

EVALUATION PROTOCOL – ADDENDUM

Evaluation of the 'SAFE' (Support, Attend, Fulfil, Exceed) Taskforces

**RAND Europe, University of Westminster, FFT
Education Datalab**

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1	Pre-treatment trends in serious violence													
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4	LA					Number of serious violence offenses				% change in yearly serious violence offences				
5	Year	Treated	Comp-all	Comp- APST	Comp-noAPST	Treated	Comp-all	Comp- APST	Comp-noAPST	Treated	Comp-all	Comp-APST	Comp-nonAPST	
6	2014	10	142	12	130	21483	87310	14708	72602					
7	2015	10	142	12	130	22683	98010	15593	82417	9.343	17.659	6.655	18.675	
8	2016	10	142	12	130	26186	113015	17395	95620	16.485	18.627	12.932	19.153	
9	2017	10	142	12	130	34829	142389	20842	121547	33.384	25.660	23.414	25.867	
10	2018	10	142	12	130	40681	173525	24272	149253	15.080	23.695	18.576	24.168	
11	2019	10	142	12	130	42023	191422	26922	164500	3.170	10.842	11.585	10.773	
12	2020	10	142	12	130	39308	186255	25522	160733	-6.461	-0.382	-4.653	0.016	
13	2021	10	142	12	130	40452	178684	25277	153407	-3.657	-3.664	-0.508	-3.957	
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Pre-treatment trends in educational outcomes (permanent exclusions, suspensions, absence) fo

						R ²
Year	Cohort	Treated	Comp-all	Comp- APST	Comp-noAPS	Treated
2014	2002	10	142	12	130	0.098
2015	2003	10	142	12	130	0.147
2016	2004	10	142	12	130	0.154
2017	2005	10	142	12	130	0.172
2018	2006	10	142	12	130	0.156
2019	2007	10	142	12	130	0.156
2020	2008	10	142	12	130	0.084
2021	2009	10	142	12	130	0.073

r 10-13 year olds

Rate of permanent exclusions			Unadjusted standard deviation			
Comp-all	Comp- APST	Comp-noAPS	Treated	Comp-all	Comp- APST	Comp-noAPS
0.107	0.138	0.104	0.063	0.082	0.092	0.081
0.131	0.148	0.129	0.085	0.100	0.092	0.101
0.154	0.193	0.150	0.086	0.108	0.144	0.104
0.175	0.187	0.174	0.100	0.116	0.135	0.115
0.175	0.161	0.176	0.081	0.111	0.102	0.112
0.179	0.164	0.181	0.090	0.123	0.137	0.122
0.100	0.092	0.101	0.054	0.065	0.075	0.064
0.088	0.078	0.089	0.038	0.066	0.079	0.065

Rate of suspensions				Unadjusted standard deviation		
Treated	Comp-all	Comp- APST	Comp-noAPS	Treated	Comp-all	Comp- APST
6.924	6.498	8.017	6.358	1.613	2.718	3.273
8.331	7.524	9.837	7.311	2.267	4.298	4.239
9.060	8.589	11.287	8.339	3.392	5.518	6.544
9.858	9.697	12.848	9.406	2.970	5.934	11.001
9.503	10.652	12.858	10.448	1.798	8.359	12.278
10.596	10.993	13.013	10.806	3.288	6.812	10.381
6.764	6.860	8.514	6.704	2.203	4.310	6.606
7.692	8.285	9.833	8.139	2.061	4.701	8.207

on	% of sessions missed due to overall absence				Unadjusted star		
	Comp-noAPS	Treated	Comp-all	Comp- APST	Comp-noAPS	Treated	Comp-all
	2.632	4.617	4.627	4.669	4.623	0.537	0.424
	4.256	4.826	4.810	4.812	4.810	0.508	0.397
	5.375	4.806	4.756	4.878	4.744	0.513	0.392
	5.211	4.953	4.954	4.980	4.951	0.505	0.451
	7.939	5.146	5.189	5.155	5.192	0.490	0.441
	6.412	5.045	5.014	4.967	5.018	0.470	0.462
	4.031						
	4.251	7.380	6.642	6.946	6.613	1.017	1.013

Standard deviation		% of sessions missed due to unauth. absence				Ur
Comp- APST	Comp-noAPS	Treated	Comp-all	Comp- APST	Comp-noAPS	Treated
0.410	0.426	1.368	1.040	1.312	1.015	0.277
0.399	0.399	1.430	1.090	1.357	1.066	0.243
0.522	0.379	1.520	1.169	1.469	1.141	0.308
0.601	0.437	1.703	1.312	1.557	1.289	0.376
0.560	0.431	1.876	1.450	1.727	1.425	0.456
0.545	0.455	1.941	1.496	1.734	1.475	0.434
1.161	0.998	2.634	1.789	2.258	1.745	0.629

unadjusted standard deviation			% of persistent absentees			
Comp-all	Comp- APST	Comp-noAPS	Treated	Comp-all	Comp- APST	Comp-noAPS
0.352	0.248	0.351	12.165	11.546	11.940	11.510
0.377	0.279	0.376	12.774	12.119	12.225	12.109
0.394	0.300	0.391	12.526	11.776	12.542	11.705
0.434	0.423	0.430	12.554	12.177	12.714	12.127
0.465	0.425	0.461	13.365	13.043	13.334	13.016
0.479	0.418	0.479	12.538	12.179	12.365	12.162
0.637	0.557	0.628	21.950	19.285	20.590	19.162

Unadjusted standard deviation			
Treated	Comp-all	Comp- APST	Comp-noAPST
2.444	2.078	1.965	2.092
2.491	2.006	2.047	2.009
2.327	2.068	2.299	2.040
2.030	2.058	2.794	1.983
2.065	2.240	2.551	2.219
1.712	1.972	2.186	1.959
3.335	3.685	3.680	3.676

Pre-treatment trends in post-16 participation (in school at age 16, in school or employment at age 16)

						% of 13 year
Year	Cohort	Treated	Comp-all	Comp- APST	Comp-noAPST	Treated
2018	2006	10	142	12	130	0.923
2019	2007	10	142	12	130	0.924
2020	2008	10	142	12	130	0.942

5) for 13 year olds

r olds in sustained education at age 16			Unadjusted standard deviation				
Comp-all	Comp- APST	Comp-noAPST	Treated	Comp-all	Comp- APST	Comp-noAPST	
0.918	0.917	0.918	0.019	0.031	0.023	0.032	
0.918	0.922	0.918	0.020	0.054	0.025	0.056	
0.932	0.936	0.932	0.015	0.060	0.021	0.063	

% of 13 year olds in education or employment at age 16				Unadjusted standard deviatio		
Treated	Comp-all	Comp- APST	Comp-noAPST	Treated	Comp-all	Comp- APST
0.931	0.931	0.927	0.931	0.016	0.026	0.017
0.931	0.931	0.932	0.930	0.019	0.054	0.019
0.946	0.942	0.943	0.941	0.013	0.060	0.015

on

Comp-noAPST

0.027

0.056

0.063

Figure 1a - Pre-treatment trend in change of serious violence offences across different groups

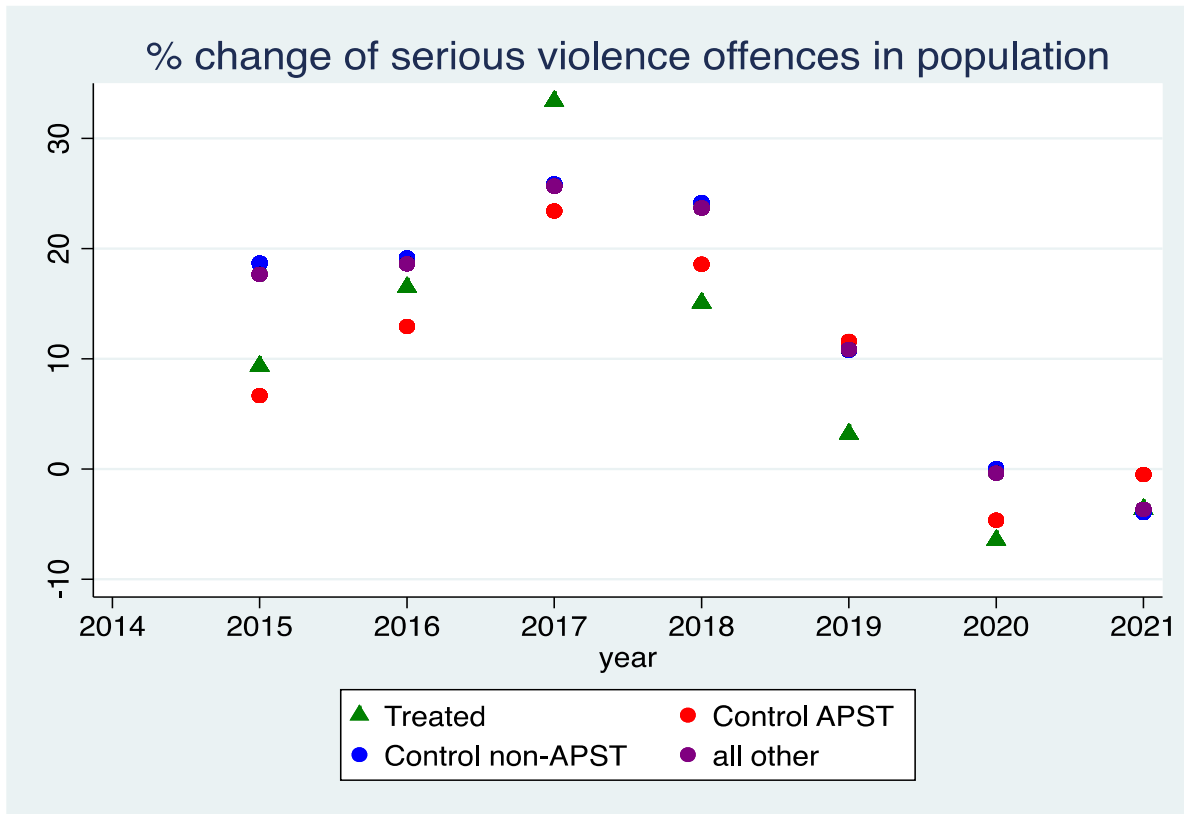


Figure 1b - Pre-treatment trend in number of serious violence offences across different groups

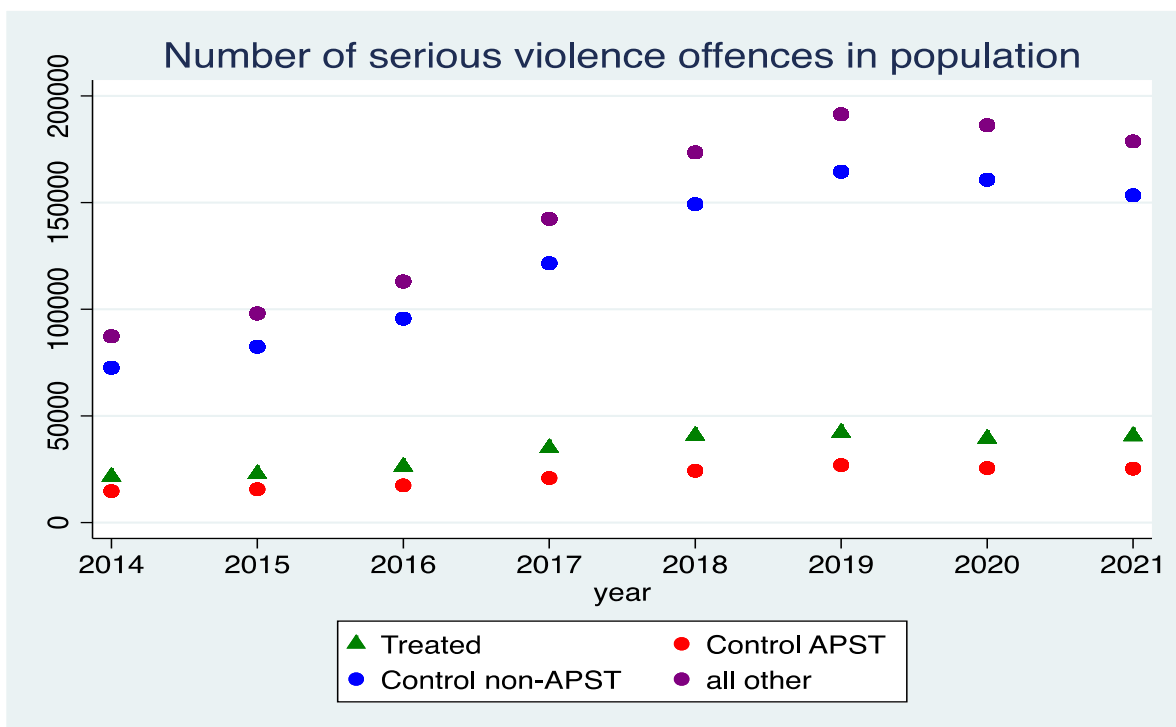


Figure 2 - Pre-treatment trend in rate of permanent exclusion across different groups



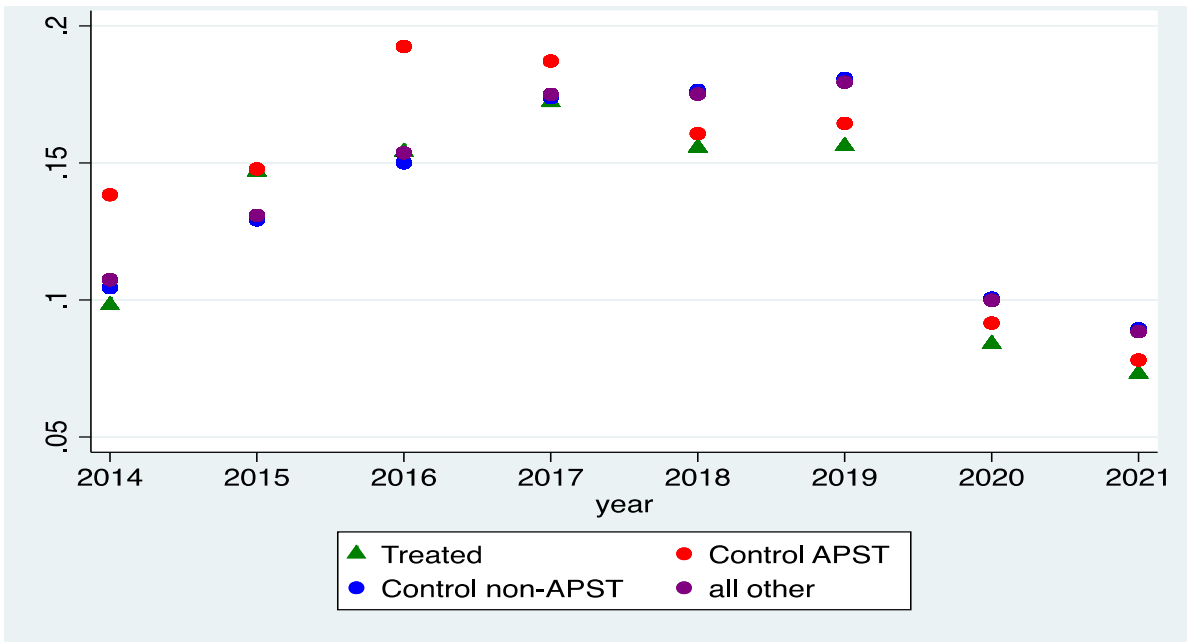


Figure 3 - Pre-treatment trend in rate of suspension across different groups

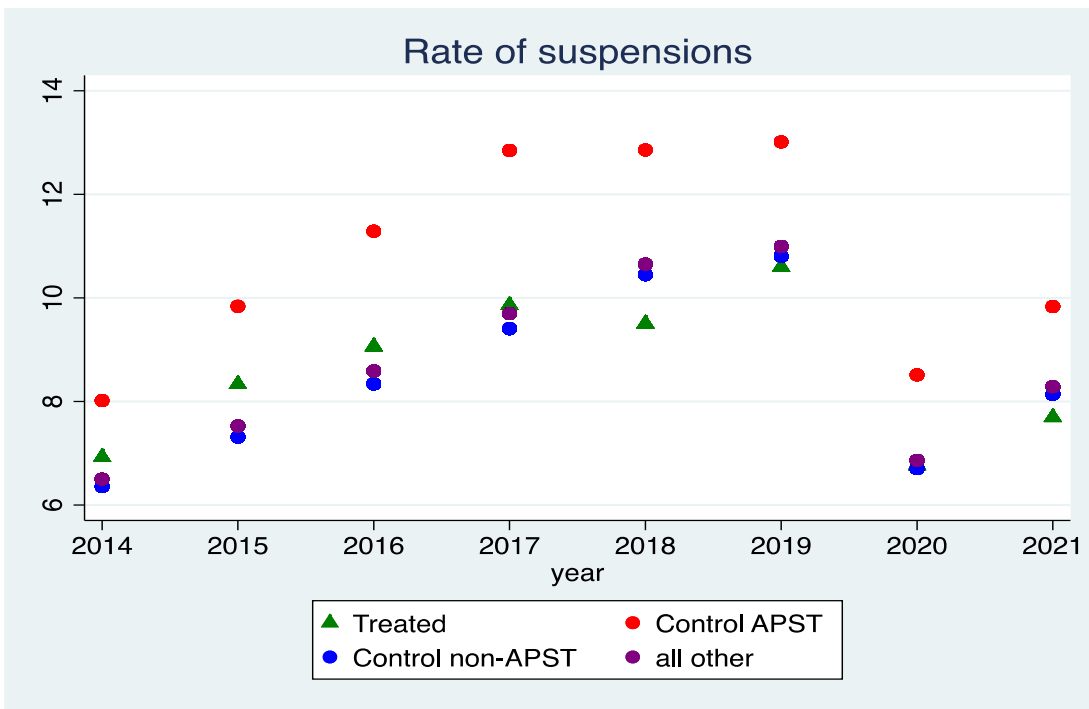
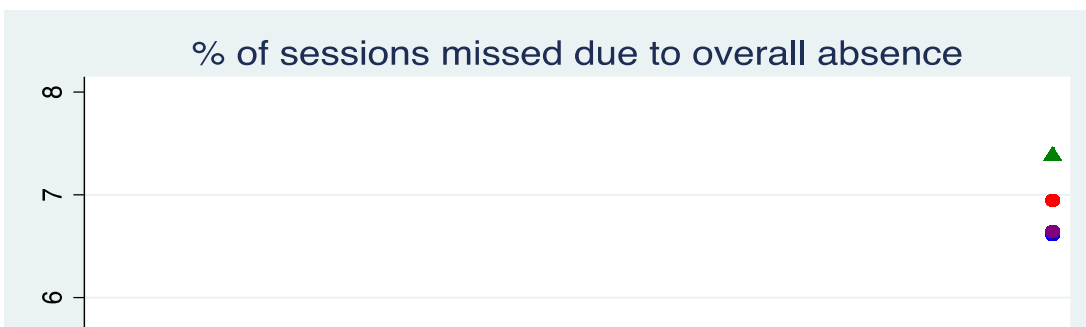


Figure 4- Pre-treatment trend in session missed due to absences across different groups



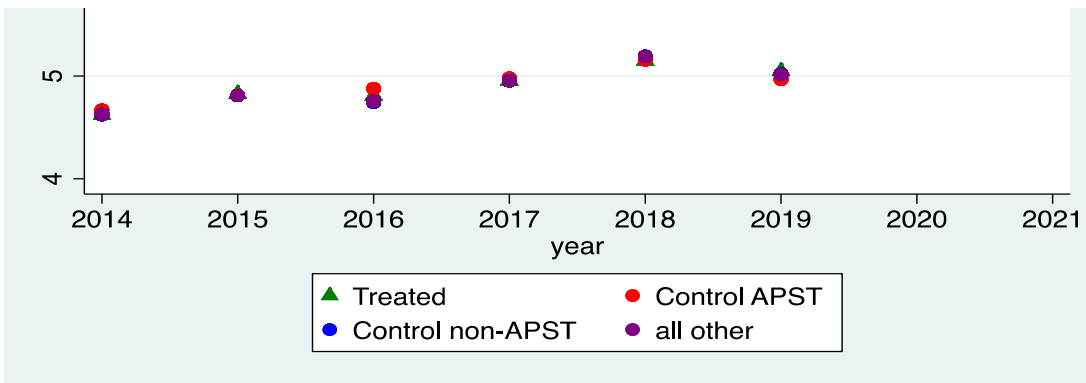


Figure 5- Pre-treatment trend in session missed due to unauthorised absences across different g

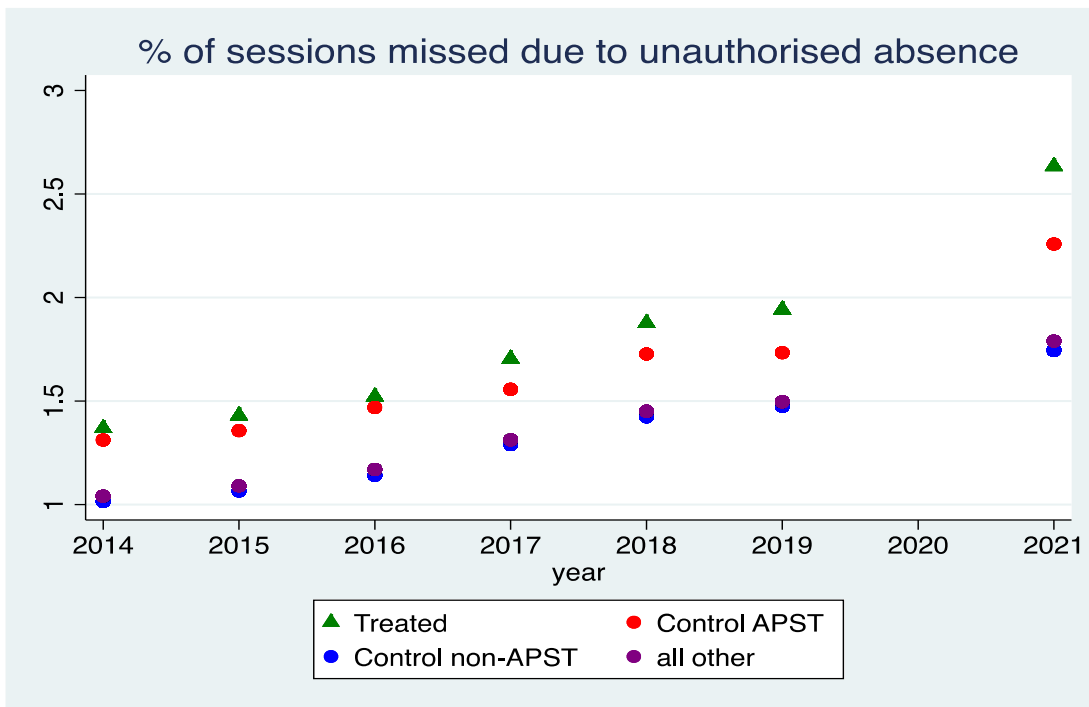


Figure 6 - Pre-treatment trend in session missed due to persistent absences across different gro

