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name: <unnamed>
log: D:\Jason\workshop\Introduction to Stata Analysis\Introduction to Stata Analysis2.log
log type: text
opened on: 5 Jun 2023, 11:04:21

```

```

. *****
. * This command file demonstrate the steps of determining if gender is a significant predictor of health.
. * Respondent's age is used as another independent variable and the control variable is whether respondents
. * live in a city or rural area
. *****

```

```

. use http://www.stata-press.com/data/r13/nhanes2f, clear

```

```

. *****
. * check the data and the number of observations
. *****
. des, short

```

```

Contains data from http://www.stata-press.com/data/r13/nhanes2f.dta

```

```

obs: 10,337
vars: 58 12 May 2012 13:32
size: 1,106,059
Sorted by:

```

```

. count
10,337

```

```

. *****
. * Select variables
. *****
. keep health agegrp female rural psuid finalwgt stratid

```

```

. *****
. * Check the distribution of variables
. *****
. des health agegrp female rural psuid finalwgt stratid

```

variable name	storage type	display format	value label	variable label
health	byte	%9.0g	hlthgrp	1=poor,..., 5=excellent
agegrp	byte	%8.0g	agegrp	Age groups 1-6
female	byte	%8.0g		1=female, 0=male
rural	byte	%8.0g		1=rural, 0=urban
psuid	byte	%9.0g		primary sampling unit, 1 or 2
finalwgt	long	%9.0g		sampling weight (except lead)
stratid	byte	%9.0g		stratum identifier, 1-32

```

. sum health agegrp female rural psuid finalwgt stratid

```

Variable	Obs	Mean	Std. Dev.	Min	Max
health	10,335	3.413836	1.206196	1	5
agegrp	10,337	3.35668	1.735954	1	6
female	10,337	.525104	.4993935	0	1
rural	10,337	.3673213	.4820984	0	1
psuid	10,337	1.482151	.4997055	1	2

```

finalwgt |    10,337    11320.85    7304.457    2000    79634
stratid  |    10,337    16.65986    9.499389     1     32

```

```
. tab1 health agegrp female rural, mis
```

```
-> tabulation of health
```

```

1=poor,..., |
5=excellent |
-----+-----

```

	Freq.	Percent	Cum.
poor	729	7.05	7.05
fair	1,670	16.16	23.21
average	2,938	28.42	51.63
good	2,591	25.07	76.70
excellent	2,407	23.29	99.98
.	2	0.02	100.00
-----+-----			
Total	10,337	100.00	

```
-> tabulation of agegrp
```

```

Age groups |
1-6 |
-----+-----

```

	Freq.	Percent	Cum.
age20-29	2,320	22.44	22.44
age30-39	1,621	15.68	38.13
age40-49	1,270	12.29	50.41
age50-59	1,289	12.47	62.88
age60-69	2,852	27.59	90.47
age 70+	985	9.53	100.00
-----+-----			
Total	10,337	100.00	

```
-> tabulation of female
```

```

1=female, |
0=male |
-----+-----

```

	Freq.	Percent	Cum.
0	4,909	47.49	47.49
1	5,428	52.51	100.00
-----+-----			
Total	10,337	100.00	

```
-> tabulation of rural
```

```

1=rural, |
0=urban |
-----+-----

```

	Freq.	Percent	Cum.
0	6,540	63.27	63.27
1	3,797	36.73	100.00
-----+-----			
Total	10,337	100.00	

```

.
.
. *****
. * Create missing values on two variable (i.e., health and agegrp)
. * for demonstrating how to use the -mi impute command
. *****
.

```

