sd(Residual)



name: <unnamed> /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_lag log: > gedscores_mi5_linear_101019.smcl log type: **smcl** opened on: 11 Oct 2019, 09:44:54 2 . ** 1. ALTERNATIVE MEASURES I: LAGGED/NOT ACADEMIC PROFICIENCY RATES * 1A. RE-RUN LINEAR MIXED MODELS USING LAGGED ACADEMIC SCORES: 2013-14 7. 8. * PT 2: 10. * 2. academic performance 11. *mi xeq 1/ 5: mixed povertyschoolprop readall14 mathall14 primary middle high lnage > Instudents urban readlevel14 mathlevel14 || geodistrict: 12. mi est, dots post: mixed povertyschoolprop readall13 mathall13 primary middle high l > nage lnstudents urban readlevel13 mathlevel13 || geodistrict: , Imputations (5): done Multiple-imputation estimates Imputations Mixed-effects ML regression Number of obs 5,784 Group variable: **geodistrict** Number of groups = 1,481 Obs per group: min = avg = 3.9 max =251 = 0.1874 Average RVI = Largest FMI 0.4318 DF adjustment: Large sample min 26.28 660.89 avg max 3,716.57 F(10, 1025.8) Model F test: = Equal FMI 76.81 Prob > F 0.0000 povertyschoolprop Coef. Std. Err. t P>|t| [95% Conf. Interval] -.2967183 readall13 -.3413315 .02254 -15.14 0.000 - . 3859447 mathall13 -.1591436 .0198899 -8.00 0.000 -.1982188 -.1200684 primary .0195103 .0093579 2.08 0.038 .0010488 .0379718 middle .0574455 .0131639 4.36 0.000 .0316309 .0832601 high -.0129202 .0110599 -.0347273 .0088869 -1.17 0.244 lnage .0114373 .0040638 2.81 0.006 .003369 .0195057 **Instudents** -.0028424 .0050509 -0.56 0.575 -.012922 .0072373 urban . 0552794 .0102517 5.39 0.000 .0351799 .0753789 readlevel13 -.0013694 .0010242 -1.34 0.191 -.003459 .0007201 mathlevel13 -.000165 .001045 -.0023119 .0019818 -0.16 0.876 _cons .7818713 .0330686 23.64 0.000 .7156616 .8480811 Random-effects Parameters Estimate Std. Err. [95% Conf. Interval] geodistrict: Identity sd(_cons) .1799182 .0060677 .1683955 .1922293

.2225619

.0024785

.2274881

.2177424

13. * 3. fully specified
14. mi est, dots post: mixed povertyschoolprop inquiry_full_log readall13 mathall13 prim
> ary middle high lnage lnstudents urban pctpdfs readlevel13 mathlevel13 || geodistric

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression	Imputations Number of obs	=======================================	5 5,784
Group variable: geodistrict	Number of groups Obs per group:	=	1,481
	min	=	1
	avg	=	3.9
	max	=	251
	Average RVI	=	0.1885
	Largešt FMI	=	0.4736
DF adjustment: Large sample	DF: min	=	21.88
3 1	avq	=	608.92
	max	=	3,790.72
Model F test: Equal FMI	F(12 , 1301 .6)	=	69.71
4.00	Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
inquiry_full_log	2314182	.0297153	-7.79	0.000	2899073	172929
$reada \overline{1}13$	3266978	.022489	-14.53	0.000	3712042	2821915
mathall13	1624696	.0198105	-8.20	0.000	2013913	1235478
primary	.0198868	.0093229	2.13	0.034	.0014911	. 0382825
ˈmiddlé	.0537913	.0131199	4.10	0.000	.0280625	. 07952
high	0145631	.0109506	-1.33	0.185	0361385	.0070122
lnage	.0104191	.0040419	2.58	0.011	.0023956	.0184426
lnstudents	0006067	.0050776	-0.12	0.905	0107614	.0095481
urban	. 0575692	.0101587	5.67	0.000	.0376522	.0774863
pctpdfs	.0491725	.0780567	0.63	0.530	1051431	.2034881
readlevel13	0011705	.0010509	-1.11	0.276	0033336	.0009927
mathlevel13	0003653	.0010741	-0.34	0.737	0025936	.001863
_cons	. 7956468	.0328968	24.19	0.000	.7298013	.8614923