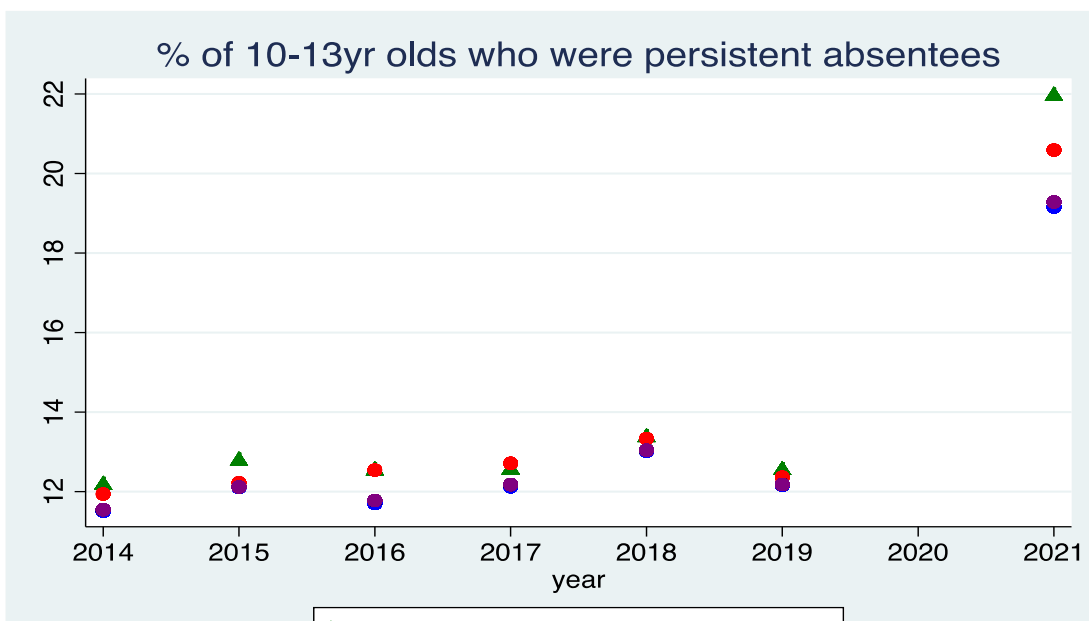




Figure 7- Pre-treatment trend in % of 13 years-olds who were in sustained education at age 16 across

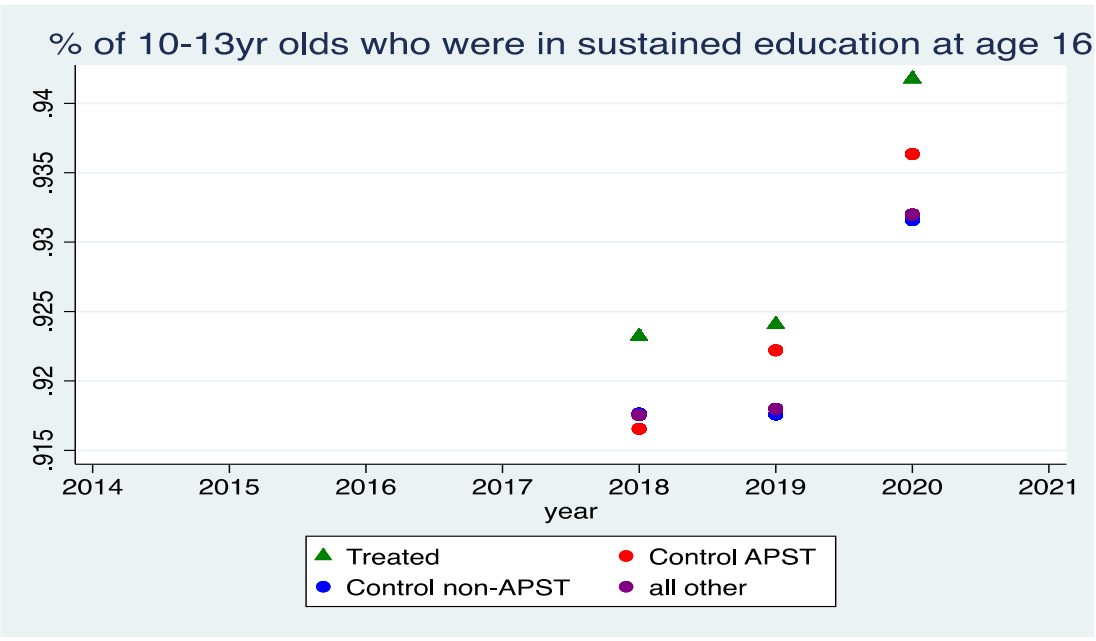
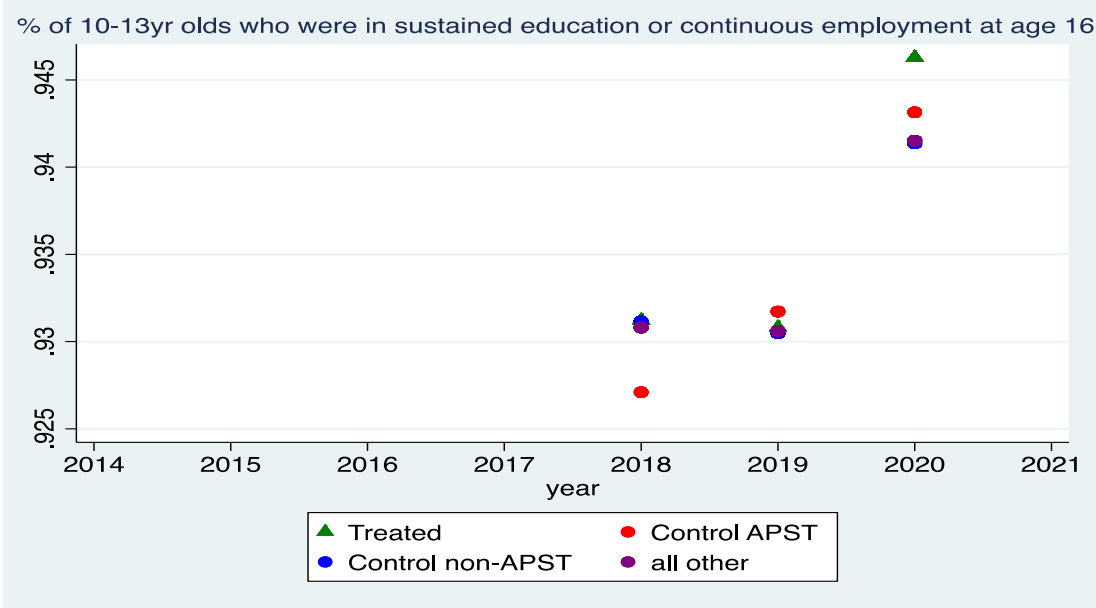


Figure 7- Pre-treatment trend in % of 13 year olds in education or employment at age 16 across



ross different groups

different groups

Pre-treatment trends in outcomes

Outcomes

Comparison-All, no controls

Number of serious violence offenses

Year	Coeff	Robust se	t	p>t
2015	44.65	418.79	0.110	0.915
2016	289.28	451.56	0.640	0.522
2017	946.72	537.32	1.760	0.078
2018	1312.65	649.65	2.020	0.044
2019	1320.82	717.89	1.840	0.066
2020	1085.70	709.13	1.530	0.126
2021	1253.42	988.76	1.270	0.205

N

F(7, 120)
Prc

Change in serious violence

Year	Coeff	Robust se	t	p>t
2016	6.174	8.148	0.760	0.449
2017	16.040	8.074	1.990	0.047
2018	-0.298	6.838	-0.040	0.965
2019	0.645	7.383	0.090	0.930
2020	2.237	6.505	0.340	0.731
2021	8.323	7.987	1.040	0.298

N

F(6, 104)
Prc

Rate of permanent exclusions

Year	Coeff	Robust se	t	p>t
2015	0.025	0.034	0.750	0.455
2016	0.010	0.034	0.280	0.779
2017	0.006	0.038	0.170	0.865
2018	-0.010	0.033	-0.310	0.757
2019	-0.014	0.036	-0.390	0.694
2020	-0.007	0.027	-0.250	0.803
2021	-0.006	0.024	-0.250	0.801

N

F(7, 119)
Prc

Rate of suspensions

Year	Coeff	Robust se	t	p>t
2015	0.381	0.943	0.400	0.686

2016	0.046	1.247	0.040	0.971
2017	-0.265	1.159	-0.230	0.819
2018	-1.575	1.039	-1.520	0.130
2019	-0.823	1.267	-0.650	0.516
2020	-0.522	0.931	-0.560	0.575
2021	-1.019	0.915	-1.110	0.266

N

F(7, 119)
Prc

% of sessions missed due to overall :

Year	Coeff	Robust se	t	p>t
2015	0.026	0.229	0.110	0.911
2016	0.060	0.229	0.260	0.794
2017	0.009	0.229	0.040	0.969
2018	-0.033	0.225	-0.150	0.882
2019	0.040	0.222	0.180	0.857
2021	0.747	0.360	2.080	0.038

N

F(6, 104)
Prc

% of sessions missed due to unauth.

Year	Coeff	Robust se	t	p>t
2015	0.011	0.119	0.090	0.926
2016	0.023	0.133	0.180	0.860
2017	0.063	0.149	0.430	0.670
2018	0.098	0.168	0.580	0.561
2019	0.117	0.163	0.720	0.475
2021	0.516	0.216	2.390	0.017

N

F(6, 104)
Prc

% of persistent absentees

Year	Coeff	Robust se	t	p>t
2015	0.037	1.081	0.030	0.973
2016	0.132	1.048	0.130	0.900
2017	-0.242	0.991	-0.240	0.807
2018	-0.297	1.000	-0.300	0.767
2019	-0.260	0.933	-0.280	0.780
2021	2.046	1.299	1.570	0.116

N

F(6, 104)
Prc

% of 13 year olds in sustained educa	Year	Coeff	Robust se	t	p>t
	2019	0.000	0.010	0.040	0.966
	2020	0.004	0.009	0.440	0.659

N

F(2, 447)
Prc

% of 13 year olds in education or emj	Year	Coeff	Robust se	t	p>t
	2019	0.000	0.009	-0.020	0.982
	2020	0.004	0.008	0.520	0.601

N

F(2, 447)
Prc

Comparison - APST, no control

LCI	UCI	Year	Coeff	Robust se	t	p>t
-776.99	866.29	2015	46.25	455.87	0.100	0.919
-596.66	1175.22	2016	246.38	488.35	0.500	0.615
-107.47	2000.91	2017	823.43	572.36	1.440	0.152
38.08	2587.23	2018	1122.80	683.68	1.640	0.102
-87.63	2729.27	2019	1036.17	754.14	1.370	0.171
-305.58	2476.99	2020	881.33	743.98	1.180	0.238
-686.47	3193.31	2021	1016.15	1036.63	0.980	0.328

1216

N

0) = 25.21

F(7, 160)

Prob > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-9.813	22.162	2016	0.865	9.259	0.090	0.926
0.197	31.884	2017	7.281	10.593	0.690	0.493
-13.717	13.120	2018	-6.184	9.056	-0.680	0.496
-13.843	15.132	2019	-11.103	8.697	-1.280	0.204
-10.528	15.001	2020	-4.497	7.594	-0.590	0.555
-7.350	23.996	2021	-5.837	9.756	-0.600	0.551

1061

N

7) = 63.29

F(6, 140)

Prob > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.041	0.092	2015	0.039	0.050	0.780	0.436
-0.058	0.077	2016	0.002	0.060	0.030	0.976
-0.068	0.080	2017	0.025	0.060	0.420	0.676
-0.075	0.055	2018	0.035	0.051	0.690	0.493
-0.084	0.056	2019	0.032	0.059	0.540	0.589
-0.059	0.046	2020	0.033	0.043	0.760	0.451
-0.053	0.041	2021	0.035	0.042	0.840	0.404

1210

N

4) = 23.08

F(7, 160)

Prob > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-1.469	2.231	2015	-0.412	1.782	-0.230	0.817

-2.401	2.492	2016	-1.134	2.428	-0.470	0.641
-2.539	2.009	2017	-1.897	3.493	-0.540	0.588
-3.614	0.464	2018	-2.261	3.761	-0.600	0.548
-3.308	1.662	2019	-1.324	3.359	-0.390	0.694
-2.348	1.305	2020	-0.657	2.303	-0.290	0.776
-2.813	0.776	2021	-1.047	2.690	-0.390	0.698

1210

N

4) = 15.06

F(7, 160

Prob > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.423	0.474	2015	0.065	0.286	0.230	0.819
-0.390	0.510	2016	-0.021	0.303	-0.070	0.946
-0.440	0.457	2017	0.024	0.314	0.080	0.938
-0.476	0.409	2018	0.042	0.305	0.140	0.891
-0.395	0.475	2019	0.129	0.299	0.430	0.666
0.042	1.453	2021	0.485	0.508	0.950	0.341

1061

N

7) = 93.60

F(6, 140

Prob > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.223	0.246	2015	0.016	0.159	0.100	0.921
-0.237	0.284	2016	-0.005	0.172	-0.030	0.975
-0.228	0.355	2017	0.090	0.204	0.440	0.660
-0.232	0.429	2018	0.092	0.220	0.420	0.676
-0.204	0.437	2019	0.151	0.215	0.700	0.483
0.092	0.941	2021	0.318	0.279	1.140	0.256

1061

N

7) = 41.08

F(6, 140

Prob > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-2.085	2.159	2015	0.325	1.372	0.240	0.813
-1.925	2.190	2016	-0.241	1.377	-0.170	0.862
-2.185	1.702	2017	-0.384	1.407	-0.270	0.785
-2.259	1.665	2018	-0.194	1.373	-0.140	0.888
-2.091	1.570	2019	-0.052	1.268	-0.040	0.967
-0.503	4.596	2021	1.135	1.776	0.640	0.524

1061

N

$r^2 = 89.31$
 $\text{Prob} > F = 0.0000$

F(6, 140)
Prob

LCI	UCI
-0.019	0.020
-0.014	0.022

Year	Coeff	Robust se	t	p>t
2019	-0.005	0.013	-0.370	0.715
2020	-0.001	0.012	-0.110	0.916

453

N

$r^2 = 3.32$
 $\text{Prob} > F = 0.0371$

F(2, 60)
Prob

LCI	UCI
-0.018	0.017
-0.012	0.021

Year	Coeff	Robust se	t	p>t
2019	-0.005	0.011	-0.470	0.641
2020	-0.001	0.009	-0.100	0.917

453

N

$r^2 = 1.94$
 $\text{Prob} > F = 0.1455$

F(2, 60)
Prob

ls

Comparison - non-APST, no contr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-854.05	946.55	2015	44.50	418.91	0.110	0.915
-718.06	1210.83	2016	293.24	451.77	0.650	0.516
-306.92	1953.78	2017	958.10	537.76	1.780	0.075
-227.41	2473.01	2018	1330.18	650.40	2.050	0.041
-453.18	2525.52	2019	1347.09	718.78	1.870	0.061
-587.96	2350.62	2020	1104.57	709.94	1.560	0.120
-1031.08	3063.38	2021	1275.32	989.50	1.290	0.198

176

N

) = 17.19

F(7, 1104)

Prob > F = 0.0000

Prob

LCI	UCI	Year	Coeff	Robust se	t	p>t
-17.439	19.170	2016	6.665	8.211	0.810	0.417
-13.662	28.225	2017	16.849	8.127	2.070	0.038
-24.088	11.720	2018	0.245	6.902	0.040	0.972
-28.298	6.091	2019	1.729	7.435	0.230	0.816
-19.510	10.517	2020	2.855	6.552	0.440	0.663
-25.126	13.452	2021	9.633	8.031	1.200	0.231

176

N

) = 6.64

F(6, 963)

Prob > F = 0.0000

Prob

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.060	0.139	2015	0.024	0.034	0.710	0.481
-0.116	0.120	2016	0.010	0.034	0.300	0.763
-0.094	0.144	2017	0.005	0.038	0.120	0.902
-0.066	0.137	2018	-0.014	0.033	-0.430	0.665
-0.085	0.149	2019	-0.018	0.036	-0.510	0.610
-0.053	0.118	2020	-0.010	0.027	-0.380	0.701
-0.048	0.119	2021	-0.010	0.024	-0.410	0.681

176

N

) = 2.14

F(7, 1098)

Prob > F = 0.0428

Prob

LCI	UCI	Year	Coeff	Robust se	t	p>t
-3.932	3.107	2015	0.454	0.949	0.480	0.632

-5.929	3.661	2016	0.155	1.251	0.120	0.902
-8.794	5.001	2017	-0.115	1.143	-0.100	0.920
-9.689	5.166	2018	-1.512	1.037	-1.460	0.145
-7.958	5.310	2019	-0.776	1.264	-0.610	0.539
-5.205	3.892	2020	-0.506	0.929	-0.540	0.586
-6.360	4.265	2021	-1.012	0.907	-1.120	0.264

176

N

) = 1.01

F(7, 1098)

Prob > F = 0.4297

Prot

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.500	0.630	2015	0.022	0.229	0.100	0.924
-0.619	0.578	2016	0.067	0.230	0.290	0.770
-0.595	0.644	2017	0.007	0.229	0.030	0.974
-0.560	0.644	2018	-0.040	0.226	-0.180	0.858
-0.462	0.721	2019	0.032	0.222	0.140	0.886
-0.520	1.490	2021	0.772	0.361	2.140	0.033

154

N

) = 7.32

F(6, 963)

Prob > F = 0.0000

Prot

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.298	0.329	2015	0.011	0.120	0.090	0.929
-0.346	0.335	2016	0.026	0.133	0.200	0.845
-0.314	0.494	2017	0.061	0.149	0.410	0.683
-0.343	0.528	2018	0.099	0.169	0.580	0.560
-0.273	0.575	2019	0.114	0.164	0.690	0.489
-0.233	0.870	2021	0.536	0.217	2.470	0.014

154

N

) = 6.59

F(6, 963)

Prob > F = 0.0000

Prot

LCI	UCI	Year	Coeff	Robust se	t	p>t
-2.387	3.037	2015	0.010	1.085	0.010	0.992
-2.963	2.482	2016	0.167	1.052	0.160	0.874
-3.166	2.397	2017	-0.228	0.993	-0.230	0.818
-2.908	2.520	2018	-0.306	1.003	-0.310	0.760
-2.559	2.454	2019	-0.279	0.936	-0.300	0.766
-2.376	4.647	2021	2.133	1.305	1.640	0.102

154

N

) = 9.59
ob > F = 0.0000

F(6, 963)
Prot

LCI	UCI
-0.031	0.021
-0.025	0.022

Year	Coeff	Robust se	t	p>t
2019	0.001	0.010	0.090	0.928
2020	0.005	0.010	0.480	0.632

66

N

) = 2.64
ob > F = 0.0800

F(2, 411)
Prot

LCI	UCI
-0.027	0.016
-0.020	0.018

Year	Coeff	Robust se	t	p>t
2019	0.000	0.009	0.030	0.979
2020	0.005	0.009	0.560	0.576

66.000

N

) = 3.12
ob > F = 0.0515

F(2, 411)
Prot

ols

Comparison-All, with controls

LCI	UCI	Year	Coeff	Robust se	t	p>t
-777.46	866.46	2015	132.90	229.98	0.580	0.563
-593.18	1179.65	2016	409.86	245.91	1.670	0.096
-97.04	2013.24	2017	1071.93	348.41	3.080	0.002
54.01	2606.34	2018	1485.91	458.85	3.240	0.001
-63.23	2757.42	2019	1459.79	501.05	2.910	0.004
-288.42	2497.56	2020	1212.57	477.84	2.540	0.011
-666.20	3216.85	2021	1298.40	762.14	1.700	0.089

1120.00

N

) = 22.47

F(7, 117

) > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-9.449	22.778	2016	5.766	7.753	0.740	0.457
0.900	32.797	2017	14.678	7.774	1.890	0.059
-13.300	13.790	2018	-1.818	6.580	-0.280	0.782
-12.861	16.320	2019	-0.291	7.160	-0.040	0.968
-10.003	15.713	2020	1.489	6.302	0.240	0.813
-6.128	25.394	2021	7.884	7.755	1.020	0.310

977

N

= 58.36

F(6, 102

) > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.043	0.091	2015	0.021	0.032	0.660	0.511
-0.057	0.078	2016	0.004	0.032	0.130	0.900
-0.070	0.079	2017	0.002	0.035	0.050	0.957
-0.080	0.051	2018	-0.016	0.032	-0.500	0.616
-0.088	0.052	2019	-0.020	0.035	-0.570	0.566
-0.063	0.042	2020	-0.015	0.026	-0.560	0.578
-0.057	0.037	2021	-0.012	0.025	-0.500	0.614

1114

N

) = 21.21

F(7, 117

) > F = 0.0000

Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-1.408	2.316	2015	0.208	1.078	0.190	0.847

-2.300	2.610	2016	-0.178	1.411	-0.130	0.900
-2.358	2.128	2017	-0.485	1.385	-0.350	0.726
-3.546	0.522	2018	-1.890	1.269	-1.490	0.137
-3.256	1.703	2019	-1.120	1.387	-0.810	0.420
-2.329	1.317	2020	-0.795	1.052	-0.760	0.450
-2.792	0.767	2021	-1.176	1.081	-1.090	0.277

1114

N

) = 14.93
) > F = 0.0000

F(7, 117
Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.428	0.472	2015	0.013	0.209	0.060	0.950
-0.384	0.518	2016	0.048	0.210	0.230	0.821
-0.442	0.457	2017	-0.006	0.210	-0.030	0.976
-0.484	0.403	2018	-0.055	0.209	-0.260	0.794
-0.405	0.468	2019	0.018	0.211	0.080	0.933
0.064	1.480	2021	0.729	0.335	2.180	0.030

977

N

= 86.95
) > F = 0.0000

F(6, 102
Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.225	0.247	2015	0.017	0.143	0.120	0.907
-0.236	0.288	2016	0.031	0.146	0.210	0.834
-0.232	0.354	2017	0.072	0.158	0.460	0.647
-0.233	0.430	2018	0.108	0.175	0.620	0.536
-0.208	0.436	2019	0.126	0.169	0.750	0.454
0.109	0.962	2021	0.521	0.223	2.340	0.019