```
. set seed 98034
```

```
. generate u1 = runiform()
```

```
. tab1 u1, mis
```

```
-> tabulation of u1
```

ul	Freq.	Percent	Cum.
.0000502	1	0.01	0.01
.0004888	1	0.01	0.02
.0006002	1	0.01	0.03
.0006598	1	0.01	0.04
.0007164	1	0.01	0.05
.0007721	1	0.01	0.06
.0009151	1	0.01	0.07
.0010814	1	0.01	0.08
.0013412	1	0.01	0.09
.0016066	1	0.01	0.10
.0018012	1	0.01	0.11
.0018606	1	0.01	0.12
.00196	1	0.01	0.13
.0019791	1	0.01	0.14
.0021068	1	0.01	0.15
.0021446	1	0.01	0.15
.0021654	1	0.01	0.16
.0023327	1	0.01	0.17
.0023485	1	0.01	0.18
.0024475	1	0.01	0.19
.0025117	1	0.01	0.20
.0025265	1	0.01	0.21
.0026041	1	0.01	0.22
.0027891	1	0.01	0.23
.0028353	1	0.01	0.24
.0028717	1	0.01	0.25
.0030964	1	0.01	0.26
.0031732	1	0.01	0.27
.003185	1	0.01	0.28
.0034746	1	0.01	0.29
.0034836	1	0.01	0.30
.0034976	1	0.01	0.31
.0035828	1	0.01	0.32
.0035956	1	0.01	0.33
.0036973	1	0.01	0.34
.0037023	1	0.01	0.35
.0038662	1	0.01	0.36
.0039903	1	0.01	0.37
.0041264	1	0.01	0.38
.0041496	1	0.01	0.39
.004199	1	0.01	0.40
.0043462	1	0.01	0.41
.0044887	1	0.01	0.42
.0046794	1	0.01	0.43
.0046942	1	0.01	0.44
.0047077	1	0.01	0.45
.004886	1	0.01	0.45
.0049164	1	0.01	0.46
.0049823	1	0.01	0.47
.0052198	1	0.01	0.48
.0052887	1	0.01	0.49
.0054092	1	0.01	0.50
.0054408	1	0.01	0.51
.0056231	1	0.01	0.52
.0058996	1	0.01	0.53
.0060546	1	0.01	0.54
.0062654	1	0.01	0.55
.0064418	1	0.01	0.56
.0064692	1	0.01	0.57
.0066008	1	0.01	0.58
.0066024	1	0.01	0.59
.0066413	1	0.01	0.60
.0066592	1	0.01	0.61
.0066711	1	0.01	0.62

.0067882		1	0.01	0.63
.0068523		1	0.01	0.64
.0068689		1	0.01	0.65
.0069069		1	0.01	0.66
.0070197		1	0.01	0.67
.0071193		1	0.01	0.68
.0071424		1	0.01	0.69
.007274		1	0.01	0.70
.0075336		1	0.01	0.71
.0076509		1	0.01	0.72
.0078373		1	0.01	0.73
.0078455		1	0.01	0.74
.0079481		1	0.01	0.74
.0079624		1	0.01	0.75
.0080145		1	0.01	0.76
.0083005		1	0.01	0.77
.008658		1	0.01	0.78
.0086619		1	0.01	0.79
.0088708		1	0.01	0.80
.0090652		1	0.01	0.81
.0091015		1	0.01	0.82
.0091832		1	0.01	0.83
.0093266		1	0.01	0.84
.0094197		1	0.01	0.85
.0094697		1	0.01	0.86
.0099412		1	0.01	0.87
.0099694		1	0.01	0.88
.0099925		1	0.01	0.89
.010284		1	0.01	0.90
.0102915		1	0.01	0.91
.0107831		1	0.01	0.92
.0108414		1	0.01	0.93
.0108964		1	0.01	0.94
.01104		1	0.01	0.95
.0110693		1	0.01	0.96
.0111563		1	0.01	0.97
.0112181		1	0.01	0.98
.0112804		1	0.01	0.99
.0113691		1	0.01	1.00
.011483		1	0.01	1.01
.0117354		1	0.01	1.02
.0118095		1	0.01	1.03
.0118402		1	0.01	1.04
.0118521		1	0.01	1.04
.011952		1	0.01	1.05
.0120084		1	0.01	1.06
.0122313		1	0.01	1.07
.0123463		1	0.01	1.08
.0124451		1	0.01	1.09
.0124834		1	0.01	1.10
.0125092		1	0.01	1.11
.0125518		1	0.01	1.12
.0128623		1	0.01	1.13
.0129189		1	0.01	1.14
.0129504		1	0.01	1.15
.0129709		1	0.01	1.16
.0133167		1	0.01	1.17
.0136721		1	0.01	1.18
.0137772		1	0.01	1.19
.0137846		1	0.01	1.20
.0139453		1	0.01	1.21
.0141825		1	0.01	1.22
.0142667		1	0.01	1.23
.0145783		1	0.01	1.24
.014806		1	0.01	1.25
.0148705		1	0.01	1.26
.0149042		1	0.01	1.27

.0150076	1	0.01	1.28
.0150665	1	0.01	1.29
.0151513	1	0.01	1.30
.0152045	1	0.01	1.31
.0152278	1	0.01	1.32
.0154018	1	0.01	1.33
.0154828	1	0.01	1.34
.0155025	1	0.01	1.34
.0155516	1	0.01	1.35
.0156022	1	0.01	1.36
.0157779	1	0.01	1.37
.0158189	1	0.01	1.38
.0159406	1	0.01	1.39
.0159582	1	0.01	1.40
.0159937	1	0.01	1.41
.0160261	1	0.01	1.42
.0164476	1	0.01	1.43
.0164586	1	0.01	1.44
.0164768	1	0.01	1.45
.0164906	1	0.01	1.46
.0165084	1	0.01	1.47
.0165389	1	0.01	1.48
.0166955	1	0.01	1.49
.0168069	1	0.01	1.50
.0168878	1	0.01	1.51
.0170056	1	0.01	1.52
.0176666	1	0.01	1.53
.0177009	1	0.01	1.54
.0177622	1	0.01	1.55
.0179776	1	0.01	1.56
.0180073	1	0.01	1.57
.0180096	1	0.01	1.58
.0181578	1	0.01	1.59
.018181	1	0.01	1.60
.0183464	1	0.01	1.61
.0184421	1	0.01	1.62
.0185047	1	0.01	1.63
.0185393	1	0.01	1.63
.0186906	1	0.01	1.64
.0188953	1	0.01	1.65
.0189495	1	0.01	1.66
.0189697	1	0.01	1.67
.0190128	1	0.01	1.68
.0190288	1	0.01	1.69
.0191045	1	0.01	1.70
.0193665	1	0.01	1.71
.0193708	1	0.01	1.72
.0195948	1	0.01	1.73
