
```
name: <unnamed>
log: /Users/miguelhenry/Library/Mobile Documents/com~apple~CloudDocs/
> Personal/CONSULTING/Log Files//ffcws_ol_impdata.smcl
log type: smcl
opened on: 27 Sep 2024, 22:52:02
```

```
1 .
2 . import delimited "/Users/miguelhenry/Library/Mobile Documents/com~apple~Clo
> udDocs/Personal/CONSULTING/DLH_YA_IMPUTED.csv", clear
(encoding automatically selected: ISO-8859-2)
(18 vars, 4,898 obs)

3 .
4 . rename *, lower
(all newnames==oldnames)

5 . desc // 4,898 and 18 vars
```

```
Contains data
Observations:    4,898
Variables:       18
```

Variable name	Storage type	Display format	Value label	Variable label
<hr/>				
idnum	int	%8.0g		IDNUM
ck7edu	byte	%8.0g		CK7EDU
k7b3	byte	%8.0g		K7B3
k7b11	byte	%8.0g		K7B11
k7b13	byte	%8.0g		K7B13
k7b25a	byte	%8.0g		K7B25A
k7b25b	int	%8.0g		K7B25B
k7b34a	byte	%8.0g		K7B34A
k7b34b	byte	%8.0g		K7B34B
k7b34e	byte	%8.0g		K7B34E
k7b89a_1	byte	%8.0g		K7B89A_1
k7b94	byte	%8.0g		K7B94
k7c57_6	byte	%8.0g		K7C57_6
k7c60_2	byte	%8.0g		K7C60_2
k7c63_2	byte	%8.0g		K7C63_2
k7d37_1	byte	%8.0g		K7D37_1
k7d37_102	byte	%8.0g		K7D37_102
k7g12b	byte	%8.0g		K7G12B

Sorted by:

Note: Dataset has changed since last saved.

```
6 . unique idnum           // 4,898
   Number of unique values of idnum is  4898
   Number of records is  4898
```

```
7 . drop idnum
```

```
8 . missings report        // 16 variables with missing data (-9)
```

Checking missings in all variables:
1908 observations with missing values

# missing	
k7b3	1908
k7b11	1908
k7b13	1908
k7b25a	1908
k7b25b	1908
k7b34a	1908
k7b34b	1908
k7b34e	1908
k7b89a_1	1908
k7b94	1908
k7c57_6	1908
k7c60_2	1908
k7c63_2	1908
k7d37_1	1908
k7d37_102	1908
k7g12b	1908

9 . misstable summarize

					Obs<.		
					Unique values	Min	M
Variable							
Obs=.							
Obs>.							
Obs<.							
ax							
k7b3					8	1	
k7b11					21	1	
k7b13					9	1	
k7b25a					12	1	
k7b25b					12	2010	20
k7b34a					2	1	
k7b34b					2	1	
k7b34e					2	1	
k7b89a_1					2	0	
k7b94					2	1	
k7c57_6					2	0	
k7c60_2					2	0	
k7c63_2					2	0	
k7d37_1					2	0	
k7d37_102					2	0	
k7g12b					2	1	

```

10 .
11 . ** Dependent variable
12 . tab ck7edu          // ~39% are -6, 0.06% are -3, and 0.04% are -1

```

CK7EDU	Freq.	Percent	Cum.
-9	1,908	38.95	38.95
-3	3	0.06	39.02
-1	2	0.04	39.06
1	326	6.66	45.71
2	1,155	23.58	69.29
3	1,181	24.11	93.41
4	323	6.59	100.00
Total	4,898	100.00	

```

13 . // 1: Less than HS; 2: HS or equiv; 3: Some coll, tech; 4: Coll or grad
14 .
15 . drop if ck7edu== -9|ck7edu== -3|ck7edu== -1
    (1,913 observations deleted)

```

```

16 . count          // 2,985
    2,985

```

```

17 . missings report    // no missing data

```

Checking missings in all variables:
0 observations with missing values

```

18 .
19 . foreach var of varlist _all {
    2. rename `var' `var'imp
    3. }

```

```

20 .
21 . ** 16 regressors
22 . global impvars "k7b3imp k7b11imp k7b13imp k7b25aimp k7b25bimp k7b34aimp k7b
    > 34bimp k7b34eimp k7b89a_1imp k7b94imp k7c57_6imp k7c60_2imp k7c63_2imp k7d3
    > 7_1imp k7d37_102imp k7g12bimp"

23 . foreach var of varlist $impvars {
    2. tab `var'
    3. }

```

K7B3	Freq.	Percent	Cum.
1	28	0.94	0.94
2	120	4.02	4.96
3	445	14.91	19.87
4	738	24.72	44.59
5	224	7.50	52.09
6	715	23.95	76.05
7	455	15.24	91.29
8	260	8.71	100.00

Total	2,985	100.00	
-------	-------	--------	--

K7B11	Freq.	Percent	Cum.
1	2,374	79.53	79.53
2	20	0.67	80.20
3	32	1.07	81.27
4	2	0.07	81.34
5	30	1.01	82.35
6	10	0.34	82.68
7	19	0.64	83.32
8	70	2.35	85.66
9	36	1.21	86.87
10	21	0.70	87.57
11	11	0.37	87.94
12	20	0.67	88.61
13	18	0.60	89.21
14	21	0.70	89.92
15	29	0.97	90.89
16	7	0.23	91.12
17	1	0.03	91.16
18	3	0.10	91.26
19	9	0.30	91.56
20	18	0.60	92.16
91	234	7.84	100.00

Total	2,985	100.00	
K7B13	Freq.	Percent	Cum.
1	18	0.60	0.60
2	39	1.31	1.91
3	146	4.89	6.80
4	273	9.15	15.95
5	795	26.63	42.58
6	475	15.91	58.49
7	844	28.27	86.77
8	380	12.73	99.50
9	15	0.50	100.00
Total	2,985	100.00	
K7B25A	Freq.	Percent	Cum.
1	17	0.57	0.57
2	8	0.27	0.84
3	14	0.47	1.31
4	26	0.87	2.18
5	759	25.43	27.60
6	1,990	66.67	94.27
7	78	2.61	96.88
8	50	1.68	98.56
9	13	0.44	98.99
10	10	0.34	99.33
11	5	0.17	99.50
12	15	0.50	100.00
Total	2,985	100.00	
K7B25B	Freq.	Percent	Cum.
2010	1	0.03	0.03
2012	2	0.07	0.10
2013	1	0.03	0.13
2014	3	0.10	0.23
2015	12	0.40	0.64
2016	283	9.48	10.12
2017	762	25.53	35.64
2018	1,581	52.96	88.61
2019	264	8.84	97.45
2020	47	1.57	99.03