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
<pre>geodistrict: Identity</pre>	.1758616	.0060174	. 1644401	. 1880764
sd(Residual)	. 2218461	. 0024566	. 2170714	. 226726

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression

Imputations Number of obs = 5,784

Group Variable	No. of	Observ	Group	
	Groups	Minimum	Maximum	
state	43	2	134.5	1,056
geodistrict	1,492	1	3.9	251

<sup>15.
16. *</sup> PT 3:
17. * 2. academic performance
18. mi est, dots post: mixed pocschoolprop readall13 mathall13 primary middle high lnage
> lnstudents urban readlevel13 mathlevel13 || state: || geodistrict: ,

= = = Average RVI 0.1522 Largest FMI 0.3568 38.12 DF adjustment: Large sample DF: min = 11,521.84 avg max = 114,767.81

F(10, 1193.2) Prob > F Model F test: **Equal FMI** = 89.66 0.0000

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
readall13 mathall13 primary middle high lnage lnstudents urban readlevel13 mathlevel13 _cons	299962 0911574 .0630132 .0913243 .0512326 0077063 .0179543 .0956041 0003966 0003621 .5849336	.0176197 .0169315 .0070261 .0101779 .0084292 .0030511 .003754 .008721 .0007219 .000783	-17.02 -5.38 8.97 8.97 6.08 -2.53 4.78 10.96 -0.55 -0.46 15.22	0.000 0.000 0.000 0.000 0.000 0.012 0.000 0.000 0.584 0.646 0.000	3346793 1247411 .0492303 .0713749 .0346849 013706 .0105793 .0785084 0018286 0019469 .5093647	2652446 05757961 .1712736 .0677804 0017065 .0253293 .1126999 .0010354 .0012228

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
state: Identity sd(_cons)	.1720038	. 0218876	. 1340358	. 220727
<pre>geodistrict: Identity</pre>	. 1875811	. 0054032	.1772832	. 1984772
sd(Residual)	.1706159	.0019312	.1668642	.174452

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression

Imputations Number of obs 5,784

Group Variable	No. of	Obser	Observations per			
	Groups	Minimum	Minimum Average			
state	43	2	134.5	1,056		
geodistrict	1,492	1	3.9	251		

Average RVI 0.1303 = 0.3449 Largest FMI DF adjustment: Large sample DF: min 40.70 = 12,076.38 avg = 133,851.71 max

F(12, 2056.3) Prob > F Model F test: Equal FMI 86.13 0.0000

^{19. * 3.} fully specified
20. mi est, dots post: mixed pocschoolprop inquiry_full_log readall13 mathall13 primary
> middle_high lnage lnstudents urban pctpdfs readlevel13 mathlevel13 || state: || geod > istrict: ,

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
inquiry_full_log readall13 mathall13 primary middle high lnage lnstudents urban pctpdfs readlevel13 mathlevel13	2297996 2837949 09278 . 0628862 . 0871084 . 0495905 0086089 . 0199102 . 0976563 . 087631 0002293 0005207	.0223217 .0175422 .0167191 .0069468 .0100807 .0083095 .0037129 .0037361 .0086482 .05773324 .0007197	-10.29 -16.18 -5.55 9.05 8.64 5.97 -2.86 5.33 11.29 1.53 -0.32	0.000 0.000 0.000 0.000 0.000 0.000 0.004 0.000 0.126 0.751 0.502	2735586 3183681 125928 .0492597 .0673497 .033283 0145317 .0125676 .0807037 0247629 001659 0020746	1860406 2492217 0596321 .0765128 .1068672 .065898 0026861 .027227 .1146089 .2000249 .0012003
_cons	.5989553	.0378569	15.82	0.000	.5245513	.6733593

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
<pre>state: Identity</pre>	.1694104	.0216271	.1319088	. 2175736
<pre>geodistrict: Identity</pre>	.1876321	.0053751	.1773862	. 1984699
sd(Residual)	.1686956	.0018978	.1650108	. 1724627

21.

