

Note: This is Online Appendix 2 of Ncube NBQ, Chivese T, Mukumbang FC, Bradley HA, Schneider H, Laing R. A combined strategies intervention on the World Health Organization prescribing indicators: A quasi-randomised trial. Afr J Prm Health Care Fam Med. 2024;16(1), a3943. <https://doi.org/10.4102/phcfm.v16i1.3943>

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analysis\Supplementary file xx - analysis.log
log type: text
opened on: 26 Jan 2022, 22:31:52
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```
. do "C:\Users\TC18804\AppData\Local\Temp\STD15ac_000000.tmp"

. swilk p_noofdrugs b_generics b_antibiotics b_injections b_eml p_noofdrugs
p_generics p_antibiotics p_injections p_eml f_noof
> drugs f_generics f_antibiotics f_injections f_eml
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
p_noofdrugs	32	0.99308	0.231	-3.044	0.99883
b_generics	32	0.95975	1.343	0.612	0.27035
b_antibiot~s	32	0.98312	0.563	-1.192	0.88345
b_injections	32	0.78675	7.114	4.073	0.00002
b_eml	32	0.92923	2.361	1.783	0.03727
p_noofdrugs	32	0.99308	0.231	-3.044	0.99883
p_generics	32	0.86589	4.474	3.110	0.00093
p_antibiot~s	32	0.98675	0.442	-1.694	0.95491
p_injections	32	0.92550	2.485	1.890	0.02939
p_eml	32	0.93860	2.048	1.488	0.06835
f_noofdrugs	32	0.92538	2.489	1.893	0.02917
f_generics	32	0.84621	5.130	3.395	0.00034
f_antibiot~s	32	0.98909	0.364	-2.098	0.98203
f_injections	32	0.79184	6.944	4.023	0.00003
f_eml	32	0.87256	4.251	3.004	0.00133

```
. ***Regression at post intervention
. ***1. number of drugs
.
. regress p_noofdrugs i.intervention i.region i.levelofcare
b_antibiotics
```

Source	SS	df	MS	Number of obs	=
32					
-----+-----				F(6, 25)	=
0.50					

Model		1.32492171	6	.220820284	Prob > F	=
0.8027						
Residual		11.0547658	25	.442190633	R-squared	=
0.1070						
-----+-----					Adj R-squared	= -
0.1073						
Total		12.3796875	31	.399344759	Root MSE	=
.66497						

p_noofdrugs		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
interventioncontrol						
Intervention		.1116551	.2622784	0.43	0.674	-.4285173
.6518276						
region						
2		.1077903	.319181	0.34	0.738	-.5495753
.7651558						
3		.035081	.3404976	0.10	0.919	-.6661868
.7363489						
4		.3310229	.3452125	0.96	0.347	-.3799556
1.042001						
2.levelofcare		.0712057	.2974366	0.24	0.813	-.5413766
.6837879						
b_antibiotics		-.010712	.0114542	-0.94	0.359	-.0343025
.0128784						
_cons		3.857594	.7283273	5.30	0.000	2.357576
5.357612						

```
. predict pnoofdrugsres, residuals
```

```
. swilk pnoofdrugsres
```

Shapiro-Wilk W test for normal data

Variable		Obs	W	V	z	Prob>z
pnoofdrugs~s		32	0.98597	0.468	-1.576	0.94254

```
. linktest
```

Source		SS	df	MS	Number of obs	=
32						
-----+-----					F(2, 29)	=
1.87						
Model		1.41484415	2	.707422076	Prob > F	=
0.1721						

Residual		10.9648434	29	.378098047	R-squared	=
0.1143						
-----+-----					Adj R-squared	=
0.0532						
Total		12.3796875	31	.399344759	Root MSE	=
.6149						

p_noofdrugs		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						

_hat		-7.698038	17.84366	-0.43	0.669	-44.19243
28.79635						
_hatsq		1.248021	2.559116	0.49	0.629	-3.985959
6.482001						
_cons		15.1017	31.02152	0.49	0.630	-48.34442
78.54783						

```
.
. ***2. generics
.
. regress p_generics i.intervention i.region i.levelofcare b_antibiotics
```

