```
  __   __   __   __   ___(R)
 /_   /   /__/  /   /__/
__/   /   /__/  /   /__/
        Statistics/Data analysis
```

```
 1 .
 2 .
 3 . **STEP 17: TABLE 5: MED4WAY FOR DIFFERENT PROBABILITIES OF DEMENTIA AS EXPOSURE, POOR SLEEP AS MEDIATORS, AND A
 4 .
 5 .
 6 . use finaldata_imputed_FINAL,clear

 7 .
 8 . ****************************OVERALL****************************
 9 . capture drop zpoorsleep_2006

10 . capture drop zpoorsleepalt_2006

11 . capture drop zlnhurd_odds

12 . capture drop zlnexpert_odds

13 . capture drop zlnlasso_odds

14 . foreach x of varlist poorsleep_2006 poorsleepalt_2006 lnhurd_odds lnexpert_odds lnlasso_odds {
   2.          mi passive: egen z`x'=std(`x') if sample_final==1
   3. }
 (passive variables zpoorsleep_2006 zpoorsleepalt_2006 zlnhurd_odds zlnexpert_odds zlnlasso_odds unregistered beca
 m=0:
 (36,570 missing values generated)
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 m=5:
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m=2:
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m=5:
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m=0:
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m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)

15 .
16 . save, replace
   (file **C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp** not found)
   file **C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp** saved as .dta format

17 .
18 .
19 .
20 .
21 .
22 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
    2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleep_2006 AGE2006 SEX NonWhite if sample_final==1 , a0(0)
    3. }
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
   Warning: this analysis assumes a rare outcome.
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   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

   Multiple-imputation estimates   Imputations   =   5
                                          Number of obs   =   6,991
                                          Average RVI   =   0.0000
                                          Largest FMI   =   0.0000
   DF adjustment: **Large sample**   DF: min   =   .
                                                   avg   =   .
                                                   max   =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.3952482	.0190564	20.74	0.000	.3578984	.432598
ereri_cde	.3946972	.0188357	20.95	0.000	.3577798	.4316145
ereri_intref	-.0001351	.0004902	-0.28	0.783	-.0010958	.0008256
ereri_intmed	.0000431	.0002847	0.15	0.880	-.0005149	.0006011
ereri_pie	.000643	.0005933	1.08	0.278	-.0005198	.0018058

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates   Imputations   =   **5**
                                       Number of obs   =   **6,991**
                                       Average RVI   =   **0.0000**
                                       Largest FMI   =   **0.0000**
DF adjustment: **Large sample**   DF: min   =   **.**
                                             avg   =   **.**
                                             max   =   **.**

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.620332	.0298519	20.78	0.000	.5618232	.6788407
ereri_cde	.62222	.0298394	20.85	0.000	.5637359	.6807041
ereri_intref	-.000225	.0012106	-0.19	0.853	-.0025977	.0021477
ereri_intmed	-.003386	.0015388	-2.20	0.028	-.006402	-.00037
ereri_pie	.0017229	.0009179	1.88	0.061	-.0000762	.003522

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Multiple-imputation estimates   Imputations   =   **5**
                                       Number of obs   =   **6,991**
                                       Average RVI   =   **0.0000**
                                       Largest FMI   =   **0.0000**
DF adjustment: **Large sample**   DF: min   =   **.**
                                             avg   =   **.**
                                             max   =   **.**

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5824185	.0268033	21.73	0.000	.529885	.6349521
ereri_cde	.5833515	.026764	21.80	0.000	.530895	.6358079
ereri_intref	-.0006987	.0008906	-0.78	0.433	-.0024443	.0010468
ereri_intmed	-.0011519	.0008618	-1.34	0.181	-.0028411	.0005372
ereri_pie	.0009177	.0006512	1.41	0.159	-.0003585	.002194

```
23 .
24 . ***************SENSITIVITY ANALYSIS, OVERALL******************
25 .
26 .
27 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
   2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleepalt_2006  AGE2006 SEX NonWhite if sample_final==1 , a0
   3. }
```
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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```
Multiple-imputation estimates              Imputations      =          5
                                           Number of obs    =      6,991
                                           Average RVI      =     0.0000
                                           Largest FMI      =     0.0000
DF adjustment:   Large sample              DF:     min      =          .
                                                   avg      =          .
                                                   max      =          .
```