2021	24	0.80	99.83
2022	5	0.17	100.00
Total	2,985	100.00	
K7B34A	Freq.	Percent	Cum.
1	1,833	61.41	61.41
2	1,152	38.59	100.00
Total	2,985	100.00	
K7B34B	Freq.	Percent	Cum.
1	1,874	62.78	62.78
2	1,111	37.22	100.00
Total	2,985	100.00	
K7B34E	Freq.	Percent	Cum.
1	910	30.49	30.49
2	2,075	69.51	100.00
Total	2,985	100.00	
K7B89A_1	Freq.	Percent	Cum.
0	2,187	73.27	73.27
1	798	26.73	100.00
Total	2,985	100.00	
K7B94	Freq.	Percent	Cum.
1	394	13.20	13.20
2	2,591	86.80	100.00
Total	2,985	100.00	

K7C57_6	Freq.	Percent	Cum.
0	2,903	97.25	97.25
1	82	2.75	100.00
Total	2,985	100.00	
K7C60_2	Freq.	Percent	Cum.
0	1,598	53.53	53.53
1	1,387	46.47	100.00
Total	2,985	100.00	
K7C63_2	Freq.	Percent	Cum.
0	1,846	61.84	61.84
1	1,139	38.16	100.00
Total	2,985	100.00	
K7D37_1	Freq.	Percent	Cum.
0	2,611	87.47	87.47
1	374	12.53	100.00
Total	2,985	100.00	
K7D37_102	Freq.	Percent	Cum.
0	2,868	96.08	96.08
1	117	3.92	100.00
Total	2,985	100.00	
K7G12B	Freq.	Percent	Cum.
1	1,624	54.41	54.41
2	1,361	45.59	100.00
Total	2,985	100.00	


```

24 . //ssc install r2o
25 . ologit ck7eduimp $impvars

```

```

Iteration 0:  Log likelihood = -3631.9093
Iteration 1:  Log likelihood = -2428.0962
Iteration 2:  Log likelihood = -2259.1718
Iteration 3:  Log likelihood = -2253.8749
Iteration 4:  Log likelihood = -2253.8684
Iteration 5:  Log likelihood = -2253.8684

```

```

Ordered logistic regression
> 5
> 8
> 0
Log likelihood = -2253.8684
> 4

```

```

Number of obs = 2,98
LR chi2(16)    = 2756.0
Prob > chi2    = 0.000
Pseudo R2     = 0.379

```

		Coefficient	Std. err.	z	P> z	[95% conf. interval	
> -	ck7eduimp						
>]							
> -	k7b3imp	.5206353	.0319879	16.28	0.000	.4579402	.583330
> 3	k7b11imp	-.014163	.0017525	-8.08	0.000	-.0175978	-.010728
> 2	k7b13imp	.3128271	.031719	9.86	0.000	.250659	.374995
> 2	k7b25aimp	-.0926127	.0417581	-2.22	0.027	-.1744571	-.010768
> 3	k7b25bimp	-.3498785	.0445126	-7.86	0.000	-.4371215	-.262635
> 4	k7b34aimp	-.0571778	.1275142	-0.45	0.654	-.307101	.192745
> 3	k7b34bimp	-.2706475	.128666	-2.10	0.035	-.5228282	-.018466
> 8	k7b34eimp	.0156159	.0977383	0.16	0.873	-.1759476	.207179
> 4	k7b89a_1imp	.8276006	.1011952	8.18	0.000	.6292616	1.0259
> 4	k7b94imp	-.3081801	.1247724	-2.47	0.014	-.5527294	-.063630
> 8	k7c57_6imp	-1.534685	.2507995	-6.12	0.000	-2.026243	-1.04312

```

> 7
  k7c60_2imp |    1.552661    .1232422    12.60    0.000    1.31111    1.79421
> 1
  k7c63_2imp |    1.385489    .1347073    10.29    0.000    1.121467    1.6495
> 1
  k7d37_1imp |    .4791346    .1218968     3.93    0.000    .2402213    .71804
> 8
  k7d37_102imp |   -.1695622    .2045481    -0.83    0.407   -.5704692    .231344
> 7
  k7g12bimp |    .0443462    .081515     0.54    0.586   -.1154203    .204112
> 7

```

```

> -
    /cut1 |   -705.5544    89.8182                -881.5948   -529.513
> 9
    /cut2 |   -701.8323    89.80598                -877.8488   -525.815
> 8
    /cut3 |   -697.3317    89.78742                -873.3118   -521.351
> 6

```

```

> -

```

26 . r2o

Marginal distribution for cases in the estimation sample.

CK7EDU	Freq.	Percent	Cum.
1	326	10.92	10.92
2	1,155	38.69	49.61
3	1,181	39.56	89.18
4	323	10.82	100.00
Total	2,985	100.00	

Total Variation	Model Variation	Error Variation	Lacy r2o	Bias Adj. r2o
0.443769	0.203107	0.240662	0.45769	0.45476

27 .

```
28 . foreach var of varlist k7b34aimp k7b34bimp k7b34eimp k7b94imp k7g12bimp {  
    2. recode `var' 1=0 2=1  
    3. tab `var'  
    4. }
```

(2,985 changes made to **k7b34aimp**)

K7B34A	Freq.	Percent	Cum.
0	1,833	61.41	61.41
1	1,152	38.59	100.00
Total	2,985	100.00	

(2,985 changes made to **k7b34bimp**)

K7B34B	Freq.	Percent	Cum.
0	1,874	62.78	62.78
1	1,111	37.22	100.00
Total	2,985	100.00	

(2,985 changes made to **k7b34eimp**)

K7B34E	Freq.	Percent	Cum.
0	910	30.49	30.49
1	2,075	69.51	100.00
Total	2,985	100.00	

(2,985 changes made to **k7b94imp**)

K7B94	Freq.	Percent	Cum.
0	394	13.20	13.20
1	2,591	86.80	100.00
Total	2,985	100.00	

(2,985 changes made to **k7g12bimp**)

K7G12B	Freq.	Percent	Cum.
0	1,624	54.41	54.41
1	1,361	45.59	100.00
Total	2,985	100.00	

29 .