23. *
24. * 1B. RE-RUN LINEAR MIXED MODELS USING NOT-LAGGED ACADEMIC SCORES: 2015-16

26.

27. * PT 2: 28. * 2. academic performance 29. mi est, dots post: mixed povertyschoolprop readall15 mathall15 primary middle high l > nage lnstudents urban readlevel15 mathlevel15 || geodistrict: ,

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression	Imputations Number of obs	= =	5 5,784
Group variable: geodistrict	Number of groups Obs per group:	=	1,481
	min	=	1
	avg	=	3.9
	max	=	251
	Average RVI	=	0.1970
	Largešt FMI	=	0.2901
DF adjustment: Large sample	DF: min	=	56.75
J	avq	=	757.97
	max	=	3,887.06
Model F test: Equal FMI	F(10 , 906 .0)	=	89.28
- 	Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
readall15 mathall15 primary middle high lnage lnstudents	4374085 0695113 .0072319 .0425153 0011252 .0065937 0017939	.0311164 .0274153 .008836 .0132531 .011514 .0038644	-14.06 -2.54 0.82 3.21 -0.10 1.71 -0.36	0.000 0.012 0.413 0.001 0.922 0.090 0.717	499724 1234184 0101019 .0164912 0239566 0010335 0116086	375093 0156042 .0245657 .0685393 .0217061 .0142209
urban readlevel15	.060079 -9.09e-06	.0101285	5.93 -0.01	0.000 0.991	.0402164	.0799417

mathlevel15	0014516	.0008429	-1.72	0.090	0031361	.0002329
_cons	.7265816	.0318286	22.83	0.000	. 6630687	. 7900945

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
<pre>geodistrict: Identity</pre>	. 1726121	. 0058807	.1614591	. 1845356
sd(Residual)	. 2208996	. 0024236	. 2161924	. 2257093

30. * 3. fully specified
31. mi est, dots post: mixed povertyschoolprop inquiry_full_log readall15 mathall15 prim
> ary middle high lnage lnstudents urban pctpdfs readlevel15 mathlevel15 || geodistric > t: ,

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression Imputations Number of obs 5,784 Group variable: **geodistrict** Number of groups = 1,481 Obs per group: min = 3.9 avg = max = 251 0.1875 Average RVI Largest FMI = 0.2633 DF adjustment: 68.29 Large sample DF: min = avg 789.89 5,063.75 80.35 max F(12, 1263.3) Prob > F Model F test: **Equal FMI** 0.0000

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
inquiry_full_log readall15 mathall15 primary middle high lnage lnstudents urban pctpdfs readlevel15 mathlevel15 cons	2129014 417558 0782517 .0082174 .0398053 003011 .0057787 .0003207 .0621452 .0486785 .0001881 0016095 .7386671	.0298439 .030226 .0270377 .0088045 .0132411 .0114692 .0038612 .0049421 .0100556 .078469 .0008107 .0008343	-7.13 -13.81 -2.89 0.93 3.01 -0.26 1.50 0.06 6.18 0.62 0.23 -1.93 23.38	0.000 0.000 0.004 0.351 0.003 0.793 0.136 0.948 0.000 0.536 0.817 0.058	2717398 4776883 1313603 0090553 .013799 0257544 0018463 0095085 .0424254 1069068 0014099 0032742 .675667	154063 3574276 0251432 .0254902 .0658117 .0197324 .0134036 .0101498 .0818651 .2042637 .001786 .0000551

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
<pre>geodistrict: Identity</pre>	.169612	. 0058335	. 1585528	. 1814425
sd(Residual)	.2201985	. 0023964	. 2155464	. 2249509