.019613	1	0.01	1.74
.0196549	1	0.01	1.75
.0197524	1	0.01	1.76
.019814	1	0.01	1.77
.0198527	1	0.01	1.78
.0198613	1	0.01	1.79
.0198938	1	0.01	1.80
.0199618	1	0.01	1.81
.0199646	1	0.01	1.82
.0201041	1	0.01	1.83
.0204957	1	0.01	1.84
.0205261	1	0.01	1.85
.0205464	1	0.01	1.86
.0206296	1	0.01	1.87
.0206977	1	0.01	1.88
.0207823	1	0.01	1.89
.0210917	1	0.01	1.90
.0211033	1	0.01	1.91
.021169	1	0.01	1.92

.0212592	1	0.01	1.93
.0212659	1	0.01	1.93
.0214575	1	0.01	1.94
.0215789	1	0.01	1.95
.0216429	1	0.01	1.96
.0216539	1	0.01	1.97
.0218554	1	0.01	1.98
.021915	1	0.01	1.99
.0219372	1	0.01	2.00
.0219552	1	0.01	2.01
.022007	1	0.01	2.02
.0220105	1	0.01	2.03
.022179	1	0.01	2.04
.0222098	1	0.01	2.05
.0223823	1	0.01	2.06
.0223886	1	0.01	2.07
.0224694	1	0.01	2.08
.0225219	1	0.01	2.09
.0225275	1	0.01	2.10
.0226277	1	0.01	2.11
.0227245	1	0.01	2.12
.0228085	1	0.01	2.13
.0228934	1	0.01	2.14
.0229399	1	0.01	2.15
.0230205	1	0.01	2.16
.0230205	1	0.01	2.17
.023158	1	0.01	2.18
.0234115	1	0.01	2.19
.0236368	1	0.01	2.20
.0237283	1	0.01	2.21
.0241096	1	0.01	2.22
.0241172	1	0.01	2.23
.0241366	1	0.01	2.23
.0242171	1	0.01	2.24
.0242725	1	0.01	2.25
.0243173	1	0.01	2.26
.0243982	1	0.01	2.27
.0244775	1	0.01	2.28
.0249619	1	0.01	2.29
.0249687	1	0.01	2.30
.0249964	1	0.01	2.31
.0250236	1	0.01	2.32
.0250341	1	0.01	2.33
.0253021	1	0.01	2.34
.0254982	1	0.01	2.35
.0255062	1	0.01	2.36
.0256322	1	0.01	2.37
.0257572	1	0.01	2.38
.0257787	1	0.01	2.39
.0259353	1	0.01	2.40
.0260401	1	0.01	2.41
.0261043	1	0.01	2.42
.0261891	1	0.01	2.43
.0262163	1	0.01	2.44
.0264019	1	0.01	2.45
.0265135	1	0.01	2.46
.0267714	1	0.01	2.47
.0270989	1	0.01	2.48
.0271267	1	0.01	2.49
.0272826	1	0.01	2.50
.0273513	1	0.01	2.51
.0277381	1	0.01	2.52
.0277438	1	0.01	2.52
.0279648	1	0.01	2.53
.0280059	1	0.01	2.54
.0280171	1	0.01	2.55
.0280394	1	0.01	2.56

.0280525	1	0.01	2.57
.0280661	1	0.01	2.58
.0280964	1	0.01	2.59
.0281808	1	0.01	2.60
.0287065	1	0.01	2.61
.0287094	1	0.01	2.62
.0287365	1	0.01	2.63
.0287626	1	0.01	2.64
.0287878	1	0.01	2.65
.0288228	1	0.01	2.66
.0289547	1	0.01	2.67
.0290313	1	0.01	2.68
.029075	1	0.01	2.69
.0291708	1	0.01	2.70
.029178	1	0.01	2.71
.0293121	1	0.01	2.72
.0293992	1	0.01	2.73
.0297084	1	0.01	2.74
.0298204	1	0.01	2.75
.0298371	1	0.01	2.76
.0298373	1	0.01	2.77
.0300836	1	0.01	2.78
.0301782	1	0.01	2.79
.0302576	1	0.01	2.80
.0303088	1	0.01	2.81
.0303911	1	0.01	2.82
.0305886	1	0.01	2.82
.0307886	1	0.01	2.83
.030801	1	0.01	2.84
.0308188	1	0.01	2.85
.0309284	1	0.01	2.86
.0310992	1	0.01	2.87
.0312446	1	0.01	2.88
.0313529	1	0.01	2.89
.0313712	1	0.01	2.90
.0316554	1	0.01	2.91
.0319937	1	0.01	2.92
.0320492	1	0.01	2.93
.0322337	1	0.01	2.94
.0323759	1	0.01	2.95
.0325743	1	0.01	2.96
.0325951	1	0.01	2.97
.0326182	1	0.01	2.98
.0326366	1	0.01	2.99
.032696	1	0.01	3.00
.0327711	1	0.01	3.01
.0328105	1	0.01	3.02
.0328543	1	0.01	3.03
.0328711	1	0.01	3.04
.0329862	1	0.01	3.05
.0330493	1	0.01	3.06
.0331194	1	0.01	3.07
.0331423	1	0.01	3.08
.033219	1	0.01	3.09
.0332707	1	0.01	3.10
.0334106	1	0.01	3.11
.0335147	1	0.01	3.12
.0335166	1	0.01	3.12
.0336369	1	0.01	3.13
.0336447	1	0.01	3.14
.0338725	1	0.01	3.15
.0338995	1	0.01	3.16
.0339029	1	0.01	3.17
.0339234	1	0.01	3.18
.0340027	1	0.01	3.19
.0341919	1	0.01	3.20
.0342591	1	0.01	3.21

.0342679	1	0.01	3.22
.034668	1	0.01	3.23
.0346938	1	0.01	3.24
.0347535	1	0.01	3.25
.0349035	1	0.01	3.26
.0350404	1	0.01	3.27
.0351017	1	0.01	3.28
.0351327	1	0.01	3.29
.0351801	1	0.01	3.30
.0353416	1	0.01	3.31
.0353802	1	0.01	3.32
.0353836	1	0.01	3.33
.035473	1	0.01	3.34
.0354757	1	0.01	3.35
.0355567	1	0.01	3.36
.0356983	1	0.01	3.37
.0362304	1	0.01	3.38
.0362947	1	0.01	3.39
.0363177	1	0.01	3.40
.036373	1	0.01	3.41
.0365328	1	0.01	3.41
.036561	1	0.01	3.42
.0365865	1	0.01	3.43
.0366037	1	0.01	3.44
.0366123	1	0.01	3.45
.0367858	1	0.01	3.46
.0370267	1	0.01	3.47
.0370658	1	0.01	3.48
.0370934	1	0.01	3.49
.0371332	1	0.01	3.50
.0372318	1	0.01	3.51
.0372464	1	0.01	3.52
.0373882	1	0.01	3.53
.0374382	1	0.01	3.54
.0375865	1	0.01	3.55
.0377155	1	0.01	3.56