977

N

= 37.27
) > F = 0.0000

F(6, 102
Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-2.119	2.139	2015	-0.068	0.936	-0.070	0.942
-1.897	2.230	2016	0.015	0.923	0.020	0.987
-2.177	1.720	2017	-0.392	0.883	-0.440	0.657
-2.275	1.663	2018	-0.498	0.883	-0.560	0.573
-2.117	1.558	2019	-0.444	0.860	-0.520	0.606
-0.427	4.694	2021	1.950	1.164	1.680	0.094

977

N

= 80.36
) > F = 0.0000

F(6, 102
Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.019	0.021	2019	-0.003	0.009	-0.310	0.760
-0.014	0.024	2020	0.001	0.007	0.140	0.890

417

N

= 2.66
) > F = 0.0708

F(2, 43;
Pr

LCI	UCI	Year	Coeff	Robust se	t	p>t
-0.018	0.018	2019	-0.003	0.008	-0.410	0.682
-0.012	0.022	2020	0.001	0.007	0.210	0.830

417

N

= 1.52
) > F = 0.2208

F(2, 43;
Pr

3

Comparison - APST, with controls

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-318.31	584.12	2015	105.68	451.85	0.23	0.82	-786.90
-72.61	892.34	2016	291.52	407.12	0.72	0.48	-512.70
388.36	1755.50	2017	844.41	453.45	1.86	0.06	-51.34
585.65	2386.17	2018	1183.36	505.32	2.34	0.02	185.15
476.72	2442.85	2019	1099.11	482.69	2.28	0.02	145.61
275.05	2150.08	2020	947.77	446.22	2.12	0.04	66.32
-196.91	2793.71	2021	1026.80	674.65	1.52	0.13	-305.89

1192

N

176

!1) = 33.13
ob > F = 0.0000

F(7, 155) = 6.55
Prob > F =

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-9.447	20.980	2017	7.734	10.719	0.720	0.472	-13.465
-0.576	29.932	2018	-6.041	8.531	-0.710	0.480	-22.913
-14.729	11.094	2019	-10.941	8.436	-1.300	0.197	-27.624
-14.341	13.760	2020	-4.373	7.615	-0.570	0.567	-19.432
-10.876	13.855	2021	-5.142	9.110	-0.560	0.573	-23.159

1040

N

176

!1) = 32.86
ob > F = 0.0000

F(6, 135) = 4.90
Prob > F =

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-0.042	0.085	2015	0.037	0.052	0.710	0.478	-0.066
-0.059	0.067	2016	0.000	0.057	0.010	0.993	-0.112
-0.066	0.070	2017	0.029	0.057	0.520	0.606	-0.082
-0.079	0.047	2018	0.042	0.049	0.870	0.388	-0.054
-0.089	0.048	2019	0.039	0.057	0.670	0.503	-0.075
-0.066	0.037	2020	0.038	0.041	0.930	0.356	-0.043
-0.060	0.036	2021	0.044	0.041	1.070	0.288	-0.038

1192

N

176

!1) = 16.44
ob > F = 0.0000

F(7, 155) = 2.14
Prob > F =

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-1.907	2.322	2015	-0.655	1.714	-0.380	0.703	-4.041

-2.946	2.590	2016	-1.493	2.509	-0.600	0.553	-6.449
-3.202	2.232	2017	-2.128	3.588	-0.590	0.554	-9.216
-4.379	0.599	2018	-2.665	3.894	-0.680	0.495	-10.357
-3.842	1.601	2019	-1.592	3.425	-0.460	0.643	-8.357
-2.860	1.269	2020	-0.885	2.295	-0.390	0.700	-5.419
-3.297	0.945	2021	-1.126	2.551	-0.440	0.660	-6.165

1192

N 176

'1) = 15.69
ob > F = 0.0000

F(7, 155) = 1.26
Prob > F =

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-0.397	0.423	2015	0.013	0.236	0.060	0.955	-0.453
-0.365	0.460	2016	-0.058	0.262	-0.220	0.825	-0.575
-0.419	0.406	2017	0.024	0.270	0.090	0.931	-0.510
-0.466	0.356	2018	0.023	0.254	0.090	0.927	-0.478
-0.395	0.431	2019	0.107	0.253	0.420	0.673	-0.393
0.072	1.386	2021	0.508	0.440	1.150	0.250	-0.362

1043

N 154

'4) = 88.79
ob > F = 0.0000

F(6, 135) = 9.72
Prob > F =

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-0.264	0.297	2015	-0.024	0.118	-0.200	0.842	-0.258
-0.257	0.318	2016	-0.055	0.126	-0.430	0.665	-0.303
-0.238	0.383	2017	0.070	0.159	0.440	0.662	-0.245
-0.235	0.451	2018	0.055	0.170	0.320	0.747	-0.282
-0.205	0.458	2019	0.128	0.169	0.760	0.450	-0.206
0.085	0.958	2021	0.328	0.226	1.450	0.150	-0.120

1043

N 154

'4) = 64.48
ob > F = 0.0000

F(6, 135) = 15.3
Prob > F =

LCI	UCI	Year	Coeff	Robust se	t	p>t	LCI
-1.904	1.768	2015	0.090	1.067	0.080	0.933	-2.021
-1.796	1.826	2016	-0.444	1.149	-0.390	0.700	-2.716
-2.126	1.341	2017	-0.443	1.156	-0.380	0.702	-2.729
-2.230	1.235	2018	-0.363	1.101	-0.330	0.742	-2.541
-2.132	1.244	2019	-0.210	1.063	-0.200	0.844	-2.312
-0.333	4.234	2021	1.180	1.479	0.800	0.427	-1.746

1043

N 154.000

!4) = 110.43
ob > F = 0.0000

F(6, 135) = 15.31
Prob > F =

LCI	UCI
-0.020	0.015
-0.014	0.016

Year	Coeff	Robust se	t	p>t	LCI
2019	-0.004	0.011	-0.370	0.716	-0.027
2020	0.000	0.010	-0.010	0.991	-0.019

444

N 66.000

3) = 24.19
ob > F = 0.0000

F(2, 55) = 1.20
Prob > F =

LCI	UCI
-0.019	0.012
-0.011	0.014

Year	Coeff	Robust se	t	p>t	LCI
2019	-0.004	0.010	-0.460	0.647	-0.024
2020	0.000	0.008	-0.020	0.988	-0.016

444

N 66

3) = 27.45
ob > F = 0.0000

F(2, 55) = 1.96
Prob > F =

Comparison - non-APST, with controls

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
998.25	2015	137.61	232.42	0.59	0.55	-318.43	593.66
1095.75	2016	423.36	248.81	1.70	0.09	-64.84	911.56
1740.16	2017	1095.57	352.51	3.11	0.00	403.89	1787.25
2181.56	2018	1518.61	463.09	3.28	0.00	609.95	2427.26
2052.61	2019	1498.72	505.60	2.96	0.00	506.64	2490.79
1829.22	2020	1242.45	482.82	2.57	0.01	295.06	2189.83
2359.49	2021	1328.92	767.56	1.73	0.08	-177.18	2835.01

N 1096

F(7, 1075) = 30.19

Prob > F = 0.0000

0.0000

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
28.934	2016	6.285	7.870	0.800	0.425	-9.160	21.730
10.831	2017	15.430	7.851	1.970	0.050	0.023	30.838
5.742	2018	-1.268	6.690	-0.190	0.850	-14.398	11.861
10.687	2019	0.815	7.259	0.110	0.911	-13.430	15.060
12.876	2020	2.111	6.393	0.330	0.741	-10.436	14.657
	2021	9.134	7.806	1.170	0.242	-6.185	24.452

N 956

F(6, 937) = 28.36

Prob > F = 0.0000

0.0001

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
0.140	2015	0.020	0.032	0.630	0.528	-0.043	0.083
0.113	2016	0.005	0.032	0.160	0.871	-0.057	0.068
0.141	2017	0.000	0.035	0.010	0.990	-0.067	0.068
0.139	2018	-0.020	0.032	-0.630	0.531	-0.082	0.043
0.152	2019	-0.025	0.035	-0.710	0.478	-0.093	0.044
0.120	2020	-0.019	0.026	-0.730	0.468	-0.070	0.032
0.126	2021	-0.019	0.024	-0.770	0.443	-0.067	0.029

N 1096

F(7, 1075) = 17.59

Prob > F = 0.0000

0.0424

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
2.730	2015	0.362	1.098	0.330	0.742	-1.793	2.517

3.463	2016	0.044	1.427	0.030	0.975	-2.756	2.844
4.959	2017	-0.216	1.380	-0.160	0.876	-2.924	2.492
5.027	2018	-1.660	1.248	-1.330	0.184	-4.109	0.788
5.173	2019	-0.942	1.390	-0.680	0.498	-3.669	1.785
3.648	2020	-0.663	1.069	-0.620	0.535	-2.760	1.434
3.913	2021	-1.128	1.094	-1.030	0.303	-3.275	1.018

N 1096

0.2716

F(7, 1075) = 15.63
Prob > F = 0.0000

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
0.480	2015	0.034	0.228	0.150	0.882	-0.414	0.482
0.459	2016	0.089	0.228	0.390	0.697	-0.358	0.535
0.557	2017	0.029	0.225	0.130	0.898	-0.412	0.469
0.525	2018	-0.010	0.223	-0.050	0.963	-0.448	0.427
0.607	2019	0.053	0.226	0.240	0.813	-0.391	0.498
1.379	2021	0.774	0.347	2.230	0.026	0.093	1.456

N 959

0.0000

F(6, 940) = 85.91
Prob > F = 0.0000

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
0.210	2015	0.037	0.156	0.240	0.813	-0.270	0.344
0.194	2016	0.063	0.160	0.390	0.693	-0.250	0.376
0.385	2017	0.102	0.168	0.610	0.544	-0.228	0.433
0.392	2018	0.153	0.184	0.830	0.405	-0.208	0.515
0.463	2019	0.161	0.179	0.900	0.369	-0.191	0.513
0.775	2021	0.559	0.233	2.400	0.017	0.102	1.016

N 959

6
0.0000

F(6, 940) = 59.90
Prob > F = 0.0000

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
2.201	2015	-0.001	1.007	0.000	0.999	-1.978	1.975
1.828	2016	0.177	0.989	0.180	0.858	-1.764	2.119
1.843	2017	-0.243	0.939	-0.260	0.796	-2.087	1.600
1.815	2018	-0.313	0.937	-0.330	0.738	-2.152	1.526
1.892	2019	-0.295	0.922	-0.320	0.749	-2.104	1.514
4.105	2021	2.119	1.219	1.740	0.082	-0.273	4.510

N 959

6
0.0000

F(6, 940) = 100.25
Prob > F = 0.0000

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
0.018	2019	-0.002	0.009	-0.240	0.810	-0.020	0.015
0.019	2020	0.002	0.008	0.230	0.818	-0.013	0.017

N 408

0.3090

F(2, 397) = 27.06
Prob > F = 0.0000

UCI	Year	Coeff	Robust se	t	p>t	LCI	UCI
0.015	2019	-0.003	0.008	-0.350	0.726	-0.018	0.013
0.016	2020	0.002	0.007	0.310	0.759	-0.011	0.015

N 408

0.1506

F(2, 397) = 30.56
Prob > F = 0.0000

Outcome	Estimate	Robust SE
Serious violence offences	666.694	363.062
Serious violence offences (pchange)	-1.750	3.736
Permanent exclusions	-0.022	0.017
Suspensions	-0.784	0.734
Overall Absence	0.348	0.307
Unauthorised Absence	0.257	0.154
Persistent Absentees	0.884	1.189
In sustained education at age 16	-0.001	0.007
In sustained education or continuous employment at age 16	-0.001	0.006
Serious violence offences	498.979	297.446
Serious violence offences (pchange)	-7.700	4.765
Permanent exclusions	0.014	0.026
Suspensions	0.064	1.802
Overall Absence	0.275	0.429
Unauthorised Absence	0.196	0.194
Persistent Absentees	0.626	1.665
In sustained education at age 16	-0.002	0.009
In sustained education or continuous employment at age 16	-0.002	0.008
Serious violence offences	681.957	366.179
Serious violence offences (pchange)	-1.207	3.766
Permanent exclusions	-0.026	0.017
Suspensions	-0.850	0.739
Overall Absence	0.360	0.303
Unauthorised Absence	0.266	0.154
Persistent Absentees	0.933	1.170
In sustained education at age 16	-0.001	0.007
In sustained education or continuous employment at age 16	-0.001	0.007

t	p>t	LCI	UCI	Number of LA	Unadj. Std Dev (SAFE LAs in 2021)	R2	Effect size
1.840	0.067	-45.622	1379.011	152	3104.300	0.689	0.21
-0.470	0.640	-9.081	5.581	152	16.680	0.234	-0.10
-1.320	0.187	-0.054	0.011	152	0.038	0.172	-0.58
-1.070	0.285	-2.224	0.655	152	2.060	0.211	-0.38
1.130	0.257	-0.255	0.951	152	1.020	0.427	0.34
1.670	0.095	-0.045	0.559	152	0.629	0.610	0.41
0.740	0.458	-1.450	3.217	152	3.335	0.438	0.26
-0.170	0.867	-0.015	0.013	152	0.015	0.099	-0.08
-0.190	0.847	-0.014	0.011	152	0.013	0.100	-0.10
1.680	0.095	-88.261	1086.218	22	3104.300	0.719	0.16
-1.620	0.108	-17.119	1.718	22	16.680	0.309	-0.46
0.530	0.599	-0.038	0.066	22	0.038	0.209	0.36
0.040	0.972	-3.494	3.622	22	2.060	0.114	0.03
0.640	0.523	-0.574	1.124	22	1.020	0.336	0.27
1.010	0.315	-0.187	0.578	22	0.629	0.436	0.31
0.380	0.708	-2.666	3.917	22	3.335	0.300	0.19
-0.250	0.805	-0.020	0.015	22	0.015	0.413	-0.15
-0.310	0.757	-0.018	0.013	22	0.013	0.328	-0.18
1.860	0.063	-36.542	1400.455	140	3104.300	0.698	0.22
-0.320	0.749	-8.598	6.184	140	16.680	0.240	-0.07
-1.560	0.119	-0.059	0.007	140	0.038	0.186	-0.69
-1.150	0.250	-2.300	0.600	140	2.060	0.229	-0.41
1.190	0.234	-0.234	0.954	140	1.020	0.473	0.35
1.720	0.085	-0.037	0.569	140	0.629	0.636	0.42
0.800	0.425	-1.363	3.229	140	3.335	0.483	0.28
-0.100	0.924	-0.015	0.014	140	0.015	0.098	-0.05
-0.120	0.902	-0.014	0.012	140	0.013	0.105	-0.06

M1	M2	M	MDES
1.98	0.84	2.82	0.33
1.98	0.84	2.82	0.63
1.98	0.84	2.82	1.23
1.98	0.84	2.82	1.00
1.98	0.84	2.82	0.85
1.98	0.84	2.82	0.69
1.98	0.84	2.82	1.01
1.98	0.84	2.82	1.36
1.98	0.84	2.82	1.40
2.07	0.86	2.93	0.28
2.07	0.86	2.93	0.84
2.07	0.86	2.93	2.02
2.07	0.86	2.93	2.56
2.07	0.86	2.93	1.23
2.07	0.86	2.93	0.90
2.07	0.86	2.93	1.46
2.07	0.86	2.93	1.72
2.07	0.86	2.93	1.72
1.98	0.84	2.82	0.33
1.98	0.84	2.82	0.64
1.98	0.84	2.82	1.24
1.98	0.84	2.82	1.01
1.98	0.84	2.82	0.84
1.98	0.84	2.82	0.69
1.98	0.84	2.82	0.99
1.98	0.84	2.82	1.40
1.98	0.84	2.82	1.43

Selection of synthetic control group by Root Mean Squared Prediction Error

Specifications	Change in serious violence	Permanent exclusions
1 -Controls	8.570	0.071
2 - Controls and 2014, 2016, 2018, 2020 lagged outcomes	7.384	0.020
3 - Controls and 2015, 2017, 2019 lagged outcomes	5.566	0.039
4 - Controls and 2015, 2017, 2018, 2020 lagged outcomes	5.938	0.024
5 - Controls and 2015, 2016, 2018, 2019 lagged outcomes	1.836	0.015
6 - Controls and 2016, 2017, 2019, 2020 lagged outcomes	3.508	0.017

Outcomes

Suspensions	Overall Absence	Unauthorise d Absence	Persistent Absentees
6.028	0.266	0.064	1.071
0.444	0.075	0.026	0.248
0.391	0.066	0.030	0.424
0.177	0.054	0.036	0.180
0.505	0.087	0.037	0.323
0.552	0.056	0.024	0.308

Balance of predictors between Taskforce areas and synthetic control group

Predictors	Change in serious violence		Permanent
	Taskforce	Synthetic	Taskforce
% eligible for FSM	0.248	0.248	0.255
LA mean IDACI score, 2019	0.240	0.240	0.240
LA tot population	522518	379889	522518
% with SEN met by statement or EHC plan	0.034	0.035	0.034
% with SEN not met by a statement or EHC plan	0.151	0.151	0.161
Lagged outcome 2014			
Lagged outcome 2015	9.343	9.369	0.147
Lagged outcome 2016	16.485	16.480	0.154
Lagged outcome 2017			
Lagged outcome 2018	15.080	15.079	0.156
Lagged outcome 2019	3.170	3.160	0.156

exclusions	Suspensions		Overall Absence		Unauthorised Absence	
	Synthetic	Taskforce	Synthetic	Taskforce	Synthetic	Taskforce
0.254	0.255	0.252	0.261	0.262	0.261	0.258
0.240	0.240	0.240	0.240	0.240	0.240	0.237
492127	522518	458759	522518	467066	522518	514345
0.035	0.034	0.035	0.035	0.035	0.035	0.034
0.159	0.161	0.157	0.161	0.160	0.161	0.158
	6.924	6.929	4.617	4.617		
0.147	8.331	8.341	4.826	4.825	1.520	1.498
0.154					1.703	1.678
	9.858	9.858	4.953	4.952		
0.156	9.503	9.503	5.146	5.146	1.941	1.913
0.156	6.764	6.768				

Persistent Absentees

Taskforce	Synthetic
0.261	0.261
0.240	0.239
522518	472406
0.035	0.035
0.161	0.157
12.165	12.155
12.774	12.759
12.554	12.540
13.365	13.351

Weights used for synthetic control groups

Local authority	Change in serious	Permanent exclusions	Outcomes		
			Suspensions	Overall Absence	Unauthorised Absence
Blackburn with Darwen				0.016	
Croydon	0.027				
Durham					
Hackney				0.164	0.14
Halton					0.069
Hertfordshire	0.108	0.003	0.004		0.04
Islington	0.211	0.24			
Kent		0.144			0.171
City of Kingston upon Hull	0.072		0.128	0.09	
Knowsley			0.048		0.03
Lancashire			0.214	0.231	
Middlesbrough		0.119		0.07	0.092
Newcastle upon Tyne		0.18	0.129		0.083
North East Lincolnshire				0.023	
Nottingham	0.043	0.048	0.096	0.205	0.252
Nottinghamshire		0.129			0.018
Sandwell	0.271	0.02	0.06		
Somerset	0.04				
Southampton					
St Helens		0.118	0.144	0.051	0.002
Tameside	0.16				
Tower Hamlets	0.068		0.095		0.002
Westminster			0.082	0.15	0.052
Sum of weights	1	1	1	1	1

Persistent
Absentees

0.072

0.14
0.085

0.102

0.207

0.021
0.209

0.11
0.053
1

Figure 9 - Pre-treatment trend in change in serious violence between Taskforce and synthetic cor

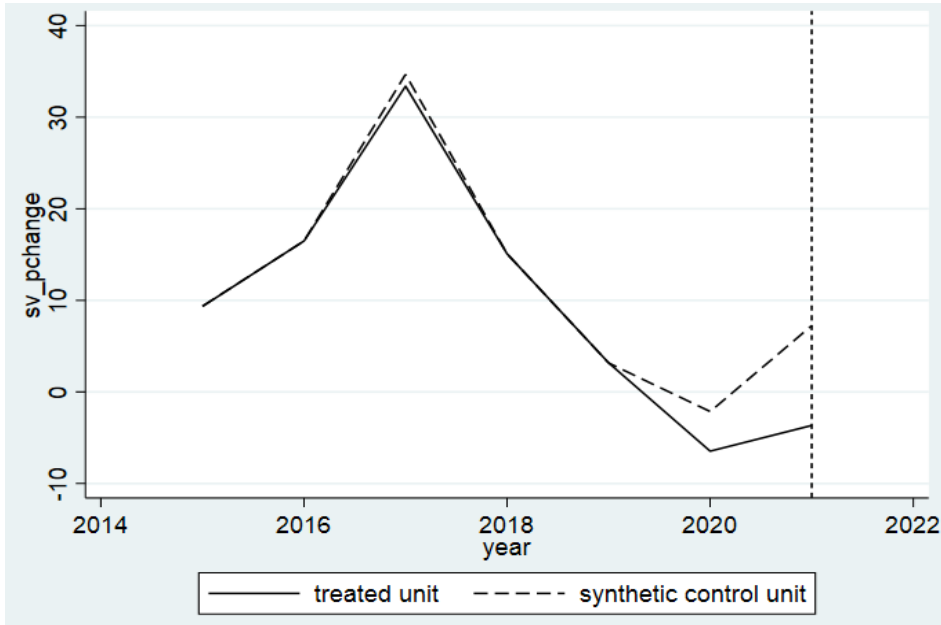


Figure 10 - Pre-treatment trend in permanent exclusion between Taskforce and synthetic contro