32.
33. * PT 3:
34. * 2. academic performance
mi est dots post: mixed p 35. mi est, dots post: mixed pocschoolprop readall15 mathall15 primary middle high lnage > Instudents urban readlevel14 mathlevel14 || state: || geodistrict: ,

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression

Imputations Number of obs 5,784

5

0.0000

Group Variable	No. of	Obser	vations per	Group
	Groups	Minimum	Average	Maximum
state	43	2	134.5	1,056
geodistrict	1,492	1	3.9	251

Average RVI 0.1207 0.2975 Largest FMI DF adjustment: Large sample DF: min = 54.08 avg = 374,335.73 = 4890072.38 max F(10, 1714.7) Prob > F Model F test: **Equal FMI** 104.48

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
readall15 mathall15 primary middle high lnage lnstudents urban readlevel14	3733962 0165207 .0533196 .0803313 .0572731 0102678 .0223791 .0963228	.0237026 .022204 .0068255 .0100364 .0082215 .002888 .0036852 .0085618	-15.75 -0.74 7.81 8.00 6.97 -3.56 6.07 11.25 0.66	0.000 0.457 0.000 0.000 0.000 0.000 0.000 0.000	4204171 0602063 .0399415 .0606601 .0411548 0159297 .015154 .0795418	3263754 .0271648 .0666977 .1000026 .0733915 0046058 .0296041 .1131037
mathlevel14 _cons	0004943 0005114 .5143468	.0007323	-0.75 13.71	0.453 0.000	0010141 0018541 .4407601	.0020031

Random-effects F	Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
state: Identity	sd(_cons)	. 174164	. 0220247	.1359301	. 2231521
geodistrict: Ident	ity sd(_cons)	. 1879664	. 0053542	.1777599	.198759
SO	d(Residual)	. 1684579	.0018887	.1647919	.1722056

Imputations (5): done

Multiple-imputation estimates Mixed-effects ML regression

Imputations 5 Number of obs = 5,784

^{36. * 3.} fully specified
37. mi est, dots post: mixed pocschoolprop inquiry_full_log readall15 mathall15 primary
> middle high lnage lnstudents urban pctpdfs readlevel15 mathlevel15 || state: || geod > istrict: ,

Group Variable	No. of	Observ	vations per	Group
	Groups	Minimum	Average	Maximum
state	43	2	134.5	1,056
geodistrict	1,492	1	3.9	251

Average RVI 0.1109 Largest FMI = 0.2689 DF adjustment: 65.59 Large sample DF: min =

avg = 447,006.17 = 6348123.82 max

F(12, 2618.1) Prob > F Model F test: **Equal FMI** 98.74 0.0000

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
inquiry_full_log readall15 mathall15 primary middle high lnage lnstudents urban pctpdfs readlevel15 mathlevel15 _cons	223964 3609509 0163646 .0530241 .0756071 .0582946 0109634 .0228095 .0990674 .0923755 .0018764 0020793 .5396236	.0221886 .0223974 .0221319 .0067632 .0100551 .0082037 .0028449 .0040581 .0084754 .0562474 .0006261 .0005869 .0376497	-10.09 -16.12 -0.74 7.84 7.52 7.11 -3.85 5.62 11.69 1.64 3.00 -3.54 14.33	0.000 0.000 0.460 0.000 0.000 0.000 0.000 0.000 0.101 0.003 0.000 0.000	2674714 40499 0599152 .0397675 .0558903 .0422111 0165404 .0147063 .0824559 0178731 .0006443 0032312 .4656621	1804566 3169118 .0271859 .0662807 .0953238 .074378 0053865 .0309126 .1156789 .2026241 .0031085 0009274 .613585

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
<pre>state: Identity sd(_cons)</pre>	.1727717	. 021866	. 134817	. 2214118
<pre>geodistrict: Identity sd(_cons)</pre>	.1877967	.0053193	.1776551	. 1985172
sd(Residual)	.1664455	. 0018499	.1628566	. 1701135

38.

39. log close

name: <unnamed>

/hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_lag log:

> gedscores_mi5_linear_101019.smcl log type: smcl closed on: 11 Oct 2019, 09:47:23