.0380632	1	0.01	3.57
.0382374	1	0.01	3.58
.0382659	1	0.01	3.59
.038386	1	0.01	3.60
.0386074	1	0.01	3.61
.0386355	1	0.01	3.62
.0388568	1	0.01	3.63
.0388654	1	0.01	3.64
.0390194	1	0.01	3.65
.0390337	1	0.01	3.66
.0390697	1	0.01	3.67
.0393051	1	0.01	3.68
.0393588	1	0.01	3.69
.0394918	1	0.01	3.70
.0395697	1	0.01	3.71
.0397286	1	0.01	3.71
.0398913	1	0.01	3.72
.0399396	1	0.01	3.73
.0401069	1	0.01	3.74
.0403476	1	0.01	3.75
.0403768	1	0.01	3.76
.0404291	1	0.01	3.77
.0405247	1	0.01	3.78
.0406386	1	0.01	3.79
.0406734	1	0.01	3.80
.0409201	1	0.01	3.81
.0409959	1	0.01	3.82
.0410098	1	0.01	3.83
.0410774	1	0.01	3.84
.0412052	1	0.01	3.85
.0413875	1	0.01	3.86



.0416845	1	0.01	3.87
.0417596	1	0.01	3.88
.0417862	1	0.01	3.89
.0418761	1	0.01	3.90
.0419172	1	0.01	3.91
.0419942	1	0.01	3.92
.042218	1	0.01	3.93
.0422625	1	0.01	3.94
.0423678	1	0.01	3.95
.0423861	1	0.01	3.96
.0424297	1	0.01	3.97
.0424589	1	0.01	3.98
.0426169	1	0.01	3.99
.0426669	1	0.01	4.00
.0426913	1	0.01	4.01
.0428	1	0.01	4.01
.0429094	1	0.01	4.02
.0429503	1	0.01	4.03
.043031	1	0.01	4.04
.0430903	1	0.01	4.05
.0431819	1	0.01	4.06
.0432617	1	0.01	4.07
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.9692965		1	0.01	96.88
.9693053		1	0.01	96.88
.9694233		1	0.01	96.89
.9695154		1	0.01	96.90
.9695217		1	0.01	96.91
.9695871		1	0.01	96.92
.9696233		1	0.01	96.93
.9696655		1	0.01	96.94
.9697412		1	0.01	96.95
.9700722		1	0.01	96.96
.9701391		1	0.01	96.97
.9707419		1	0.01	96.98
.9708844		1	0.01	96.99
.9709122		1	0.01	97.00
.9709999		1	0.01	97.01
.9710709		1	0.01	97.02
.9710848		1	0.01	97.03
.9711082		1	0.01	97.04
.9711552		1	0.01	97.05
.9712027		1	0.01	97.06
.9712364		1	0.01	97.07
.9712542		1	0.01	97.08
.9712999		1	0.01	97.09
.9713353		1	0.01	97.10
.9713519		1	0.01	97.11
.9717265		1	0.01	97.12
.971875		1	0.01	97.13
.9719695		1	0.01	97.14
.9720445		1	0.01	97.15
.9721045		1	0.01	97.16
.9722617		1	0.01	97.17
.9723035		1	0.01	97.18
.9723117		1	0.01	97.18
.9726507		1	0.01	97.19
.9727529		1	0.01	97.20
.9730394		1	0.01	97.21
.9730733		1	0.01	97.22
.9732207		1	0.01	97.23



.9732955	1	0.01	97.24
.9733058	1	0.01	97.25
.9733155	1	0.01	97.26
.9733775	1	0.01	97.27
.9733927	1	0.01	97.28
.9734789	1	0.01	97.29
.9735551	1	0.01	97.30
.9738548	1	0.01	97.31
.9739049	1	0.01	97.32
.9739115	1	0.01	97.33
.9739394	1	0.01	97.34
.9740127	1	0.01	97.35
.9740962	1	0.01	97.36
.9741569	1	0.01	97.37
.9742045	1	0.01	97.38
.9742454	1	0.01	97.39
.9742798	1	0.01	97.40
.974369	1	0.01	97.41
.9743898	1	0.01	97.42
.9744099	1	0.01	97.43
.974508	1	0.01	97.44
.9745709	1	0.01	97.45
.9746143	1	0.01	97.46
.9749621	1	0.01	97.47
.9750406	1	0.01	97.48
.9753064	1	0.01	97.48
.9754282	1	0.01	97.49
.9755864	1	0.01	97.50
.9756315	1	0.01	97.51
.9756492	1	0.01	97.52
.9756853	1	0.01	97.53
.9758214	1	0.01	97.54
.9758834	1	0.01	97.55
.9761575	1	0.01	97.56
.9763651	1	0.01	97.57
.9763799	1	0.01	97.58
.9765818	1	0.01	97.59
.9767435	1	0.01	97.60
.9767773	1	0.01	97.61
.9768466	1	0.01	97.62
.9768543	1	0.01	97.63
.9771056	1	0.01	97.64
.9771869	1	0.01	97.65
.97719	1	0.01	97.66
.9773031	1	0.01	97.67
.977538	1	0.01	97.68
.9775485	1	0.01	97.69
.9776142	1	0.01	97.70
.9777017	1	0.01	97.71
.9778153	1	0.01	97.72
.9778898	1	0.01	97.73
.9779802	1	0.01	97.74
.977994	1	0.01	97.75
.9781172	1	0.01	97.76
.9784334	1	0.01	97.77
.9784759	1	0.01	97.77
.978546	1	0.01	97.78
.9786035	1	0.01	97.79
.9786342	1	0.01	97.80
.9788221	1	0.01	97.81
.9788578	1	0.01	97.82
.9788775	1	0.01	97.83
.9788811	1	0.01	97.84
.9789158	1	0.01	97.85
.9789991	1	0.01	97.86
.9790013	1	0.01	97.87
.9792063	1	0.01	97.88

.9792073	1	0.01	97.89
.979215	1	0.01	97.90
.9792266	1	0.01	97.91
.9792613	1	0.01	97.92
.9793324	1	0.01	97.93
.9793708	1	0.01	97.94
.9793748	1	0.01	97.95
.9793923	1	0.01	97.96
.9796168	1	0.01	97.97
.9797648	1	0.01	97.98
.9799016	1	0.01	97.99
.9799039	1	0.01	98.00
.9800719	1	0.01	98.01
.9801651	1	0.01	98.02
.9801984	1	0.01	98.03
.9802807	1	0.01	98.04
.9802884	1	0.01	98.05
.9803298	1	0.01	98.06
.9804713	1	0.01	98.07
.9804816	1	0.01	98.07
.9804882	1	0.01	98.08