Source		SS	df	MS	Number of obs	=
32						
-----+-----					F(6, 25)	=
1.83						
Model		865.547008	6	144.257835	Prob > F	=
0.1337						
Residual		1970.17174	25	78.8068697	R-squared	=
0.3052						
-----+-----					Adj R-squared	=
0.1385						
Total		2835.71875	31	91.4747984	Root MSE	=
8.8773						

p_generics		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
interventioncontrol						
Intervention		-5.170425	3.501384	-1.48	0.152	-12.38166
2.040811						
region						
2		-5.951414	4.261027	-1.40	0.175	-14.72716
2.824335						

11.41677	3		2.054934	4.545601	0.45	0.655	-7.306906
14.73324	4		5.241759	4.608545	1.14	0.266	-4.249717
9.166397	2.levelofcare		.9884999	3.970743	0.25	0.805	-7.189398
.5116373	b_antibiotics		.1967078	.1529126	1.29	0.210	-.1182216
93.07084	_cons		73.04579	9.72308	7.51	0.000	53.02073

```
-----
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```

```
. predict pgenres, residuals
. swilk pgenres
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
pgenres	32	0.96396	1.202	0.383	0.35101

```
. linktest
```

Source	SS	df	MS	Number of obs	=
32					
6.97				F(2, 29)	=
0.0034	Model	920.200866	2	460.100433	Prob > F =
0.3245	Residual	1915.51788	29	66.0523408	R-squared =
0.2779				Adj R-squared	=
8.1273	Total	2835.71875	31	91.4747984	Root MSE =

p_generics	Coef.	Std. Err.	t	P> t	[95% Conf.	
Interval]	-----					

21.92572	_hat	7.438449	7.083445	1.05	0.302	-7.048822
.0502519	_hatsq	-.0402529	.0442517	-0.91	0.371	-.1307577
321.7896	_cons	-256.2864	282.646	-0.91	0.372	-834.3624

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end of do-file

. do "C:\Users\TC18804\AppData\Local\Temp\STD15ac_000000.tmp"

. ***3. antibiotics

. regress p_antibiotics i.intervention i.region i.levelofcare
b_antibiotics

Source	SS	df	MS	Number of obs	=
32					
-----+-----				F(6, 25)	=
1.70					
Model	2200.74274	6	366.790457	Prob > F	=
0.1621					
Residual	5388.13226	25	215.52529	R-squared	=
0.2900					
-----+-----				Adj R-squared	=
0.1196					
Total	7588.875	31	244.802419	Root MSE	=
14.681					

	p_antibiotics	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						

interventioncontrol						
Intervention		5.162633	5.790377	0.89	0.381	-6.762873
17.08814						
	region					
	2	-7.177144	7.046628	-1.02	0.318	-21.68995
7.335659						
	3	-7.465426	7.517239	-0.99	0.330	-22.94747
8.016618						
	4	-11.09313	7.621333	-1.46	0.158	-26.78956
4.603297						
	2.levelofcare	-15.15195	6.566574	-2.31	0.030	-28.67606
-1.627838						
b_antibiotics		.037136	.2528776	0.15	0.884	-.4836752
.5579473						
_cons		54.11666	16.07944	3.37	0.002	21.00044
87.23289						

. predict pantibres, residuals

. swilk pantibres

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
pantibres	32	0.98074	0.643	-0.918	0.82074

. linktest

Source	SS	df	MS	Number of obs	=
32					
-----+-----				F(2, 29)	=
5.94					
Model	2205.96352	2	1102.98176	Prob > F	=
0.0069					
Residual	5382.91148	29	185.617637	R-squared	=
0.2907					
-----+-----				Adj R-squared	=
0.2418					
Total	7588.875	31	244.802419	Root MSE	=
13.624					

p_antibiot~s	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					

_hat	.5420058	2.74636	0.20	0.845	-5.074932
6.158944					
_hatsq	.0049947	.0297825	0.17	0.868	-.0559175
.0659068					
_cons	10.09996	61.9426	0.16	0.872	-116.5869
136.7868					

.
. ***4. injections
. regress p_injection i.intervention i.region i.levelofcare
b_antibiotics

