75.67	1368	24.36
Total	5315	100.00	300	100.00	5615	100.00

Variable	Observed	Imputed	Combined
Number	5112	503	5615
Minimum	10	31.025	10
Maximum	120	112.425	120
Mean	71.0168	71.1062	71.0248
Std Dev	11.9403	12.7706	12.0159

Setup listing:

```
title Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1
(Design Variable in Model) ;
datain outimpml ;
by _mult_ ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
mean bmx bmi indfmpir bpxdil_1 ;
run;
```

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable

```
By variables:          _mult_
Stratum variable:     sdmvstra  Masked variance pseudo-stratum
Cluster variable:     sdmvpsu   Masked variance pseudo-PSU
Weight variable:      wtmec2yr  Full sample 2 year MEC exam weight
```

Analysis description:

```
    7  Variables
   14  Strata
   31  Secus

Strata Model
   14  Multiple PSU
    0  Paired Selection
    0  Successive Differences

28075  Cases Read
```

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

By Condition

mult 1

Problem 1

Degrees of freedom

17

Factor Covariance of denominator
None 0.06037

Mean	Number of	Sum of	Weighted	Standard
bmx bmi	Cases	Weights	Mean	Error
	5615	2.320025e+008	28.6275	0.2165521

Lower	Upper	T Test	Prob > T
Bound	Bound		
28.17061	29.08438	132.19681	0.00000

Unweighted	Bias	Design
Mean		Effect
28.62841	0.00320	5.86963

By Condition

mult 1

Problem 2

Degrees of freedom

17

Factor Covariance of denominator
None 0.06037

Mean	Number of	Sum of	Weighted	Standard
indfmpir	Cases	Weights	Mean	Error
	5615	2.320025e+008	2.847165	0.1022661

Lower	Upper	T Test	Prob > T
Bound	Bound		
2.631403	3.062928	27.84076	0.00000

Unweighted	Bias	Design
Mean		Effect
2.384865	-16.23720	21.00653

By Condition

mult 1

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 3

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bpxdil_1	Cases	Weights	Mean	Error
	5615	2.320025e+008	71.71603	0.5106929
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	70.63856	72.7935	140.42888	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	71.10607	-0.85051	11.13053	

By Condition

mult / 2

Problem 4

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bmx bmi	Cases	Weights	Mean	Error
	5615	2.320025e+008	28.62488	0.2106929
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	28.18036	29.0694	135.86070	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	28.61556	-0.03255	5.58416	

By Condition

mult / 2

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 5

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
indfmpir	Cases	Weights	Mean	Error
	5615	2.320025e+008	2.852833	0.1022824
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	2.637036	3.06863	27.89173	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	2.384233	-16.42580	21.18078	

By Condition

_mult_2

Problem 6

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bpxdil_1	Cases	Weights	Mean	Error
	5615	2.320025e+008	71.60925	0.471935
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	70.61356	72.60495	151.73542	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	71.07768	-0.74233	9.45855	

By Condition

_mult_3

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 7

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bmx bm i	Cases	Weights	Mean	Error
	5615	2.320025e+008	28.61818	0.2084342
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	28.17843	29.05794	137.30078	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	28.61653	-0.00579	5.43529	

By Condition

_mult_3

Problem 8

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
indf mp ir	Cases	Weights	Mean	Error
	5615	2.320025e+008	2.847242	0.1031242
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	2.629669	3.064815	27.60984	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	2.383716	-16.27982	21.37862	

By Condition

_mult_3

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 9

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bpxdil_1	Cases	Weights	Mean	Error
	5615	2.320025e+008	71.70987	0.5074674
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	70.63921	72.78053	141.30933	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	71.05889	-0.90779	10.83465	

By Condition

mult
4

Problem 10

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bmx bmi	Cases	Weights	Mean	Error
	5615	2.320025e+008	28.62195	0.2096277
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	28.17967	29.06422	136.53703	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	28.62379	0.00644	5.53040	

By Condition

mult
4

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 11

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
indfmpir	Cases	Weights	Mean	Error
	5615	2.320025e+008	2.84486	0.1016688
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	2.630358	3.059362	27.98164	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	2.377726	-16.42029	20.79663	