30 . ologit ck7eduimp \$impvars

Iteration 0: Log likelihood = **-3631.9093**
Iteration 1: Log likelihood = **-2428.0962**
Iteration 2: Log likelihood = **-2259.1718**
Iteration 3: Log likelihood = **-2253.8749**
Iteration 4: Log likelihood = **-2253.8684**
Iteration 5: Log likelihood = **-2253.8684**

Ordered logistic regression

Number of obs = **2,98**

> 5

LR chi2(16) = **2756.0**

> 8

Prob > chi2 = **0.000**

> 0

Log likelihood = **-2253.8684**

Pseudo R2 = **0.379**

> 4

> -							
ck7eduimp		Coefficient	Std. err.	z	P> z	[95% conf. interval	
>]							
> -							
k7b3imp		.5206353	.0319879	16.28	0.000	.4579402	.583330
> 3							
k7b11imp		-.014163	.0017525	-8.08	0.000	-.0175978	-.010728
> 2							
k7b13imp		.3128271	.031719	9.86	0.000	.250659	.374995
> 2							
k7b25aimp		-.0926127	.0417581	-2.22	0.027	-.1744571	-.010768
> 3							
k7b25bimp		-.3498785	.0445126	-7.86	0.000	-.4371215	-.262635
> 4							
k7b34aimp		-.0571778	.1275142	-0.45	0.654	-.307101	.192745
> 3							
k7b34bimp		-.2706475	.128666	-2.10	0.035	-.5228282	-.018466
> 8							
k7b34eimp		.0156159	.0977383	0.16	0.873	-.1759476	.207179
> 4							
k7b89a_1imp		.8276006	.1011952	8.18	0.000	.6292616	1.0259
> 4							
k7b94imp		-.3081801	.1247724	-2.47	0.014	-.5527294	-.063630
> 8							
k7c57_6imp		-1.534685	.2507995	-6.12	0.000	-2.026243	-1.04312

```

> 7
  k7c60_2imp |    1.552661    .1232422    12.60    0.000        1.31111    1.79421
> 1
  k7c63_2imp |    1.385489    .1347073    10.29    0.000        1.121467    1.6495
> 1
  k7d37_1imp |    .4791346    .1218968     3.93    0.000        .2402213    .71804
> 8
  k7d37_102imp |   -.1695622    .2045481    -0.83    0.407       -.5704692    .231344
> 7
  k7g12bimp |    .0443462    .081515     0.54    0.586       -.1154203    .204112
> 7

```

```

> -
      /cut1 |   -704.9783    89.84381                                -881.0689    -528.887
> 7
      /cut2 |   -701.2563    89.83161                                -877.323    -525.189
> 5
      /cut3 |   -696.7556    89.81306                                -872.786    -520.725
> 3

```

```

> -

```

31 . r2o

Marginal distribution for cases in the estimation sample.

CK7EDU	Freq.	Percent	Cum.
1	326	10.92	10.92
2	1,155	38.69	49.61
3	1,181	39.56	89.18
4	323	10.82	100.00
Total	2,985	100.00	

Total Variation	Model Variation	Error Variation	Lacy r2o	Bias Adj. r2o
0.443769	0.203107	0.240662	0.45769	0.45476

32 .

33 . ologit ck7eduimp k7b3imp k7b11imp k7b13imp k7b25aimp k7b25bimp i.k7b34aimp
> i.k7b34bimp i.k7b34eimp k7b89a_1imp i.k7b94imp k7c57_6imp k7c60_2imp k7c63_
> 2imp k7d37_1imp k7d37_102imp i.k7g12bimp

Iteration 0: Log likelihood = **-3631.9093**
Iteration 1: Log likelihood = **-2428.0962**
Iteration 2: Log likelihood = **-2259.1718**
Iteration 3: Log likelihood = **-2253.8749**
Iteration 4: Log likelihood = **-2253.8684**
Iteration 5: Log likelihood = **-2253.8684**

Ordered logistic regression

Number of obs = **2,98**

> 5

LR chi2(16) = **2756.0**

> 8

Prob > chi2 = **0.000**

> 0

Log likelihood = **-2253.8684**

Pseudo R2 = **0.379**

> 4

<hr/>						
> -						
ck7eduimp	Coefficient	Std. err.	z	P> z	[95% conf. interval	
>]						
<hr/>						
> -						
k7b3imp	.5206353	.0319879	16.28	0.000	.4579402	.583330
> 3						
k7b11imp	-.014163	.0017525	-8.08	0.000	-.0175978	-.010728
> 2						
k7b13imp	.3128271	.031719	9.86	0.000	.250659	.374995
> 2						
k7b25aimp	-.0926127	.0417581	-2.22	0.027	-.1744571	-.010768
> 3						
k7b25bimp	-.3498785	.0445126	-7.86	0.000	-.4371215	-.262635
> 4						
1.k7b34aimp	-.0571778	.1275142	-0.45	0.654	-.307101	.192745
> 3						
1.k7b34bimp	-.2706475	.128666	-2.10	0.035	-.5228282	-.018466
> 8						
1.k7b34eimp	.0156159	.0977383	0.16	0.873	-.1759476	.207179
> 4						
k7b89a_1imp	.8276006	.1011952	8.18	0.000	.6292616	1.0259
> 4						
1.k7b94imp	-.3081801	.1247724	-2.47	0.014	-.5527294	-.063630

```

> 8
k7c57_6imp | -1.534685 .2507995 -6.12 0.000 -2.026243 -1.04312
> 7
k7c60_2imp | 1.552661 .1232422 12.60 0.000 1.31111 1.79421
> 1
k7c63_2imp | 1.385489 .1347073 10.29 0.000 1.121467 1.6495
> 1
k7d37_1imp | .4791346 .1218968 3.93 0.000 .2402213 .71804
> 8
k7d37_102imp | -.1695622 .2045481 -0.83 0.407 -.5704692 .231344
> 7
1.k7g12bimp | .0443462 .081515 0.54 0.586 -.1154203 .204112
> 7

```

```

> -
/cut1 | -704.9783 89.84381 -881.0689 -528.887
> 7
/cut2 | -701.2563 89.83161 -877.323 -525.189
> 5
/cut3 | -696.7556 89.81306 -872.786 -520.725
> 3

```

```

> -

```

34 . estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	2,985	-3631.909	-2253.868	19	4545.737	4659.763

Note: BIC uses N = number of observations. See [\[R\] IC note](#).