Source	SS	df	MS	Number of obs	=
32					
-----+-----				F(6, 25)	=
1.34					
Model	238.212881	6	39.7021469	Prob > F	=
0.2773					
Residual	741.255869	25	29.6502347	R-squared	=
0.2432					
-----+-----				Adj R-squared	=
0.0616					
Total	979.46875	31	31.5957661	Root MSE	=
5.4452					

```

-----
-----
p_injections |      Coef.   Std. Err.      t    P>|t|    [95%
Conf. Interval]
-----+-----
-----
interventioncontrol |
Intervention |    1.010444    2.147691     0.47   0.642   -3.412809
5.433697
region |
2 |   -6.630753    2.613643    -2.54   0.018  -12.01365
-1.247854
3 |   -3.905235    2.788196    -1.40   0.174   -9.647633
1.837162
4 |   -3.642745    2.826805    -1.29   0.209   -9.464659
2.179169
2.levelofcare |   -.6216481    2.435588    -0.26   0.801   -5.637835
4.394539
b_antibiotics |    .0891965    .0937941     0.95   0.351   -.103976
.282369
_cons |    5.901179    5.963976     0.99   0.332   -6.381859
18.18422
-----
-----

```

```
. predict pinjectres, residuals
```

```
. swilk pinjectres
```

Shapiro-Wilk W test for normal data

```

Variable |      Obs      W      V      z      Prob>z
-----+-----
pinjectres |      32    0.96686    1.106    0.208    0.41748

```

```
. linktest
```

```

Source |      SS      df      MS      Number of obs      =
32
-----+-----
5.65
Model |  274.670326      2  137.335163      Prob > F      =
0.0085
Residual |  704.798424     29  24.3033939      R-squared      =
0.2804
-----+-----
0.2308
Total |  979.46875     31  31.5957661      Adj R-squared   =
4.9298
Root MSE

```

p_injections	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					

_hat	-1.110757	1.752719	-0.63	0.531	-4.69547
2.473957					
_hatsq	.1307008	.1067133	1.22	0.231	-.0875523
.3489539					
_cons	7.537717	6.69421	1.13	0.269	-6.153479
21.22891					
-----+-----					

```
.
. ***5. EML
. regress p_eml i.intervention i.region i.levelofcare b_antibiotics
```

Source	SS	df	MS	Number of obs	=
32					
-----+-----				F(6, 25)	=
4.17					
Model	310.227778	6	51.7046296	Prob > F	=
0.0049					
Residual	309.772222	25	12.3908889	R-squared	=
0.5004					
-----+-----				Adj R-squared	=
0.3805					
Total	620	31	20	Root MSE	=
3.5201					

p_eml	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					

interventioncontrol					
Intervention	-3.12531	1.388382	-2.25	0.033	-5.984736
-.2658838					
region					
2	-4.517395	1.689598	-2.67	0.013	-7.997188
-1.037602					
3	-.9451208	1.802439	-0.52	0.605	-4.657313
2.767071					
4	-1.958873	1.827398	-1.07	0.294	-5.722469
1.804722					
2.levelofcare	3.751755	1.574494	2.38	0.025	.5090243
6.994485					
b_antibiotics	.1179663	.0606335	1.95	0.063	-.0069107
.2428433					
_cons	86.1969	3.855432	22.36	0.000	78.25649
94.13731					

```
-----  
-----  
. predict pendlres, residuals
```

```
. swilk pendlres
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
-----+-----					
pendlres	32	0.97155	0.949	-0.109	0.54322

```
. linktest
```

Source	SS	df	MS	Number of obs	=
-----+-----					
				F(2, 29)	=
Model	349.172044	2	174.586022	Prob > F	=
Residual	270.827956	29	9.33889503	R-squared	=
-----+-----				Adj R-squared	=
Total	620	31	20	Root MSE	=

```
-----  
-----  
p_endl | Coef. Std. Err. t P>|t| [95% Conf.  
Interval]  
-----+-----  
-----  
_hat | 18.57885 8.610026 2.16 0.039 .9693722  
36.18833  
_hatsq | -.0984375 .0482044 -2.04 0.050 -.1970265  
.0001515  
_cons | -783.7574 384.1218 -2.04 0.051 -1569.375  
1.859935  
-----  
-----
```

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.  
.
```

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end of do-file
```

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. do "C:\Users\TC18804\AppData\Local\Temp\STD15ac_000000.tmp"
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```
. ***Regression post follow up
```

```
. ***1. number of drugs
```

```
.  
. regress f_noofdrugs i.intervention i.region i.levelofcare  
b_antibiotics
```