.9806797	1	0.01	98.09
.9807024	1	0.01	98.10
.9809362	1	0.01	98.11
.9811397	1	0.01	98.12
.981149	1	0.01	98.13
.9812407	1	0.01	98.14
.9812881	1	0.01	98.15
.9813971	1	0.01	98.16
.9815308	1	0.01	98.17
.981707	1	0.01	98.18
.9817725	1	0.01	98.19
.9819592	1	0.01	98.20
.9820576	1	0.01	98.21
.9823062	1	0.01	98.22
.9824398	2	0.02	98.24
.9825546	1	0.01	98.25
.9826027	1	0.01	98.26
.982751	1	0.01	98.27
.9830655	1	0.01	98.28
.9831518	1	0.01	98.29
.9832139	1	0.01	98.30
.9832898	1	0.01	98.31
.9833142	1	0.01	98.32
.9833722	1	0.01	98.33
.9834301	1	0.01	98.34
.9834753	1	0.01	98.35
.9834765	1	0.01	98.36
.9834796	1	0.01	98.37
.9835874	1	0.01	98.37
.9835939	1	0.01	98.38
.9836786	1	0.01	98.39
.983711	1	0.01	98.40
.9838266	1	0.01	98.41
.9840173	1	0.01	98.42
.9840367	1	0.01	98.43
.9840645	1	0.01	98.44
.9840811	1	0.01	98.45
.9843282	1	0.01	98.46
.9848028	1	0.01	98.47
.9851061	1	0.01	98.48
.9852918	1	0.01	98.49
.9853284	1	0.01	98.50
.9853716	1	0.01	98.51
.9853975	1	0.01	98.52
.9854455	1	0.01	98.53
.9855855	1	0.01	98.54

.9856375	1	0.01	98.55
.985653	1	0.01	98.56
.9857526	1	0.01	98.57
.9859302	1	0.01	98.58
.9860065	1	0.01	98.59
.9861318	1	0.01	98.60
.9862042	1	0.01	98.61
.9862499	1	0.01	98.62
.9864205	1	0.01	98.63
.9865561	1	0.01	98.64
.9865655	1	0.01	98.65
.9865713	1	0.01	98.66
.9868116	1	0.01	98.66
.9870149	1	0.01	98.67
.9870698	1	0.01	98.68
.9871407	1	0.01	98.69
.987563	1	0.01	98.70
.9875745	1	0.01	98.71
.9877096	1	0.01	98.72
.9877399	1	0.01	98.73
.9878893	1	0.01	98.74
.9879107	1	0.01	98.75
.9880623	1	0.01	98.76
.9880674	1	0.01	98.77
.9883259	1	0.01	98.78
.9884168	1	0.01	98.79
.9884682	1	0.01	98.80
.98848	1	0.01	98.81
.9886986	1	0.01	98.82
.9887328	1	0.01	98.83
.9888133	1	0.01	98.84
.9889837	1	0.01	98.85
.9890261	1	0.01	98.86
.9891083	1	0.01	98.87
.9891502	1	0.01	98.88
.9891796	1	0.01	98.89
.989235	1	0.01	98.90
.9892496	1	0.01	98.91
.989325	1	0.01	98.92
.9894419	1	0.01	98.93
.989528	1	0.01	98.94
.9895301	1	0.01	98.95
.9895378	1	0.01	98.96
.9895697	1	0.01	98.96
.9897217	1	0.01	98.97
.9898319	1	0.01	98.98
.9898748	1	0.01	98.99
.989892	1	0.01	99.00
.9899721	1	0.01	99.01
.9899822	1	0.01	99.02
.9899911	1	0.01	99.03
.9900199	1	0.01	99.04
.9900652	1	0.01	99.05
.9901125	1	0.01	99.06
.9901296	1	0.01	99.07
.9901589	1	0.01	99.08
.9903348	1	0.01	99.09
.9903449	1	0.01	99.10
.9903839	1	0.01	99.11
.990463	1	0.01	99.12
.9908184	1	0.01	99.13
.9908239	1	0.01	99.14
.9910387	1	0.01	99.15
.9910422	1	0.01	99.16
.991156	1	0.01	99.17
.9911673	1	0.01	99.18
.9911951	1	0.01	99.19

.9912224	1	0.01	99.20
.9914278	1	0.01	99.21
.9914651	1	0.01	99.22
.9915318	1	0.01	99.23
.9916292	1	0.01	99.24
.9919538	1	0.01	99.25
.9920124	1	0.01	99.26
.9924551	1	0.01	99.26
.9924672	1	0.01	99.27
.9925388	1	0.01	99.28
.9925424	1	0.01	99.29
.9927489	1	0.01	99.30
.9927614	1	0.01	99.31
.992762	1	0.01	99.32
.9927973	1	0.01	99.33
.9928121	1	0.01	99.34
.9928564	1	0.01	99.35
.9929593	1	0.01	99.36
.9929971	1	0.01	99.37
.9930454	1	0.01	99.38
.9930864	1	0.01	99.39
.9932014	1	0.01	99.40
.9932082	1	0.01	99.41
.9932134	1	0.01	99.42
.9936064	1	0.01	99.43
.9938153	1	0.01	99.44
.9939318	1	0.01	99.45
.9939945	1	0.01	99.46
.994092	1	0.01	99.47
.9942194	1	0.01	99.48
.9942263	1	0.01	99.49
.9944935	1	0.01	99.50
.9948988	1	0.01	99.51
.9952131	1	0.01	99.52
.9955783	1	0.01	99.53
.9955947	1	0.01	99.54
.9956422	1	0.01	99.55
.9958276	1	0.01	99.55
.9959198	1	0.01	99.56
.996523	1	0.01	99.57
.9965323	1	0.01	99.58
.9966344	1	0.01	99.59
.9966746	1	0.01	99.60
.9967939	1	0.01	99.61
.9968083	1	0.01	99.62
.9968507	1	0.01	99.63
.9971098	1	0.01	99.64
.9971246	1	0.01	99.65
.9971292	1	0.01	99.66
.9971306	1	0.01	99.67
.9971622	1	0.01	99.68
.9972952	1	0.01	99.69
.9974105	1	0.01	99.70
.9975047	1	0.01	99.71
.9975428	1	0.01	99.72
.9976795	1	0.01	99.73
.9978243	1	0.01	99.74
.9978302	1	0.01	99.75
.9979664	1	0.01	99.76
.9980806	1	0.01	99.77
.9981155	1	0.01	99.78
.9981391	1	0.01	99.79
.998472	1	0.01	99.80
.9984784	1	0.01	99.81
.9985278	1	0.01	99.82
.9989226	1	0.01	99.83
.9990431	1	0.01	99.84