35 . margins, dydx(*)

Average marginal effects

Number of obs = 2,98

> 5

Model VCE: OIM

dy/dx wrt: k7b3imp k7b11imp k7b13imp k7b25aimp k7b25bimp 1.k7b34aimp
1.k7b34bimp 1.k7b34eimp k7b89a_1imp 1.k7b94imp k7c57_6imp
k7c60_2imp k7c63_2imp k7d37_1imp k7d37_102imp 1.k7g12bimp

1._predict: Pr(ck7eduimp==1), predict(pr outcome(1))

2._predict: Pr(ck7eduimp==2), predict(pr outcome(2))

3._predict: Pr(ck7eduimp==3), predict(pr outcome(3))

4._predict: Pr(ck7eduimp==4), predict(pr outcome(4))

> -		Delta-method				
		dy/dx	std. err.	z	P> z	[95% conf. interval
>]						
> -						
k7b3imp						
	_predict					
	1	-.0356912	.0023273	-15.34	0.000	-.0402527 -.031129
> 7						
	2	-.0196727	.0017931	-10.97	0.000	-.0231871 -.016158
> 3						
	3	.0211216	.0016149	13.08	0.000	.0179565 .024286
> 8						
	4	.0342423	.0021767	15.73	0.000	.0299761 .038508
> 4						
> -						
k7b11imp						
	_predict					
	1	.0009709	.0001168	8.31	0.000	.0007419 .001199
> 9						
	2	.0005352	.0000829	6.45	0.000	.0003726 .000697
> 7						
	3	-.0005746	.0000784	-7.33	0.000	-.0007282 -.000420
> 9						
	4	-.0009315	.0001173	-7.94	0.000	-.0011613 -.000701
> 7						
> -						

k7b13imp								
_predict								
	1		-.0214453	.002162	-9.92	0.000	-.0256827	-.017207
> 9								
	2		-.0118205	.0015522	-7.62	0.000	-.0148627	-.008778
> 3								
	3		.0126911	.001494	8.49	0.000	.0097628	.015619
> 3								
	4		.0205747	.0020975	9.81	0.000	.0164637	.024685
> 7								
> -								
k7b25aimp								
_predict								
	1		.0063489	.0028644	2.22	0.027	.0007348	.01196
> 3								
	2		.0034995	.0015945	2.19	0.028	.0003743	.006624
> 6								
	3		-.0037572	.0016965	-2.21	0.027	-.0070823	-.000432
> 1								
	4		-.0060912	.0027519	-2.21	0.027	-.0114849	-.000697
> 4								
> -								
k7b25bimp								
_predict								
	1		.0239853	.0030903	7.76	0.000	.0179285	.030042
> 1								
	2		.0132205	.0019209	6.88	0.000	.0094556	.016985
> 3								
	3		-.0141942	.0019369	-7.33	0.000	-.0179905	-.010397
> 9								
	4		-.0230116	.0029457	-7.81	0.000	-.028785	-.017238
> 1								
> -								
0.k7b34aimp			(base outcome)					
> -								
1.k7b34aimp								
_predict								
	1		.0039188	.0087356	0.45	0.654	-.0132027	.021040
> 4								
	2		.0021829	.0049203	0.44	0.657	-.0074608	.011826
> 5								
	3		-.0023618	.0053592	-0.44	0.659	-.0128657	.008142

> 1							
	4		-.0037399	.0082954	-0.45	0.652	-.0199986 .012518
> 9							
> -							
0.k7b34bimp			(base outcome)				
> -							
1.k7b34bimp							
_predict							
	1		.0185424	.0087941	2.11	0.035	.0013062 .035778
> 6							
	2		.0106668	.0053943	1.98	0.048	.0000942 .021239
> 3							
	3		-.0119245	.0061906	-1.93	0.054	-.0240578 .000208
> 9							
	4		-.0172848	.0079675	-2.17	0.030	-.0329008 -.001668
> 7							
> -							
0.k7b34eimp			(base outcome)				
> -							
1.k7b34eimp							
_predict							
	1		-.0010726	.0067262	-0.16	0.873	-.0142557 .012110
> 5							
	2		-.000586	.0036451	-0.16	0.872	-.0077303 .006558
> 3							
	3		.0006318	.0039477	0.16	0.873	-.0071056 .008369
> 1							
	4		.0010268	.0064235	0.16	0.873	-.011563 .013616
> 6							
> -							
k7b89a_1imp							
_predict							
	1		-.0567347	.0071547	-7.93	0.000	-.0707577 -.042711
> 7							
	2		-.0312716	.0043576	-7.18	0.000	-.0398124 -.022730
> 9							
	3		.0335749	.0046918	7.16	0.000	.0243791 .042770
> 8							
	4		.0544314	.0064698	8.41	0.000	.0417508 .06711
> 2							

```

> -
0.k7b94imp | (base outcome)
-----
> -
1.k7b94imp |
  _predict
    1 | .0198503 .0075507 2.63 0.009 .0050511 .034649
> 4      2 | .013654 .0063815 2.14 0.032 .0011466 .026161
> 4      3 | -.0125676 .0052 -2.42 0.016 -.0227594 -.002375
> 8      4 | -.0209367 .0087105 -2.40 0.016 -.038009 -.003864
> 5
-----
> -
k7c57_6imp |
  _predict
    1 | .1052076 .0169648 6.20 0.000 .0719572 .13845
> 8      2 | .0579894 .0108736 5.33 0.000 .0366776 .079301
> 3      3 | -.0622606 .0108052 -5.76 0.000 -.0834384 -.041082
> 8      4 | -.1009364 .0166363 -6.07 0.000 -.1335429 -.068329
> 9
-----
> -
k7c60_2imp |
  _predict
    1 | -.1064399 .0089708 -11.87 0.000 -.1240224 -.088857
> 3      2 | -.0586687 .0055707 -10.53 0.000 -.0695871 -.047750
> 3      3 | .0629899 .0050722 12.42 0.000 .0530485 .072931
> 2      4 | .1021187 .0085595 11.93 0.000 .0853424 .11889
> 5
-----
> -
k7c63_2imp |
  _predict
    1 | -.0949797 .009872 -9.62 0.000 -.1143284 -.07563
> 1      2 | -.0523519 .0055908 -9.36 0.000 -.0633097 -.041394
> 1