Source	SS	df	MS	Number of obs	=
Model	1.98507087	6	.330845145	Prob > F	=
Residual	11.3299293	25	.453197172	R-squared	=
Total	13.3150002	31	.429516134	Root MSE	=

F(6, 25) =
 Adj R-squared = -
 F(6, 25) =
 R-squared =
 Root MSE =

f_noofdrugs	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
interventioncontrol	.0349366	.2655225	0.13	0.896	-.5119172
region					
2	.0647275	.3231289	0.20	0.843	-.600769
3	-.2995368	.3447092	-0.87	0.393	-1.009479
4	.1735494	.3494825	0.50	0.624	-.5462232
2.levelofcare	-.0293453	.3011156	-0.10	0.923	-.6495045
b_antibiotics	-.0159669	.0115959	-1.38	0.181	-.0398492
_cons	4.271233	.737336	5.79	0.000	2.752661

```
. predict fnoofdrugsres, residuals
```

```
. swilk fnoofdrugsres
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
fnoofdrugs~s	32	0.95890	1.371	0.655	0.25620

```
. linktest
```

Source	SS	df	MS	Number of obs	=	
-----+-----					F(2, 29)	=
Model	2.66490161	2	1.3324508	Prob > F	=	
Residual	10.6500986	29	.367244778	R-squared	=	
-----+-----					Adj R-squared	=
Total	13.3150002	31	.429516134	Root MSE	=	

f_noofdrugs	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
_hat	13.51232	9.206407	1.47	0.153	-5.316893
_hatsq	-1.846994	1.357511	-1.36	0.184	-4.623415
_cons	-21.07637	15.55953	-1.35	0.186	-52.89919

```
.
. ***2. generics
. regress f_generics i.intervention i.region i.levelofcare b_antibiotics
```

Source	SS	df	MS	Number of obs	=	
-----+-----					F(6, 25)	=
Model	1073.69547	6	178.949245	Prob > F	=	
Residual	1833.02328	25	73.3209313	R-squared	=	
-----+-----					Adj R-squared	=
Total	2906.71875	31	93.765121	Root MSE	=	

f_generics	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
interventioncontrol					
Intervention	-3.610012	3.377316	-1.07	0.295	-10.56573

	region					
2.842529	2	-5.62226	4.110042	-1.37	0.184	-14.08705
12.56064	3	3.530528	4.384532	0.81	0.428	-5.499584
15.55751	4	6.40235	4.445246	1.44	0.162	-2.752806
	2.levelofcare	.2856202	3.830043	0.07	0.941	-7.602502
8.173742	b_antibiotics	.3311658	.1474943	2.25	0.034	.0273956
.634936	_cons	66.96555	9.378552	7.14	0.000	47.65006
86.28104						

```
. predict fgenericsres, residuals
. swilk fgenericsres
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
fgenericsres	32	0.90063	3.315	2.488	0.00643

```
. linktest
```

Source	SS	df	MS	Number of obs	=
32					
8.68				F(2, 29)	=
Model	1088.35566	2	544.177832	Prob > F	=
0.0011					
Residual	1818.36309	29	62.7021754	R-squared	=
0.3744					
				Adj R-squared	=
0.3313					
Total	2906.71875	31	93.765121	Root MSE	=
7.9185					

f_generics	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_hat	3.446536	5.065402	0.68	0.502	-6.913374
_hatsq	-.0149068	.0308285	-0.48	0.632	-.0779581

```

      _cons |   -99.83175    207.4581    -0.48    0.634    -524.1313
324.4678

```

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-----
```

```

.
.
.
. ***3. antibiotics
. regress f_antibiotics i.intervention i.region i.levelofcare
b_antibiotics

```

```

      Source |           SS           df           MS      Number of obs   =
32
-----+-----
1.85      Model |    1290.80523            6    215.134205      Prob > F           =
0.1295      Residual |    2904.91352           25    116.196541      R-squared           =
0.3076
-----+-----
0.1415      Total |    4195.71875           31    135.345766      Adj R-squared       =
10.779      Root MSE