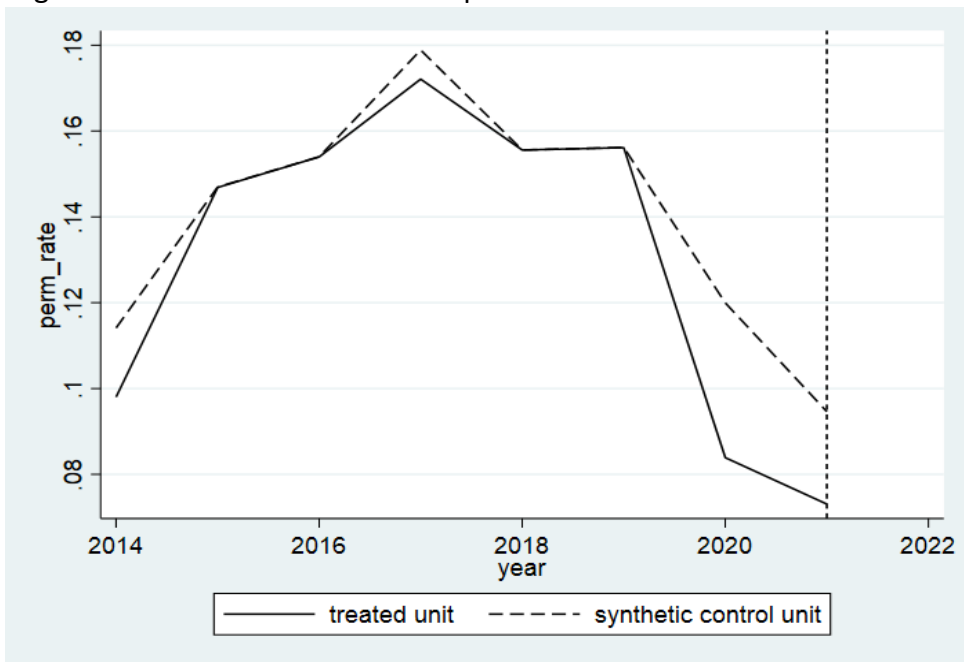
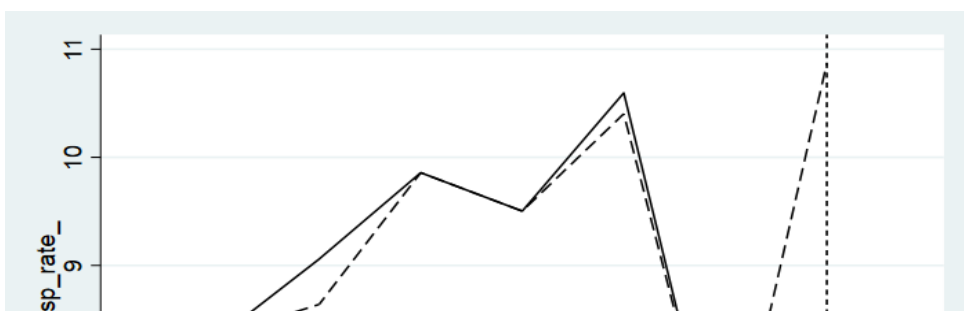


Figure 11 - Pre-treatment trend in suspension rates between Taskforce and synthetic control grc



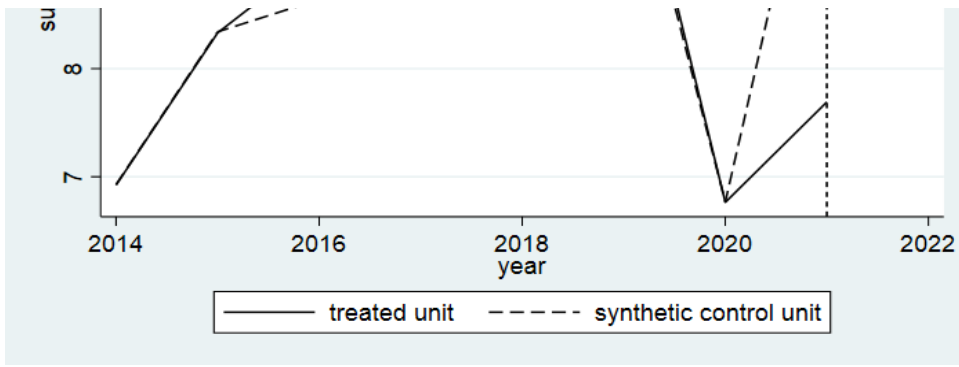


Figure 12 - Pre-treatment trend in overall absences between Taskforce and synthetic control group

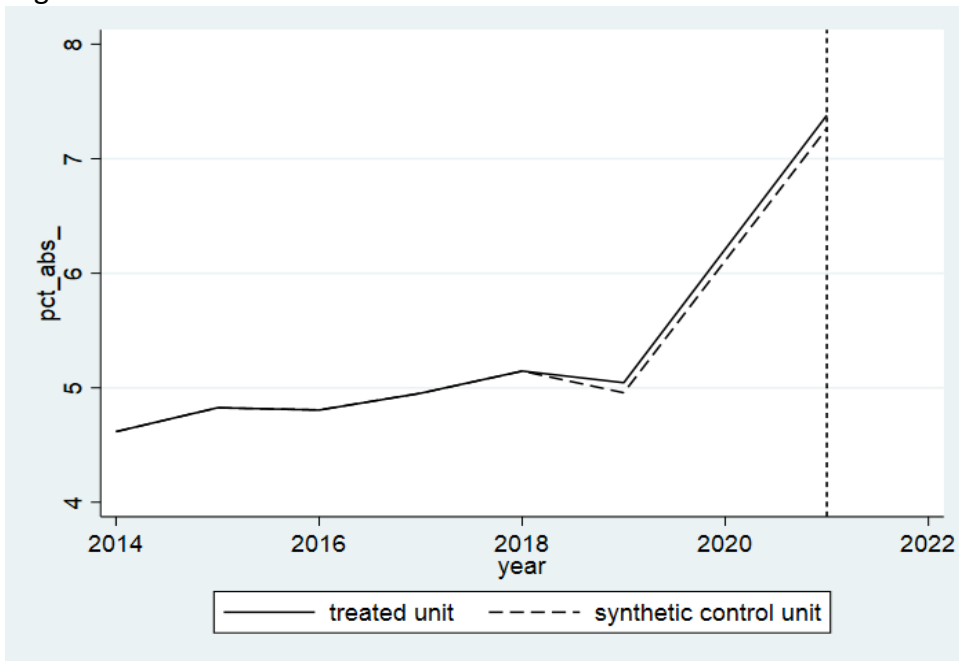


Figure 13 - Pre-treatment trend in unauthorized absences between Taskforce and synthetic control group

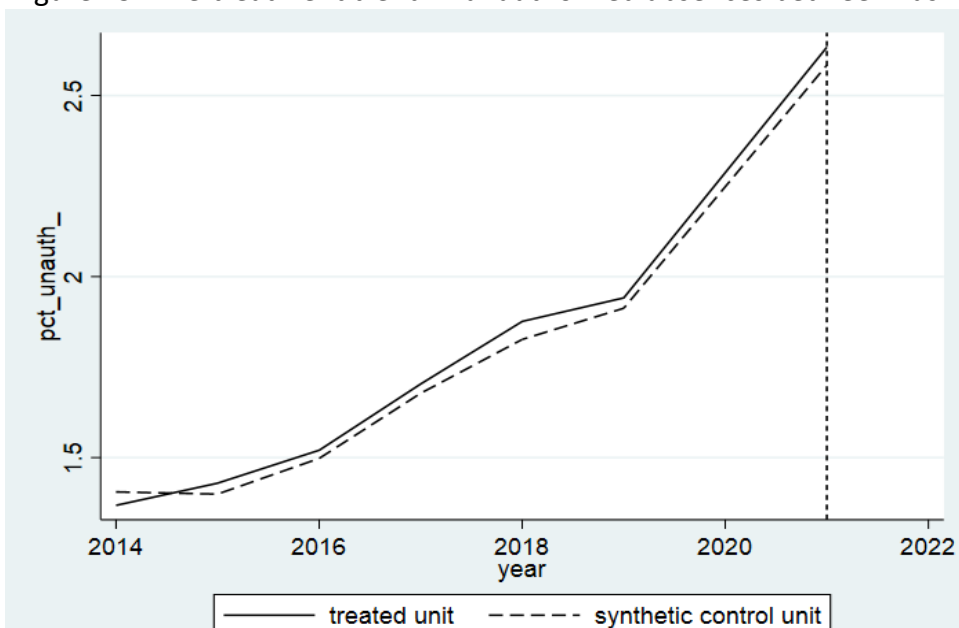
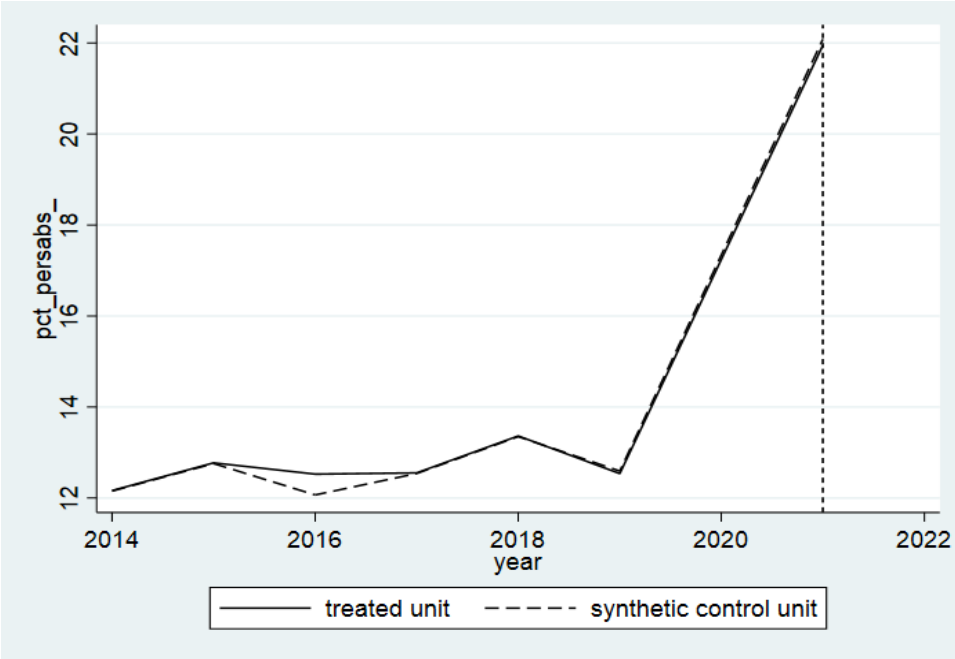


Figure 14 -Pre-treatment trend in persistent absences between Taskforce and synthetic control {



ontrol group

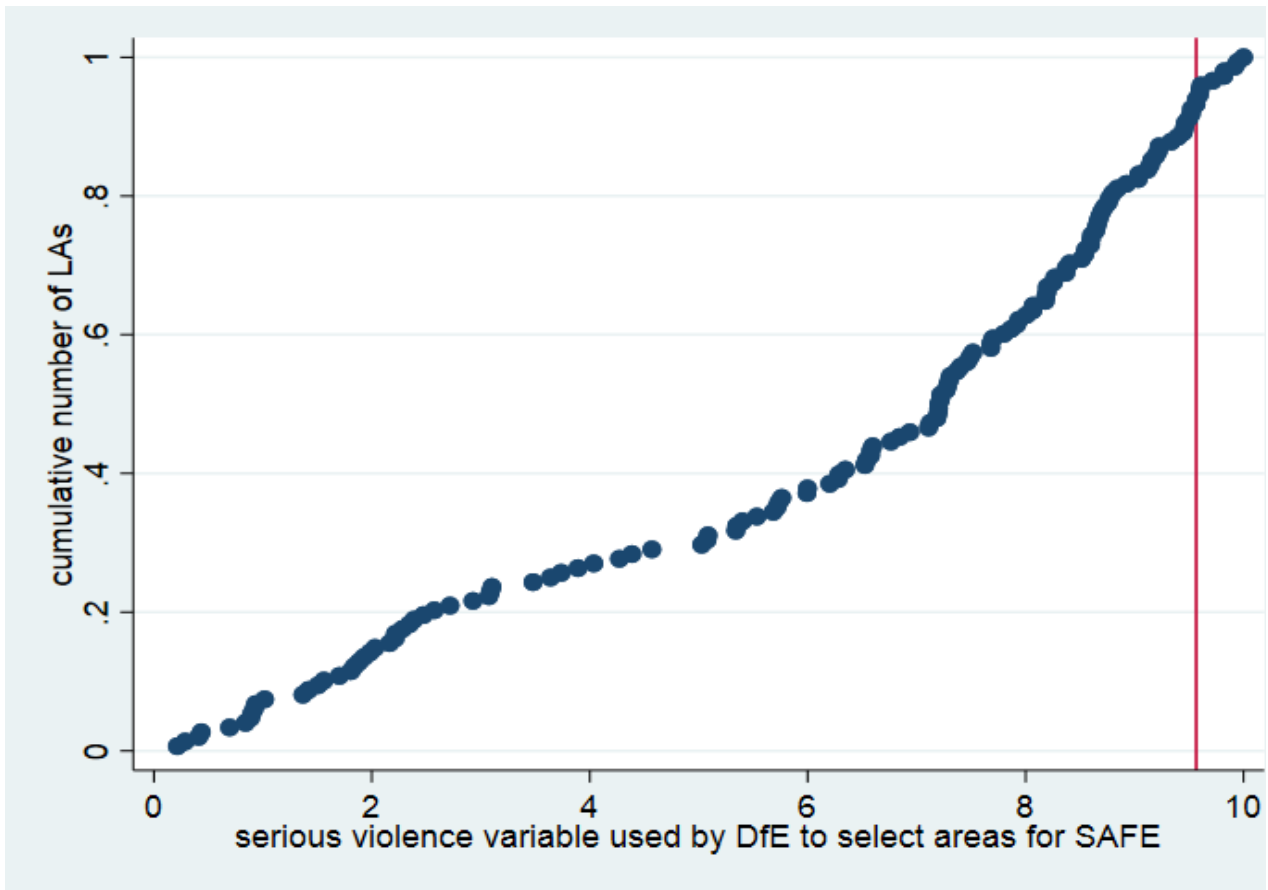
ontrol group

ontrol group

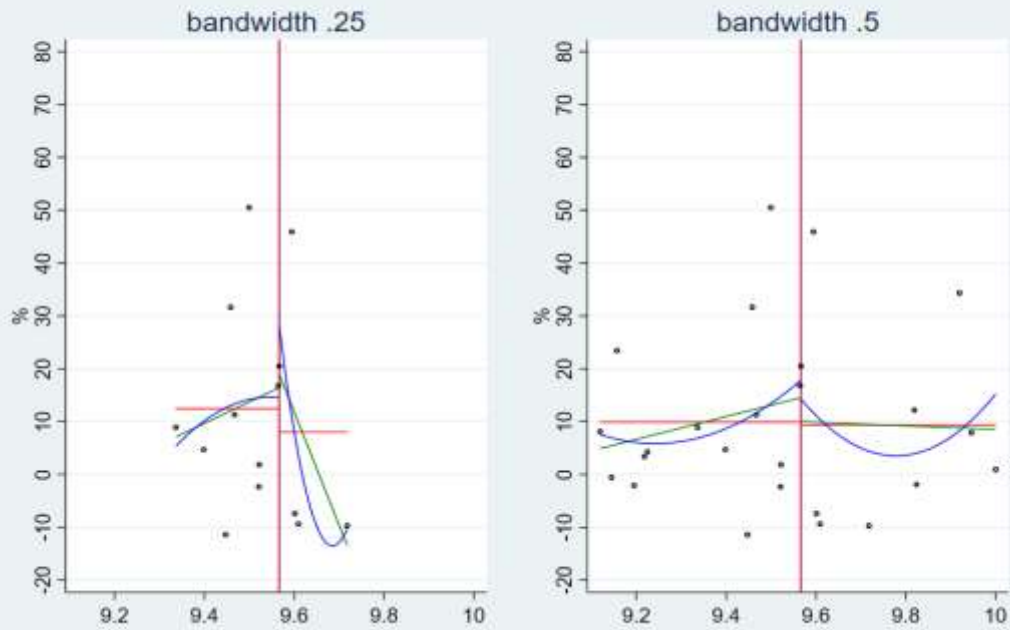
up

:rol group

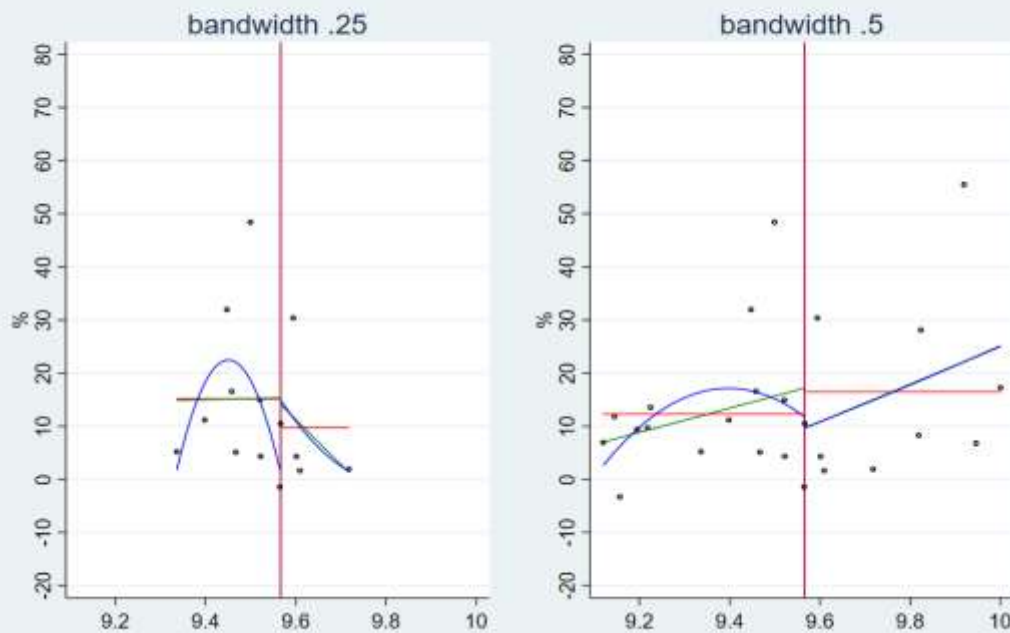
group



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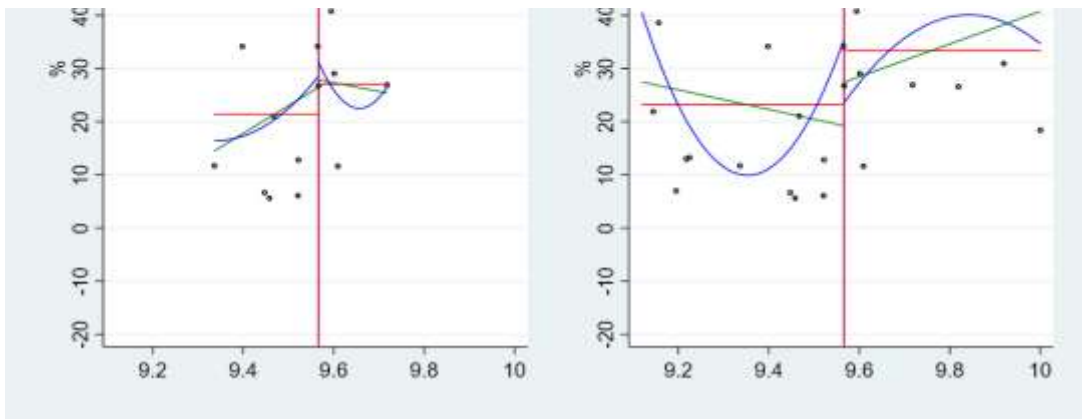


sv_pchange for 2016 year

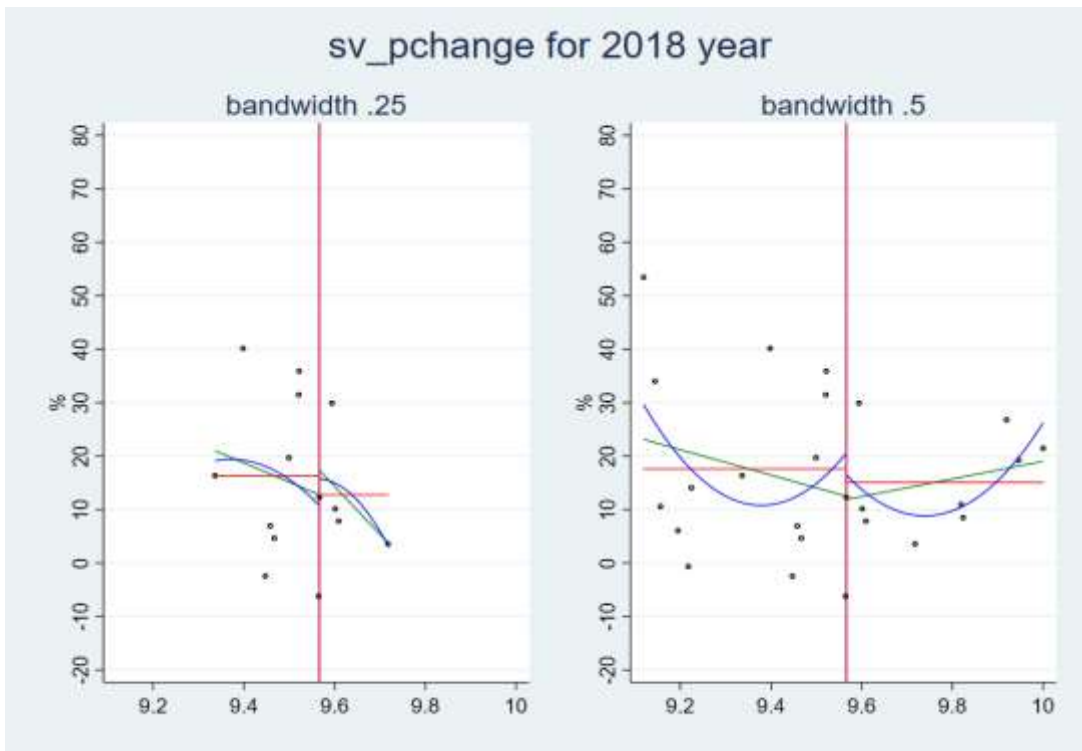


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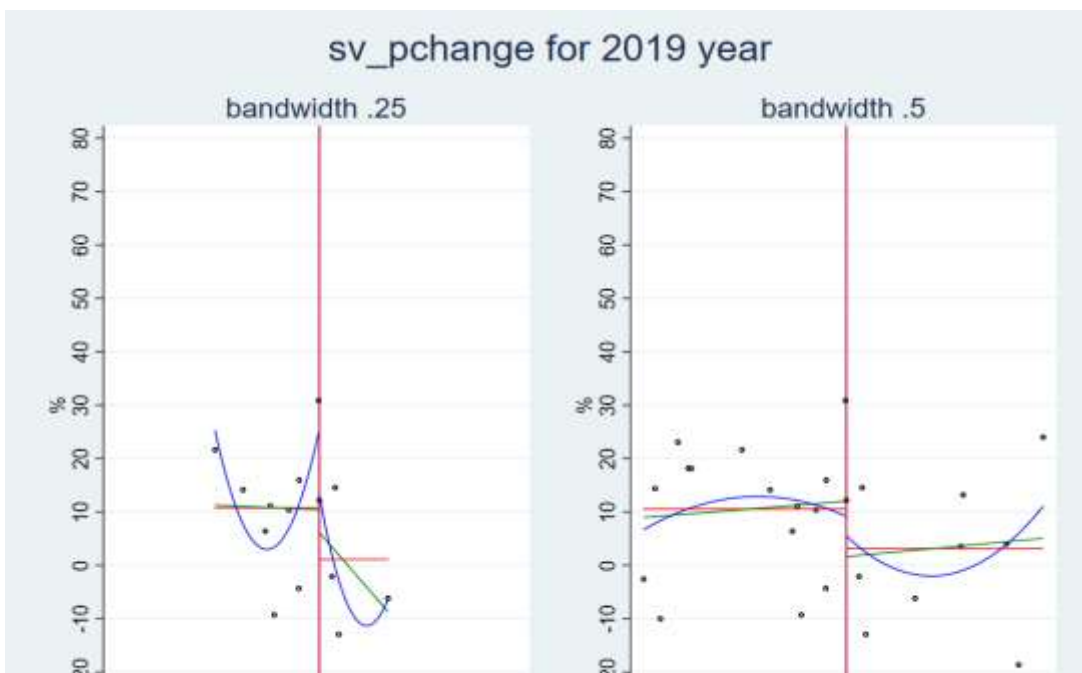