```

.999062 |          1          0.01          99.85
.9992099 |          1          0.01          99.85
.9992188 |          1          0.01          99.86
.9992398 |          1          0.01          99.87
.9992748 |          1          0.01          99.88
.9993032 |          1          0.01          99.89
.9994524 |          1          0.01          99.90
.9994806 |          1          0.01          99.91
.9994962 |          1          0.01          99.92
.9995511 |          1          0.01          99.93
.9995513 |          1          0.01          99.94
.9996678 |          1          0.01          99.95
.9997672 |          1          0.01          99.96
.999807 |          1          0.01          99.97
.9998751 |          1          0.01          99.98
.9999446 |          1          0.01          99.99
.999969 |          1          0.01         100.00
-----

```

```

Total |          10,337          100.00

```

```

. replace health =. if u1 >= .9487244
(517 real changes made, 517 to missing)

```

```

. replace agegrp =. if u1 >= .98
(207 real changes made, 207 to missing)

```

```

. *****
. * Step #1: multiple imputation
. *****

```

```

. mi set flong

```

```

. mi misstable summarize health agegrp female rural psuid finalwgt stratid
                          Obs<.

```

Variable	Obs=.	Obs>.	Obs<.	Unique values	Min	Max
health	519		9,818	5	1	5
agegrp	207		10,130	6	1	6

```

. mi register imputed health agegrp
(519 m=0 obs. now marked as incomplete)

```

```

. mi register regular female rural

```

```

. mi impute chained (ologit) health (ologit) agegrp = i.female i.rural, add(5) rseed(98034)
note: missing-value pattern is monotone; no iteration performed

```

```

Conditional models (monotone):
  agegrp: ologit agegrp i.female i.rural
  health: ologit health i.agegrp i.female i.rural

```

