YOU CAN'T ALWAYS GET WHAT YOU WANT:
WHY FOREIGN-IMPOSED REGIME CHANGE SELDOM IMPROVES INTERSTATE RELATIONS[1]
SUPPLEMENTAL MATERIALS

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[1] *International Security*, Vol. 41, No. 2 (Fall 2016).

APPENDIX A: REGRESSION OUTPUT (AND CODE) USED TO PRODUCE FIGURES 1-3

Table A1. Probit Models of Types of Foreign-Imposed Regime Change (FIRC) and Initiation of Militarized Interstate Disputes, 1816-2000

	1	2	3	4	5	6	7	8	9
Overt FIRC	-0.05	-	-	-	-	-	-	-	-
	(0.10)								
Overt Leadership FIRC	-	0.26*	-	-	-	-	-	-	-
		(0.11)							
Overt Institutional FIRC	-	-0.48	-	-	-	-	-	-	-
		(0.37)							
Overt Restoration FIRC	-	-0.89**	-	-	-	-	-	-	-
		(0.34)							
Ongoing Covert FIRC	-	-	0.56***	-	-	-	-	-	-
			(0.13)						
Covert FIRC	-	-	-	0.41***	-	-	-	-	-
				(0.09)					
Covert Leadership FIRC	-	-	-	-	0.40***	-	-	-	-
					(0.10)				
Covert Institutional FIRC	-	-	-	-	0.44*	-	-	-	-
					(0.22)				
Successful Covert FIRC	-	-	-	-	-	-0.00	-	-	-
						(0.25)			
Successful Covert Leadership FIRC	-	-	-	-	-	-	0.05	-	-
							(0.25)		
Failed Covert FIRC	-	-	-	-	-	-	-	0.53***	-
								(0.09)	
Failed Covert Leadership FIRC	-	-	-	-	-	-	-	-	0.49***
									(0.11)
Failed Covert Institutional FIRC	-	-	-	-	-	-	-	-	0.73***
									(0.16)
Material Capabilities, Side A	1.75***	1.77***	1.69***	1.72***	1.72***	1.74***	1.74***	1.72***	1.72***
	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)
Material Capabilities, Side B	1.50***	1.51***	1.43***	1.46***	1.47***	1.50***	1.50***	1.47***	1.47***
	(0.29)	(0.29)	(0.29)	(0.29)	(0.29)	(0.29)	(0.29)	(0.29)	(0.29)
Side A's Proportion of Dyadic Capabilities	0.16**	0.16**	0.16**	0.16**	0.16**	0.16**	0.16**	0.16**	0.16**
	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
Dyadic *S* Score	-0.10*	-0.10*	-0.10*	-0.10*	-0.10*	-0.11*	-0.11*	-0.09*	-0.09*
	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)

Side A's *S* Score with	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
System Leader	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Side B's *S* Score with	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05
System Leader	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Logged Distance	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***
between Capitals	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Democracy, Side A	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Democracy, Side B	0.14***	0.14***	0.14**	0.14**	0.14**	0.14**	0.14**	0.14**	0.14**
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Joint Democracy	-0.48***	-0.47***	-0.47***	-0.47***	-0.47***	-0.48***	-0.48***	-0.47***	-0.47***
	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)
Constant	-1.49***	-1.49***	-1.49***	-1.49***	-1.49***	-1.49***	-1.49***	-1.50***	-1.50***
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Wald Chi2	1135.91***	1157.72***	1168.38	1147.58	1146.84	1135.41	1135.50	1162.86	1165.86
Pseudo-R2	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Log pseudo-likelihood	-10000.08	-9987.16	-9986.98	-9991.15	-9991.80	-10000.29	-10000.27	-9987.74	-9988.28

Note: N for all models is 180,498. Robust standard errors clustered on dyads in parentheses. Included in all models but not shown is a variable that counts the number of years since the last MID in a dyad, as well as three cubic splines, to account for temporal dependence.
* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Code for Table A1

```
probit cwinit ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

probit cwinit ovleaderfirc10 ovinstfirc10 ovrestfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

probit cwinit covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

probit cwinit covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

probit cwinit covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

probit cwinit covfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

probit cwinit covleadfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

probit cwinit covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

probit cwinit covleadfircfail10 covinstfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)
```

APPENDIX B: SIMULATIONS (AND CODE) USED TO PRODUCE SUBSTANTIVE EFFECTS IN FIGURES 1-3

OVERT FIRC, 10 YEARS

```
estsimp probit cwinit ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

setx ovfirc10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061936     .0004648     .0052818    .0071258

setx ovfirc10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0055775      .001785     .0027931    .0097877


simqi, fd(prval(1)) changex(ovfirc10 0 1)

First Difference: ovfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |  -.0006161     .0016232    -.0032198    .0031085
```

OVERT FIRC, 10 YEARS: LEADERSHIP, INSTITUTIONAL, AND RESTORATION

```
estsimp probit cwinit ovleaderfirc10 ovinstfirc10 ovrestfirc10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)
```

Leadership FIRC

```
setx ovleaderfirc10 0 ovinstfirc10 0 ovrestfirc10 0 cap_1 mean cap_2 mean capshare_1 mean
s_wt_glo mean s_ld_1 mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0
peaceyrs mean _spline1 mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0062002     .0004653     .0053233    .0071445

setx ovleaderfirc10 1 ovinstfirc10 0 ovrestfirc10 0 cap_1 mean cap_2 mean capshare_1 mean
s_wt_glo mean s_ld_1 mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0
peaceyrs mean _spline1 mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0131888     .0039567     .0065461    .0220683

simqi, fd(prval(1)) changex(ovleaderfirc10 0 1)

First Difference: ovleaderfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0069886     .0038008     .0005254    .0153229
```

Institutional FIRC

```
setx ovleaderfirc10 0 ovinstfirc10 1 ovrestfirc10 0 cap_1 mean cap_2 mean capshare_1 mean
s_wt_glo mean s_ld_1 mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0
peaceyrs mean _spline1 mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0025516     .0034821     .0001014    .0120971

simqi, fd(prval(1)) changex(ovinstfirc10 0 1)

First Difference: ovinstfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |  -.0036486     .0034906    -.0064822    .0057284
```

Restoration FIRC

```
setx ovleaderfirc10 0 ovinstfirc10 0 ovrestfirc10 1 cap_1 mean cap_2 mean capshare_1 mean
s_wt_glo mean s_ld_1 mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0
peaceyrs mean _spline1 mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |    .000631     .0008934     .0000255    .0032094
```

```
simqi, fd(prval(1)) changex(ovrestfirc10 0 1)

First Difference: ovrestfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-------------------------------------------------
           dPr(cwinit = 1) |  -.0055692     .0010132    -.0068686   -.0029905
```

COVERT FIRC

Ongoing Covert FIRC

```
estsimp probit cwinit covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

setx covertfirc 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061718     .0004703     .0052836    .0071704

setx covertfirc 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0268266     .0081426     .0137378    .0450936

simqi, fd(prval(1)) changex(covertfirc 0 1)

First Difference: covertfirc 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0206548      .008088     .0076599    .0388105
```

Covert FIRC (All): Up to 10 Years after End of Operation

```
estsimp probit cwinit covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2  peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

setx covfirc10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061545     .0004642     .0052956    .0070665

setx covfirc10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0186436     .0039965     .0119503    .0274288
simqi, fd(prval(1)) changex(covfirc10 0 1)

First Difference: covfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0124892      .003942     .0059871    .0209249
```

Covert Leadership and Institutional FIRC, Up to 10 Years after End of Operation

```
estsimp probit cwinit covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

setx covleaderfirc10 0 covinstfirc10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1
mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1
mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061769     .0004649     .0053191    .0070758
```

Covert Leadership FIRC

```
setx covleaderfirc10 1 covinstfirc10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1
mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1
mean _spline2 mean _spline3 mean


simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0179983     .0044117     .0103052    .0274737

simqi, fd(prval(1)) changex(covleaderfirc10 0 1)

First Difference: covleaderfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0118215     .0043234     .0044224    .0208937
```