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-----
-----
      f_antibiotics |           Coef.      Std. Err.      t    P>|t|     [95%
Conf. Interval]
-----+-----
interventioncontrol |
      Intervention |    -1.992528     4.251619     -0.47   0.643    -10.7489
6.763845
      region
      2 |    -1.109874     5.174029     -0.21   0.832    -11.76599
9.546238
      3 |    -.2884713     5.519578     -0.05   0.959    -11.65625
11.07931
      4 |    -1.220577     5.596009     -0.22   0.829    -12.74577
10.30462
      2.levelofcare |    -7.995791     4.821546     -1.66   0.110    -17.92595
1.934368
      b_antibiotics |     .3560642     .1856769      1.92   0.067     -.0263445
.738473
      _cons |     40.81754    11.80643      3.46   0.002     16.50175
65.13333

```

```
-----
```

```

. predict fantibioticsres, residuals

```

```
. swilk fantibioticsres
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
fantibioti~s	32	0.95144	1.620	1.001	0.15837

```
. linktest
```

Source	SS	df	MS	Number of obs	=
32					
				F(2, 29)	=
8.20					
Model	1516.20174	2	758.100869	Prob > F	=
0.0015					
Residual	2679.51701	29	92.3971384	R-squared	=
0.3614					
				Adj R-squared	=
0.3173					
Total	4195.71875	31	135.345766	Root MSE	=
9.6123					

f_antibiot~s	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_hat	7.799199	4.361463	1.79	0.084	-1.120994
16.71939					
_hatsq	-.0618235	.039583	-1.56	0.129	-.1427799
.0191329					
_cons	-184.2869	118.971	-1.55	0.132	-427.61
59.03622					

```
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```

```
. ***4. injections
```

```
. regress f_injection i.intervention i.region i.levelofcare  
b_antibiotics
```

Source	SS	df	MS	Number of obs	=
32					
				F(6, 25)	=
1.93					
Model	1444.02787	6	240.671312	Prob > F	=
0.1154					
Residual	3119.84713	25	124.793885	R-squared	=
0.3164					
				Adj R-squared	=
0.1523					

Total		4563.875	31	147.221774	Root MSE	=
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11.171

f_injections		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						

interventioncontrol						
Intervention		-2.029683	4.406101	-0.46	0.649	-11.10422 7.044851
region						
2		-9.291812	5.362026	-1.73	0.095	-20.33511 1.751487
3		-3.088452	5.72013	-0.54	0.594	-14.86928 8.692376
4		-5.363041	5.799338	-0.92	0.364	-17.307 6.580921
2.levelofcare		-2.532306	4.996735	-0.51	0.617	-12.82328 7.758663
b_antibiotics		.467221	.1924234	2.43	0.023	.0709175 .8635245
_cons		-8.579488	12.23541	-0.70	0.490	-33.77878 16.61981

. predict finjectionsres, residuals

. swilk finjectionsres

Shapiro-Wilk W test for normal data

Variable		Obs	W	V	z	Prob>z
-----+-----						
finjection~s		32	0.89501	3.502	2.602	0.00463

. linktest

Source		SS	df	MS	Number of obs	=
-----+-----						
Model		1874.55231	2	937.276153	F(2, 29)	=
Residual		2689.32269	29	92.7352653	Prob > F	=
-----+-----						
Total		4563.875	31	147.221774	Adj R-squared	=

32

10.11

0.0005

0.4107

0.3701

9.6299

f_injections	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					

_hat	-.258386	.6366432	-0.41	0.688	-1.560468
1.043695					
_hatsq	.0616069	.0285926	2.15	0.040	.0031286
.1200853					
_cons	3.601439	3.681163	0.98	0.336	-3.927384
11.13026					

.
end of do-file

```
. do "C:\Users\TC18804\AppData\Local\Temp\STD15ac_000000.tmp"

. gladder f_injections

. gen logf_injections =log(f_injections)
(3 missing values generated)

. swilk logf_injections
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
-----+-----					
logf_injec~s	29	0.98121	0.582	-1.116	0.86778

```
.
. regress logf_injection i.intervention i.region i.levelofcare
b_antibiotics
```