By Condition

_mult_4

Problem 12

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bpxdil_1	Cases	Weights	Mean	Error
	5615	2.320025e+008	71.61934	0.5071962
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	70.54925	72.68943	141.20636	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	71.13216	-0.68023	10.95244	

By Condition

_mult_5

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 13

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bmx bm i	Cases	Weights	Mean	Error
	5615	2.320025e+008	28.62826	0.212136
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	28.18069	29.07583	134.95239	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	28.62163	-0.02317	5.66285	

By Condition

_mult
5

Problem 14

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
indf mp ir	Cases	Weights	Mean	Error
	5615	2.320025e+008	2.852655	0.1021378
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	2.637163	3.068147	27.92947	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	2.385582	-16.37328	21.00015	

By Condition

_mult
5

Numbers for 3 Imputed Variables by Multiple, Table 12.3 MI method 1 (Design Variable in Model)

Problem 15

Degrees of freedom

17

Factor	Covariance of denominator			
None	0.06037			
Mean	Number of	Sum of	Weighted	Standard
bpxdil_1	Cases	Weights	Mean	Error
	5615	2.320025e+008	71.59756	0.5198232
	Lower	Upper	T Test	Prob > T
	Bound	Bound		
	70.50083	72.69429	137.73445	0.00000
	Unweighted	Bias	Design	
	Mean		Effect	
	71.02483	-0.79993	11.34789	

Setup listing:

```

title High Blood Pressure, Numbers for Table 12.4 MI method 1 (Design Variable
in Model) ;
datain outimpml ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtme2yr ;
table high_dbp ;
run;
    
```

High Blood Pressure, Numbers for Table 12.4 MI method 1 (Design Variable in Model)

Stratum variable: sdmvstra Masked variance pseudo-stratum
 Cluster variable: sdmvpsu Masked variance pseudo-PSU
 Weight variable: wtme2yr Full sample 2 year MEC exam weight

Analysis description:

```

4 Variables
14 Strata
31 Secus

Strata Model
14 Multiple PSU
0 Paired Selection
0 Successive Differences

28075 Cases Read
    
```

High Blood Pressure, Numbers for Table 12.4 MI method 1 (Design Variable in Model)

Problem 1

Degrees of freedom

17

Factor Covariance of denominator
 None 0.06037

Table	Number of	Sum of	Weighted	Standard
high_dbp	Cases	Weights	Proportion	Error
0	26321	1.088835e+009	0.93864	0.00758
1	1754	7.117777e+007	0.06136	0.00758

	Lower	Upper	T Test	Prob > T
	Bound	Bound		
0	0.92265	0.95463	123.86238	0.00000
1	0.04537	0.07735	8.09696	0.00000

	Unweighted	Bias	Design
	Proportion		Effect
0	0.93752	-0.11890	27.99259
1	0.06248	1.81885	27.99259

Setup listing:

```

title "MI Method 1 with Design Vars, Logistic Regression for Table 12.5" ;
datain outimpml ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmecl2yr ;
class rev_race rev_gender ;
dependent rev_dbp ;
predictor rev_race rev_gender agec agecsq ;
link logistic ;
run;
    
```

"MI Method 1 with Design Vars, Logistic Regression for Table 12.5"

```

Regression type:      Logistic
Dependent variable:  rev_dbp
Predictors:          rev_race
                   rev_gender
                   agec
                   agecsq
Cat. var. ref. codes: rev_race 5
                   rev_gender 2
                   rev_dbp 2
Stratum variable:    sdmvstra Masked variance pseudo-stratum
Cluster variable:    sdmvpsu  Masked variance pseudo-PSU
Weight variable:     wtmecl2yr Full sample 2 year MEC exam weight
    
```

```

Valid cases          28075
Sum weights          1160012695
Replicates           17
    
```

Degr freedom 17

-2 LogLike 512659071.8

Variable	Estimate	Std Error	T Test	Prob > T
Intercept	-2.2449412	0.1843422	-12.17812	0.00000
rev_race.1	0.1409756	0.2385482	0.59097	0.56231
rev_race.2	0.6590560	0.2206014	2.98754	0.00827
rev_race.3	0.1709951	0.2255394	0.75816	0.45874
rev_race.4	-0.6198303	0.2209709	-2.80503	0.01218
rev_gender	-0.5528237	0.2125988	-2.60031	0.01867
agec	0.0093629	0.0072934	1.28376	0.21645
agecsq	-0.0017257	0.0002770	-6.22923	0.00001