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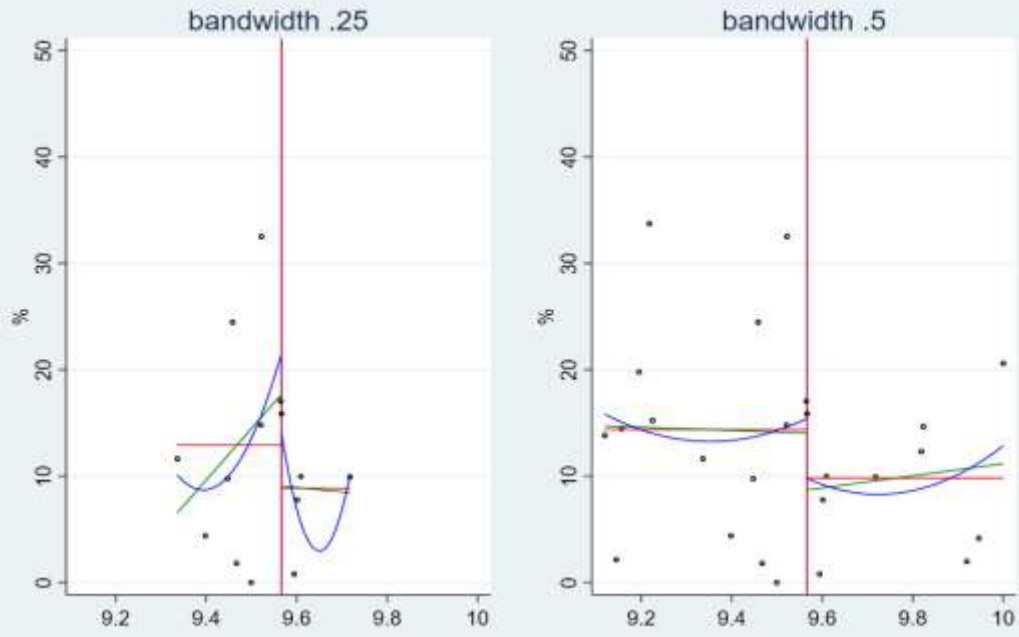


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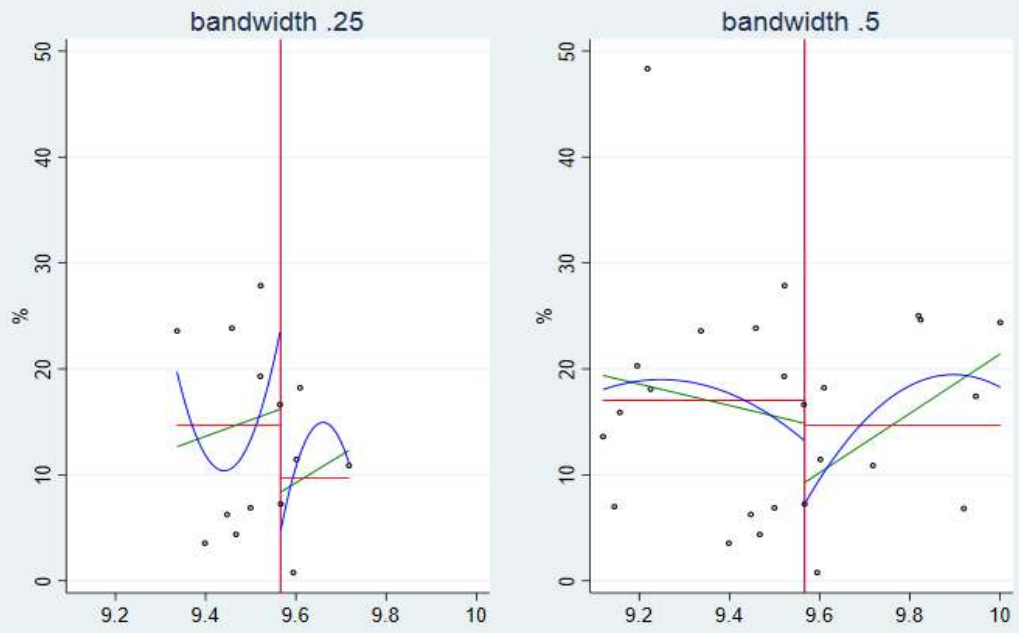




perm_rate_ for 2014 year

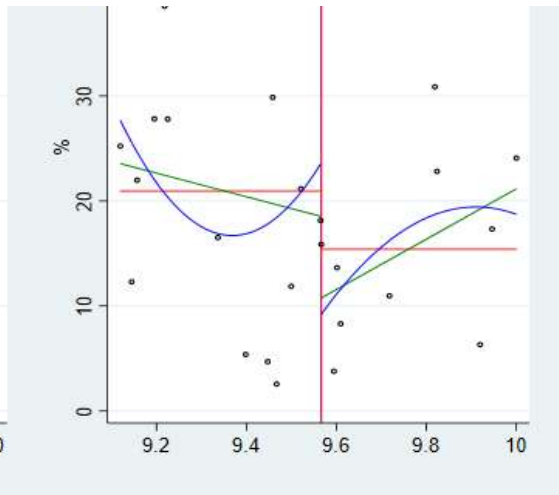
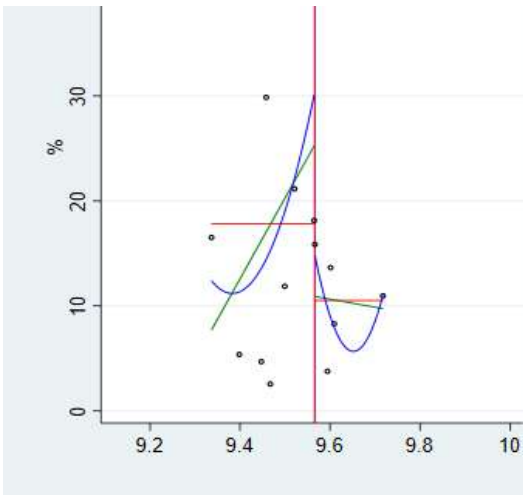


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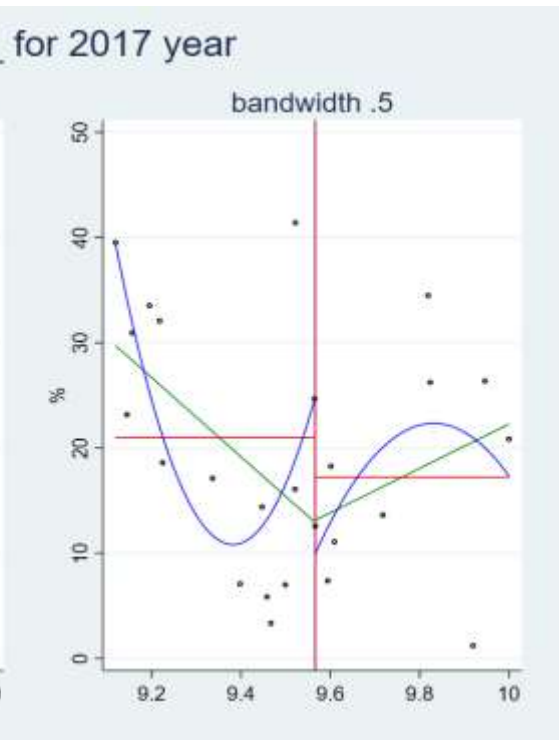
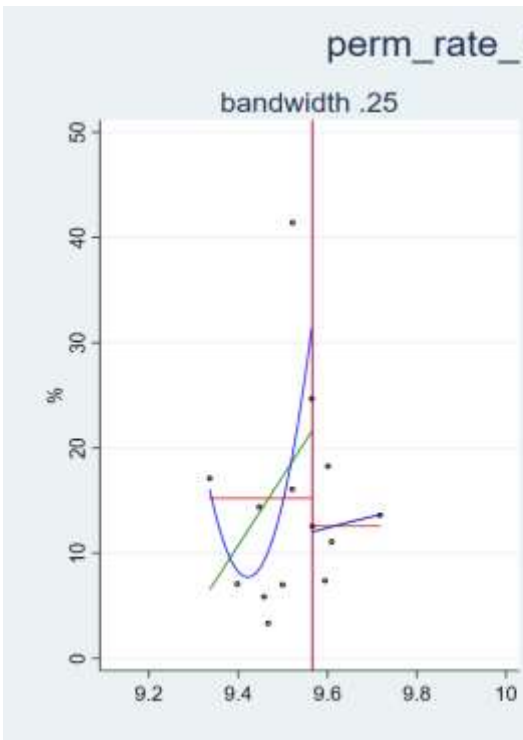


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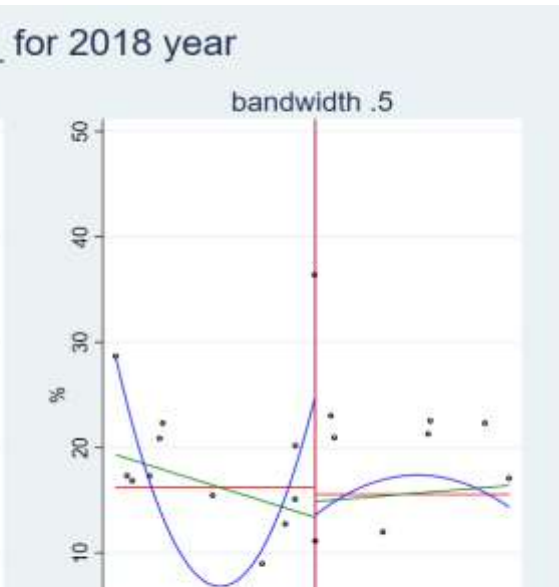
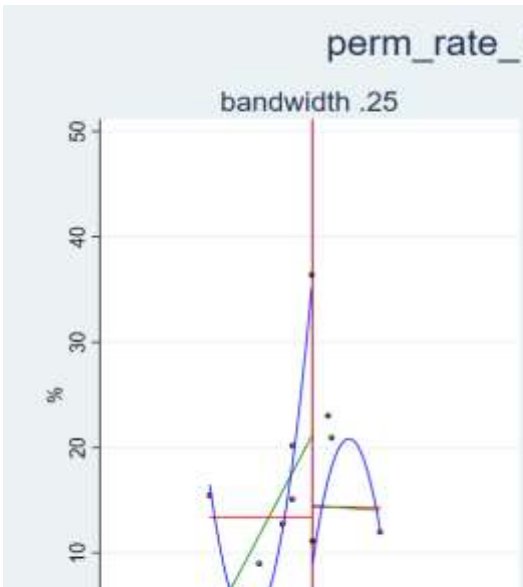


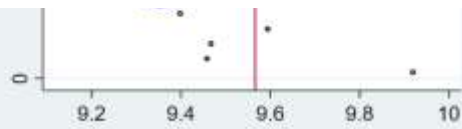
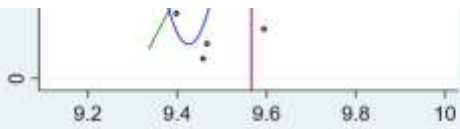


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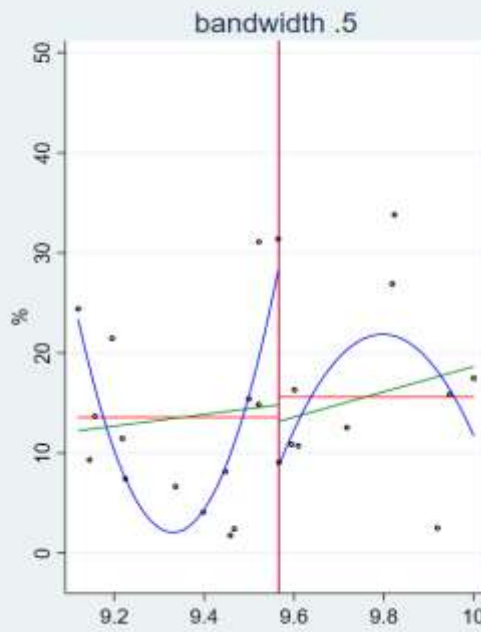
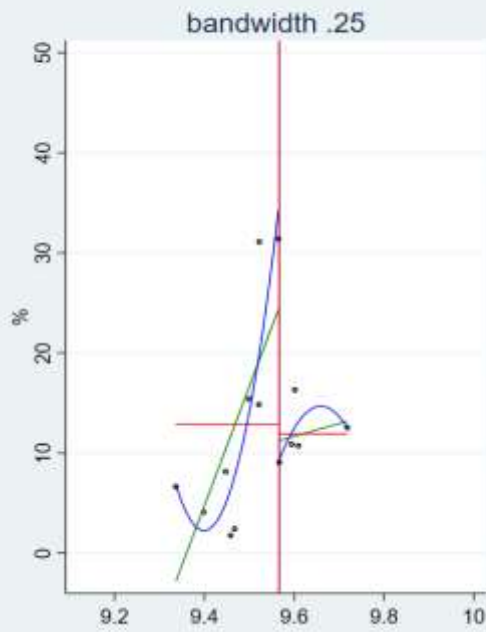


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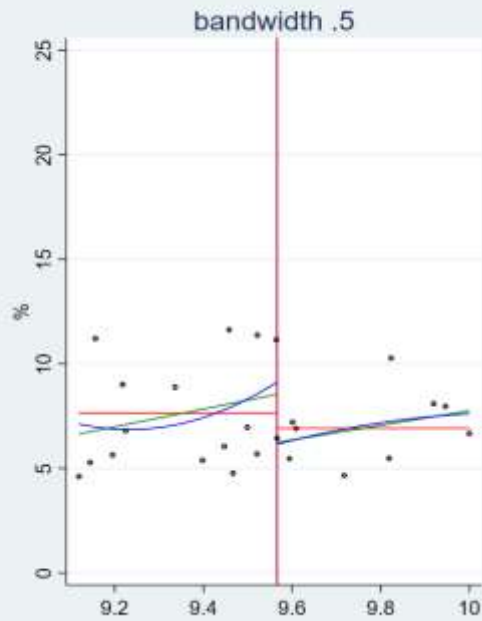
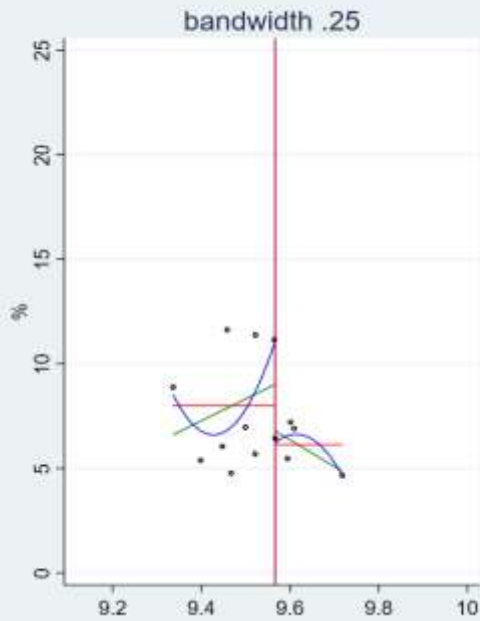




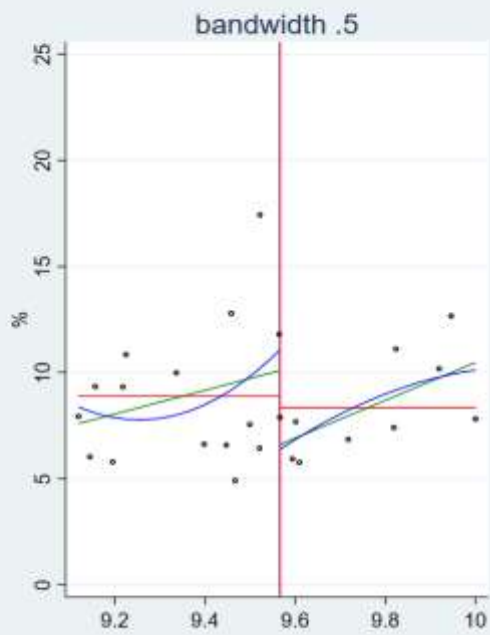
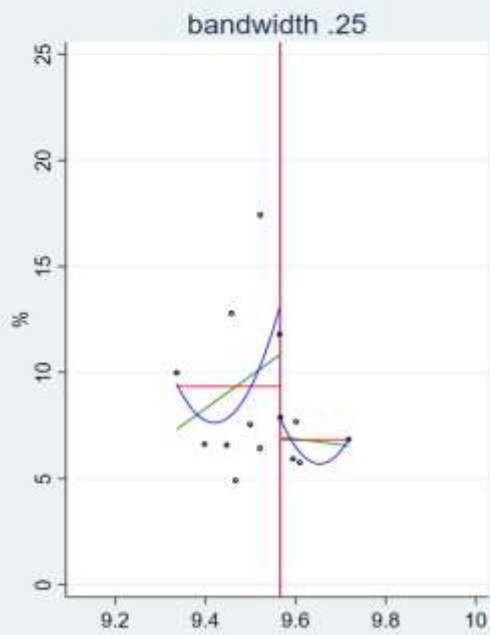
perm_rate_ for 2019 year



susp_rate_ for 2014 year

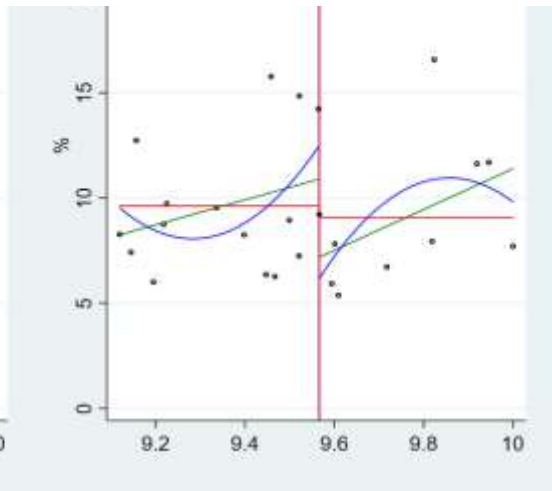
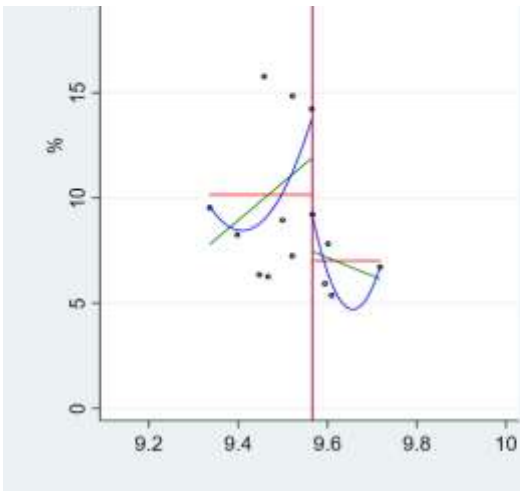


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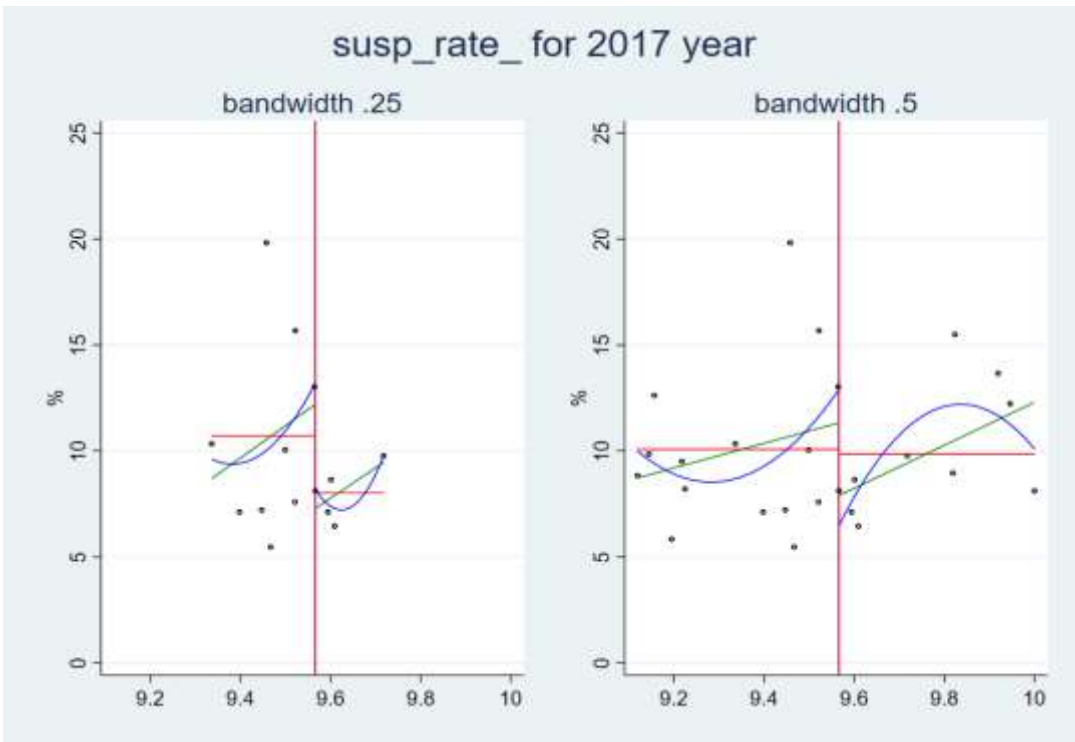