Source	SS	df	MS	Number of obs	=
29					
-----+-----				F(6, 22)	=
1.22					
Model	6.8662942	6	1.14438237	Prob > F	=
0.3327					
Residual	20.6028799	22	.93649454	R-squared	=
0.2500					
-----+-----				Adj R-squared	=
0.0454					
Total	27.4691741	28	.981041932	Root MSE	=
.96773					

logf_injections	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
interventioncontrol					
Intervention	-.1618944	.4062901	-0.40	0.694	-1.004489 .6806998
region					
2	-.6730448	.5235763	-1.29	0.212	-1.758875 .4127859
3	-.5115577	.5097108	-1.00	0.326	-1.568633 .5455179
4	-.497693	.5228227	-0.95	0.351	-1.581961 .586575
2.levelofcare	-.0678156	.4719985	-0.14	0.887	-1.046681 .9110495
b_antibiotics	.0353399	.0185497	1.91	0.070	-.0031298 .0738096
_cons	.5834731	1.183674	0.49	0.627	-1.871316 3.038262
-----+-----					

```
. predict logfinjectionsres, residuals
(3 missing values generated)
```

```
. swilk logfinjectionsres
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
-----+-----					
logfinject~s	29	0.94367	1.746	1.150	0.12513

```
. linktest
```

Source	SS	df	MS	Number of obs	=
29					
-----+-----				F(2, 26)	=
6.73					
Model	9.36640815	2	4.68320408	Prob > F	=
0.0044					
Residual	18.1027659	26	.696260228	R-squared	=
0.3410					
-----+-----				Adj R-squared	=
0.2903					
Total	27.4691741	28	.981041932	Root MSE	=
.83442					


```

logf_injec~s |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-----+-----
-----
      _hat |   -2.661982   1.958572    -1.36   0.186    -6.687885
1.363921
      _hatsq |    .9093751   .4798981     1.89   0.069    -.0770696
1.89582
      _cons |    3.469726   1.950671     1.78   0.087    -.5399355
7.479387
-----+-----
-----

```

```

.
end of do-file

```

```

. do "C:\Users\TC18804\AppData\Local\Temp\STD15ac_000000.tmp"

```

```

. ***5. EML
. regress f_eml i.intervention i.region i.levelofcare b_antibiotics

```

```

      Source |      SS          df           MS      Number of obs   =
32
-----+-----
1.62
      Model |   172.436632            6   28.7394387      Prob > F           =
0.1842
      Residual |   444.532118           25   17.7812847      R-squared           =
0.2795
-----+-----
0.1066
      Total |    616.96875           31   19.9022177      Adj R-squared       =
4.2168
      Root MSE

```

```

-----+-----
-----
      f_eml |      Coef.   Std. Err.      t    P>|t|     [95%
Conf. Interval]
-----+-----
-----
interventioncontrol |
      Intervention |   -2.464333   1.66318    -1.48   0.151    -5.889717
.9610504
      |
      region |
      2 |   -3.660225   2.024015    -1.81   0.083    -7.828763
.5083126
      3 |    .0485778   2.15919     0.02   0.982    -4.398357
4.495512
      4 |   -.1173851   2.189089    -0.05   0.958    -4.625898
4.391128
      |
      2.levelofcare |    1.271177   1.886128     0.67   0.507    -2.613377
5.155732

```

```

      b_antibiotics |    .0749556    .0726345    1.03    0.312    -.0746379
.2245491
      _cons |    89.79718    4.618526    19.44    0.000    80.28514
99.30921
-----
-----

```

```

. predict femlres, residuals

```

```

. swilk femlres

```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
femlres	32	0.95592	1.470	0.800	0.21179

```

. linktest

```

Source	SS	df	MS	Number of obs	=
32					
-----+-----				F(2, 29)	=
7.17					
Model	204.076105	2	102.038053	Prob > F	=
0.0030					
Residual	412.892645	29	14.2376774	R-squared	=
0.3308					
-----+-----				Adj R-squared	=
0.2846					
Total	616.96875	31	19.9022177	Root MSE	=
3.7733					

f_eml	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					

_hat	29.98072	19.44292	1.54	0.134	-9.784511
69.74595					
_hatsq	-.1588799	.1065795	-1.49	0.147	-.3768596
.0590997					
_cons	-1320.602	886.2789	-1.49	0.147	-3133.246
492.0416					
-----+-----					

```

.
end of do-file

```

```

. do "C:\Users\TC18804\AppData\Local\Temp\STD15ac_000000.tmp"

```

```

. log close
name: <unnamed>

```

log: C:\Users\TC18804\Dropbox\publications\Ndumi PhD 2021\New
analysis\Supplementary file xx - analysis.log
log type: text
closed on: 26 Jan 2022, 22:35:17