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.3945978	.0191836	20.57	0.000	.3569987	.432197
ereri_cde	.3945338	.0190297	20.73	0.000	.3572363	.4318312
ereri_intref	-.0001351	.0003825	-0.35	0.724	-.0008847	.0006145
ereri_intmed	-3.30e-07	.0001125	-0.00	0.998	-.0002208	.0002202
ereri_pie	.0001994	.0004437	0.45	0.653	-.0006702	.001069

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Multiple-imputation estimates   Imputations   =   5
                                                Number of obs   =   6,991
                                                Average RVI   =   0.0000
                                                Largest FMI   =   0.0000
DF adjustment: **Large sample**   <u>DF</u>:   min =   .
                                                          avg =   .
                                                          max =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6201905	.0298415	20.78	0.000	.5617023	.6786787
ereri_cde	.622131	.0298303	20.86	0.000	.5636647	.6805973
ereri_intref	.0004358	.0014367	0.30	0.762	-.0023801	.0032517
ereri_intmed	-.003574	.0015607	-2.29	0.022	-.006633	-.000515
ereri_pie	.0011977	.0008067	1.48	0.138	-.0003834	.0027789

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates   Imputations   =   5
                                                Number of obs   =   6,991
                                                Average RVI   =   0.0000
                                                Largest FMI   =   0.0000
DF adjustment: **Large sample**   <u>DF</u>:   min =   .
                                                          avg =   .
                                                          max =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5818884	.0267885	21.72	0.000	.5293839	.6343929
ereri_cde	.5825981	.026767	21.77	0.000	.5301358	.6350604
ereri_intref	-.0002535	.0010623	-0.24	0.811	-.0023355	.0018285
ereri_intmed	-.0009937	.0008953	-1.11	0.267	-.0027484	.000761
ereri_pie	.0005375	.0005084	1.06	0.290	-.000459	.001534

```
28 .
29 .
30 . ******************************MEN******************************
31 . capture drop zpoorsleep_2006
```

```
32 . capture drop zpoorsleepalt_2006

33 . capture drop zlnhurd_odds

34 . capture drop zlnexpert_odds

35 . capture drop zlnlasso_odds

36 . foreach x of varlist poorsleep_2006 poorsleepalt_2006 lnhurd_odds lnexpert_odds lnlasso_odds {
  2.          mi passive: egen z`x'=std(`x') if sample_final==1
  3. }
(passive variables zpoorsleep_2006 zpoorsleepalt_2006 zlnhurd_odds zlnexpert_odds zlnlasso_odds unregistered beca
m=0:
(36,570 missing values generated)
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    (36,570 missing values generated)
    m=2:
    (36,570 missing values generated)
    m=3:
    (36,570 missing values generated)
    m=4:
    (36,570 missing values generated)
    m=5:
    (36,570 missing values generated)

37 .
38 . save, replace
    (file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp not found)
    file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp saved as .dta format

39 .
40 .
41 .
42 .
43 .
44 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
    2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleep_2006  AGE2006 SEX NonWhite  if SEX==1 , a0(0) a1(1) m
    3. }
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
```

Multiple-imputation estimates		Imputations	=	5
		Number of obs	=	2,931
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment: **Large sample**		DF: min	=	.
		avg	=	.
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5678424	.0455749	12.46	0.000	.4785172	.6571677
ereri_cde	.5573699	.0452396	12.32	0.000	.468702	.6460378
ereri_intref	.0137753	.0070672	1.95	0.051	-.0000762	.0276267
ereri_intmed	-.0058136	.0032769	-1.77	0.076	-.0122362	.000609
ereri_pie	.0025108	.0016979	1.48	0.139	-.000817	.0058386

```
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
```

Multiple-imputation estimates

	Imputations	=	5
	Number of obs	=	2,931
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
DF adjustment: **Large sample**	<u>DF</u>: min	=	.
	avg	=	.
	max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.606862	.0504598	12.03	0.000	.5079626	.7057614
ereri_cde	.6020177	.0505918	11.90	0.000	.5028597	.7011758
ereri_intref	.0063947	.0061813	1.03	0.301	-.0057205	.0185099
ereri_intmed	-.0044644	.0038494	-1.16	0.246	-.012009	.0030802
ereri_pie	.0029139	.0022069	1.32	0.187	-.0014114	.0072393