```

	3		.0562079	.0058173	9.66	0.000	.0448061	.067609
> 6								
	4		.0911238	.00895	10.18	0.000	.0735821	.108665
> 4								
<hr/>								
> -								
k7d37_limp								
_predict								
	1		-.0328462	.008396	-3.91	0.000	-.0493021	-.016390
> 3								
	2		-.0181045	.0048461	-3.74	0.000	-.0276027	-.008606
> 3								
	3		.019438	.0052253	3.72	0.000	.0091965	.029679
> 5								
	4		.0315127	.0079181	3.98	0.000	.0159936	.047031
> 9								
<hr/>								
> -								
k7d37_102imp								
_predict								
	1		.011624	.0140168	0.83	0.407	-.0158485	.039096
> 5								
	2		.0064071	.007755	0.83	0.409	-.0087925	.021606
> 6								
	3		-.006879	.0083108	-0.83	0.408	-.0231679	.0094
> 1								
	4		-.0111521	.0134539	-0.83	0.407	-.0375212	.015216
> 9								
<hr/>								
> -								
0.k7g12bimp			(base outcome)					
<hr/>								
> -								
1.k7g12bimp								
_predict								
	1		-.0030375	.0055776	-0.54	0.586	-.0139693	.007894
> 3								
	2		-.0016792	.0030973	-0.54	0.588	-.0077498	.004391
> 5								
	3		.0017989	.0033068	0.54	0.586	-.0046824	.008280
> 1								
	4		.0029178	.0053668	0.54	0.587	-.007601	.013436
> 6								
<hr/>								

> -
Note: dy/dx for factor levels is the discrete change from the base level.

```
36 . ologit ck7eduimp k7b3imp k7b11imp k7b13imp k7b25aimp k7b25bimp i.k7b34aimp
> i.k7b34bimp i.k7b34eimp k7b89a_1imp i.k7b94imp k7c57_6imp k7c60_2imp k7c63_
> 2imp k7d37_1imp k7d37_102imp i.k7g12bimp, or
```

Ordered logistic regression

Number of obs = 2,98

		Odds ratio	Std. err.	z	P> z	[95% conf. interval	
> -	ck7eduimp						
>]							
> -	k7b3imp	1.683097	.0538387	16.28	0.000	1.580814	1.79199
> 6	k7b11imp	.9859368	.0017279	-8.08	0.000	.9825561	.989329
> 2	k7b13imp	1.367285	.0433689	9.86	0.000	1.284872	1.45498
> 4	k7b25aimp	.9115464	.0380645	-2.22	0.027	.8399129	.989289
> 4	k7b25bimp	.7047737	.0313713	-7.86	0.000	.6458929	.769022
> 2	1.k7b34aimp	.9444261	.1204277	-0.45	0.654	.7355763	1.21257
> 4	1.k7b34bimp	.7628854	.0981574	-2.10	0.035	.5928415	.981702
> 6	1.k7b34eimp	1.015738	.0992765	0.16	0.873	.8386619	1.23020
> 3	k7b89a_1imp	2.287823	.2315168	8.18	0.000	1.876225	2.78971
> 6	1.k7b94imp	.734783	.0916806	-2.47	0.014	.5753772	.938351

```

> 4
  k7c57_6imp | .2155236 .0540532 -6.12 0.000 .1318299 .352351
> 2
  k7c60_2imp | 4.724023 .5821991 12.60 0.000 3.710291 6.01472
> 7
  k7c63_2imp | 3.996778 .5383951 10.29 0.000 3.069354 5.20442
> 9
  k7d37_1imp | 1.614677 .1968239 3.93 0.000 1.27153 2.05042
> 7
  k7d37_102imp | .8440342 .1726456 -0.83 0.407 .5652602 1.26029
> 4
  1.k7g12bimp | 1.045344 .0852113 0.54 0.586 .8909916 1.22643
> 6

```

```

> -
    /cut1 | -704.9783 89.84381 -881.0689 -528.887
> 7
    /cut2 | -701.2563 89.83161 -877.323 -525.189
> 5
    /cut3 | -696.7556 89.81306 -872.786 -520.725
> 3

```

```

> -

```

Note: Estimates are transformed only in the first equation to odds ratios.

37 .

```

38 . ologit ck7eduimp k7b3imp k7b11imp k7b13imp k7b25aimp i.k7b25bimp i.k7b34aim
> p i.k7b34bimp i.k7b34eimp k7b89a_1imp i.k7b94imp k7c57_6imp k7c60_2imp k7c6
> 3_2imp k7d37_1imp k7d37_102imp i.k7g12bimp

```

```

Iteration 0: Log likelihood = -3631.9093
Iteration 1: Log likelihood = -2421.0461
Iteration 2: Log likelihood = -2247.5008
Iteration 3: Log likelihood = -2241.7128
Iteration 4: Log likelihood = -2241.7045
Iteration 5: Log likelihood = -2241.7045

```

Ordered logistic regression

Number of obs = 2,98

```
> 5
```

LR chi2(26) = 2780.4

```
> 1
```

Prob > chi2 = 0.000

```
> 0
```

Log likelihood = -2241.7045

Pseudo R2 = 0.382

```
> 8
```

> -						
ck7eduimp	Coefficient	Std. err.	z	P> z	[95% conf. interval	
>]						
> -						
k7b3imp	.5183947	.0320967	16.15	0.000	.4554863	.581303
> 1						
k7b11imp	-.0139154	.0017567	-7.92	0.000	-.0173584	-.010472
> 3						
k7b13imp	.313205	.0318261	9.84	0.000	.250827	.375582
> 9						
k7b25aimp	-.0967504	.0420887	-2.30	0.022	-.1792427	-.01425
> 8						
k7b25bimp						
2012	.7089544	2.499511	0.28	0.777	-4.189997	5.60790
> 6						
2013	-2.806604	2.950397	-0.95	0.341	-8.589276	2.97606
> 7						
2014	1.054869	2.397046	0.44	0.660	-3.643255	5.75299
> 3						
2015	2.018629	2.173028	0.93	0.353	-2.240428	6.27768
> 5						
2016	1.60678	2.089119	0.77	0.442	-2.487818	5.70137
> 8						
2017	1.414955	2.08723	0.68	0.498	-2.67594	5.5058
> 5						
2018	.7780474	2.086634	0.37	0.709	-3.311681	4.86777
> 6						
2019	.6083664	2.090385	0.29	0.771	-3.488714	4.70544
> 6						
2020	.036845	2.108916	0.02	0.986	-4.096555	4.17024
> 4						
2021	.1563496	2.132802	0.07	0.942	-4.023865	4.33656
> 4						
2022	.2380887	2.2705	0.10	0.916	-4.21201	4.68818
> 7						
1.k7b34aimp	-.0590415	.1278105	-0.46	0.644	-.3095454	.191462
> 5						
1.k7b34bimp	-.2693466	.1290289	-2.09	0.037	-.5222387	-.016454
> 5						
1.k7b34eimp	.0009117	.0981155	0.01	0.993	-.1913911	.193214
> 4						
k7b89a_1imp	.8204173	.1022945	8.02	0.000	.6199238	1.02091

```

> 1
  1.k7b94imp |  -0.3076637   .125359   -2.45   0.014   -0.5533629   -0.061964
> 5
  k7c57_6imp |  -1.53794   .2520628   -6.10   0.000   -2.031974   -1.04390
> 6
  k7c60_2imp |   1.564543   .1250377   12.51   0.000    1.319473    1.80961
> 2
  k7c63_2imp |   1.390391   .1358051   10.24   0.000    1.124218    1.65656
> 4
  k7d37_1imp |   .4868627   .1223429    3.98   0.000    .247075    .726650
> 4
  k7d37_102imp |  -0.1493548   .2051643   -0.73   0.467   -0.5514693   .252759
> 8
  1.k7g12bimp |   .0473653   .0822735    0.58   0.565   -0.1138878   .208618
> 4