Variable	Odds Ratio	95% Confidence Interval	
		Lower	Upper
Intercept			
rev_race.1	1.1513965	0.6960615	1.9045931
rev_race.2	1.9329668	1.2136442	3.0786293
rev_race.3	1.1864849	0.7372328	1.9095004
rev_race.4	0.5380357	0.3375511	0.8575958
rev_gender	0.5753230	0.3673765	0.9009736
agec	1.0094069	0.9939934	1.0250594
agecsq	0.9982758	0.9976925	0.9988594

Variable	Design Effect	SRS Estimate	% Diff SRS v Est
Intercept	3.86087	-2.3483848	4.60785
rev_race.1	4.83085	0.3551100	151.89478
rev_race.2	4.94321	0.7541703	14.43189
rev_race.3	5.05547	0.2997473	75.29586
rev_race.4	2.50532	-0.3369218	-45.64289
rev_gender	17.26219	-0.5641468	2.04823
agec	16.87164	0.0145980	55.91256

"MI Method 1 with Design Vars, Logistic Regression for Table 12.5"

Variable	Design Effect	SRS Estimate	% Diff SRS v Est
agecsq	7.59452	-0.0018434	6.81885

Setup listing:

```

title Method 2 without Design Variables in Models, Numbers for Table 12.5 ;
datain c12_nhanes_m2 ;
dataout outimp2 all ;
default continuous ;
transfer sdmvstra sdmvpsu ;
categorical marcat riagendr ridreth1 ;
bounds bpxdil_1 (>=10, <=120) indfmpir (>=0, <=5) ;
multiples 5 ;
seed 2016 ;
iterations 5 ;
run;

```

Method 2 without Design Variables in Models, Numbers for Table 12.5

Imputation 1

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmxbmi	5525	90	0
marcat	5315	300	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
Number	5128	487	5615
Minimum	0	0.032626	0
Maximum	5	4.93685	5
Mean	2.37393	2.42202	2.3781
Std Dev	1.66622	1.18697	1.63022

Variable	Observed	Imputed	Combined
Number	5525	90	5615
Minimum	13.4	8.52327	8.52327
Maximum	82.1	49.6352	82.1
Mean	28.6177	28.5267	28.6162
Std Dev	6.92018	7.30523	6.92584

Variable	Observed		Imputed		Combined	
Code	Freq	Per	Freq	Per	Freq	Per
1	2991	56.27	72	24.00	3063	54.55
2	1183	22.26	4	1.33	1187	21.14
3	1141	21.47	224	74.67	1365	24.31
Total	5315	100.00	300	100.00	5615	100.00

Variable	Observed	Imputed	Combined
Number	5112	503	5615
Minimum	10	35.4098	10
Maximum	120	113.428	120
Mean	71.0168	70.9421	71.0101
Std Dev	11.9403	12.4594	11.9866

Method 2 without Design Variables in Models, Numbers for Table 12.5

Imputation 2

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmbxmi	5525	90	0
marcat	5315	300	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
indfmpir			
Number	5128	487	5615
Minimum	0	0.010699	0
Maximum	5	4.96541	5
Mean	2.37393	2.31538	2.36885
Std Dev	1.66622	1.25736	1.63481

Variable	Observed	Imputed	Combined
bmbxmi			
Number	5525	90	5615
Minimum	13.4	3.11599	3.11599
Maximum	82.1	43.2074	82.1
Mean	28.6177	28.3937	28.6141
Std Dev	6.92018	7.58684	6.93069

Variable	Observed		Imputed		Combined	
marcat	Code	Freq Per	Freq Per	Freq Per	Freq Per	
	1	2991 56.27	82 27.33	3073 54.73		
	2	1183 22.26	5 1.67	1188 21.16		
	3	1141 21.47	213 71.00	1354 24.11		
	Total	5315 100.00	300 100.00	5615 100.00		

Variable	Observed	Imputed	Combined
bpxdil_1			
Number	5112	503	5615
Minimum	10	32.7419	10
Maximum	120	111.713	120
Mean	71.0168	69.9168	70.9183
Std Dev	11.9403	12.4536	11.9901