Warning: this analysis assumes a rare outcome.
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Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates

	Imputations	=	5
	Number of obs	=	2,931
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
DF adjustment: **Large sample**	<u>DF</u>: min	=	.
	avg	=	.
	max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5737732	.0441526	13.00	0.000	.4872357	.6603107
ereri_cde	.5678757	.0441181	12.87	0.000	.4814059	.6543455
ereri_intref	.0073008	.005829	1.25	0.210	-.0041238	.0187254
ereri_intmed	-.0037328	.0027408	-1.36	0.173	-.0091047	.0016392
ereri_pie	.0023295	.0016708	1.39	0.163	-.0009452	.0056042

```
45 .
46 .
47 . ***************SENSITIVITY ANALYSIS*****************
48 .
49 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
   2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleepalt_2006  AGE2006 SEX NonWhite if SEX==1 , a0(0) a1(1)
   3. }
```
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Multiple-imputation estimates

			Imputations	=	5
			Number of obs	=	2,931
			Average RVI	=	0.0000
			Largest FMI	=	0.0000
DF adjustment:	**Large sample**		DF: min	=	.
			avg	=	.
			max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5622163	.0451138	12.46	0.000	.4737949	.6506377
ereri_cde	.5515975	.0448538	12.30	0.000	.4636856	.6395095
ereri_intref	.0138209	.0071037	1.95	0.052	-.0001021	.0277439
ereri_intmed	-.0051944	.0031866	-1.63	0.103	-.01144	.0010513
ereri_pie	.0019922	.0015054	1.32	0.186	-.0009583	.0049428

Warning: this analysis assumes a rare outcome.
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Multiple-imputation estimates

			Imputations	=	5
			Number of obs	=	2,931
			Average RVI	=	0.0000
			Largest FMI	=	0.0000
DF adjustment:	**Large sample**		DF: min	=	.
			avg	=	.
			max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6068984	.0504683	12.03	0.000	.5079823	.7058145
ereri_cde	.6023856	.0505663	11.91	0.000	.5032774	.7014938
ereri_intref	.007374	.0062206	1.19	0.236	-.0048181	.019566
ereri_intmed	-.0054112	.0040617	-1.33	0.183	-.013372	.0025496
ereri_pie	.0025501	.0022395	1.14	0.255	-.0018393	.0069394

Warning: this analysis assumes a rare outcome.
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Multiple-imputation estimates

			Imputations	=	5
			Number of obs	=	2,931
			Average RVI	=	0.0000
			Largest FMI	=	0.0000
DF adjustment:	**Large sample**		<u>DF</u>: min	=	.
			avg	=	.
			max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5733522	.0441371	12.99	0.000	.4868451	.6598593
ereri_cde	.5677775	.0441054	12.87	0.000	.4813324	.6542226
ereri_intref	.0074427	.0057602	1.29	0.196	-.0038471	.0187325
ereri_intmed	-.0038853	.0027793	-1.40	0.162	-.0093326	.0015619
ereri_pie	.0020174	.0016124	1.25	0.211	-.0011428	.0051775

```
50 .
51 .
52 .
53 . *************************WOMEN*************************
54 . capture drop zpoorsleep_2006

55 . capture drop zpoorsleepalt_2006

56 . capture drop zlnhurd_odds

57 . capture drop zlnexpert_odds

58 . capture drop zlnlasso_odds

59 . foreach x of varlist poorsleep_2006 poorsleepalt_2006 lnhurd_odds lnexpert_odds lnlasso_odds {
    2.          mi passive: egen z`x'=std(`x') if sample_final==1
    3. }
  (passive variables zpoorsleep_2006 zpoorsleepalt_2006 zlnhurd_odds zlnexpert_odds zlnlasso_odds unregistered beca
  m=0:
  (36,570 missing values generated)
  m=1:
  (36,570 missing values generated)
  m=2:
  (36,570 missing values generated)
  m=3:
  (36,570 missing values generated)
  m=4:
  (36,570 missing values generated)
  m=5:
  (36,570 missing values generated)
  m=0:
  (36,570 missing values generated)
  m=1:
  (36,570 missing values generated)
  m=2:
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  m=4:
  (36,570 missing values generated)
  m=5:
  (36,570 missing values generated)
  m=0:
  (36,570 missing values generated)
  m=1:
```

```
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
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m=1:
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m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
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m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)

60 .
61 . save, replace
   (file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp not found)
   file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp saved as .dta format

62 .
63 .
64 .
65 .
66 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
   2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleep_2006  AGE2006 SEX NonWhite if SEX==2 , a0(0) a1(1) m(
   3. }
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
   Warning: this analysis assumes a rare outcome.
   Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
```