Covert Institutional FIRC

```
setx covleaderfirc10 0 covinstfirc10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1
mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1
mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0220627     .0114908     .0061723    .0506554

simqi, fd(prval(1)) changex(covinstfirc10 0 1)

First Difference: covinstfirc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0158858     .0114836     .0001299    .0444534
```

SUCCESSFUL AND FAILED COVERT FIRC

Successful Covert FIRC, Up to 10 Years after End of Operation

```
estsimp probit cwinit covfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

setx covfircsucc10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061977     .0004717      .005311    .0072043

setx covfircsucc10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0074894     .0054473     .0012927    .0224882

simqi, fd(prval(1)) changex(covfircsucc10 0 1)

First Difference: covfircsucc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0012917     .0054524    -.0050906    .0166469
```

Successful Covert Leadership FIRC (there no MIDs after successful covert institutional FIRCs), Up to 10 Years after End of Operation

```
estsimp probit cwinit covleadfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

setx covleadfircsucc10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2
mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean
_spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061969     .0004713     .0053375    .0071472

setx covleadfircsucc10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2
mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean
_spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0090998     .0063909     .0019999    .0265359

simqi, fd(prval(1)) changex(covleadfircsucc10 0 1)

First Difference: covleadfircsucc10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |    .002903     .0064004    -.0043254    .0197514
```

Failed Covert FIRC, Up to 10 Years after End of Operation

```
estsimp probit cwinit covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

setx covfircfail10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061898     .0004513     .0053351    .0070961

setx covfircfail10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean s_ld_1 mean s_ld_2 mean
lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean _spline1 mean _spline2
mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0248862     .0054298     .0160188    .0366561

simqi, fd(prval(1)) changex(covfircfail10 0 1)

First Difference: covfircfail10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0186964     .0053561      .010072    .0301913
```

Failed Covert Leadership and Institutional FIRC, Up to 10 Years after End of Operation

```
estsimp probit cwinit covleadfircfail10 covinstfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0061969     .0004558     .0053349    .0071219
```

Failed Covert Leadership FIRC

```
setx covleadfircfail10 1 covinstfircfail10 0 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean
s_ld_1 mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean
_spline1 mean _spline2 mean _spline3 mean

simqi, prval(1)

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0223733     .0056343     .0132347    .0353836

simqi, fd(prval(1)) changex(covleadfircfail10 0 1)

First Difference: covleadfircfail10 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |   .0161764     .0055738     .0072658    .0289882
```

Failed Covert Institutional FIRC

```
setx covleadfircfail10 0 covinstfircfail10 1 cap_1 mean cap_2 mean capshare_1 mean s_wt_glo mean
s_ld_1 mean s_ld_2 mean lndistance mean democracy1 0 democracy2 0 democracy1_2 0 peaceyrs mean
_spline1 mean _spline2 mean _spline3 mean
```

```
simqi, prval(1)

      Quantity of Interest |      Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
              Pr(cwinit=1) |   .0402609     .0145944     .0190128    .0717643

simqi, fd(prval(1)) changex(covinstfircfail10 0 1)

First Difference: covinstfircfail10 0 1

      Quantity of Interest |      Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
           dPr(cwinit = 1) |    .034064     .0145507     .0127732    .0658359
```

Code for Figures 1-3

Figure 1. Overt Foreign-Imposed Regime Change (FIRC) and the Probability of Militarized Interstate Disputes (MIDs)

Using the dataset “Overt FIRC MFX Data Final.dta”

```
twoway (bar mean fftype if firc==0, fcolor(blue) lcolor(black)) (bar mean fftype if firc==1,
fcolor(gray) lcolor(black)) (rcap upper lower fftype), legend( order(1 "no FIRC" 2 "FIRC") )
xlabel( 0.5 "overt (all)" 3.5 "leadership" 6.5 "institutional" 9.5 "restoration", noticks)
xtitle("type of overt FIRC") ylabel(0 0.005 0.01 0.015 0.02 0.025) ytitle("MID probability")
```

Figure 2. Covert Foreign-Imposed Regime Change (FIRC) and the Probability of Militarized Interstate Disputes (MIDs)

Using the dataset “Covert FIRC MFX Data Final.dta”

```
twoway (bar mean fftype if firc==0, fcolor(blue) lcolor(black)) (bar mean fftype if firc==1,
fcolor(gray) lcolor(black)) (rcap upper lower fftype), legend( order(1 "no FIRC" 2 "FIRC") )
xlabel( 0.5 "ongoing (all)" 3.5 "concluded (all)" 6.5 "leadership" 9.5 "institutional", noticks
labsize(medsmall)) xtitle("type of covert FIRC") ytitle("MID probability")
```

Figure 3. Successful and Failed Covert Foreign-Imposed Regime Change (FIRC) and the Probability of Militarized Interstate Disputes (MIDs)

Using the dataset “Covert FIRC Succfail MFX Data Final.dta”

```
twoway (bar mean fftype if firc==0, fcolor(blue) lcolor(black)) (bar mean fftype if firc==1,
fcolor(gray) lcolor(black)) (rcap upper lower fftype), legend( order(1 "no FIRC" 2 "FIRC") )
xlabel( 0.5 "successful (all)" 3.5 "successful leadership" 6.5 "failed (all)" 9.5 "failed
leadership" 12.5 "failed institutional", noticks labsize(small)) xtitle("type of covert FIRC")
ytitle("MID probability")
```

APPENDIX C: RESULTS VARYING TREATMENT LENGTH OF FIRC

5-YEAR TREATMENT

Table C1. Overt FIRC, All MIDs, 5 Years

	(1) cwinit	(2) cwinit
ovfirc5	-0.07	
	(0.11)	
ovleaderfirc5		0.25*
		(0.12)
ovinstfirc5		-0.30
		(0.39)
cap_1	1.75***	1.75***
	(0.26)	(0.26)
cap_2	1.50***	1.50***
	(0.29)	(0.29)
capshare_1	0.16**	0.16**
	(0.05)	(0.05)
s_wt_glo	-0.10*	-0.11*
	(0.05)	(0.05)
s_ld_1	-0.03	-0.03
	(0.07)	(0.07)
s_ld_2	0.05	0.05
	(0.07)	(0.07)
lndistance	-0.09***	-0.09***
	(0.00)	(0.00)
democracy1	0.09*	0.09*
	(0.04)	(0.04)
democracy2	0.14***	0.14***
	(0.04)	(0.04)
democracy1_2	-0.48***	-0.48***
	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00	-0.00
	(0.00)	(0.00)
_cons	-1.49***	-1.49***
	(0.07)	(0.07)
N	180498	180498
pseudo R-sq	0.133	0.133

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table C1

```
eststo M1: probit cwinit ovfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

#ovrestfirc5 perfectly predicts zero.

eststo M2: probit cwinit ovleaderfirc5 ovinstfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 using ovinst5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc5 ovleaderfirc5 ovinstfirc5)
```

Table C2. Covert FIRC, All MIDs, 5 Years

	(1) cwinit	(2) cwinit
covfirc5	0.34**	
	(0.12)	
covleaderfirc5		0.31*
		(0.13)
covinstfirc5		0.46
		(0.36)
cap_1	1.73***	1.73***
	(0.26)	(0.26)
cap_2	1.48***	1.48***
	(0.29)	(0.29)
capshare_1	0.16**	0.16**
	(0.05)	(0.05)
s_wt_glo	-0.10*	-0.10*
	(0.05)	(0.05)
s_ld_1	-0.03	-0.03
	(0.07)	(0.07)
s_ld_2	0.05	0.05
	(0.07)	(0.07)
lndistance	-0.09***	-0.09***
	(0.00)	(0.00)
democracy1	0.09*	0.09*
	(0.04)	(0.04)
democracy2	0.14***	0.14***
	(0.04)	(0.04)
democracy1_2	-0.47***	-0.47***
	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00	-0.00
	(0.00)	(0.00)
_cons	-1.49***	-1.49***
	(0.07)	(0.07)
N	180498	180498
pseudo R-sq	0.133	0.133

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table C2

```
eststo M1: probit cwinit covfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit cwinit covleaderfirc5 covinstfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 using covf5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001) order(covfirc5
covleaderfirc5 covinstfirc5)
```