```

```

> -
      /cut1 |   1.898687   2.116138                -2.248867    6.04624
> 1
      /cut2 |   5.649937   2.119239                1.496304    9.80356
> 9
      /cut3 |  10.16602   2.128121                5.994982   14.3370
> 6

```

```

> -

```

39 . estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	2,985	-3631.909	-2241.705	29	4541.409	4715.448

Note: BIC uses N = number of observations. See [\[R\] IC note](#).

40 . margins, dydx(*)

Average marginal effects

Number of obs = 2,98

> 5

Model VCE: OIM

dy/dx wrt: k7b3imp k7b11imp k7b13imp k7b25aimp 2012.k7b25bimp
2013.k7b25bimp 2014.k7b25bimp 2015.k7b25bimp 2016.k7b25bimp
2017.k7b25bimp 2018.k7b25bimp 2019.k7b25bimp 2020.k7b25bimp
2021.k7b25bimp 2022.k7b25bimp 1.k7b34aimp 1.k7b34bimp
1.k7b34eimp k7b89a_1imp 1.k7b94imp k7c57_6imp k7c60_2imp
k7c63_2imp k7d37_1imp k7d37_102imp 1.k7g12bimp

1._predict: Pr(ck7eduimp==1), predict(pr outcome(1))

2._predict: Pr(ck7eduimp==2), predict(pr outcome(2))

3._predict: Pr(ck7eduimp==3), predict(pr outcome(3))

4._predict: Pr(ck7eduimp==4), predict(pr outcome(4))

		Delta-method				
		dy/dx	std. err.	z	P> z	[95% conf. inter
> val]						
> _____						
k7b3imp						
_predict						
1		-.0352111	.0023034	-15.29	0.000	-.0397256 -.030
> 6966						
2		-.0197703	.0017904	-11.04	0.000	-.0232794 -.016
> 2611						
3		.0211998	.001612	13.15	0.000	.0180404 .024
> 3593						
4		.0337815	.0021671	15.59	0.000	.0295341 .038
> 0289						
> _____						
k7b11imp						
_predict						
1		.0009452	.000116	8.15	0.000	.0007177 .001
> 1726						
2		.0005307	.0000829	6.40	0.000	.0003682 .000
> 6932						
3		-.0005691	.0000786	-7.24	0.000	-.0007232 -.00
> 0415						
4		-.0009068	.0001165	-7.79	0.000	-.0011351 -.000

```

> 6785
|-----|
k7b13imp
  _predict
    1 | -.0212739 .0021464 -9.91 0.000 -.0254807 -.017
> 0671    2 | -.0119448 .0015579 -7.67 0.000 -.0149983 -.008
> 8914    3 | .0128086 .0014969 8.56 0.000 .0098746 .015
> 7425    4 | .0204102 .0020892 9.77 0.000 .0163155 .024
> 5049
|-----|
k7b25aimp
  _predict
    1 | .0065716 .0028588 2.30 0.022 .0009684 .012
> 1748    2 | .0036898 .0016257 2.27 0.023 .0005034 .006
> 8762    3 | -.0039566 .0017253 -2.29 0.022 -.0073381 -.000
> 5752    4 | -.0063048 .0027484 -2.29 0.022 -.0116916 -.00
> 0918
|-----|
> -----
2010.k7b25bimp | (base outcome)
|-----|
> -----
2012.k7b25bimp
  _predict
    1 | -.0610835 .2256221 -0.27 0.787 -.5032946 .381
> 1276    2 | -.0105504 .0399515 -0.26 0.792 -.0888539 .06
> 7753    3 | .0372425 .1376888 0.27 0.787 -.2326225 .307
> 1075    4 | .0343914 .114484 0.30 0.764 -.1899931 .258
> 7758
|-----|
> -----
2013.k7b25bimp
  _predict
    1 | .3108131 .2999283 1.04 0.300 -.2770355 .898
> 6618

```

	2	-.0565347	.0576731	-0.98	0.327	-.169572	.056
> 5025							
	3	-.2078041	.1993866	-1.04	0.297	-.5985947	.182
> 9865							
	4	-.0464743	.0829414	-0.56	0.575	-.2090364	.116
> 0878							
<hr/>							
> ———							
2014.k7b25bimp							
_predict							
	1	-.0854592	.2142902	-0.40	0.690	-.5054602	.334
> 5418							
	2	-.0230029	.051317	-0.45	0.654	-.1235824	.077
> 5766							
	3	.0526344	.1313129	0.40	0.689	-.2047343	.31
> 0003							
	4	.0558277	.1137506	0.49	0.624	-.1671194	.278
> 7748							
<hr/>							
> ———							
2015.k7b25bimp							
_predict							
	1	-.1347348	.2013466	-0.67	0.503	-.5293669	.259
> 8974							
	2	-.0822076	.0478261	-1.72	0.086	-.175945	.011
> 5298							
	3	.087806	.1231256	0.71	0.476	-.1535157	.329
> 1277							
	4	.1291364	.0971366	1.33	0.184	-.0612479	.319
> 5206							
<hr/>							
> ———							
2016.k7b25bimp							
_predict							
	1	-.1168638	.2000785	-0.58	0.559	-.5090104	.275
> 2828							
	2	-.0528643	.0104588	-5.05	0.000	-.0733633	-.032
> 3654							
	3	.0740051	.1216711	0.61	0.543	-.1644658	.312
> 4759							
	4	.095723	.0830613	1.15	0.249	-.0670742	.258
> 5203							
<hr/>							
> ———							
2017.k7b25bimp							
_predict							