Multiple-imputation estimates

				Imputations	=	5
				Number of obs	=	4,060
				Average RVI	=	0.0000
				Largest FMI	=	0.0000
DF adjustment:	**Large sample**			DF: min	=	.
				avg	=	.
				max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.3765098	.0229258	16.42	0.000	.3315761	.4214435
ereri_cde	.373517	.0219109	17.05	0.000	.3305724	.4164617
ereri_intref	.0028315	.0029419	0.96	0.336	-.0029344	.0085975
ereri_intmed	.0000669	.0003858	0.17	0.862	-.0006893	.000823
ereri_pie	.0000944	.0005409	0.17	0.861	-.0009657	.0011544

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates

				Imputations	=	5
				Number of obs	=	4,060
				Average RVI	=	0.0000
				Largest FMI	=	0.0000
DF adjustment:	**Large sample**			DF: min	=	.
				avg	=	.
				max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6348232	.0373537	16.99	0.000	.5616113	.708035
ereri_cde	.6436542	.0373618	17.23	0.000	.5704264	.7168821
ereri_intref	-.0072852	.0025617	-2.84	0.004	-.012306	-.0022644
ereri_intmed	-.0027795	.0017207	-1.62	0.106	-.006152	.0005929
ereri_pie	.0012336	.0009649	1.28	0.201	-.0006575	.0031248

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

```
Multiple-imputation estimates                    Imputations        =            5
                                                 Number of obs      =        4,060
                                                 Average RVI        =       0.0000
                                                 Largest FMI        =       0.0000
DF adjustment:   Large sample                    DF:      min       =            .
                                                          avg       =            .
                                                          max       =            .
```

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6027917	.0346069	17.42	0.000	.5349633	.67062
ereri_cde	.6079307	.0342881	17.73	0.000	.5407272	.6751342
ereri_intref	-.0051147	.0028058	-1.82	0.068	-.0106139	.0003845
ereri_intmed	-.0002415	.0007987	-0.30	0.762	-.0018068	.0013239
ereri_pie	.0002172	.0007136	0.30	0.761	-.0011815	.0016158

```
67 .
68 .
69 . ***************SENSITIVITY ANALYSIS******************
70 .
71 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
     2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleepalt_2006  AGE2006 SEX NonWhite if SEX==2 , a0(0) a1(1)
     3. }
```
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

```
Multiple-imputation estimates                    Imputations        =            5
                                                 Number of obs      =        4,060
                                                 Average RVI        =       0.0000
                                                 Largest FMI        =       0.0000
DF adjustment:   Large sample                    DF:      min       =            .
                                                          avg       =            .
                                                          max       =            .
```

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.37611	.0230858	16.29	0.000	.3308627	.4213573
ereri_cde	.3742657	.0221925	16.86	0.000	.3307692	.4177622
ereri_intref	.002193	.0026789	0.82	0.413	-.0030576	.0074435
ereri_intmed	-.0001658	.0003734	-0.44	0.657	-.0008976	.000566
ereri_pie	-.0001828	.0003964	-0.46	0.645	-.0009598	.0005942

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates

			Imputations	=	5
			Number of obs	=	4,060
			Average RVI	=	0.0000
			Largest FMI	=	0.0000
DF adjustment:	**Large sample**		DF: min	=	.
			avg	=	.
			max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6345767	.037328	17.00	0.000	.5614152	.7077382
ereri_cde	.6432292	.0373447	17.22	0.000	.570035	.7164234
ereri_intref	-.0068712	.0022929	-3.00	0.003	-.0113652	-.0023773
ereri_intmed	-.0024374	.0017279	-1.41	0.158	-.005824	.0009492
ereri_pie	.0006561	.0007173	0.91	0.360	-.0007497	.002062