Table C3. Covert FIRC, Successes and Failures, All MIDs, 5 Years

	(1) cwinit	(2) cwinit	(3) cwinit	(4) cwinit
covfircsucc5	-0.07			
	(0.36)			
covleadfircsucc5		-0.02		
		(0.37)		
covfircfail5			0.49***	
			(0.13)	
covleadfircfail5				0.39**
				(0.15)
covinstfircfail5				0.88***
				(0.26)
cap_1	1.74***	1.74***	1.73***	1.73***
	(0.26)	(0.26)	(0.26)	(0.26)
cap_2	1.50***	1.50***	1.48***	1.49***
	(0.29)	(0.29)	(0.29)	(0.29)
capshare_1	0.16**	0.16**	0.16**	0.16**
	(0.05)	(0.05)	(0.05)	(0.05)
s_wt_glo	-0.11*	-0.11*	-0.10*	-0.10*
	(0.05)	(0.05)	(0.05)	(0.05)
s_ld_1	-0.03	-0.03	-0.03	-0.03
	(0.07)	(0.07)	(0.07)	(0.07)
s_ld_2	0.05	0.05	0.05	0.05
	(0.07)	(0.07)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)	(0.00)
democracy1	0.09*	0.09*	0.09*	0.09*
	(0.04)	(0.04)	(0.04)	(0.04)
democracy2	0.14***	0.14***	0.14***	0.14***
	(0.04)	(0.04)	(0.04)	(0.04)
democracy1_2	-0.48***	-0.48***	-0.47***	-0.47***
	(0.06)	(0.06)	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***	-0.09***	-0.09***
	(0.01)	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)
_cons	-1.49***	-1.49***	-1.49***	-1.49***
	(0.07)	(0.07)	(0.07)	(0.07)
N	180498	180498	180498	180498
pseudo R-sq	0.133	0.133	0.133	0.133

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table C3

```
eststo M1: probit cwinit covfircsucc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit cwinit covleadfircsucc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit cwinit covfircfail5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M4: probit cwinit covleadfircfail5 covinstfircfail5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 M3 M4 using covfail5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircsucc5 covleadfircsucc5 covfircfail5 covleadfircfail5 covinstfircfail5)
```

PERMANENT TREATMENT EFFECT (LASTS FROM YEAR OF FIRC UNTIL LAST YEAR OF DYAD)

Table C4. Effect of All FIRC Types with Permanent Treatment Effect

	(1) cwinit	(2) cwinit	(3) cwinit	(4) cwinit	(5) cwinit	(6) cwinit	(7) cwinit
ovfircall	0.05						
	(0.06)						
ovleaderfircall		0.19**					
		(0.07)					
ovinstfircall		-0.25+					
		(0.14)					
ovrestfircall		-0.19					
		(0.12)					
covfircall			0.49***				
			(0.08)				
covleaderfircall				0.50***			
				(0.08)			
covinstfircall				0.03			
				(0.24)			
covfircsuccall					0.42**		
					(0.14)		
covfircfailall					0.52***		
					(0.08)		
covleadfircsuccall						0.54***	
						(0.14)	
covleadfircfailall							0.53***
							(0.09)
covinstfircfailall							0.41*
							(0.20)
cap_1	1.72***	1.76***	1.72***	1.72***	1.72***	1.73***	1.72***
	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)
cap_2	1.48***	1.51***	1.43***	1.43***	1.43***	1.48***	1.44***
	(0.29)	(0.29)	(0.30)	(0.30)	(0.30)	(0.29)	(0.29)
capshare_1	0.16**	0.16**	0.16**	0.16**	0.16**	0.16**	0.16**
	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
s_wt_glo	-0.11*	-0.10*	-0.07	-0.06	-0.06	-0.11*	-0.06
	(0.05)	(0.05)	(0.04)	(0.04)	(0.05)	(0.05)	(0.05)
s_ld_1	-0.03	-0.04	-0.04	-0.04	-0.04	-0.03	-0.04
	(0.07)	(0.07)	(0.07)	(0.07)	(0.06)	(0.07)	(0.07)
s_ld_2	0.05	0.05	0.05	0.05	0.06	0.05	0.05
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
democracy1	0.09*	0.09*	0.08+	0.08+	0.07+	0.09*	0.08+
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
democracy2	0.14***	0.14***	0.13**	0.13**	0.13**	0.14***	0.13**
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
democracy1_2	-0.48***	-0.46***	-0.46***	-0.45***	-0.45***	-0.48***	-0.45***
	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***	-0.00***	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_cons	-1.49***	-1.49***	-1.51***	-1.51***	-1.52***	-1.49***	-1.52***
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
N	180498	180498	180498	180498	180498	180498	180498
pseudo R-sq	0.133	0.134	0.136	0.136	0.136	0.134	0.136

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table C4

```
eststo M1: probit cwinit ovfircall cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit cwinit ovleaderfircall ovinstfircall ovrestfircall cap_1 cap_2 capshare_1
s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2
_spline3, robust cluster(dyad_id)

eststo M3: probit cwinit covfircall cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M4: probit cwinit covleaderfircall covinstfircall cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M5: probit cwinit covfircsuccall covfircfailall cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M6: probit cwinit covleadfircsuccall cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M7: probit cwinit covleadfircfailall covinstfircfailall cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)

esttab M1 M2 M3 M4 M5 M6 M7 using fircall.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 ***
0.001) order(ovfircall ovleaderfircall ovinstfircall ovrestfircall covfircall covleaderfircall
covinstfircall covfircsuccall covfircfailall covleadfircsuccall covleadfircfailall
covinstfircfailall)
```

APPENDIX D: RESULTS FOR OVERT FIRC USING DEMOCRATIZING RATHER THAN INSTITUTIONAL FIRC, 10 YEAR AND 5 YEAR TREATMENTS

In the article, institutional FIRCs include interventions that seek to democratize targets, as well as interventions by the Soviet Union that establish communist systems. In this robustness check, we recode institutional FIRCs to include only the democratizing kind; Soviet FIRCs are recategorized as leadership FIRCs.

Table D1. Overt FIRC, All MIDs, Democratizing FIRC, 10 Years

	(1) cwinit	(2) cwinit
ovfirc10	-0.05	
	(0.10)	
ovleaderfirc10dmz		0.21+
		(0.12)
ovdmzfirc10		-0.40
		(0.37)
ovrestfirc10		-0.89**
		(0.34)
cap_1	1.75***	1.76***
	(0.26)	(0.26)
cap_2	1.50***	1.51***
	(0.29)	(0.29)
capshare_1	0.16**	0.16**
	(0.05)	(0.05)
s_wt_glo	-0.10*	-0.10*
	(0.05)	(0.05)
s_ld_1	-0.03	-0.03
	(0.07)	(0.07)
s_ld_2	0.05	0.05
	(0.07)	(0.07)
lndistance	-0.09***	-0.09***
	(0.00)	(0.00)
democracy1	0.09*	0.09*
	(0.04)	(0.04)
democracy2	0.14***	0.14***
	(0.04)	(0.04)
democracy1_2	-0.48***	-0.47***
	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00	-0.00
	(0.00)	(0.00)
_cons	-1.49***	-1.49***
	(0.07)	(0.07)
N	180498	180498
pseudo R-sq	0.133	0.134

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table D1

```
eststo M1: probit cwinit ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit cwinit ovleaderfirc10dmz ovdmzfirc10 ovrestfirc10 cap_1 cap_2 capshare_1
s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2
_spline3, robust cluster(dyad_id)

esttab M1 M2 using ovdemz10.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc10 ovleaderfirc10dmz ovdmzfirc10 ovrestfirc10)
```

Table D2. Overt FIRC, All MIDs, Democratizing FIRC, 5 Years

	(1) cwinit	(2) cwinit
ovfirc5	-0.07	
	(0.11)	
ovleaderfirc5dmz		0.20+
		(0.12)
ovdmzfirc5		-0.22
		(0.40)
cap_1	1.75***	1.74***
	(0.26)	(0.26)
cap_2	1.50***	1.50***
	(0.29)	(0.29)
capshare_1	0.16**	0.16**
	(0.05)	(0.05)
s_wt_glo	-0.10*	-0.11*
	(0.05)	(0.05)
s_ld_1	-0.03	-0.03
	(0.07)	(0.07)
s_ld_2	0.05	0.05
	(0.07)	(0.07)
lndistance	-0.09***	-0.09***
	(0.00)	(0.00)
democracy1	0.09*	0.09*
	(0.04)	(0.04)
democracy2	0.14***	0.14***
	(0.04)	(0.04)
democracy1_2	-0.48***	-0.48***
	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00	-0.00
	(0.00)	(0.00)
_cons	-1.49***	-1.49***
	(0.07)	(0.07)
N	180498	180498
pseudo R-sq	0.133	0.133