Method 2 without Design Variables in Models, Numbers for Table 12.5

Imputation 3

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmbxmi	5525	90	0
marcat	5315	300	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
indfmpir			
Number	5128	487	5615
Minimum	0	0.0368445	0
Maximum	5	4.99707	5
Mean	2.37393	2.38845	2.37518
Std Dev	1.66622	1.21403	1.63189

Variable	Observed	Imputed	Combined
bmbxmi			
Number	5525	90	5615
Minimum	13.4	11.3713	11.3713
Maximum	82.1	39.5287	82.1
Mean	28.6177	27.9791	28.6074
Std Dev	6.92018	6.04115	6.90696

Variable	Observed		Imputed		Combined	
marcat	Code	Freq Per	Freq Per	Freq Per	Freq Per	Freq Per
	1	2991 56.27	79 26.33	3070 54.67		
	2	1183 22.26	2 0.67	1185 21.10		
	3	1141 21.47	219 73.00	1360 24.22		
	Total	5315 100.00	300 100.00	5615 100.00		

Variable	Observed	Imputed	Combined
bpxdil_1			
Number	5112	503	5615
Minimum	10	36.1256	10
Maximum	120	101.034	120
Mean	71.0168	69.9444	70.9208
Std Dev	11.9403	11.7412	11.9255

Method 2 without Design Variables in Models, Numbers for Table 12.5

Imputation 4

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmbxmi	5525	90	0
marcat	5315	300	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
Number	5128	487	5615
Minimum	0	0.0545825	0
Maximum	5	4.99655	5
Mean	2.37393	2.40867	2.37694
Std Dev	1.66622	1.22086	1.63235

Variable	Observed	Imputed	Combined
Number	5525	90	5615
Minimum	13.4	10.6167	10.6167
Maximum	82.1	44.2962	82.1
Mean	28.6177	29.0727	28.625
Std Dev	6.92018	7.04733	6.92183

Variable	Observed		Imputed		Combined	
Code	Freq	Per	Freq	Per	Freq	Per
1	2991	56.27	74	24.67	3065	54.59
2	1183	22.26	6	2.00	1189	21.18
3	1141	21.47	220	73.33	1361	24.24
Total	5315	100.00	300	100.00	5615	100.00

Variable	Observed	Imputed	Combined
Number	5112	503	5615
Minimum	10	33.2953	10
Maximum	120	101.932	120
Mean	71.0168	70.4069	70.9622
Std Dev	11.9403	11.7659	11.925

Method 2 without Design Variables in Models, Numbers for Table 12.5

Imputation 5

Variable	Observed	Imputed	Double counted
riagendr	5615	0	0
ridreth1	5615	0	0
wtmec2yr	5615	0	0
indfmpir	5128	487	0
bmbxmi	5525	90	0
marcat	5315	300	0
bpxdil_1	5112	503	0
agec	5615	0	0
agecsq	5615	0	0

Variable	Observed	Imputed	Combined
indfmpir			
Number	5128	487	5615
Minimum	0	0.0130819	0
Maximum	5	4.92415	5
Mean	2.37393	2.37894	2.37436
Std Dev	1.66622	1.23398	1.63318

Variable	Observed	Imputed	Combined
bmbxmi			
Number	5525	90	5615
Minimum	13.4	11.2722	11.2722
Maximum	82.1	44.003	82.1
Mean	28.6177	28.3713	28.6137
Std Dev	6.92018	6.20574	6.90888

Variable	Observed		Imputed		Combined	
marcat	Code	Freq Per	Freq Per	Freq Per	Freq Per	
	1	2991 56.27	80 26.67	3071 54.69		
	2	1183 22.26	5 1.67	1188 21.16		
	3	1141 21.47	215 71.67	1356 24.15		
	Total	5315 100.00	300 100.00	5615 100.00		

Variable	Observed	Imputed	Combined
bpxdil_1			
Number	5112	503	5615
Minimum	10	30.0288	10
Maximum	120	118.165	120
Mean	71.0168	71.2004	71.0333
Std Dev	11.9403	12.2105	11.9638

Setup listing:

```

title High Blood Pressure, Numbers for Table 12.4 MI method 2 (NO Design
Variable in Model) ;
datain outimp2 ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtmec2yr ;
table high_dbp ;
run;
    
```