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates

			Imputations	=	5
			Number of obs	=	4,060
			Average RVI	=	0.0000
			Largest FMI	=	0.0000
DF adjustment:	**Large sample**		DF: min	=	.
			avg	=	.
			max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6016955	.034544	17.42	0.000	.5339906	.6694005
ereri_cde	.6069702	.0343111	17.69	0.000	.5397217	.6742186
ereri_intref	-.0053899	.0024186	-2.23	0.026	-.0101303	-.0006494
ereri_intmed	.0002494	.000989	0.25	0.801	-.0016889	.0021877
ereri_pie	-.0001342	.0005357	-0.25	0.802	-.0011841	.0009157

```
72 .
73 .
74 .
75 . ***********************NHW****************************************
```

```
76 . capture drop zpoorsleep_2006

77 . capture drop zpoorsleepalt_2006

78 . capture drop zlnhurd_odds

79 . capture drop zlnexpert_odds

80 . capture drop zlnlasso_odds

81 . foreach x of varlist poorsleep_2006 poorsleepalt_2006 lnhurd_odds lnexpert_odds lnlasso_odds {
   2.          mi passive: egen z`x'=std(`x') if sample_final==1
   3. }
(passive variables zpoorsleep_2006 zpoorsleepalt_2006 zlnhurd_odds zlnexpert_odds zlnlasso_odds unregistered beca
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
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m=0:
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m=1:
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m=2:
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m=0:
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m=1:
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m=3:
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m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
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m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
```

```
    (36,570 missing values generated)
m=1:
    (36,570 missing values generated)
m=2:
    (36,570 missing values generated)
m=3:
    (36,570 missing values generated)
m=4:
    (36,570 missing values generated)
m=5:
    (36,570 missing values generated)

82 .
83 . save, replace
    (file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp not found)
    file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp saved as .dta format

84 .
85 .
86 .
87 .
88 .
89 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
    2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleep_2006  AGE2006 SEX NonWhite if NonWhite==0 , a0(0) a1(
    3. }
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
```

```
Multiple-imputation estimates              Imputations     =          5
                                           Number of obs   =      5,666
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
DF adjustment:   Large sample              DF:    min      =   4.22e+58
                                                  avg      =   4.22e+58
                                                  max      =          .
```

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.401906	.0217869	18.45	0.000	.3592045	.4446076
ereri_cde	.4016942	.0213739	18.79	0.000	.3598021	.4435863
ereri_intref	.0003161	.001281	0.25	0.805	-.0021947	.0028268
ereri_intmed	-.0000195	.000194	-0.10	0.920	-.0003999	.0003608
ereri_pie	-.0000847	.0008297	-0.10	0.919	-.0017109	.0015416

```
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
```

Multiple-imputation estimates

		Imputations	=	5
		Number of obs	=	5,666
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment:	**Large sample**	DF: min	=	.
		avg	=	.
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.6588372	.0341992	19.26	0.000	.591808	.7258663
ereri_cde	.660848	.0341247	19.37	0.000	.5939649	.7277311
ereri_intref	-.002009	.0010371	-1.94	0.053	-.0040417	.0000237
ereri_intmed	-.0013202	.001089	-1.21	0.225	-.0034545	.0008142
ereri_pie	.0013183	.0009109	1.45	0.148	-.000467	.0031037

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates

		Imputations	=	5
		Number of obs	=	5,666
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment:	**Large sample**	DF: min	=	.
		avg	=	.
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5900322	.0296403	19.91	0.000	.5319383	.6481261
ereri_cde	.5920355	.0295599	20.03	0.000	.5340991	.6499719
ereri_intref	-.0020296	.0009988	-2.03	0.042	-.0039872	-.000072
ereri_intmed	-.0000929	.0006521	-0.14	0.887	-.0013711	.0011852
ereri_pie	.0001192	.0008342	0.14	0.886	-.0015158	.0017543

```
90 .
91 .
92 .
93 . **************SENSITIVITY ANALYSIS*****************
```

```
94 .
95 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
    2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleepalt_2006  AGE2006 SEX NonWhite if NonWhite==0 , a0(0)
    3. }
```