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table D2

```
eststo M1: probit cwinit ovfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit cwinit ovleaderfirc5dmz ovdmzfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 using ovfirc5new.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc5 ovleaderfirc5dmz ovdmzfirc5)
```

APPENDIX E: ROBUSTNESS CHECK, FORMAL ALLIANCES

One anonymous reviewer suggested controlling for formal alliances, arguing that the effects of alliances are not fully captured by S scores. Alliance data are taken from the Correlates of War Formal Alliance data (generated by EUGene). Our alliance dummy is coded 1 if two states in a dyad had any kind of formal alliance (defense pact, non-aggression pact, or neutrality pact) in year t, and 0 otherwise. The alliance dummy is never statistically significant (the variable is named allydum, and is bolded), and the values of the FIRC coefficients are barely affected by its inclusion. The table shows only those models in which one or more FIRC variables were significant.

Table E1. The Effect of Including Formal Alliances as a Control Variable

	(1) cwinit	(2) cwinit	(3) cwinit	(4) cwinit	(5) cwinit
ovleaderfirc10	0.27*				
	(0.11)				
ovinstfirc10	-0.49				
	(0.37)				
ovrestfirc10	-0.90**				
	(0.34)				
covfirc10		0.41***			
		(0.09)			
covleaderfirc10			0.39***		
			(0.10)		
covinstfirc10			0.43+		
			(0.22)		
covfircfail10				0.52***	
				(0.09)	
covleadfircfail10					0.48***
					(0.10)
covinstfircfail10					0.72***
					(0.17)
cap_1	1.75***	1.71***	1.71***	1.71***	1.71***
	(0.27)	(0.27)	(0.27)	(0.27)	(0.27)
cap_2	1.49***	1.45***	1.45***	1.45***	1.45***
	(0.29)	(0.29)	(0.29)	(0.29)	(0.29)
capshare_1	0.16**	0.16**	0.16**	0.16**	0.16**
	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
s_wt_glo	-0.12*	-0.10*	-0.11*	-0.10*	-0.10*
	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
s_ld_1	-0.03	-0.03	-0.03	-0.03	-0.03
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
s_ld_2	0.05	0.06	0.06	0.06	0.06
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
democracy1	0.09*	0.09*	0.09*	0.09*	0.09*
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
democracy2	0.14***	0.14**	0.14**	0.14**	0.14**
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
democracy1_2	-0.47***	-0.47***	-0.47***	-0.47***	-0.47***
	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)

allydum	0.03	0.02	0.02	0.02	0.02
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
peaceyrs	-0.09***	-0.09***	-0.09***	-0.09***	-0.09***
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_cons	-1.49***	-1.49***	-1.49***	-1.50***	-1.50***
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
N	180498	180498	180498	180498	180498
pseudo R-sq	0.134	0.134	0.134	0.134	0.134

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table E1

```
eststo M1: probit cwinit ovleaderfirc10 ovinstfirc10 ovrestfirc10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 allydum peaceyrs _spline1 _spline2
_spline3, robust cluster(dyad_id)

eststo M2: probit cwinit covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 allydum peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit cwinit covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 allydum peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)

eststo M4: probit cwinit covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 allydum peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M5: probit cwinit covleadfircfail10 covinstfircfail10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 allydum peaceyrs _spline1 _spline2
_spline3, robust cluster(dyad_id)

esttab M1 M2 M3 M4 M5 using allyfirc.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovleaderfirc10 ovinstfirc10 ovrestfirc10 covfirc10 covleaderfirc10 covinstfirc10
covfircfail10 covleadfircfail10 covinstfircfail10)
```

APPENDIX F: RESULTS USING FATAL MIDS AS DV RATHER THAN ALL MIDS, 10 YEAR AND 5 YEAR TREATMENTS

One criticism of our dependent variable is that the MID dataset includes some low level disputes that did not involve the use of force. As a robustness test, therefore, we generated two additional dummy variables to capture only those MIDs that escalated to higher levels of hostility. The first detects "fatal MIDs," and is coded 1 if state A in a dyad initiated a MID that escalated to the use of force or war (4 or 5 on the hostility level variable) by either side. In 71 percent of the MIDs in our dataset, at least one side reached this level of violence. The second variable is coded 1 only if a MID initiated by State A escalated to war. This occurred in 7.5 percent of the MIDs in our data. Results for "fatal MIDs" are shown in Appendix F; results for war are shown in Appendix G.

Overall, among overt FIRCs, the effect of leadership FIRC is slightly weaker ($p < 0.14$) for fatal MIDs but stronger for wars ($p < 0.001$). No wars occurred after a Restoration FIRC, so its effect cannot be estimated statistically. Among covert FIRCs, institutional covert FIRCs were no longer significant using fatal MIDs as the dependent variable; no wars occurred after a covert institutional FIRC.

Table F1. Overt FIRC, Fatal MIDs, 10 Years (Using Institutional and Democratizing FIRC)

	(1) midinit_fatal	(2) midinit_fatal	(3) midinit_fatal
ovfirc10	-0.08		
	(0.13)		
ovleaderfirc10		0.21	
		(0.14)	
ovinstfirc10		-0.33	
		(0.38)	
ovrestfircall		-0.25*	-0.25*
		(0.12)	(0.12)
ovleaderfirc0dmz			0.16
			(0.14)
ovdmzfirc10			-0.24
			(0.39)
cap_1	1.61***	1.62***	1.61***
	(0.29)	(0.29)	(0.29)
cap_2	1.64***	1.64***	1.63***
	(0.31)	(0.31)	(0.31)
capshare_1	0.14*	0.13*	0.13*
	(0.06)	(0.06)	(0.06)
s_wt_glo	-0.10+	-0.10+	-0.10+
	(0.05)	(0.05)	(0.05)
s_ld_1	-0.08	-0.09	-0.09
	(0.08)	(0.08)	(0.08)
s_ld_2	0.01	0.01	0.01
	(0.08)	(0.08)	(0.08)
lndistance	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)
democracy1	0.03	0.03	0.03
	(0.04)	(0.04)	(0.04)
democracy2	0.15**	0.15**	0.15**
	(0.05)	(0.05)	(0.05)
democracy1_2	-0.43***	-0.42***	-0.42***
	(0.07)	(0.07)	(0.07)
peaceyrs	-0.08***	-0.08***	-0.08***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)
_cons	-1.57***	-1.57***	-1.57***
	(0.08)	(0.08)	(0.08)
N	180498	180498	180498
pseudo R-sq	0.124	0.125	0.125

Standard errors in parentheses; + p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table F1

```
#generate peace years and cubic splines for new dependent variable

btscs midinit_fatal year dyad_id, g(peaceyrs) nspline(3)

eststo M1: probit midinit_fatal ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

#ovrestfirc10 perfectly predicts zero; substitute ovrestfircall.

eststo M2: probit midinit_fatal ovleaderfirc10 ovinstfirc10 ovrestfircall cap_1 cap_2 capshare_1
s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2
_spline3, robust cluster(dyad_id)

eststo M3: probit midinit_fatal ovleaderfirc10dmz ovdmzfirc10 ovrestfircall cap_1 cap_2
capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1
_spline2 _spline3, robust cluster(dyad_id)

esttab M1 M2 M3 using tab1.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc10 ovleaderfirc10 ovinstfirc10 ovrestfircall ovleaderfirc10dmz ovdmzfirc10)
```

Table F2. Overt FIRC, Fatal MIDs, 5 Years (Using Institutional and Democratizing FIRC)