```

Performing chained iterations ...

```

```

Multivariate imputation          Imputations =          5
Chained equations                 added =          5
Imputed: m=1 through m=5         updated =          0

Initialization: monotone         Iterations =          0
                                burn-in =          0

```



```

DF adjustment:  Small sample  DF:  min  =  29.18
               Linearized      avg   =  29.18
               Linearized      max   =  29.18

```

```

-----
|          |          |          |          |          |
|          | Proportion  Std. Err.  [95% Conf. Interval]
|-----+-----+-----+-----+-----+
female    |          |          |          |          |
          0 | .4795785  .005773  .4677745  .4913825
          1 | .5204215  .005773  .5086175  .5322255
-----+-----+-----+-----+
rural     |          |          |          |          |
          0 | .6825612  .0212654  .63908    .7260425
          1 | .3174388  .0212654  .2739575  .36092
-----

```

```

. *****
. * Step 4: Perform a series of regression analyses to put the theoretical questions to the test.
. * The research question is if being female is associated with an increased level of self-reported health
. * after two variables (agegrp and rural) are in the model
. * The post-estimation test also test if both respondent's age and gender predict the outcome variable
. * and if age and gender have the same association with the outcome variable
. *****
. mi estimate: svy: ologit health agegrp

```

```

Multiple-imputation estimates      Imputations      =          5
Survey: Ordered logistic regression  Number of obs    =       10,337

Number of strata =          31      Population size   =  117,023,659
Number of PSUs  =          62

Average RVI      =          0.1034
Largest FMI     =          0.2315
Complete DF     =           31
DF adjustment:  Small sample      DF:  min        =          18.74
                                   avg          =          21.96
                                   max          =          23.92

Model F test:      Equal FMI      F( 1, 18.7)     =          635.97
Within VCE type:  Linearized      Prob > F        =          0.0000

```

```

-----
| health |          |          |          |          |          |
|-----+-----+-----+-----+-----+
| agegrp | -0.3956029  .015687  -25.22  0.000  -0.4284675  -0.3627384
|-----+-----+-----+-----+
| /cut1  | -4.271052   .08665   -4.450589  -4.091514
| /cut2  | -2.79188    .0619864 -2.92019   -2.663569
| /cut3  | -1.296567   .0516603 -1.403687  -1.189447
| /cut4  | -0.0461655  .0511557 -0.1517652  .0594342
-----

```

```

. mi estimate: svy: ologit health agegrp female

```

```

Multiple-imputation estimates      Imputations      =          5
Survey: Ordered logistic regression  Number of obs    =       10,337

Number of strata =          31      Population size   =  117,023,659
Number of PSUs  =          62

Average RVI      =          0.1071
Largest FMI     =          0.2317
Complete DF     =           31
DF adjustment:  Small sample      DF:  min        =          18.73
                                   avg          =          24.08
                                   max          =          27.33

Model F test:      Equal FMI      F( 2, 21.7)     =          345.27
Within VCE type:  Linearized      Prob > F        =          0.0000

```





```

Model F test:      Equal FMI          max          =          27.73
                  Linearized         F( 3, 26.1)    =          272.08
Within VCE type:  Prob > F           =          0.0000

```

```

-----+-----
health |      Coef.   Std. Err.   t   P>|t|   [95% Conf. Interval]
-----+-----
agegrp |  -.3934097   .0152396  -25.81  0.000   - .4254159   - .3614035
female |  -.157828   .0521732   -3.03  0.005   - .2648302   - .0508257
rural  |  -.2503612   .0811755   -3.08  0.005   - .4167137   - .0840088
-----+-----
/cut1  |  -4.43695   .0964262           -4.636736   -4.237164
/cut2  |  -2.953306   .0802147           -3.118724   -2.787887
/cut3  |  -1.451288   .0692856           -1.594255   -1.308321
/cut4  |  -.1962587   .0628589           -.3255929   -.0669246
-----+-----

```

```

Transformations          Average RVI          =          0.0974
                        Largest FMI          =          0.1003
                        Complete DF          =           31
DF adjustment:  Small sample          DF:   min          =          25.26
                        avg                  =          25.26
Within VCE type:  Linearized          max          =          25.26

```

```
diff:  _b[agegrp]-_b[female]
```

```

-----+-----
health |      Coef.   Std. Err.   t   P>|t|   [95% Conf. Interval]
-----+-----
diff   |  -.2355817   .051458   -4.58  0.000   - .3415053   - .1296582
-----+-----

```

```

.
.
. *****
. * The results are reasonable, so no Steps 5 and 6
. *****
.
.
. *****
. * Step 7: Sensitivity test by using a new operationalization of health in analysis
. *****
.
. clonevar health2 = health
(519 missing values generated)

. recode health2 (1/2=1) (3=2) (4/5=3)
(health2: 57151 changes made)

. tab2 health health2

-> tabulation of health by health2

```

```

1=poor,... |
, |
5=excellen |      1=poor,..., 5=excellent
t |      poor      fair      average |      Total
-----+-----
poor   |  4,352          0          0 |  4,352
fair   |  9,922          0          0 |  9,922
average |          0      17,471          0 |  17,471
good   |          0          0      15,391 |  15,391
excellent |          0          0      14,367 |  14,367
-----+-----
Total  |  14,274      17,471      29,758 |  61,503

```

```

. label variable health2 "recoded Health into a three-category variable"
.
.
. *****
. * reanalyze the data, using the recoded Health2 variable as the outcome variable
. *****
.
.
. mi estimate: svy: ologit health2 agegrp

```