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates   Imputations   =   5
                                                 Number of obs   =   5,666
                                                 Average RVI   =   0.0000
                                                 Largest FMI   =   0.0000
DF adjustment: **Large sample**   DF: min   =   .
                                                         avg   =   .
                                                         max   =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
tereri	.4003487	.0217776	18.38	0.000	.3576655 .443032
ereri_cde	.4008359	.0215225	18.62	0.000	.3586525 .4430193
ereri_intref	-.0000128	.0009433	-0.01	0.989	-.0018617 .0018361
ereri_intmed	-.0000583	.0002188	-0.27	0.790	-.0004871 .0003705
ereri_pie	-.000416	.0007205	-0.58	0.564	-.0018283 .0009962

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates   Imputations   =   5
                                                 Number of obs   =   5,666
                                                 Average RVI   =   0.0000
                                                 Largest FMI   =   0.0000
DF adjustment: **Large sample**   DF: min   =   .
                                                         avg   =   .
                                                         max   =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
tereri	.658407	.0341809	19.26	0.000	.5914135 .7254004
ereri_cde	.6601263	.0341322	19.34	0.000	.5932285 .7270242
ereri_intref	-.0013205	.0010699	-1.23	0.217	-.0034174 .0007765
ereri_intmed	-.0013384	.001134	-1.18	0.238	-.0035611 .0008842
ereri_pie	.0009395	.0007591	1.24	0.216	-.0005483 .0024274

Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.

Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

```
Multiple-imputation estimates              Imputations     =         5
                                           Number of obs   =     5,666
                                           Average RVI     =    0.0000
                                           Largest FMI     =    0.0000
DF adjustment:   Large sample              DF:     min     =         .
                                                   avg     =         .
                                                   max     =         .
```

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5894417	.029623	19.90	0.000	.5313817	.6475017
ereri_cde	.5908863	.0295934	19.97	0.000	.5328842	.6488883
ereri_intref	-.0014574	.0009838	-1.48	0.139	-.0033855	.0004708
ereri_intmed	.0001398	.0007785	0.18	0.857	-.001386	.0016657
ereri_pie	-.0001271	.0007059	-0.18	0.857	-.0015107	.0012565

```
 96 .
 97 .
 98 . ***************************Non-White**************************************
 99 . capture drop zpoorsleep_2006

100 . capture drop zpoorsleepalt_2006

101 . capture drop zlnhurd_odds

102 . capture drop zlnexpert_odds

103 . capture drop zlnlasso_odds

104 . foreach x of varlist poorsleep_2006 poorsleepalt_2006 lnhurd_odds lnexpert_odds lnlasso_odds {
  2.          mi passive: egen z`x'=std(`x') if sample_final==1
  3. }
(passive variables zpoorsleep_2006 zpoorsleepalt_2006 zlnhurd_odds zlnexpert_odds zlnlasso_odds unregistered beca
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
```

m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)
m=0:
(36,570 missing values generated)
m=1:
(36,570 missing values generated)
m=2:
(36,570 missing values generated)
m=3:
(36,570 missing values generated)
m=4:
(36,570 missing values generated)
m=5:
(36,570 missing values generated)

```
105 .
106 . save, replace
    (file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp not found)
    file C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp saved as .dta format

107 .
108 .
109 .
110 .
111 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
      2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleep_2006  AGE2006 SEX NonWhite if NonWhite==1 , a0(0) a1(
      3. }
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
    Warning: this analysis assumes a rare outcome.
    Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
```

Multiple-imputation estimates

		Imputations	=	5
		Number of obs	=	1,325
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment:	**Large sample**	DF: min	=	.
		avg	=	.
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.36174	.0398889	9.07	0.000	.2835592	.4399207
ereri_cde	.3639944	.040161	9.06	0.000	.2852804	.4427084
ereri_intref	.0013356	.0038682	0.35	0.730	-.0062459	.0089171
ereri_intmed	-.001053	.0027401	-0.38	0.701	-.0064236	.0043176
ereri_pie	-.002537	.0033631	-0.75	0.451	-.0091285	.0040545