	(1) midinit_fatal	(2) midinit_fatal	(3) midinit_fatal
ovfirc5	-0.12		
	(0.15)		
ovleaderfirc5		0.12	
		(0.15)	
ovinstfirc5		-0.13	
		(0.41)	
ovleaderfirc5dmz			0.06
			(0.16)
ovdmzfirc5			-0.03
			(0.41)
cap_1	1.61***	1.60***	1.60***
	(0.29)	(0.29)	(0.29)
cap_2	1.64***	1.63***	1.63***
	(0.31)	(0.31)	(0.31)
capshare_1	0.14*	0.13*	0.13*
	(0.06)	(0.06)	(0.06)
s_wt_glo	-0.10+	-0.10*	-0.10*
	(0.05)	(0.05)	(0.05)
s_ld_1	-0.08	-0.09	-0.08
	(0.08)	(0.08)	(0.08)
s_ld_2	0.01	0.01	0.01
	(0.08)	(0.08)	(0.08)
lndistance	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)
democracy1	0.03	0.03	0.03
	(0.04)	(0.04)	(0.04)
democracy2	0.15**	0.15**	0.15**
	(0.05)	(0.05)	(0.05)
democracy1_2	-0.43***	-0.43***	-0.43***
	(0.07)	(0.07)	(0.07)
peaceyrs	-0.08***	-0.08***	-0.08***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)
_cons	-1.57***	-1.57***	-1.57***
	(0.08)	(0.08)	(0.08)
N	180498	180498	180498
pseudo R-sq	0.124	0.124	0.124

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table F2

```
eststo M1: probit midinit_fatal ovfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

#ovrestfirc5 perfectly predicts zero.

eststo M2: probit midinit_fatal ovleaderfirc5 ovinstfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit midinit_fatal ovleaderfirc5dmz ovdmzfirc5 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)

esttab M1 M2 M3 using tab2.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc5 ovleaderfirc5 ovinstfirc5 ovleaderfirc5dmz ovdmzfirc5)
```

Table F3. Covert FIRC, Fatal MIDs, 10 Years

	(1) midinit_fatal	(2) midinit_fatal	(3) midinit_fatal
covertfirc	0.53***		
	(0.14)		
covfirc10		0.51***	
		(0.10)	
covleaderfirc10			0.51***
			(0.11)
covinstfirc10			0.31
			(0.31)
cap_1	1.55***	1.57***	1.57***
	(0.28)	(0.29)	(0.29)
cap_2	1.56***	1.58***	1.58***
	(0.31)	(0.31)	(0.31)
capshare_1	0.13*	0.13*	0.13*
	(0.06)	(0.06)	(0.06)
s_wt_glo	-0.10+	-0.09+	-0.09+
	(0.05)	(0.05)	(0.05)
s_ld_1	-0.08	-0.09	-0.09
	(0.07)	(0.07)	(0.07)
s_ld_2	0.01	0.00	0.00
	(0.07)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)
democracy1	0.02	0.02	0.02
	(0.04)	(0.04)	(0.04)
democracy2	0.14**	0.14**	0.14**
	(0.05)	(0.05)	(0.05)
democracy1_2	-0.42***	-0.42***	-0.42***
	(0.07)	(0.07)	(0.07)
peaceyrs	-0.08***	-0.08***	-0.08***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)
_cons	-1.57***	-1.58***	-1.58***
	(0.08)	(0.08)	(0.08)
N	180498	180498	180498
pseudo R-sq	0.125	0.126	0.125

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table F3

```
eststo M1: probit midinit_fatal covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M2: probit midinit_fatal covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit midinit_fatal covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)

esttab M1 M2 M3 using covfatal10.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covertfirc covfirc10 covleaderfirc10 covinstfirc10)
```

Table F4. Covert FIRC, Fatal MIDs, 5 Years

	(1) midinit_fatal	(2) midinit_fatal
covfirc5	0.46***	
	(0.13)	
covleaderfirc5		0.41**
		(0.14)
covinstfirc5		0.59
		(0.36)
cap_1	1.58***	1.58***
	(0.29)	(0.29)
cap_2	1.60***	1.60***
	(0.31)	(0.31)
capshare_1	0.13*	0.13*
	(0.06)	(0.06)
s_wt_glo	-0.10+	-0.10+
	(0.05)	(0.05)
s_ld_1	-0.08	-0.08
	(0.07)	(0.08)
s_ld_2	0.01	0.01
	(0.08)	(0.08)
lndistance	-0.09***	-0.09***
	(0.00)	(0.00)
democracy1	0.03	0.03
	(0.04)	(0.04)
democracy2	0.14**	0.14**
	(0.05)	(0.05)
democracy1_2	-0.42***	-0.42***
	(0.07)	(0.07)
peaceyrs	-0.08***	-0.08***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	0.00	0.00
	(0.00)	(0.00)
_cons	-1.57***	-1.57***
	(0.08)	(0.08)
N	180498	180498
pseudo R-sq	0.125	0.125

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table F4

```
eststo M1: probit midinit_fatal covfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit midinit_fatal covleaderfirc5 covinstfirc5 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)

esttab M1 M2 using covfatal5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfirc5 covleaderfirc5 covinstfirc5)
```

Table F5. Covert FIRC, Fatal MIDs, Successes and Failures, 10 Years

	(1) midinit_fatal	(2) midinit_fatal	(3) midinit_fatal	(4) midinit_fatal
covfircsucc10	0.13			
	(0.24)			
covleadfircsucc10		0.19		
		(0.25)		
covfircfail10			0.60***	
			(0.10)	
covleadfircfail10				0.60***
				(0.12)
covinstfircfail10				0.44
				(0.31)
cap_1	1.60***	1.60***	1.57***	1.58***
	(0.29)	(0.29)	(0.29)	(0.29)
cap_2	1.63***	1.62***	1.58***	1.58***
	(0.31)	(0.31)	(0.31)	(0.31)
capshare_1	0.14*	0.13*	0.13*	0.13*
	(0.06)	(0.06)	(0.06)	(0.06)
s_wt_glo	-0.10*	-0.10*	-0.09+	-0.08+
	(0.05)	(0.05)	(0.05)	(0.05)
s_ld_1	-0.08	-0.08	-0.09	-0.08
	(0.08)	(0.08)	(0.07)	(0.07)
s_ld_2	0.01	0.01	0.00	0.01
	(0.08)	(0.08)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)	(0.00)
democracy1	0.03	0.03	0.02	0.02
	(0.04)	(0.04)	(0.04)	(0.04)
democracy2	0.15**	0.15**	0.14**	0.14**
	(0.05)	(0.05)	(0.05)	(0.05)
democracy1_2	-0.43***	-0.43***	-0.41***	-0.41***
	(0.07)	(0.07)	(0.07)	(0.07)
peaceyrs	-0.08***	-0.08***	-0.08***	-0.08***
	(0.01)	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	0.00	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)	(0.00)
_cons	-1.57***	-1.57***	-1.58***	-1.58***
	(0.08)	(0.08)	(0.08)	(0.08)
N	180498	180498	180498	180498
pseudo R-sq	0.124	0.124	0.126	0.126

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table F5

```
eststo M1: probit midinit_fatal covfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M2: probit midinit_fatal covleadfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit midinit_fatal covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M4: probit midinit_fatal covleadfircfail10 covinstfircfail10 cap_1 cap_2 capshare_1
s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2
_spline3, robust cluster(dyad_id)

esttab M1 M2 M3 M4 using covsuccfail10.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircsucc10 covleadfircsucc10 covfircfail10 covleadfircfail10 covinstfircfail10)
```

