



```

1 .
2 .
3 .
4 . **ANALYSIS B: **
5 .
6 . use finaldata_imputedFINAL, clear

7 .
8 . mi extract 0

9 .
10 . save finaldata_unimputedFINAL, replace
    file finaldata_unimputedFINAL.dta saved

11 .
12 . **foreach y1 of varlist FA_mean MD_mean {
13 . **reg `y1' infectionburden AGE SEX i.RACE_ETHN AD_PGS householdsize TIME_V0V2 invmillsMRIINF if sample_final=
14 . **}
15 .
16 .
17 . global tflist ""

18 . global modseq=0

19 . foreach X of var infectionburdentert {
    2. foreach Y of var ISOVF_mean ICVF_mean OD_mean {
    3. global modseq=$modseq+1
    4. tempfile tfcur
    5. parmby "regress `Y' `X' AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if sample_final==1, b
    > replace) flist(tflist)
    6. }
    7. }

```

Command: regress ISOVF_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if

Source	SS	df	MS	Number of obs	=	38,705
Model	1.34003908	8	.167504885	F(8, 38696)	=	1213.46
Residual	5.34156468	38,696	.000138039	Prob > F	=	0.0000
				R-squared	=	0.2006
				Adj R-squared	=	0.2004
Total	6.68160376	38,704	.000172633	Root MSE	=	.01175

ISOVF_mean	Coefficient	Std. err.	t	P> t	Beta
infectionburdentert	.0003132	.0000683	4.59	0.000	.0208875
AGE	.0007328	8.59e-06	85.35	0.000	.4189682
SEX	-.001516	.0001205	-12.58	0.000	-.0575875
NonWhite	.0003406	.0007667	0.44	0.657	.0020223
AD_PGS	.0000893	.0000606	1.47	0.140	.0067064
householdsize	-.0002261	.0000526	-4.30	0.000	-.0210053
TIME_V0V2	2.35e-06	9.43e-08	24.88	0.000	.1132148
invmillsMRIINF	-4.73e-07	5.24e-07	-0.90	0.367	-.004104
_cons	.0484476	.0010035	48.28	0.000	.

(file C:\Users\baydounm\AppData\Local\Temp\ST_62c8_000001.tmp not found)

file C:\Users\baydounm\AppData\Local\Temp\ST_62c8_000001.tmp saved as .dta format

Command: regress ICVF_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if

Source	SS	df	MS	Number of obs	=	38,705
Model	2.7077124	8	.33846405	F(8, 38696)	=	482.88
Residual	27.123009	38,696	.000700925	Prob > F	=	0.0000
				R-squared	=	0.0908
				Adj R-squared	=	0.0906
Total	29.8307214	38,704	.00077074	Root MSE	=	.02647

ICVF_mean	Coefficient	Std. err.	t	P> t	Beta
infectionburdentert	-.0000618	.0001539	-0.40	0.688	-.00195
AGE	-.0010984	.0000193	-56.77	0.000	-.2972033
SEX	-.0002798	.0002715	-1.03	0.303	-.0050304
NonWhite	-.0017346	.0017277	-1.00	0.315	-.0048744
AD_PGS	-.0003053	.0001365	-2.24	0.025	-.0108483
householdsize	.0002569	.0001185	2.17	0.030	.0112951
TIME_V0V2	-8.05e-08	2.13e-07	-0.38	0.705	-.001839
invmillsMRIINF	3.73e-07	1.18e-06	0.32	0.752	.0015324
_cons	.6746145	.0022612	298.34	0.000	.

(file C:\Users\baydounm\AppData\Local\Temp\ST_62c8_000002.tmp not found)

file C:\Users\baydounm\AppData\Local\Temp\ST_62c8_000002.tmp saved as .dta format

Command: regr OD_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if sa

Source	SS	df	MS	Number of obs	=	38,705
Model	.207283759	8	.02591047	F(8, 38696)	=	393.04
Residual	2.5509386	38,696	.000065923	Prob > F	=	0.0000
				R-squared	=	0.0752
				Adj R-squared	=	0.0750
Total	2.75822236	38,704	.000071265	Root MSE	=	.00812

OD_mean	Coefficient	Std. err.	t	P> t	Beta
infectionburdentert	.0001996	.0000472	4.23	0.000	.0207149
AGE	.0002396	5.93e-06	40.38	0.000	.2132099
SEX	.0003675	.0000833	4.41	0.000	.0217264
NonWhite	-.0026175	.0005298	-4.94	0.000	-.0241885
AD_PGS	.0000419	.0000419	1.00	0.317	.0048992
householdsize	-.0002076	.0000363	-5.71	0.000	-.0300164
TIME_V0V2	2.14e-06	6.52e-08	32.82	0.000	.1606379
invmillsMRIINF	-3.26e-07	3.62e-07	-0.90	0.368	-.004399
_cons	.1094786	.0006935	157.87	0.000	.

(file C:\Users\baydounm\AppData\Local\Temp\ST_62c8_000003.tmp not found)

file C:\Users\baydounm\AppData\Local\Temp\ST_62c8_000003.tmp saved as .dta format

20 .