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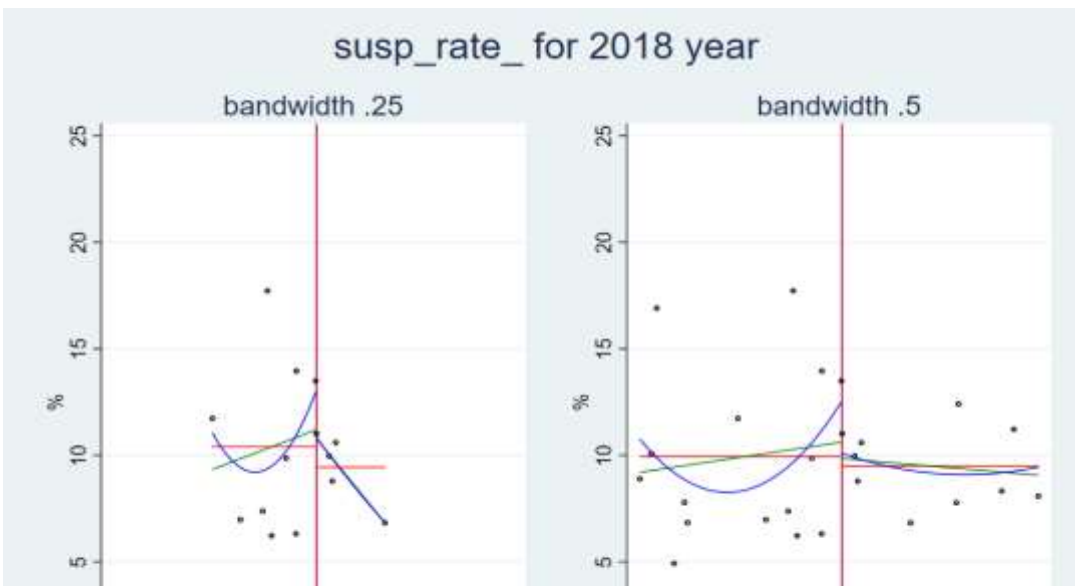


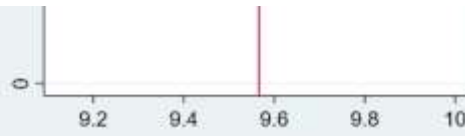
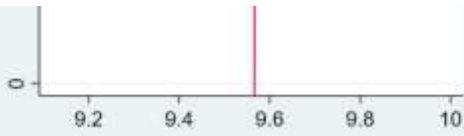


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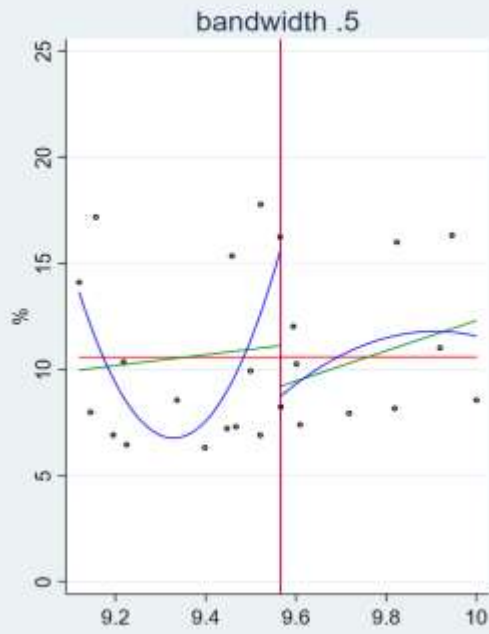
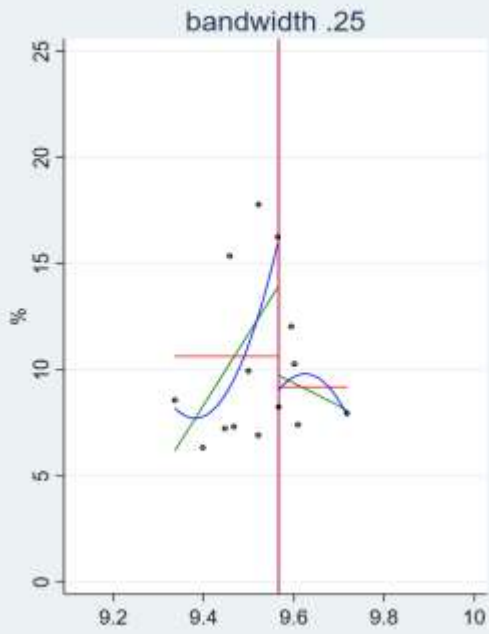


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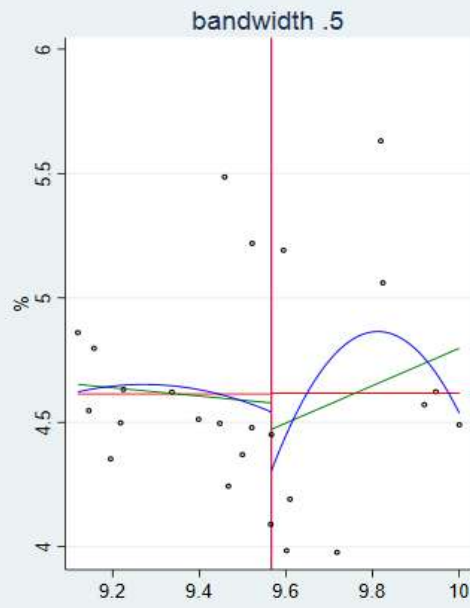
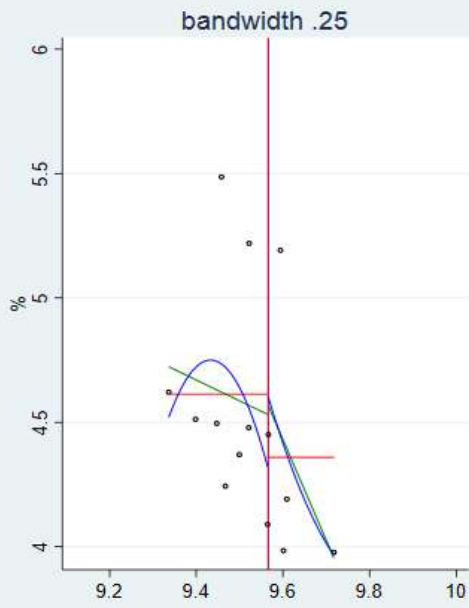




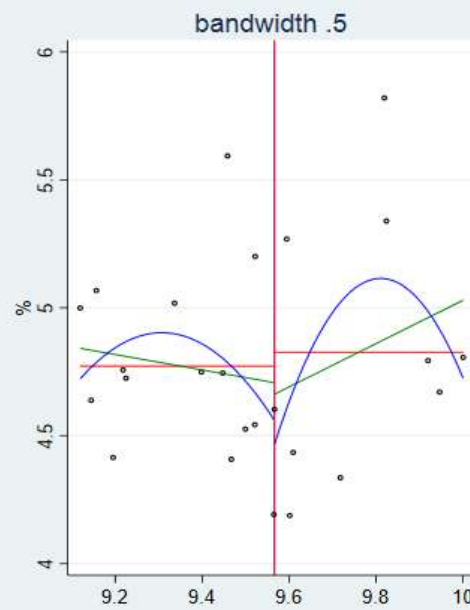
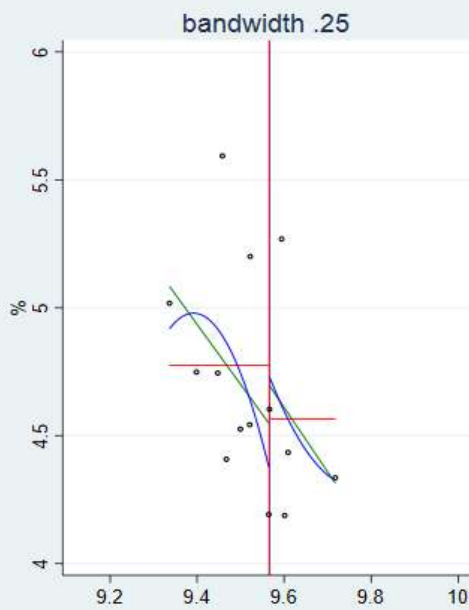
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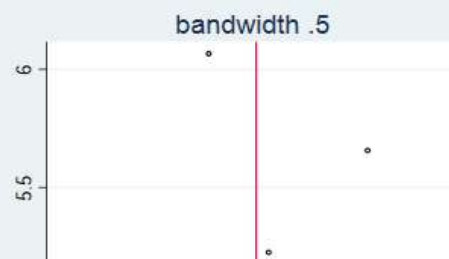
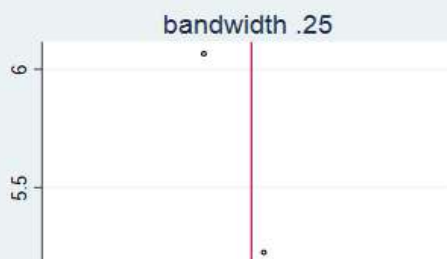
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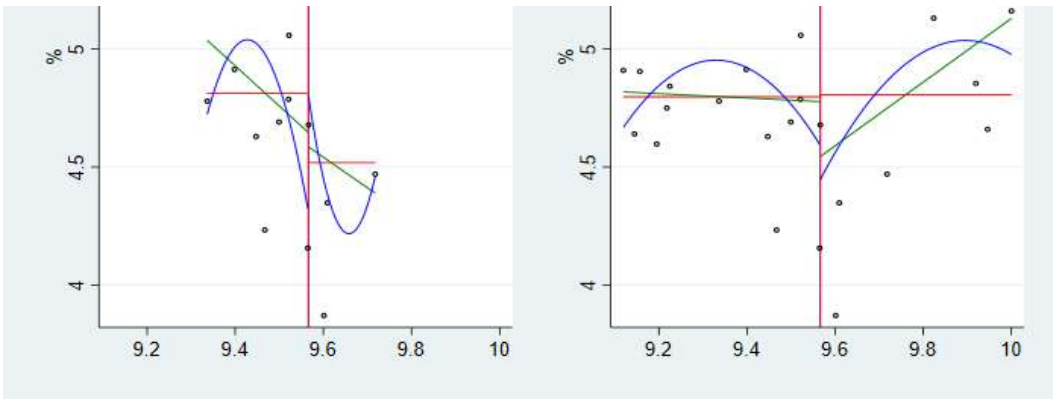


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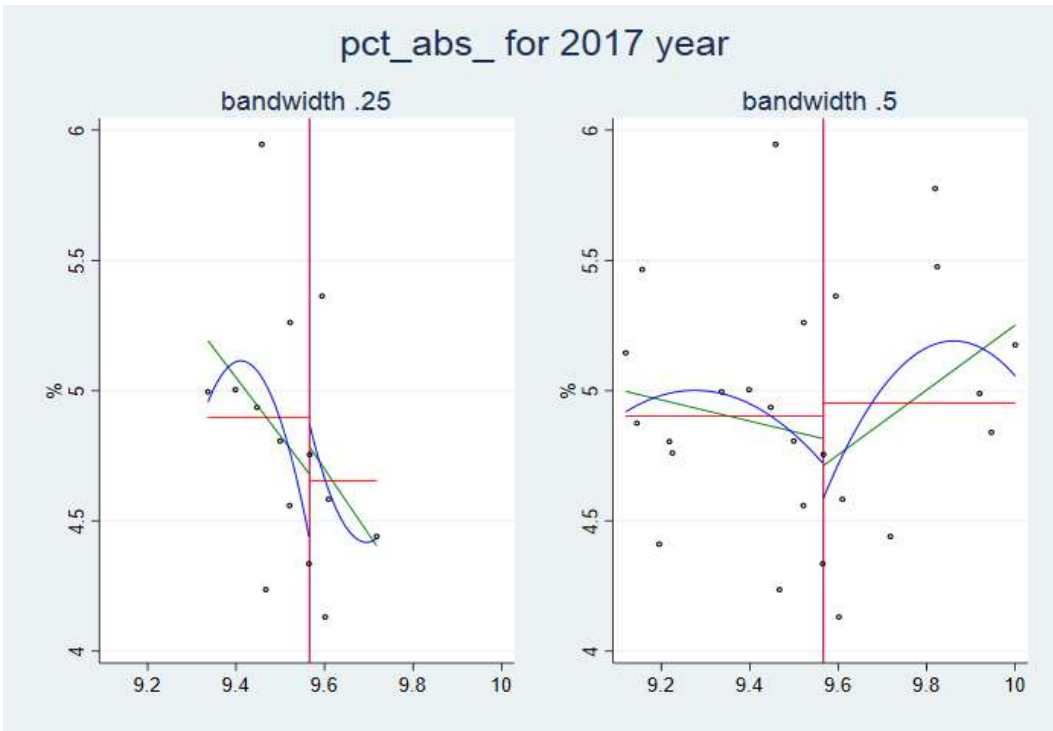


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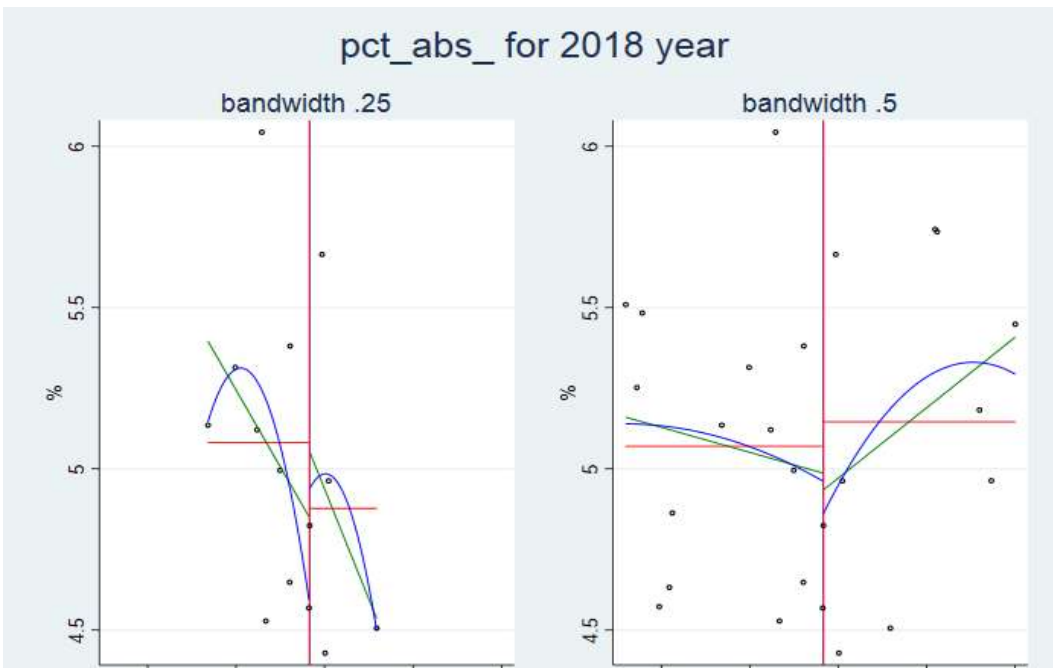




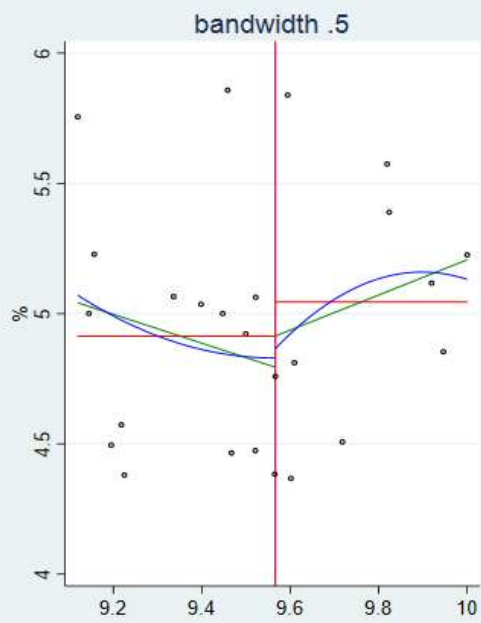
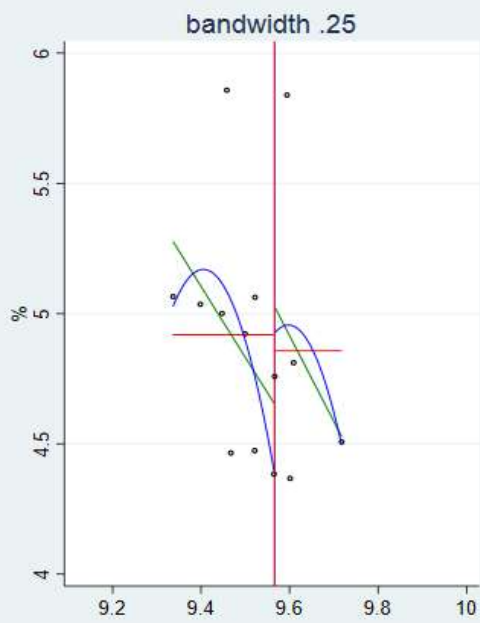
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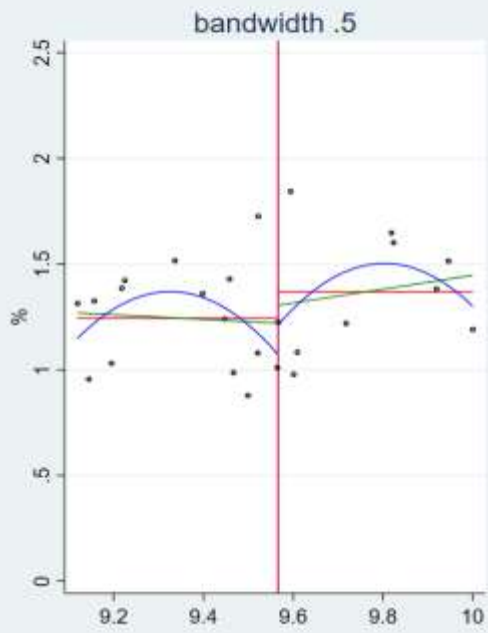
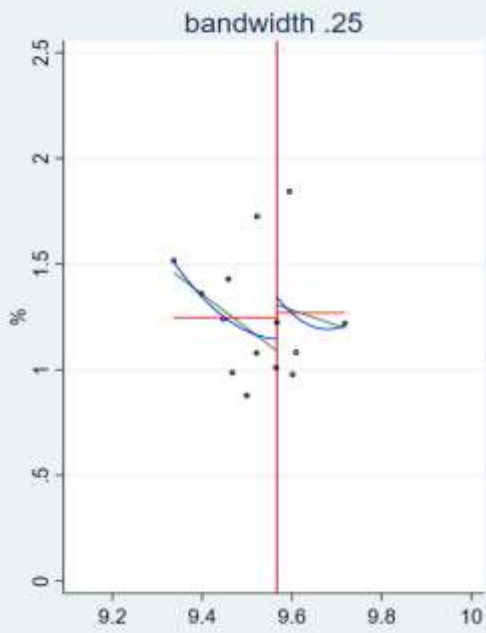
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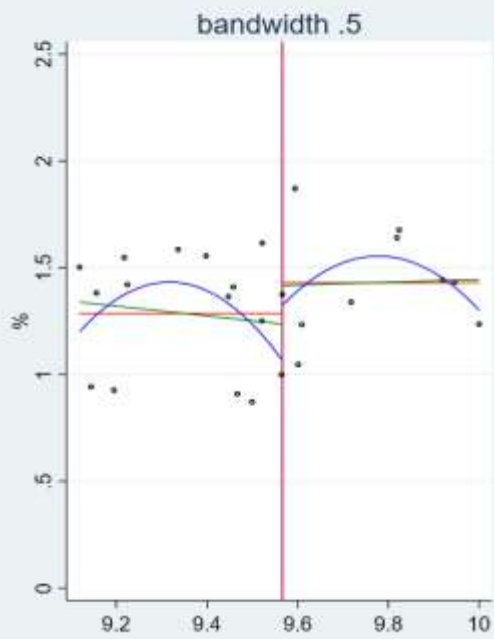
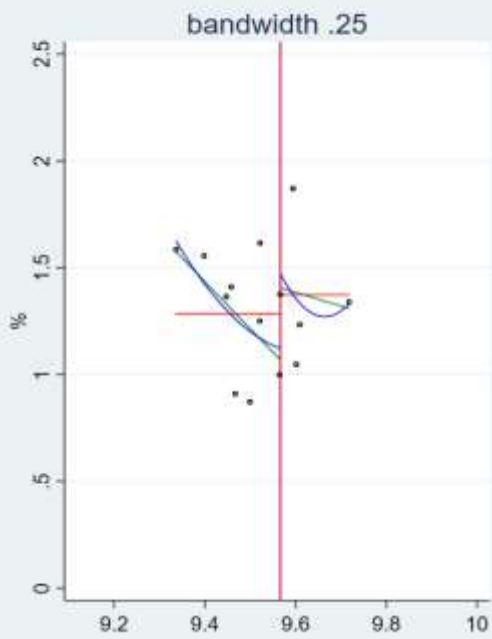
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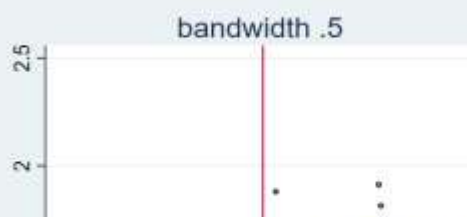
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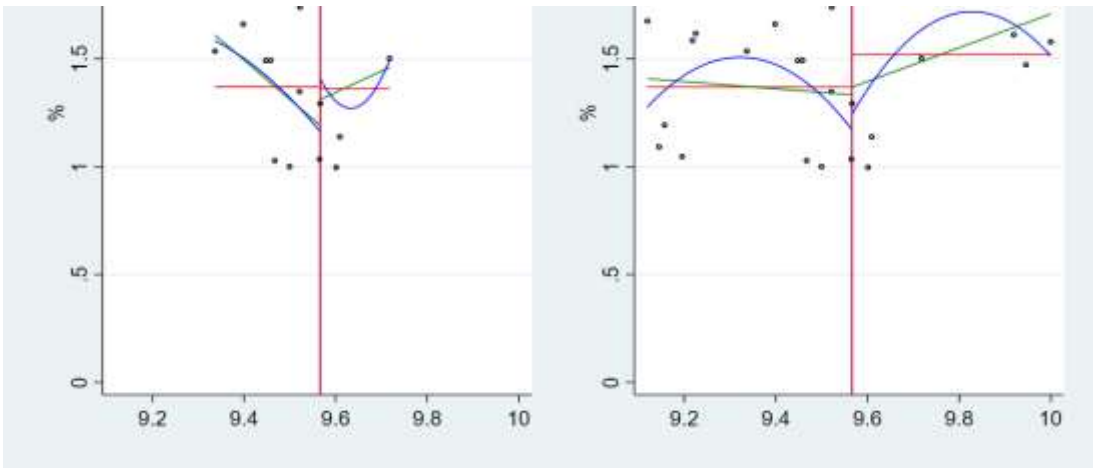