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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates

		Imputations	=	5
		Number of obs	=	1,325
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment:	**Large sample**	DF: min	=	2.53e+60
		avg	=	2.53e+60
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.4798746	.0606579	7.91	0.000	.3609873	.598762
ereri_cde	.4831344	.0606023	7.97	0.000	.3643561	.6019128
ereri_intref	.0126543	.009026	1.40	0.161	-.0050363	.0303448
ereri_intmed	-.0112633	.0071413	-1.58	0.115	-.02526	.0027333
ereri_pie	-.0046507	.0056442	-0.82	0.410	-.0157131	.0064116

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Multiple-imputation estimates

		Imputations	=	5
		Number of obs	=	1,325
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment:	**Large sample**	<u>DF</u>: min	=	.
		avg	=	.
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
tereri	.5333798	.062332	8.56	0.000	.4112114	.6555483
ereri_cde	.5365877	.0622908	8.61	0.000	.4144999	.6586755
ereri_intref	.0067413	.0075732	0.89	0.373	-.0081019	.0215846
ereri_intmed	-.005783	.0058205	-0.99	0.320	-.0171909	.005625
ereri_pie	-.0041663	.0046135	-0.90	0.366	-.0132085	.0048759

```
112 .
113 .
114 .
115 . ***************SENSITIVITY ANALYSIS******************
116 .
117 . foreach x of varlist zlnhurd_odds zlnexpert_odds zlnlasso_odds {
    2. mi estimate, cmdok esampvaryok: med4way `x' zpoorsleepalt_2006  AGE2006 SEX NonWhite  if NonWhite==1 , a0(0)
    3. }
```
Warning: this analysis assumes a rare outcome.
Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei
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Multiple-imputation estimates

		Imputations	=	5
		Number of obs	=	1,325
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
DF adjustment:	**Large sample**	<u>DF</u>: min	=	.
		avg	=	.
		max	=	.

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
tereri	.3632866	.0405272	8.96	0.000	.2838547	.4427185
ereri_cde	.365704	.0408647	8.95	0.000	.2856107	.4457972
ereri_intref	.0004392	.002962	0.15	0.882	-.0053662	.0062447
ereri_intmed	-.0004587	.0021728	-0.21	0.833	-.0047174	.0038
ereri_pie	-.0023979	.0027029	-0.89	0.375	-.0076955	.0028997

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Warning: fixed values for the covariates AGE2006 SEX NonWhite were not provided. All covariates are fixed at thei

Multiple-imputation estimates   Imputations   =   5
                                             Number of obs   =   1,325
                                             Average RVI   =   0.0000
                                             Largest FMI   =   0.0000
DF adjustment: **Large sample**   DF: min   =   2.55e+60
                                                   avg   =   2.55e+60
                                                   max   =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.4813726	.060746	7.92	0.000	.3623127	.6004325
ereri_cde	.4863097	.0607523	8.00	0.000	.3672374	.605382
ereri_intref	.0119912	.0081179	1.48	0.140	-.0039197	.027902
ereri_intmed	-.0119948	.006882	-1.74	0.081	-.0254832	.0014937
ereri_pie	-.0049335	.0053335	-0.92	0.355	-.0153871	.0055201

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Multiple-imputation estimates   Imputations   =   5
                                             Number of obs   =   1,325
                                             Average RVI   =   0.0000
                                             Largest FMI   =   0.0000
DF adjustment: **Large sample**   DF: min   =   .
                                                   avg   =   .
                                                   max   =   .

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
tereri	.5341708	.0623599	8.57	0.000	.4119477	.6563939
ereri_cde	.5379855	.0623614	8.63	0.000	.4157593	.6602116
ereri_intref	.0063964	.0064947	0.98	0.325	-.0063329	.0191258
ereri_intmed	-.0061	.0053094	-1.15	0.251	-.0165062	.0043063
ereri_pie	-.0041111	.0041556	-0.99	0.323	-.012256	.0040338

118 .
119 .
120 . save, replace
     (file **C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp** not found)
     file **C:\Users\baydounm\AppData\Local\Temp\ST_6434_000002.tmp** saved as .dta format

121 .
122 . capture log close