21 . drop _all

22 . append using \$tflist

23 . sort idnum command `Y' parmseq

24 . describe

Contains data

Observations: 27

Variables: 12

Variable name	Storage type	Display format	Value label	Variable label
parmseq	byte	%12.0g		Parameter sequence number
command	str126	%126s		Estimation command
idnum	byte	%10.0g		Numeric ID
parm	str19	%19s		Parameter name
label	str31	%31s		Parameter label
estimate	double	%8.2f		Parameter estimate
stderr	double	%10.0g		SE of parameter estimate
dof	long	%10.0g		Degrees of freedom
t	double	%10.0g		t-test statistic
p	double	%8.1e		P-value
min95	double	%8.2f		Lower 95% confidence limit
max95	double	%8.2f		Upper 95% confidence limit

Sorted by: idnum command parmseq

Note: Dataset has changed since last saved.

25 . by idnum command: list `Y' parm label estimate min95 max95 p, noobs

-> idnum = 1, command = regr ISOVF_mean infectionburdentert A..

parm	label	estimate	min95	max95	p
infectionburdentert	3 quantiles of infectionburden	0.00	0.00	0.00	4.5e-06
AGE		0.00	0.00	0.00	0.0e+00
SEX		-0.00	-0.00	-0.00	3.1e-36
NonWhite		0.00	-0.00	0.00	6.6e-01
AD_PGS		0.00	-0.00	0.00	1.4e-01
householdsize	Number of household members	-0.00	-0.00	-0.00	1.7e-05
TIME_V0V2		0.00	0.00	0.00	2.e-135
inv millsMRIINF		-0.00	-0.00	0.00	3.7e-01
_cons	Constant	0.05	0.05	0.05	0.0e+00

-> idnum = 2, command = regr ICVF_mean infectionburdentert AG..

parm	label	estimate	min95	max95	p
infectionburdentert	3 quantiles of infectionburden	-0.00	-0.00	0.00	6.9e-01
AGE		-0.00	-0.00	-0.00	0.0e+00
SEX		-0.00	-0.00	0.00	3.0e-01
NonWhite		-0.00	-0.01	0.00	3.2e-01
AD_PGS		-0.00	-0.00	-0.00	2.5e-02
householdsize	Number of household members	0.00	0.00	0.00	3.0e-02
TIME_V0V2		-0.00	-0.00	0.00	7.0e-01
inv millsMRIINF		0.00	-0.00	0.00	7.5e-01
_cons	Constant	0.67	0.67	0.68	0.0e+00

```
-> idnum = 3, command = regr OD_mean infectionburdentert AGE ..
```

parm	label	estimate	min95	max95	p
infectionburdentert	3 quantiles of infectionburden	0.00	0.00	0.00	2.3e-05
AGE		0.00	0.00	0.00	0.0e+00
SEX		0.00	0.00	0.00	1.0e-05
NonWhite		-0.00	-0.00	-0.00	7.8e-07
AD_PGS		0.00	-0.00	0.00	3.2e-01
householdsize	Number of household members	-0.00	-0.00	-0.00	1.1e-08
TIME_V0V2		0.00	0.00	0.00	6.e-233
invmill\$MRIINF		-0.00	-0.00	0.00	3.7e-01
_cons	Constant	0.11	0.11	0.11	0.0e+00

```
26 .
27 . save Outputdata_overall_B, replace
    file Outputdata_overall_B.dta saved

28 .
29 .
30 .
31 . **Smile plot**
32 . use Outputdata_overall_B, clear

33 .
34 . keep if parmseq==1
    (24 observations deleted)

35 .
36 .
37 . sort parm

38 . multproc, pval(p) meth(bonferroni) gpunc(uncp) gpcor(corp) rej(signif)

Method: bonferroni
Uncorrected overall critical P-value: .05
Number of P-values: 3
Corrected overall critical P-value: .01666667
Number of rejected P-values: 2

39 . smileplot7, est(estimate) pval(p) punc(uncp) pcor(corp) ptl(command) t1(" ")

Method: userspecified
Uncorrected overall critical P-value: .05
Number of P-values: 3
Corrected overall critical P-value: .01666667
Number of rejected P-values: 2
```

40 . list if signif, nodisp

	parmseq	command	dof	t	p	min95	max95	uncp	corp	signif	
estimate	stderr										
1.	1	regr ISOVF_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if samp									
0.00	.00006829	38696	4.5870679	4.5e-06	0.00	0.00	.05	.01666667	1		
3.	1	regr OD_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if samp									
0.00	.00004719	38696	4.2295224	2.3e-05	0.00	0.00	.05	.01666667	1		

41 .

42 .

43 .

44 . //q-value: FDR//

45 .

46 . capture drop myqvallargervolumes

47 .

48 . qqvalue p, method(simes) qvalue(myqvallargervolumes)

49 . sort myqvallargervolumes

50 .

51 . list parm myqvallargervolumes command p estimate stderr if p<0.05

1.	parm infectionburdentert	myqvall~s .00001353
	command regr ISOVF_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if samp	
	p 4.5e-06	estimate 0.00 stderr .00006829
2.	parm infectionburdentert	myqvall~s .00003521
	command regr OD_mean infectionburdentert AGE SEX NonWhite AD_PGS householdsize TIME_V0V2 invmillsMRIINF if samp	
	p 2.3e-05	estimate 0.00 stderr .00004719

52 .

53 .

54 . save, replace
file Outputdata_overall_B.dta saved

55 .

56 . capture log close