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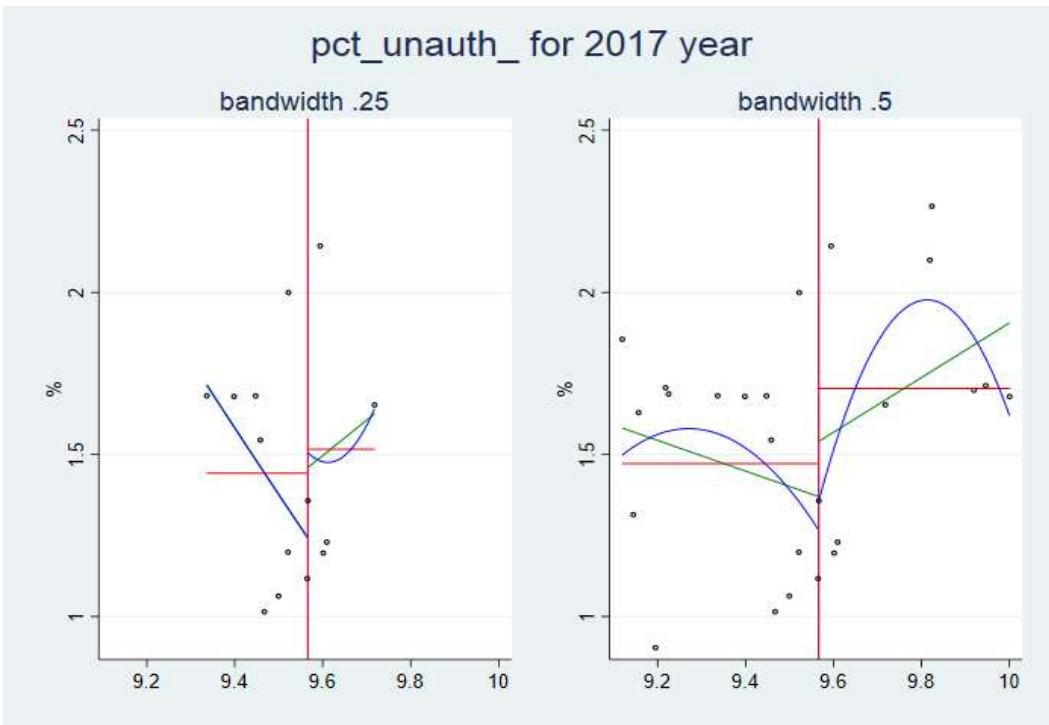


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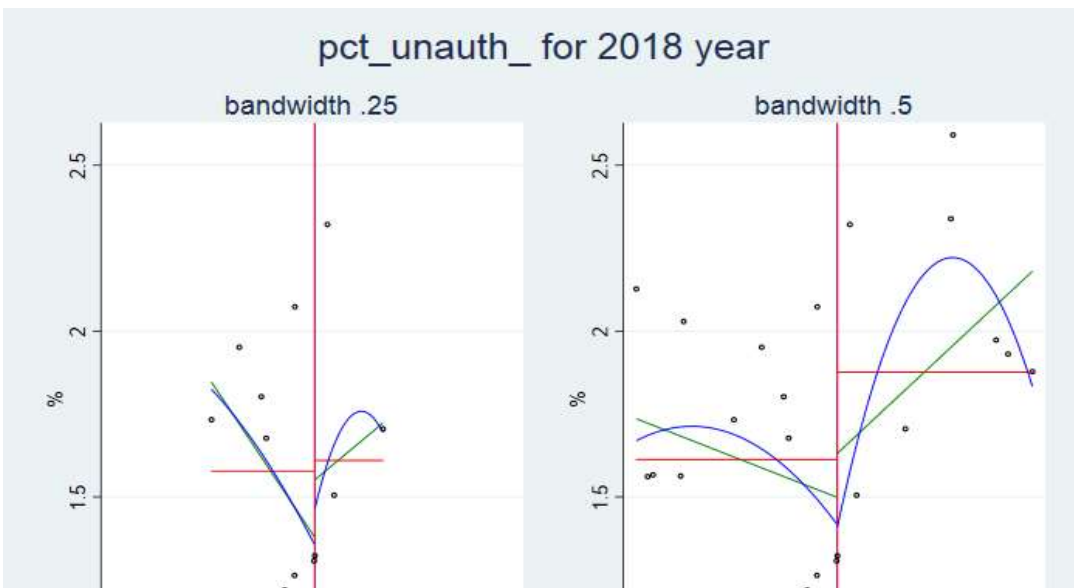




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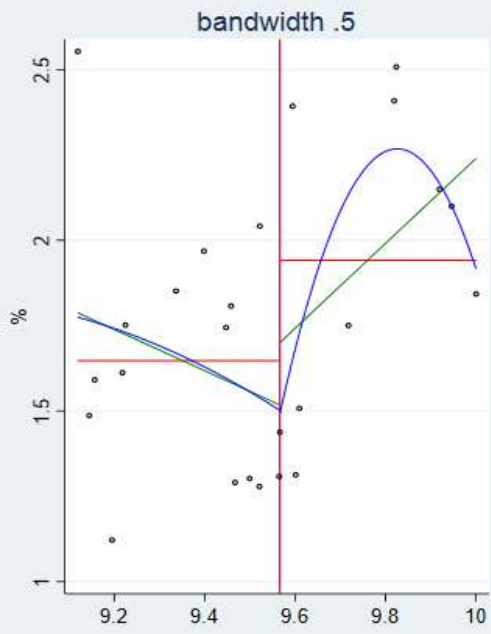
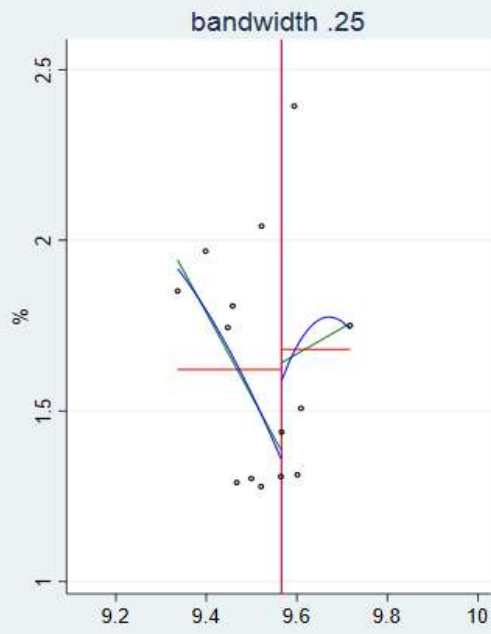


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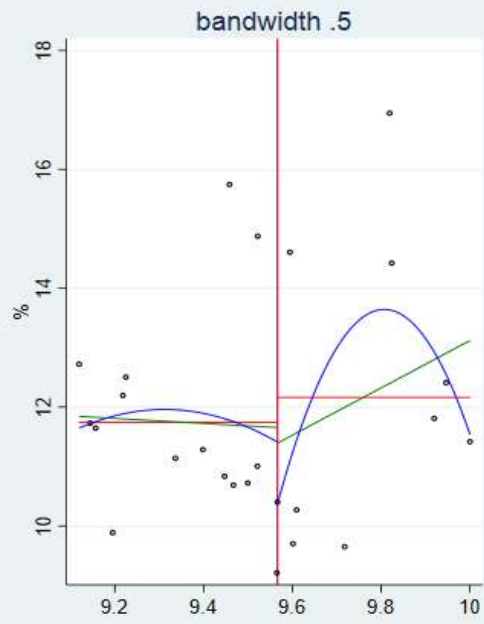
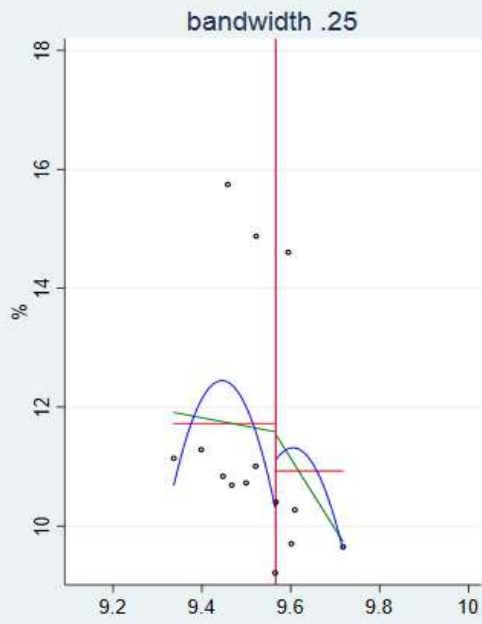




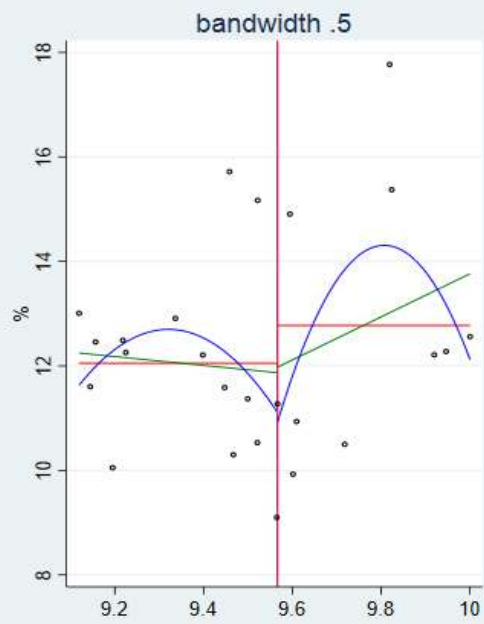
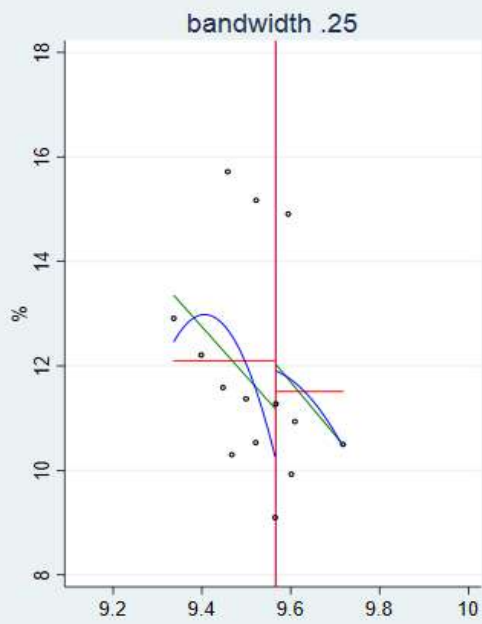
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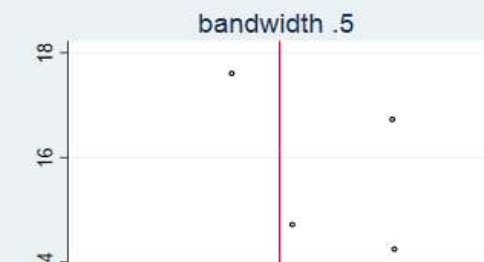
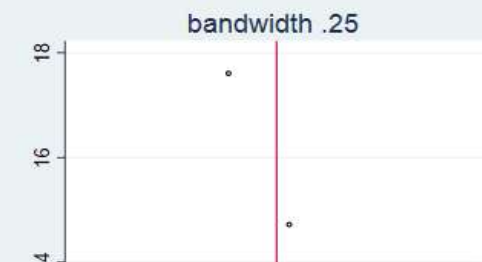
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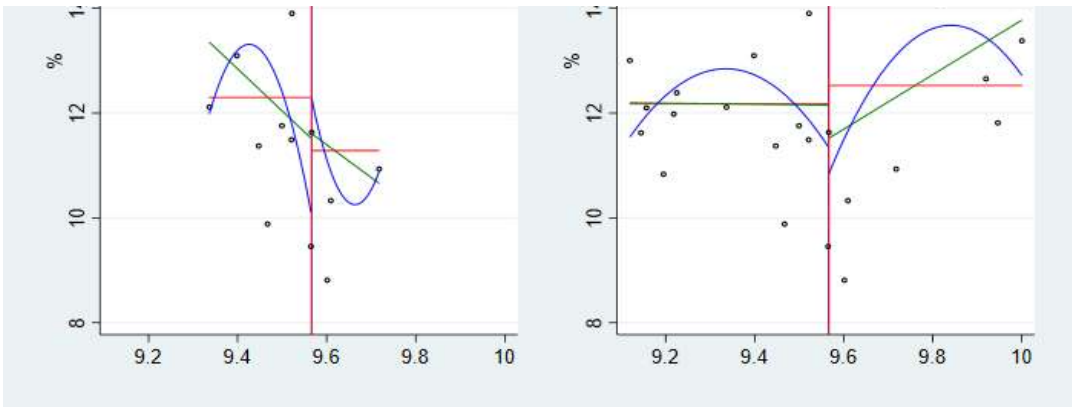


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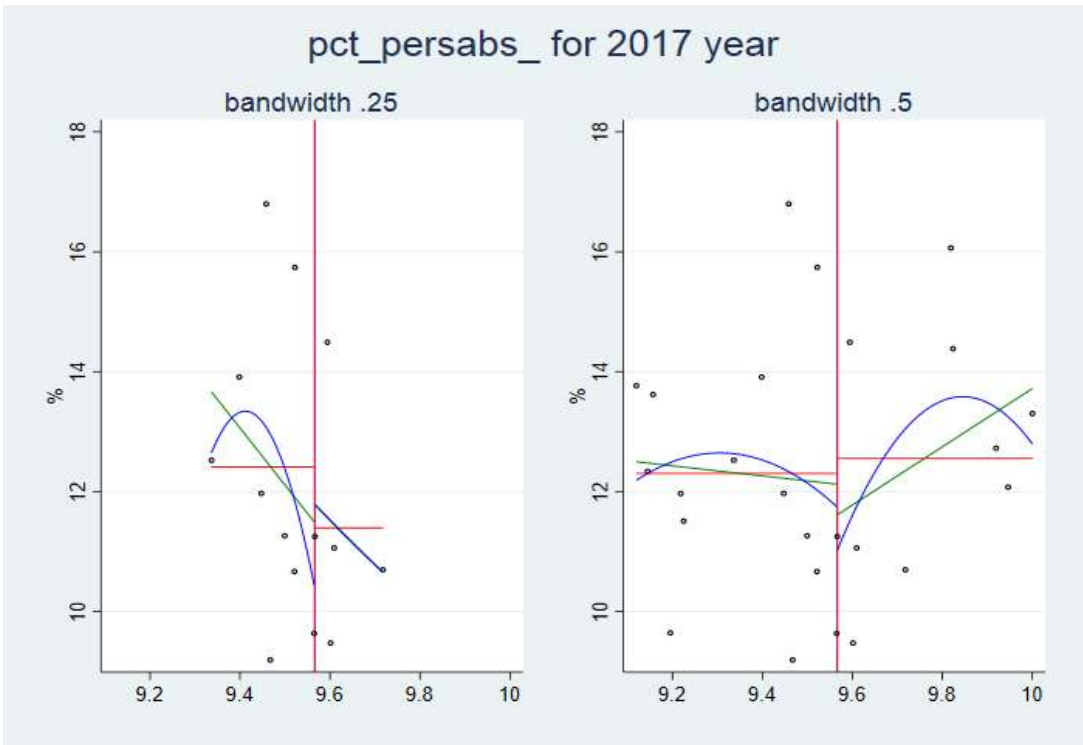


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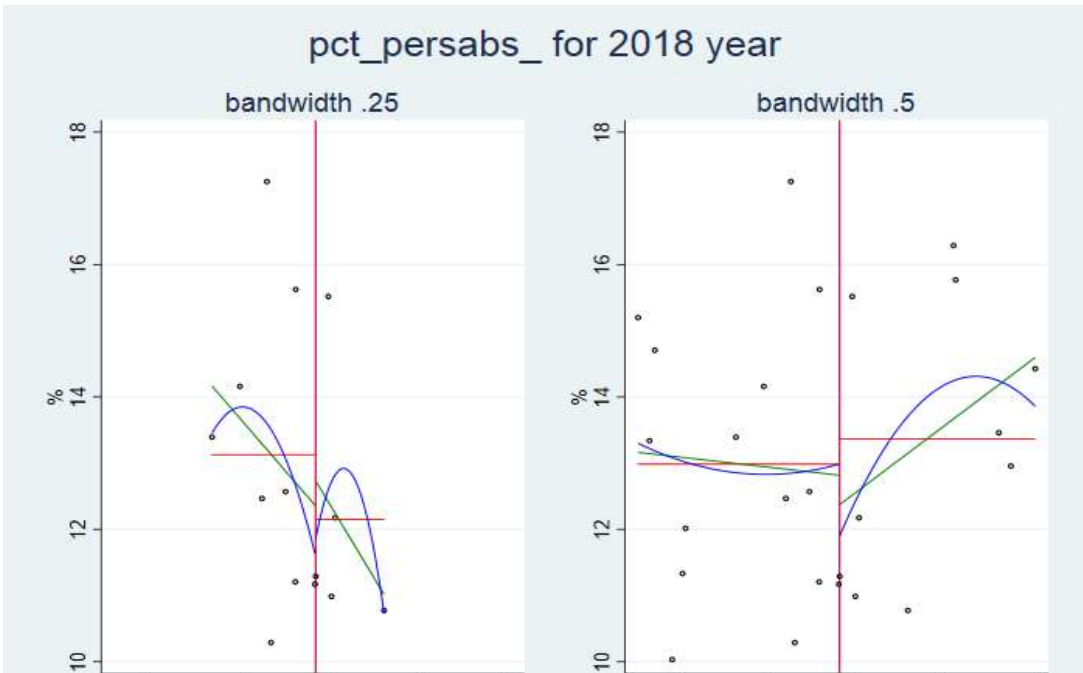




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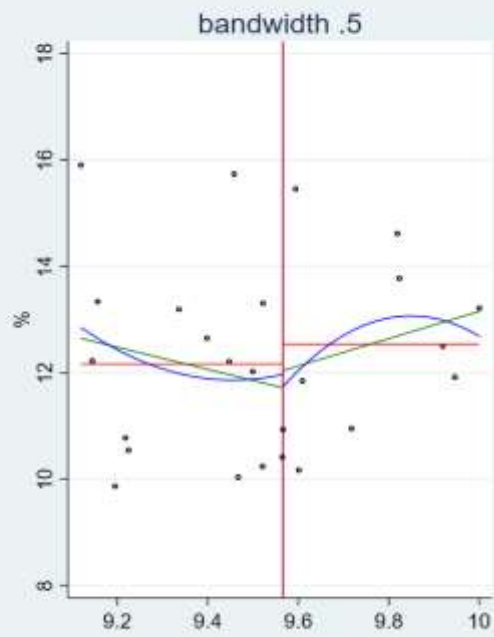
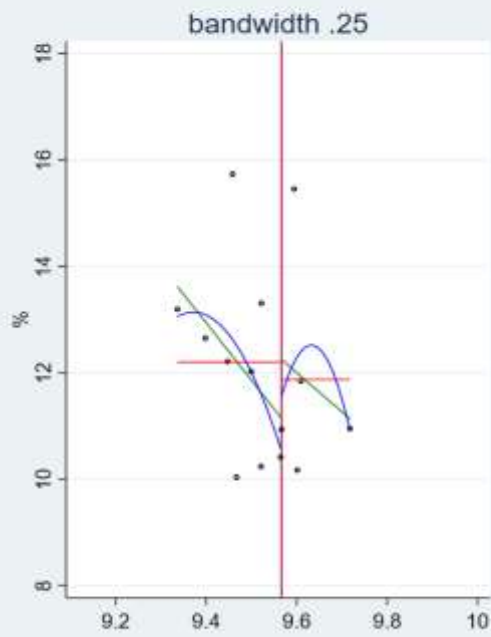
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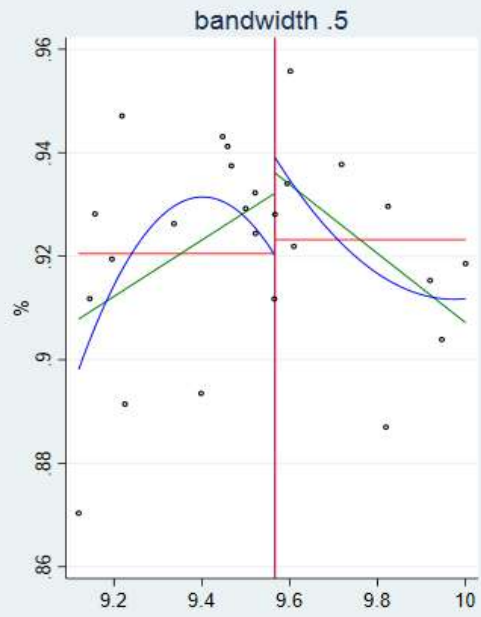
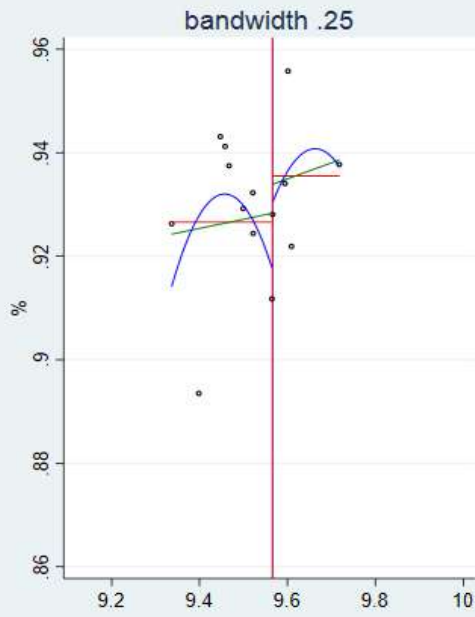
9.2 9.4 9.6 9.8 10