Table F6. Covert FIRC, Fatal MIDs, Successes and Failures, 5 Years

	(1) midinit_fatal	(2) midinit_fatal	(3) midinit_fatal	(4) midinit_fatal
covfircsucc5	0.07			
	(0.35)			
covleadfircsucc5		0.12		
		(0.36)		
covfircfail5			0.56***	
			(0.14)	
covleadfircfail5				0.49**
				(0.16)
covinstfircfail5				0.74+
				(0.39)
cap_1	1.60***	1.60***	1.58***	1.59***
	(0.29)	(0.29)	(0.29)	(0.29)
cap_2	1.63***	1.63***	1.61***	1.61***
	(0.31)	(0.31)	(0.31)	(0.31)
capshare_1	0.14*	0.14*	0.13*	0.13*
	(0.06)	(0.06)	(0.06)	(0.06)
s_wt_glo	-0.10*	-0.10*	-0.10+	-0.10+
	(0.05)	(0.05)	(0.05)	(0.05)
s_ld_1	-0.08	-0.08	-0.08	-0.08
	(0.08)	(0.08)	(0.07)	(0.07)
s_ld_2	0.01	0.01	0.01	0.01
	(0.08)	(0.08)	(0.08)	(0.08)
lndistance	-0.09***	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)	(0.00)
democracy1	0.03	0.03	0.03	0.03
	(0.04)	(0.04)	(0.04)	(0.04)
democracy2	0.15**	0.15**	0.14**	0.14**
	(0.05)	(0.05)	(0.05)	(0.05)
democracy1_2	-0.43***	-0.43***	-0.42***	-0.42***
	(0.07)	(0.07)	(0.07)	(0.07)
peaceyrs	-0.08***	-0.08***	-0.08***	-0.08***
	(0.01)	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	0.00	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)	(0.00)
_cons	-1.57***	-1.57***	-1.58***	-1.58***
	(0.08)	(0.08)	(0.08)	(0.08)
N	180498	180498	180498	180498
pseudo R-sq	0.124	0.124	0.125	0.125

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table F6

```
eststo M1: probit midinit_fatal covfircsucc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M2: probit midinit_fatal covleadfircsucc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit midinit_fatal covfircfail5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M4: probit midinit_fatal covleadfircfail5 covinstfircfail5 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
robust cluster(dyad_id)

esttab M1 M2 M3 M4 using covsuccfail5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircsucc5 covleadfircsucc5 covfircfail5 covleadfircfail5 covinstfircfail5)
```

APPENDIX G: RESULTS USING WAR AS DV RATHER THAN ALL MIDS OR FATAL MIDS, 10 YEAR AND 5 YEAR TREATMENTS

Table G1. Overt FIRC, War, 10 Years

	(1) midinit_war	(2) midinit_war	(3) midinit_war
ovfirc10	0.40*		
	(0.19)		
ovleaderfirc10		0.68**	
		(0.21)	
ovleaderfirc0dmz			0.63**
			(0.21)
cap_1	2.00***	2.03***	2.02***
	(0.43)	(0.43)	(0.43)
cap_2	1.56**	1.57**	1.56**
	(0.49)	(0.49)	(0.49)
capshare_1	0.13	0.13	0.13
	(0.10)	(0.10)	(0.10)
s_wt_glo	-0.02	-0.02	-0.02
	(0.10)	(0.10)	(0.10)
s_ld_1	0.14	0.13	0.14
	(0.14)	(0.14)	(0.14)
s_ld_2	0.17	0.16	0.16
	(0.14)	(0.14)	(0.14)
lndistance	-0.07***	-0.07***	-0.07***
	(0.01)	(0.01)	(0.01)
democracy1	0.10	0.10	0.10
	(0.07)	(0.07)	(0.07)
democracy2	0.09	0.08	0.09
	(0.11)	(0.11)	(0.11)
democracy1_2	-0.73***	-0.72***	-0.72***
	(0.16)	(0.16)	(0.16)
peaceyrs	-0.05***	-0.05***	-0.05***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00*	-0.00*	-0.00*
	(0.00)	(0.00)	(0.00)
_cons	-2.87***	-2.87***	-2.87***
	(0.14)	(0.15)	(0.15)
N	180498	180498	180498
pseudo R-sq	0.089	0.092	0.092

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table G1

```
#generate peace years and cubic splines for new dependent variable

btscs midinit_war year dyad_id, g(peaceyrs) nspline(3)

eststo M1: probit midinit_war ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

#ovinstfirc10 and ovrestfirc10 perfectly predict zero.

eststo M2: probit midinit_war ovleaderfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

#ovdmzfirc10 and ovdmzfircall perfectly predict zero.

eststo M3: probit midinit_war ovleaderfirc10dmz cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 M3 using tab3.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc10 ovleaderfirc10 ovinstfircall ovleaderfirc10dmz)
```

Table G2. Overt FIRC, War, 5 Years

	(1) midinit_war	(2) midinit_war	(3) midinit_war
ovfirc5	0.46*		
	(0.20)		
ovleaderfirc5		0.75***	
		(0.22)	
ovleaderfirc5dmz			0.69**
			(0.22)
cap_1	2.02***	2.04***	2.03***
	(0.43)	(0.43)	(0.43)
cap_2	1.57**	1.58**	1.57**
	(0.49)	(0.49)	(0.49)
capshare_1	0.12	0.12	0.12
	(0.10)	(0.10)	(0.10)
s_wt_glo	-0.02	-0.02	-0.02
	(0.10)	(0.10)	(0.10)
s_ld_1	0.14	0.13	0.14
	(0.14)	(0.14)	(0.14)
s_ld_2	0.17	0.16	0.16
	(0.14)	(0.14)	(0.14)
lndistance	-0.07***	-0.07***	-0.07***
	(0.01)	(0.01)	(0.01)
democracy1	0.10	0.10	0.10
	(0.07)	(0.07)	(0.07)
democracy2	0.09	0.08	0.09
	(0.11)	(0.11)	(0.11)
democracy1_2	-0.73***	-0.72***	-0.72***
	(0.16)	(0.16)	(0.16)
peaceyrs	-0.05***	-0.05***	-0.05***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00*	-0.00*	-0.00*
	(0.00)	(0.00)	(0.00)
_cons	-2.86***	-2.87***	-2.87***
	(0.14)	(0.15)	(0.15)
N	180498	180498	180498
pseudo R-sq	0.089	0.091	0.091

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table G2

```
eststo M1: probit midinit_war ovfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

#ovinstfirc5 and ovrestfirc5 perfectly predict zero.

eststo M2: probit midinit_war ovleaderfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit midinit_war ovleaderfirc5dmz cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 M3 using tab4.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc5 ovleaderfirc5 ovleaderfirc5dmz)
```

Table G3. Covert FIRC, War, 10 Years

	(1) midinit_war	(2) midinit_war	(3) midinit_war
covertfirc	0.70***		
	(0.18)		
covfirc10		0.37+	
		(0.22)	
covleaderfirc10			0.41+
			(0.22)
cap_1	1.99***	2.05***	2.04***
	(0.42)	(0.43)	(0.43)
cap_2	1.52**	1.60**	1.59**
	(0.49)	(0.49)	(0.49)
capshare_1	0.13	0.13	0.13
	(0.10)	(0.10)	(0.10)
s_wt_glo	-0.00	-0.00	-0.00
	(0.10)	(0.10)	(0.10)
s_ld_1	0.13	0.13	0.13
	(0.13)	(0.14)	(0.14)
s_ld_2	0.19	0.18	0.18
	(0.13)	(0.13)	(0.13)
lndistance	-0.08***	-0.08***	-0.08***
	(0.01)	(0.01)	(0.01)
democracy1	0.09	0.10	0.10
	(0.08)	(0.07)	(0.07)
democracy2	0.07	0.08	0.08
	(0.11)	(0.11)	(0.11)
democracy1_2	-0.71***	-0.72***	-0.71***
	(0.16)	(0.16)	(0.16)
peaceyrs	-0.05***	-0.05***	-0.05***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00*	-0.00*	-0.00*
	(0.00)	(0.00)	(0.00)
_cons	-2.86***	-2.87***	-2.87***
	(0.15)	(0.14)	(0.14)
N	180498	180498	180498
pseudo R-sq	0.090	0.087	0.087

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table G3

```
eststo M1: probit midinit_war covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

eststo M2: probit midinit_war covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

# covinstfirc10 perfectly predicts zero.

eststo M3: probit midinit_war covleaderfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 M3 using covwar10.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covertfirc covfirc10 covleaderfirc10)
```