	1	-.1069633	.2000585	-0.53	0.593	-.4990707	.285
> 1441							
	2	-.0411551	.0072909	-5.64	0.000	-.055445	-.026
> 8652							
	3	.0669795	.1216237	0.55	0.582	-.1713985	.305
> 3576							
	4	.0811389	.0827121	0.98	0.327	-.0809738	.243
> 2516							
<hr/>							
> _____							
2018.k7b25bimp							
_predict							
	1	-.0662458	.2000797	-0.33	0.741	-.4583948	.325
> 9032							
	2	-.0126413	.0048643	-2.60	0.009	-.0221752	-.003
> 1075							
	3	.0404534	.1215734	0.33	0.739	-.1978261	.278
> 7329							
	4	.0384338	.0825818	0.47	0.642	-.1234236	.200
> 2912							
<hr/>							
> _____							
2019.k7b25bimp							
_predict							
	1	-.0533079	.2003384	-0.27	0.790	-.4459639	.339
> 3481							
	2	-.0078577	.0054478	-1.44	0.149	-.0185351	.002
> 8198							
	3	.0324405	.1217178	0.27	0.790	-.206122	.27
> 1003							
	4	.0287251	.0828584	0.35	0.729	-.1336744	.191
> 1245							
<hr/>							
> _____							
2020.k7b25bimp							
_predict							
	1	-.0035167	.2022271	-0.02	0.986	-.3998745	.39
> 2841							
	2	-.0000926	.0040823	-0.02	0.982	-.0080938	.007
> 9086							
	3	.0021352	.1228237	0.02	0.986	-.2385948	.242
> 8652							
	4	.0014741	.0834674	0.02	0.986	-.162119	.165
> 0672							
<hr/>							
> _____							

2021.k7b25bimp							
	_predict						
	1	-.0146809	.2041901	-0.07	0.943	-.4148861	.385
> 5242							
	2	-.0007123	.005131	-0.14	0.890	-.0107689	.009
> 3443							
	3	.0089079	.124018	0.07	0.943	-.2341629	.251
> 9787							
	4	.0064853	.0847415	0.08	0.939	-.159605	.172
> 5757							
<hr/>							
2022.k7b25bimp							
	_predict						
	1	-.0220968	.2155934	-0.10	0.918	-.4446521	.400
> 4585							
	2	-.0014281	.010027	-0.14	0.887	-.0210807	.018
> 2245							
	3	.013406	.1309335	0.10	0.918	-.243219	.27
> 0031							
	4	.0101189	.0920467	0.11	0.912	-.1702893	.19
> 0527							
<hr/>							
0.k7b34aimp		(base outcome)					
<hr/>							
1.k7b34aimp							
	_predict						
	1	.0040096	.0086769	0.46	0.644	-.0129968	.02
> 1016							
	2	.0022751	.0049774	0.46	0.648	-.0074804	.012
> 0306							
	3	-.0024589	.0054167	-0.45	0.650	-.0130756	.008
> 1577							
	4	-.0038258	.0082361	-0.46	0.642	-.0199683	.012
> 3168							
<hr/>							
0.k7b34bimp		(base outcome)					
<hr/>							
1.k7b34bimp							
	_predict						
	1	.0182901	.0087425	2.09	0.036	.0011552	.03
> 5425							

> 3549	2		.0106944	.0054392	1.97	0.049	.0000338	.021
> 2727	3		-.0119325	.0062273	-1.92	0.055	-.0241377	.000
> 5185	4		-.017052	.0079254	-2.15	0.031	-.0325856	-.001
<hr/>								
> _____								
0.k7b34eimp			(base outcome)					
<hr/>								
> _____								
1.k7b34eimp								
_predict								
> 0028	1		-.0000619	.0066658	-0.01	0.993	-.0131267	.013
> 2938	2		-.0000348	.0037391	-0.01	0.993	-.0073633	.007
> 8996	3		.0000373	.0040115	0.01	0.993	-.0078251	.007
> 5904	4		.0000594	.0063935	0.01	0.993	-.0124716	.012
<hr/>								
> _____								
k7b89a_1imp								
_predict								
> 6982	1		-.0557255	.0071569	-7.79	0.000	-.0697528	-.041
> 6594	2		-.0312887	.0044027	-7.11	0.000	-.0399179	-.022
> 8491	3		.0335511	.0047439	7.07	0.000	.0242531	.042
> 1753	4		.053463	.006486	8.24	0.000	.0407507	.066
<hr/>								
> _____								
0.k7b94imp			(base outcome)					
<hr/>								
> _____								
1.k7b94imp								
_predict								
> 4106	1		.0196539	.0075291	2.61	0.009	.0048972	.034
> 2611	2		.0136879	.0064151	2.13	0.033	.0011146	.026
> 3386	3		-.0126365	.0052541	-2.41	0.016	-.0229344	-.002

	4		-.0207053	.0086691	-2.39	0.017	-.0376965	-.003
<hr/>								
> _____								
k7c57_6imp								
	_predict							
	1		.104462	.0168943	6.18	0.000	.0713498	.137
<hr/>								
> 5743								
	2		.0586532	.0109729	5.35	0.000	.0371467	.080
<hr/>								
> 1596								
	3		-.0628943	.0109171	-5.76	0.000	-.0842914	-.041
<hr/>								
> 4973								
	4		-.1002209	.0165656	-6.05	0.000	-.1326888	-.067
<hr/>								
> 7529								
> _____								
k7c60_2imp								
	_predict							
	1		-.106269	.0090294	-11.77	0.000	-.1239663	-.088
<hr/>								
> 5716								
	2		-.0596677	.0056127	-10.63	0.000	-.0706684	-.048
<hr/>								
> 6671								
	3		.0639822	.0051646	12.39	0.000	.0538597	.074
<hr/>								
> 1047								
	4		.1019544	.0085897	11.87	0.000	.085119	.118
<hr/>								
> 7899								
> _____								
k7c63_2imp								
	_predict							
	1		-.09444	.0098495	-9.59	0.000	-.1137446	-.075
<hr/>								
> 1354								
	2		-.053026	.005639	-9.40	0.000	-.0640783	-.041
<hr/>								
> 9737								
	3		.0568603	.0058791	9.67	0.000	.0453375	.06
<hr/>								
> 8383								
	4		.0906057	.0089377	10.14	0.000	.0730882	.108
<hr/>								
> 1233								
> _____								
k7d37_1imp								
	_predict							
	1		-.0330693	.0083523	-3.96	0.000	-.0494395	-.016
<hr/>								
> 6992								
	2		-.0185677	.0049012	-3.79	0.000	-.0281739	-.008
<hr/>								
> 9615								