9.2 9.4 9.6 9.8 10

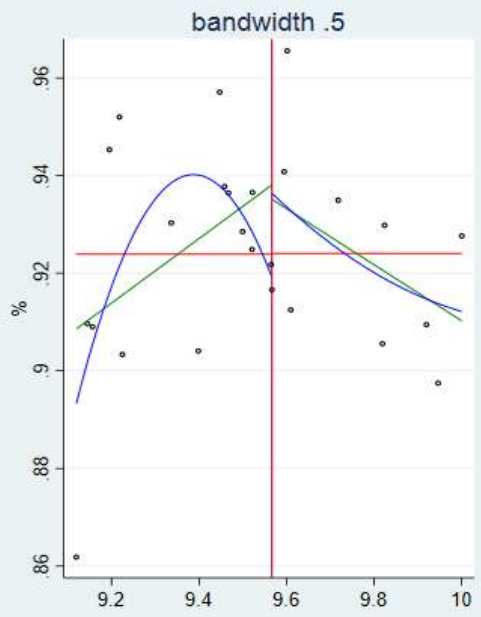
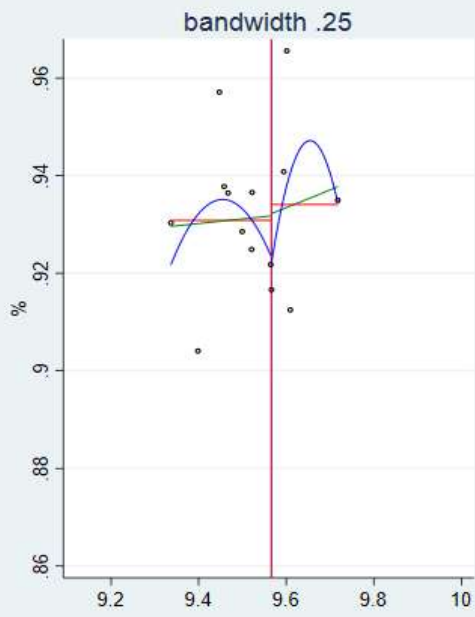
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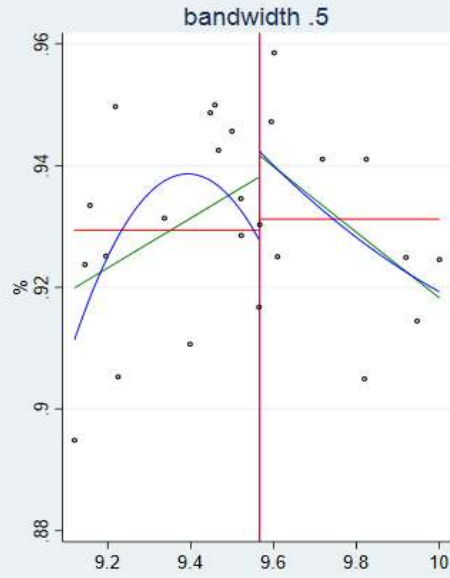
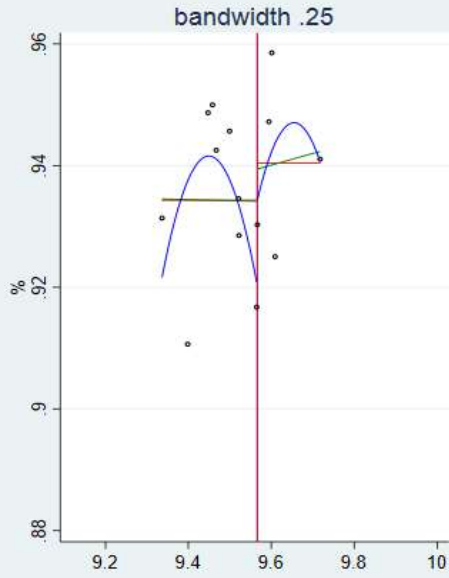
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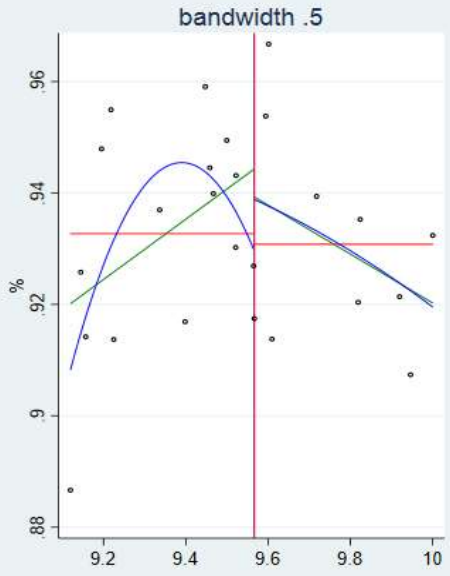
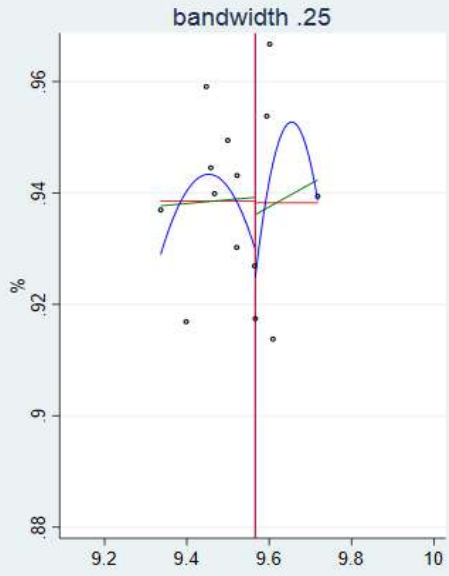
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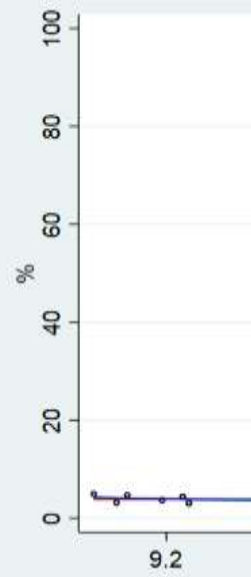
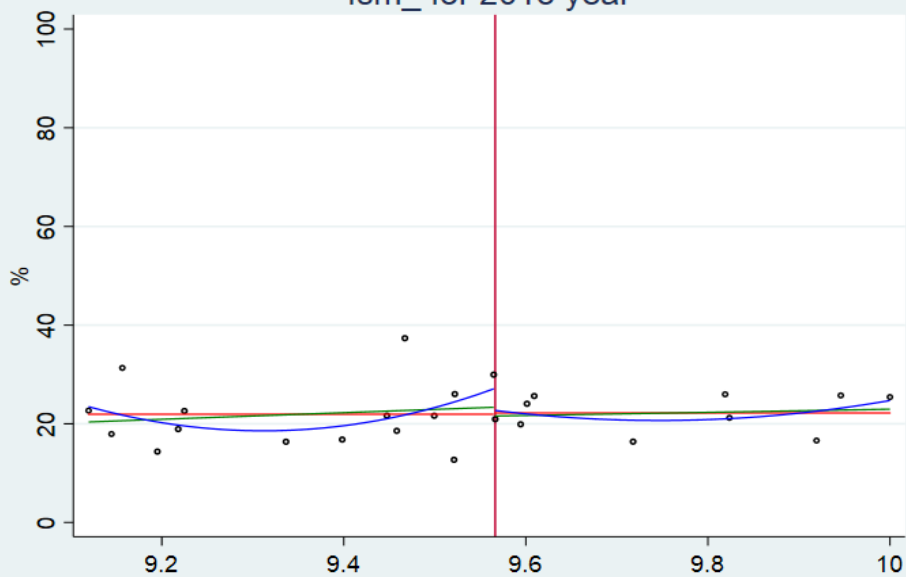
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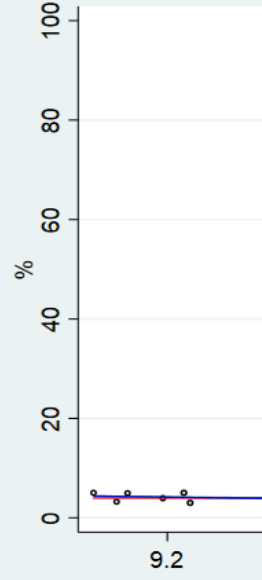
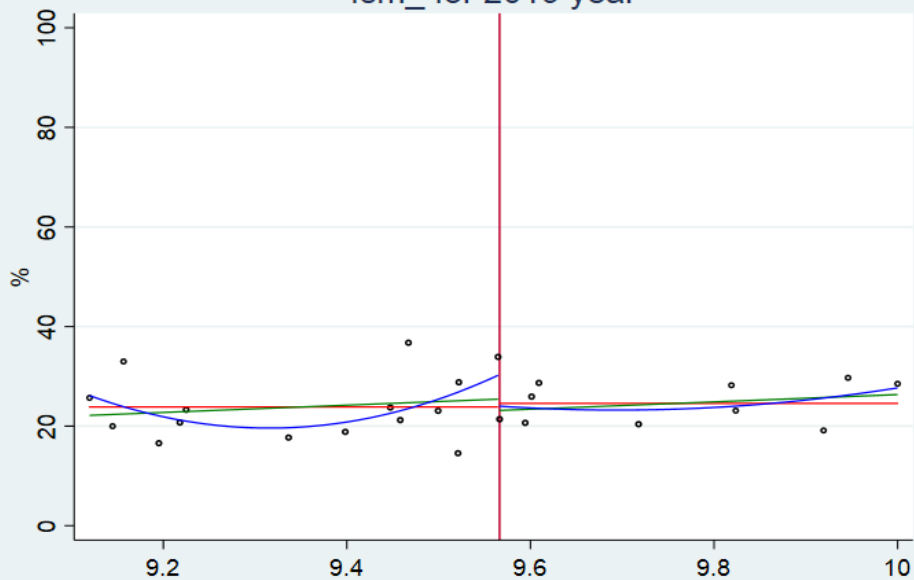
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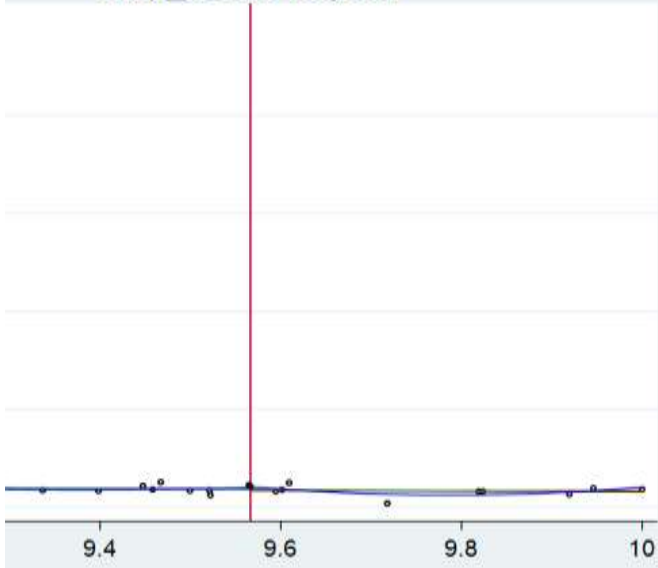
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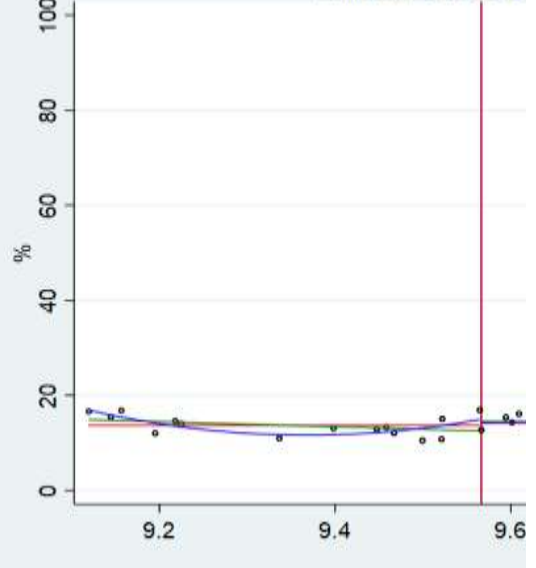
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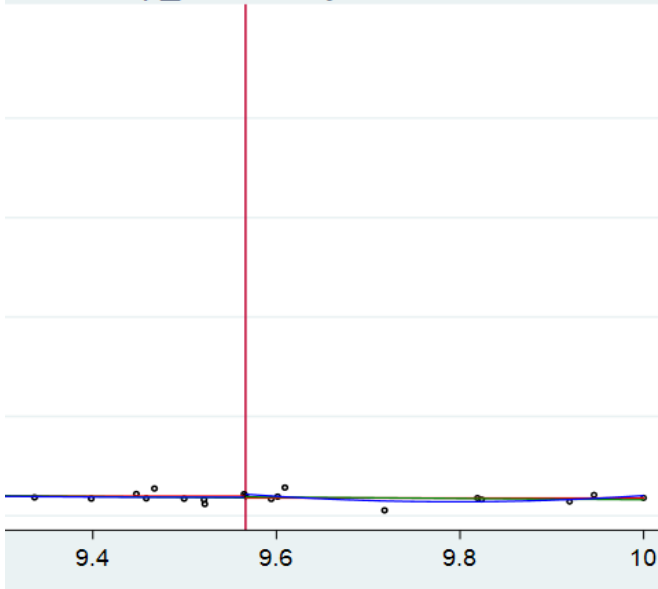
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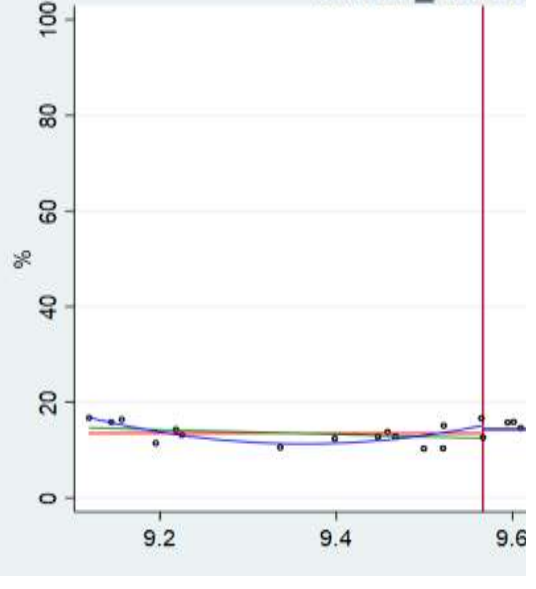
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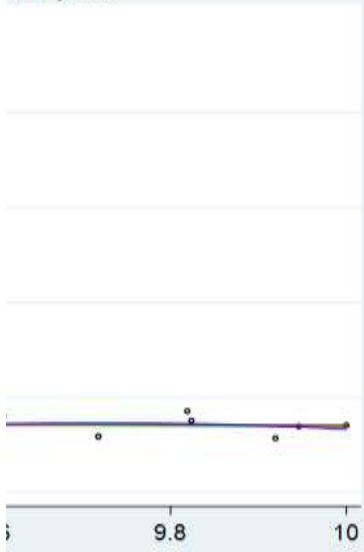
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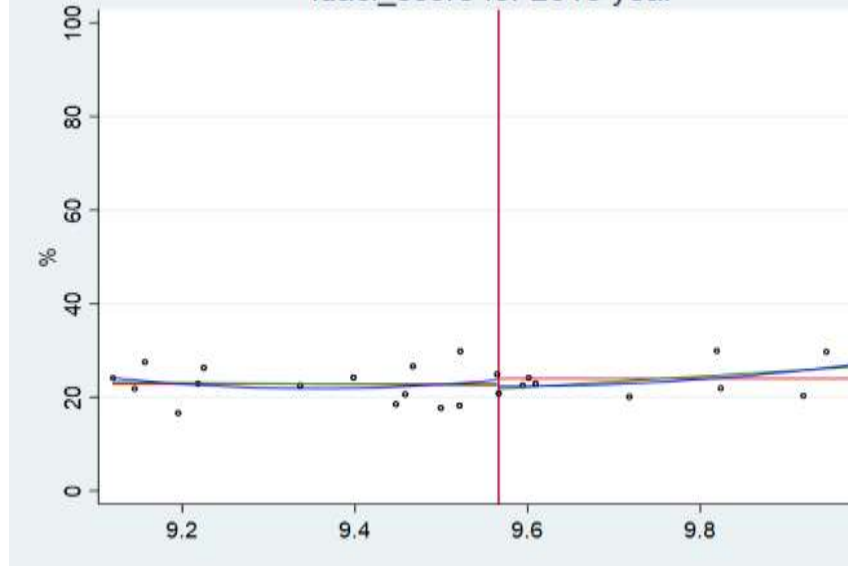
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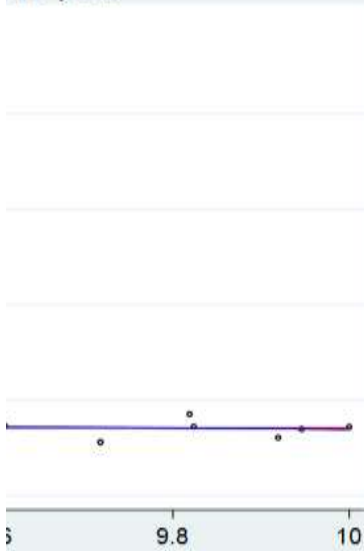
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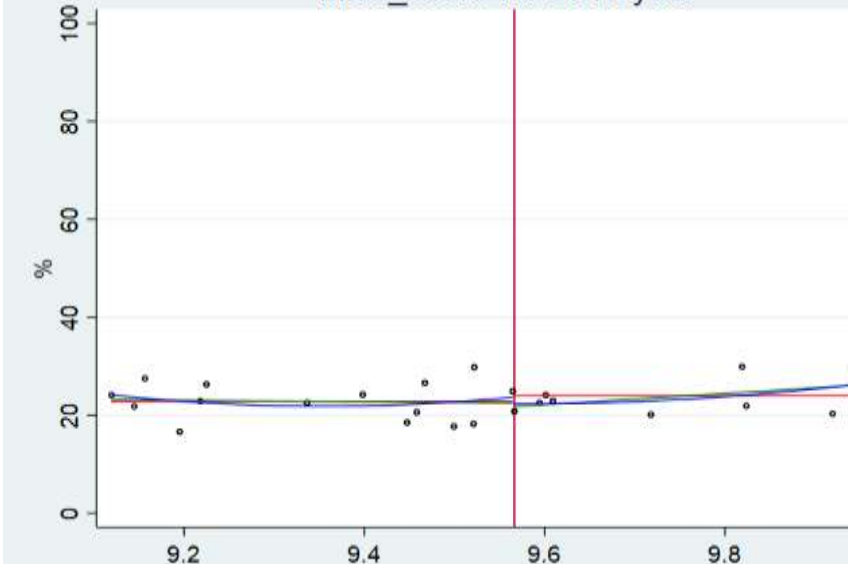
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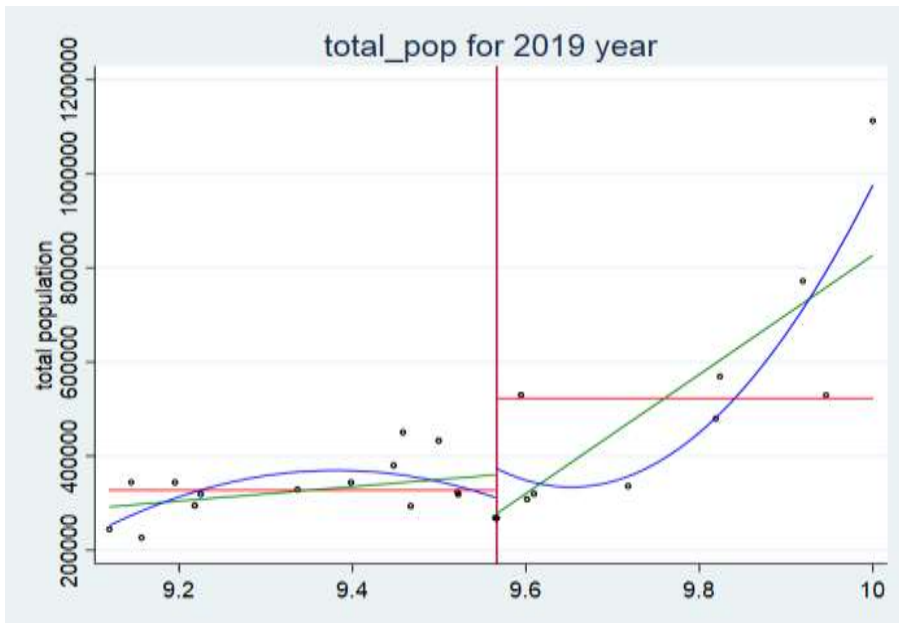
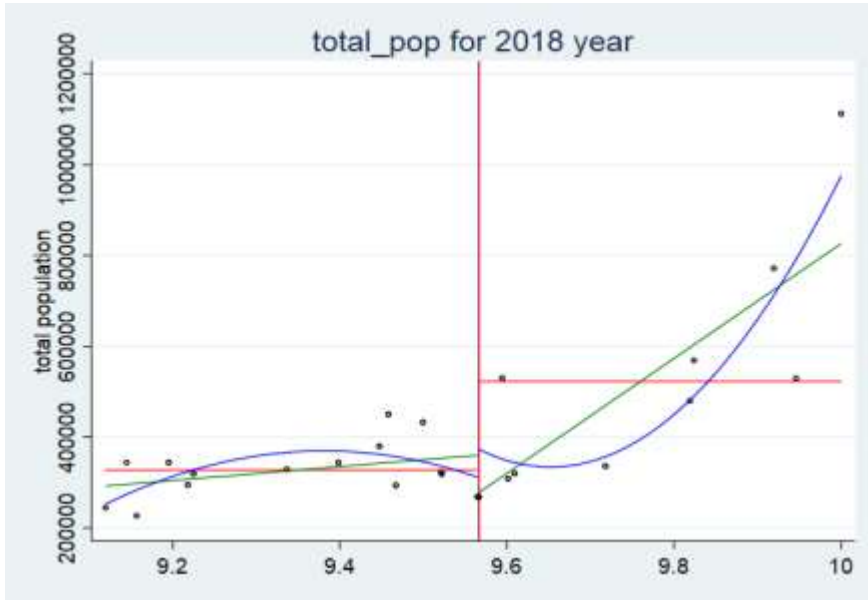


2019 year



idaci_score for 2019 year







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