Table G4. Covert FIRC, Wars, 5 Years

	(1) midinit_war	(2) midinit_war
covfirc5	0.45	
	(0.30)	
covleaderfirc5		0.49
		(0.31)
cap_1	2.05***	2.04***
	(0.42)	(0.42)
cap_2	1.60**	1.60**
	(0.49)	(0.49)
capshare_1	0.13	0.13
	(0.10)	(0.10)
s_wt_glo	-0.01	-0.01
	(0.10)	(0.10)
s_ld_1	0.13	0.13
	(0.14)	(0.14)
s_ld_2	0.18	0.18
	(0.13)	(0.13)
lndistance	-0.08***	-0.08***
	(0.01)	(0.01)
democracy1	0.10	0.10
	(0.07)	(0.07)
democracy2	0.08	0.08
	(0.11)	(0.11)
democracy1_2	-0.72***	-0.72***
	(0.16)	(0.16)
peaceyrs	-0.05***	-0.05***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00*	-0.00*
	(0.00)	(0.00)
_cons	-2.86***	-2.87***
	(0.14)	(0.14)
N	180498	180498
pseudo R-sq	0.087	0.087

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table G4

```
eststo M1: probit midinit_war covfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

#covinstfirc5 perfectly predicts zero.

eststo M2: probit midinit_war covleaderfirc5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 using covwar5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfirc5 covleaderfirc5)
```

Table G5. Covert FIRC, War, Successes and Failures, 10 Years

	(1) midinit_war	(2) midinit_war
covfircfail10	0.48*	
	(0.23)	
covleadfircfail10		0.51*
		(0.23)
cap_1	2.05***	2.05***
	(0.43)	(0.43)
cap_2	1.59**	1.59**
	(0.49)	(0.49)
capshare_1	0.13	0.13
	(0.10)	(0.10)
s_wt_glo	0.00	0.00
	(0.10)	(0.10)
s_ld_1	0.13	0.13
	(0.14)	(0.14)
s_ld_2	0.18	0.19
	(0.13)	(0.13)
lndistance	-0.08***	-0.08***
	(0.01)	(0.01)
democracy1	0.10	0.10
	(0.07)	(0.07)
democracy2	0.08	0.08
	(0.11)	(0.11)
democracy1_2	-0.71***	-0.71***
	(0.16)	(0.16)
peaceyrs	-0.05***	-0.05***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00*	-0.00*
	(0.00)	(0.00)
_cons	-2.87***	-2.87***
	(0.14)	(0.14)
N	180498	180498
pseudo R-sq	0.088	0.088

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table G5

```
#covfircsucc10, covleadfircsucc10, and covinstfircsucc10 all perfectly predict zero.

eststo M1: probit midinit_war covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

#covinstfircfail10 perfectly predicts zero.

eststo M2: probit midinit_war covleadfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 using covsuccfailwar10.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircfail10 covleadfircfail10)
```

Table G6. Covert FIRC, War, Successes and Failures, 5 Years

	(1) midinit_war	(2) midinit_war
covfircfail5	0.56+	
	(0.32)	
covleadfircfail5		0.61+
		(0.33)
cap_1	2.05***	2.05***
	(0.43)	(0.43)
cap_2	1.60**	1.60**
	(0.49)	(0.49)
capshare_1	0.13	0.13
	(0.10)	(0.10)
s_wt_glo	-0.00	-0.00
	(0.10)	(0.10)
s_ld_1	0.13	0.13
	(0.14)	(0.14)
s_ld_2	0.18	0.18
	(0.13)	(0.13)
lndistance	-0.08***	-0.08***
	(0.01)	(0.01)
democracy1	0.10	0.10
	(0.07)	(0.07)
democracy2	0.08	0.08
	(0.11)	(0.11)
democracy1_2	-0.71***	-0.71***
	(0.16)	(0.16)
peaceyrs	-0.05***	-0.05***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00*	-0.00*
	(0.00)	(0.00)
_cons	-2.87***	-2.87***
	(0.14)	(0.14)
N	180498	180498
pseudo R-sq	0.088	0.088

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table G6

```
#covfircsucc5, covleadfircsucc5, and covinstfircsucc5 all perfectly predict zero.

eststo M1: probit midinit_war covfircfail5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

#covinstfircfail5 perfectly predicts zero.

eststo M2: probit midinit_war covleadfircfail5 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 using covsuccfailwar5.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircfail5 covleadfircfail5)
```

APPENDIX H. ANALYSIS OF COVERT FIRC EXCLUDING NON-U.S. DYADS

Table H1. Analysis of Covert FIRC Restricted to Dyads Including the United States

	(1) cwinit	(2) cwinit	(3) cwinit	(4) cwinit	(5) cwinit
covertfirc	0.49***				
	(0.14)				
covfirc10		0.23*			
		(0.09)			
covleaderfirc10			0.20*		
			(0.10)		
covinstfirc10			0.37+		
			(0.21)		
covfircsucc10				-0.04	
				(0.25)	
covfircfail10				0.31**	
				(0.10)	
covleadfircsucc10					0.03
					(0.26)
covleadfircfail10					0.24*
					(0.11)
covinstfircfail10					0.64***
					(0.18)
cap_1	0.80	0.96	0.96	0.97	1.00
	(0.90)	(0.95)	(0.95)	(0.95)	(0.96)
cap_2	1.56*	1.79*	1.79*	1.80*	1.80*
	(0.67)	(0.73)	(0.73)	(0.73)	(0.73)
capshare_1	0.25	0.27	0.27	0.27	0.26
	(0.31)	(0.35)	(0.35)	(0.34)	(0.34)
s_wt_glo	-0.63***	-0.59***	-0.60***	-0.57**	-0.58***
	(0.19)	(0.17)	(0.17)	(0.17)	(0.17)
s_ld_1	0.18	0.11	0.11	0.12	0.11
	(0.24)	(0.24)	(0.24)	(0.24)	(0.24)
s_ld_2	0.32	0.26	0.25	0.26	0.25
	(0.23)	(0.23)	(0.23)	(0.23)	(0.23)
lndistance	-0.13***	-0.13***	-0.13***	-0.13***	-0.13***
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
democracy1	-0.42***	-0.43***	-0.43***	-0.42***	-0.42***
	(0.13)	(0.13)	(0.13)	(0.13)	(0.13)
democracy2	-0.55***	-0.55***	-0.55***	-0.55***	-0.55***
	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)
peaceyrs	-0.06***	-0.06***	-0.06***	-0.06***	-0.06***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
_spline1	-0.00	-0.00	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00	0.00	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	0.00	0.00	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)

_cons	-0.88*	-0.85*	-0.83*	-0.88*	-0.85*
	(0.35)	(0.35)	(0.35)	(0.35)	(0.35)
N	20600	20600	20600	20600	20600
pseudo R-sq	0.196	0.190	0.190	0.192	0.192

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table H1

```
eststo M1: probit cwinit covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 peaceyrs _spline1 _spline2 _spline3 if ccode1==2 | ccode2==2, robust
cluster(dyad_id)

eststo M2: probit cwinit covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 peaceyrs _spline1 _spline2 _spline3 if ccode1==2 | ccode2==2, robust
cluster(dyad_id)

eststo M3: probit cwinit covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 peaceyrs _spline1 _spline2 _spline3 if ccode1==2 |
ccode2==2, robust cluster(dyad_id)

eststo M4: probit cwinit covfircsucc10 covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 peaceyrs _spline1 _spline2 _spline3 if ccode1==2 |
ccode2==2, robust cluster(dyad_id)

eststo M5: probit cwinit covleadfircsucc10 covleadfircfail10 covinstfircfail10 cap_1 cap_2
capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 peaceyrs _spline1 _spline2
_spline3 if ccode1==2 | ccode2==2, robust cluster(dyad_id)

esttab M1 M2 M3 M4 M5 using covfircus.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covertfirc covfirc10 covleaderfirc10 covinstfirc10 covfircsucc10 covfircfail10
covleadfircsucc10 covleadfircfail10 covinstfircfail10)
```

APPENDIX I. TESTS FOR NON-INDEPENDENCE OF DYADS

Part 1. Eric Neumayer and Thomas Plümper's Spatial Lag Technique[1]

Table I1. Overt FIRC and MIDs, Controlling for Different Types of Aggregate Source Contagion

	ik	*ki*	*im*	*mi*
Overt Leadership FIRC	0.26*	0.26*	0.26*	0.26*
	(0.11)	(0.11)	(0.11)	(0.11)
Overt Institutional FIRC	-0.48	-0.48	-0.48	-0.48
	(0.37)	(0.37)	(0.37)	(0.37)
Overt Restoration FIRC	-0.89**	-0.90**	-0.89**	-0.89**
	(0.34)	(0.34)	(0.34)	(0.34)
Spatial Lag Variable	10.24	11.79	-4.19	-3.72
	(16.34)	(16.20)	(11.62)	(11.76)