```

Multiple-imputation estimates      Imputations      =          5
Survey: Ordered logistic regression Number of obs      =      10,337

Number of strata =          31      Population size = 117,023,659
Number of PSUs  =          62

                                Average RVI      =          0.0820
                                Largest FMI       =          0.1850
                                Complete DF        =           31
DF adjustment:  Small sample      DF:      min    =          21.00
                                      avg          =          23.48
                                      max          =          24.75
Model F test:      Equal FMI      F(  1,  21.0)  =          630.82
Within VCE type:  Linearized      Prob > F      =          0.0000

```

```

-----+-----
health2 |      Coef.  Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
agegrp  |  -.4247675   .0169121   -25.12  0.000   - .4599379   - .3895972
-----+-----
      /cut1 |  -2.897263   .0721275             -3.045904   -2.748622
      /cut2 |  -1.393389   .0591458             -1.515265   -1.271512
-----+-----

```

```

. mi estimate: svy: ologit health2 agegrp female

```

```

Multiple-imputation estimates      Imputations      =          5
Survey: Ordered logistic regression Number of obs      =      10,337

Number of strata =          31      Population size = 117,023,659
Number of PSUs  =          62

                                Average RVI      =          0.0865
                                Largest FMI       =          0.1852
                                Complete DF        =           31
DF adjustment:  Small sample      DF:      min    =          20.99
                                      avg          =          24.83
                                      max          =          27.52
Model F test:      Equal FMI      F(  2,  24.1)  =          334.93
Within VCE type:  Linearized      Prob > F      =          0.0000

```

```

-----+-----
health2 |      Coef.  Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
agegrp  |  -.4240756   .0169089   -25.08  0.000   - .4592404   - .3889109
female  |  -.1415833   .0572071    -2.47  0.020   - .2588588   - .0243079
-----+-----
      /cut1 |  -2.970425   .0808809             -3.136754   -2.804097
      /cut2 |  -1.465176   .0650253             -1.599081   -1.331271
-----+-----

```

```

. mi estimate, saving(d:\temp\full2.dta, replace): svy: ologit health2 agegrp female rural

```

```

Multiple-imputation estimates      Imputations      =          5
Survey: Ordered logistic regression Number of obs      =      10,337

Number of strata =          31      Population size = 117,023,659
Number of PSUs  =          62

```

```

Average RVI      = 0.0876
Largest FMI     = 0.1944
Complete DF     = 31
DF adjustment:  Small sample
DF:             min = 20.53
               avg  = 25.43
               max  = 27.89
Model F test:   Equal FMI      F( 3, 27.2) = 249.91
Within VCE type: Linearized    Prob > F      = 0.0000

```

```

-----+-----+-----+-----+-----+-----+-----+
health2 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----+-----+-----+-----+-----+-----+
agegrp  |  -.4234796   .0167217   -25.33  0.000   - .4583026   - .3886566
female  |  -.1546352   .0585841    -2.64  0.014   - .2747239   - .0345465
rural   |  -.2985089   .0913005    -3.27  0.003   - .4855626   - .1114552
-----+-----+-----+-----+-----+-----+
/cut1   |  -3.076924   .0945281                -3.271409   -2.88244
/cut2   |  -1.565514   .0813994                -1.732946   -1.398082
-----+-----+-----+-----+-----+

```

```

.
.
. *****
. * post-estimation test
. *****
. mi test agegrp female
note: assuming equal fractions of missing information

```

```

( 1) [health2]agegrp = 0
( 2) [health2]female = 0

F( 2, 23.7) = 344.57
Prob > F = 0.0000

```

```

. mi estimate (diff: _b[agegrp]-_b[female]) using d:\temp\full2.dta

```

```

Multiple-imputation estimates      Imputations      = 5
Survey: Ordered logistic regression Number of obs      = 10,337

Number of strata = 31           Population size = 117,023,659
Number of PSUs   = 62

Average RVI      = 0.0876
Largest FMI     = 0.1944
Complete DF     = 31
DF adjustment:  Small sample
DF:             min = 20.53
               avg  = 25.43
               max  = 27.89
Model F test:   Equal FMI      F( 3, 27.2) = 249.91
Within VCE type: Linearized    Prob > F      = 0.0000

```

```

-----+-----+-----+-----+-----+-----+
health2 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----+-----+-----+-----+-----+
agegrp  |  -.4234796   .0167217   -25.33  0.000   - .4583026   - .3886566
female  |  -.1546352   .0585841    -2.64  0.014   - .2747239   - .0345465
rural   |  -.2985089   .0913005    -3.27  0.003   - .4855626   - .1114552
-----+-----+-----+-----+-----+
/cut1   |  -3.076924   .0945281                -3.271409   -2.88244
/cut2   |  -1.565514   .0813994                -1.732946   -1.398082
-----+-----+-----+-----+-----+

```

```

Transformations      Average RVI      = 0.0671
                     Largest FMI     = 0.0715
                     Complete DF     = 31
DF adjustment:      Small sample
DF:                 min = 26.62
                     avg  = 26.62

```

Within VCE type: Linearized max = 26.62

diff: \_b[agegrp]-\_b[female]

health2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
diff	-.2688444	.0583537	-4.61	0.000	-.3886558	-.149033

```

. log close
  name: <unnamed>
  log: D:\Jason\workshop\Introduction to Stata Analysis\Introduction to Stata Analysis2.log
  log type: text
  closed on: 5 Jun 2023, 11:04:29

```