High Blood Pressure, Numbers for Table 12.4 MI method 2 (NO Design Variable in Model)

```

Stratum variable:      sdmvstra  Masked variance pseudo-stratum
Cluster variable:     sdmvpsu   Masked variance pseudo-PSU
Weight variable:      wtmec2yr  Full sample 2 year MEC exam weight
    
```

Analysis description:

```

      4  Variables
     14  Strata
     31  Secus

Strata Model
     14  Multiple PSU
      0  Paired Selection
      0  Successive Differences

28075  Cases Read
    
```

High Blood Pressure, Numbers for Table 12.4 MI method 2 (NO Design Variable in Model)

Problem 1

Degrees of freedom

17

```

Factor   Covariance of denominator
None     0.06037
    
```

Table	Number of	Sum of	Weighted	Standard
high_dbp	Cases	Weights	Proportion	Error
0	26345	1.089829e+009	0.93950	0.00731
1	1730	7.018384e+007	0.06050	0.00731

	Lower	Upper	T Test	Prob > T
	Bound	Bound		
0	0.92407	0.95492	128.48204	0.00000
1	0.04508	0.07593	8.27411	0.00000

	Unweighted	Bias	Design
	Proportion		Effect
0	0.93838	-0.11900	26.40831
1	0.06162	1.84787	26.40831

Setup listing:

```

title "MI Method 2 without Design Vars, Logistic Regression for Table 12.5" ;
datain outimp2 ;
stratum sdmvstra ; cluster sdmvpsu ; weight wtme2yr ;
class rev_race rev_gender ;
dependent rev_dbp ;
predictor rev_race rev_gender agec agecsq ;
link logistic ;
run;
    
```

"MI Method 2 without Design Vars, Logistic Regression for Table 12.5"

```

Regression type:      Logistic
Dependent variable:  rev_dbp
Predictors:          rev_race
                   rev_gender
                   agec
                   agecsq
Cat. var. ref. codes:  rev_race 5
                   rev_gender 2
                   rev_dbp 2
Stratum variable:    sdmvstra Masked variance pseudo-stratum
Cluster variable:    sdmvpsu  Masked variance pseudo-PSU
Weight variable:     wtme2yr  Full sample 2 year MEC exam weight
    
```

```

Valid cases          28075
Sum weights          1160012695
Replicates           17

Degr freedom         17

-2 LogLike           507637784.9
    
```

Variable	Estimate	Std Error	T Test	Prob > T
Intercept	-2.1781243	0.1687071	-12.91069	0.00000
rev_race.1	0.0044023	0.2165026	0.02033	0.98401
rev_race.2	0.5939946	0.2144136	2.77032	0.01310
rev_race.3	0.0769777	0.2210660	0.34821	0.73196
rev_race.4	-0.7188328	0.2112862	-3.40218	0.00339
rev_gender	-0.5628732	0.2009012	-2.80174	0.01226
agec	0.0093385	0.0070922	1.31672	0.20541
agecsq	-0.0016865	0.0002912	-5.79239	0.00002

Variable	Odds Ratio	95% Confidence Interval	
		Lower	Upper
Intercept			
rev_race.1	1.0044120	0.6361134	1.5859489
rev_race.2	1.8112090	1.1521402	2.8472905
rev_race.3	1.0800180	0.6774423	1.7218276
rev_race.4	0.4873207	0.3120450	0.7610488
rev_gender	0.5695702	0.3727908	0.8702205
agec	1.0093822	0.9943909	1.0245995
agecsq	0.9983149	0.9977019	0.9989284

Variable	Design Effect	SRS	% Diff
		Estimate	SRS v Est
Intercept	3.41993	-2.2819725	4.76778
rev_race.1	4.06901	0.2120586	4717.04098
rev_race.2	4.91530	0.6824068	14.88434
rev_race.3	5.08085	0.1984507	157.80284
rev_race.4	2.33492	-0.4217491	-41.32862
rev_gender	15.20044	-0.5703297	1.32472
agec	15.80973	0.0150669	61.34213

"MI Method 2 without Design Vars, Logistic Regression for Table 12.5"

Variable	Design Effect	SRS	% Diff
		Estimate	SRS v Est
agecsq	8.37924	-0.0018071	7.15228

No FEFI Available in IVEware