	3		.0199103	.0052851	3.77	0.000	.0095517	.03
> 0269								
	4		.0317267	.0078701	4.03	0.000	.0163016	.047
> 1518								
<hr/>								
> _____								
k7d37_102imp								
_predict								
	1		.0101447	.0139285	0.73	0.466	-.0171546	.03
> 7444								
	2		.005696	.0078484	0.73	0.468	-.0096866	.021
> 0787								
	3		-.0061079	.0084014	-0.73	0.467	-.0225742	.010
> 3585								
	4		-.0097328	.0133702	-0.73	0.467	-.035938	.016
> 4724								
<hr/>								
> _____								
0.k7g12bimp			(base outcome)					
<hr/>								
> _____								
1.k7g12bimp								
_predict								
	1		-.0032144	.0055775	-0.58	0.564	-.0141461	.007
> 7174								
	2		-.0018104	.0031561	-0.57	0.566	-.0079962	.004
> 3755								
	3		.001937	.0033661	0.58	0.565	-.0046603	.008
> 5344								
	4		.0030877	.0053662	0.58	0.565	-.0074299	.013
> 6053								
<hr/>								

> _____
Note: dy/dx for factor levels is the discrete change from the base level.


```

41 . ologit ck7eduimp k7b3imp k7b11imp k7b13imp k7b25aimp i.k7b25bimp i.k7b34aim
> p i.k7b34bimp i.k7b34eimp k7b89a_1imp i.k7b94imp k7c57_6imp k7c60_2imp k7c6
> 3_2imp k7d37_1imp k7d37_102imp i.k7g12bimp, or

```

```

Iteration 0: Log likelihood = -3631.9093
Iteration 1: Log likelihood = -2421.0461
Iteration 2: Log likelihood = -2247.5008
Iteration 3: Log likelihood = -2241.7128
Iteration 4: Log likelihood = -2241.7045
Iteration 5: Log likelihood = -2241.7045

```

```

Ordered logistic regression
> 5

```

Number of obs = 2,98

```
> 1
```

LR chi2(26) = 2780.4

```
> 0
```

Prob > chi2 = 0.000

```
Log likelihood = -2241.7045
```

Pseudo R2 = 0.382

```
> 8
```

		Odds ratio	Std. err.	z	P> z	[95% conf. interval	
> -							
ck7eduimp							
>]							
> -							
k7b3imp		1.67933	.053901	16.15	0.000	1.57694	1.78836
> 7							
k7b11imp		.986181	.0017324	-7.92	0.000	.9827914	.989582
> 3							
k7b13imp		1.367802	.0435317	9.84	0.000	1.285088	1.4558
> 4							
k7b25aimp		.9077826	.0382074	-2.30	0.022	.835903	.985843
> 1							
k7b25bimp							
2012		2.031866	5.078671	0.28	0.777	.0151463	272.572
> 9							
2013		.0604098	.1782328	-0.95	0.341	.0001861	19.6105
> 4							
2014		2.871598	6.883353	0.44	0.660	.026167	315.132
> 4							
2015		7.527994	16.35854	0.93	0.353	.106413	532.554
> 4							
2016		4.98673	10.41787	0.77	0.442	.0830911	299.279
> 7							

	2017	4.116303	8.591669	0.68	0.498	.0688421	246.127
> 7							
	2018	2.177217	4.543056	0.37	0.709	.0364548	130.031
> 4							
	2019	1.837427	3.840931	0.29	0.771	.0305401	110.547
> 6							
	2020	1.037532	2.188068	0.02	0.986	.0166299	64.7312
> 8							
	2021	1.169235	2.493746	0.07	0.942	.0178837	76.4444
> 4							
	2022	1.268822	2.88086	0.10	0.916	.0148166	108.65
> 6							
	1.k7b34aimp	.9426677	.1204828	-0.46	0.644	.7337804	1.21101
> 9							
	1.k7b34bimp	.7638785	.0985624	-2.09	0.037	.5931911	.983680
> 1							
	1.k7b34eimp	1.000912	.0982049	0.01	0.993	.8258095	1.21314
> 3							
	k7b89a_1imp	2.271448	.2323566	8.02	0.000	1.858786	2.77572
> 2							
	1.k7b94imp	.7351625	.0921593	-2.45	0.014	.5750128	.939916
> 3							
	k7c57_6imp	.2148232	.0541489	-6.10	0.000	.1310765	.352076
> 7							
	k7c60_2imp	4.780488	.5977412	12.51	0.000	3.74145	6.10807
> 8							
	k7c63_2imp	4.016419	.5454501	10.24	0.000	3.077808	5.2412
> 7							
	k7d37_1imp	1.627203	.1990768	3.98	0.000	1.280275	2.06814
> 2							
	k7d37_102imp	.8612635	.1767005	-0.73	0.467	.5761027	1.28757
> 4							
	1.k7g12bimp	1.048505	.0862642	0.58	0.565	.8923581	1.23197
> 5							
> -							
	/cut1	1.898687	2.116138			-2.248867	6.04624
> 1							
	/cut2	5.649937	2.119239			1.496304	9.80356
> 9							
	/cut3	10.16602	2.128121			5.994982	14.3370
> 6							

> -
Note: Estimates are transformed only in the first equation to odds ratios.

```
42 .
43 .
44 . ** Predicted probabilities for each outcome of ck7edu (1 to 4) over each ob
    > served level of k7b3 (from 2 to 8).
45 . ** This means we're examining how the probability of being in each educatio
    > nal attainment category (ck7edu) varies across different levels of educatio
    > nal aspirations (k7b3), using the actual data distribution within each leve
    > l of k7b3.
46 . //margins, over(k7b3imp)
47 .
48 . log close
    name: <unnamed>
    log: /Users/miguelhenry/Library/Mobile Documents/com~apple~CloudDocs/
> Personal/CONSULTING/Log Files//ffcws_ol_impdata.smcl
    log type: smcl
    closed on: 27 Sep 2024, 22:52:13
```