Table I2. Overt FIRC and MIDs, Controlling for Different Types of Aggregate Target Contagion

	jm	*mj*	*jk*	*kj*
Overt Leadership FIRC	0.26*	0.26*	0.26*	0.26*
	(0.11)	(0.11)	(0.11)	(0.11)
Overt Institutional FIRC	-0.48	-0.48	-0.48	-0.48
	(0.37)	(0.37)	(0.37)	(0.37)
Overt Restoration FIRC	-0.89**	-0.89**	-0.89**	-0.89**
	(0.34)	(0.34)	(0.34)	(0.34)
Spatial Lag Variable	4.97	6.78	-8.12	-7.94
	(13.33)	(13.42)	(15.90)	(15.96)

Table I3. Covert FIRC and MIDs, Controlling for Different Types of Aggregate Source Contagion

	ik	*ki*	*im*	*mi*
Covert FIRC	0.42***	0.42***	0.41***	0.41***
	(0.09)	(0.09)	(0.09)	(0.09)
Spatial Lag Variable	12.23	13.64	-2.27	-1.81
	(16.43)	(16.27)	(11.69)	(11.84)

Table I4. Covert FIRC and MIDs, Controlling for Different Types of Aggregate Target Contagion

	jm	*mj*	*jk*	*kj*
Covert FIRC	0.42***	0.42***	0.41***	0.41***
	(0.09)	(0.09)	(0.09)	(0.09)
Spatial Lag Variable	6.66	8.47	-6.81	-6.75
	(13.35)	(13.43)	(15.95)	(16.02)

Table I5. Covert Leadership and Institutional FIRC and MIDs, Controlling for Different Types of Aggregate Source Contagion

	ik	*ki*	*im*	*mi*
Covert Leadership FIRC	0.40***	0.40***	0.39***	0.39***
	(0.10)	(0.10)	(0.10)	(0.10)
Covert Institutional FIRC	0.44*	0.44*	0.44*	0.44*
	(0.22)	(0.22)	(0.22)	(0.22)
Spatial Lag Variable	12.13	13.54	-2.35	-1.89
	(16.42)	(16.26)	(11.68)	(11.83)

[1] Eric Neumayer and Thomas Plümper, "Making Spatial Analysis Operational: Commands for Generating Spatial-Effect Variables in Monadic and Dyadic Data," *The Stata Journal*, Vol. 10, No. 4 (2010), pp. 1-21.

Table I6. Covert Leadership and Institutional FIRC and MIDs, Controlling for Different Types of Aggregate Target Contagion

	jm	*mj*	*jk*	*kj*
Covert Leadership FIRC	0.40***	0.40***	0.39***	0.39***
	(0.10)	(0.10)	(0.10)	(0.10)
Covert Institutional FIRC	0.44*	0.45*	0.44*	0.44*
	(0.22)	(0.22)	(0.22)	(0.22)
Spatial Lag Variable	6.58	8.39	-6.91	-6.84
	(13.34)	(13.43)	(15.95)	(16.01)

Table I7. Failed Covert Leadership and Institutional FIRC and MIDs, Controlling for Different Types of Aggregate Source Contagion

	ik	*ki*	*im*	*mi*
Failed Covert Leadership FIRC	0.49***	0.50***	0.48***	0.49***
	(0.10)	(0.10)	(0.10)	(0.10)
Failed Covert Institutional FIRC	0.74***	0.74***	0.73***	0.73***
	(0.16)	(0.16)	(0.16)	(0.16)
Spatial Lag Variable	12.27	13.67	-2.27	-1.82
	(16.42)	(16.27)	(11.68)	(11.83)

Table I8. Failed Covert Leadership and Institutional FIRC and MIDs, Controlling for Different Types of Aggregate Target Contagion

	jm	*mj*	*jk*	*kj*
Failed Covert Leadership FIRC	0.49***	0.49***	0.48***	0.48***
	(0.11)	(0.11)	(0.10)	(0.10)
Failed Covert Institutional FIRC	0.74***	0.74***	0.73***	0.73***
	(0.16)	(0.16)	(0.16)	(0.16)
Spatial Lag Variable	6.67	8.48	-6.81	-6.74
	(13.35)	(13.44)	(15.96)	(16.03)

Part 2: Aranow, Samii, and Assenova's Cluster-Robust Variance Estimation Technique[2]

Table I9. FIRC and MIDs Using the Cluster-Robust Variance Estimator

	1	2	3	4	5
Overt Leadership FIRC	*0.26+ (0.15)*	–	–	–	–
Overt Institutional FIRC	-0.48 (0.31)	–	–	–	–
Overt Restoration FIRC	-0.88** (0.31)	–	–	–	–
Covert FIRC	–	0.41*** (0.05)	–	–	–
Covert Leadership FIRC	–	–	0.40*** (0.06)	–	–
Covert Institutional FIRC	–	–	*0.44 (NaN)*	–	–
Failed Covert FIRC	–	–	–	0.53*** (0.05)	–
Failed Covert Leadership FIRC	–	–	–	–	0.49*** (0.06)
Failed Covert Institutional FIRC	–	–	–	–	*0.73 (NaN)*
Material Capabilities, Side A	1.77*** (0.30)	1.72*** (0.31)	1.72*** (0.31)	1.72*** (0.31)	1.72*** (0.31)
Material Capabilities, Side B	*1.51** (0.50)*	*1.46** (0.50)*	*1.47** (0.50)*	*1.47** (0.50)*	*1.47** (0.50)*
Side A's Proportion of Dyadic Capabilities	0.16** (0.06)	0.16** (0.06)	0.16** (0.06)	0.16** (0.06)	0.16** (0.06)
Dyadic S Score	*-0.10 (0.13)*	*-0.10 (0.13)*	*-0.10 (0.13)*	*-0.09 (0.13)*	*-0.09 (0.13)*
Side A's S Score with System Leader	-0.03 (0.06)	-0.03 (0.07)	-0.03 (0.07)	-0.03 (0.07)	-0.03 (0.07)
Side B's S Score with System Leader	0.05 (0.06)	0.05 (0.06)	0.05 (0.06)	0.05 (0.06)	0.05 (0.06)
Logged Distance between Capitals	-0.09*** (0.01)	-0.09*** (0.01)	-0.09*** (0.01)	-0.09*** (0.01)	-0.09*** (0.01)
Democracy, Side A	*0.09 (0.08)*	*0.09 (0.08)*	*0.09 (0.08)*	*0.09 (0.08)*	*0.09 (0.08)*
Democracy, Side B	*0.14* (0.07)*	*0.14* (0.07)*	*0.14* (0.07)*	*0.14* (0.07)*	*0.14* (0.07)*
Joint Democracy	-0.47*** (0.10)	-0.47*** (0.10)	-0.47*** (0.10)	-0.47*** (0.10)	-0.47*** (0.10)
Constant	-1.49*** (0.15)	-1.49*** (0.15)	-1.49*** (0.15)	-1.50*** (0.15)	-1.50*** (0.15)
Wald Chi2	1158.11***	1147.58	1146.84	1162.86	1165.86
Pseudo-R2	0.13	0.13	0.13	0.13	0.13
Log pseudo-likelihood	-9987.56	-9991.15	-9991.80	-9987.74	-9988.28

NOTE: Italics indicate changes in level of statistical significance. NaN stands for "not a number," and means that the cluster robust variance estimator was unable to estimate the standard error for the variable in question. This occurs for covert institutional FIRC and failed covert institutional FIRC, each of which has relatively few cases (ten for the former, five for the latter). This methods thus confirms our finding in the article that the effect of covert institutional FIRC is not robust.

The code used to produce the estimates in Table I9 is available online at https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/OMJYE5.

[2] Peter M. Aranow, Cyrus Samii, and Valentina A Assenova, "Cluster-Robust Variance Estimation for Dyadic Data," *Political Analysis*, Vol. 23, No. 4 (2015), pp. 564-577.

APPENDIX J. RARE EVENTS LOGIT

Table J1. Relogit, Overt FIRC, All MIDs, 10 Years

	(1) cwinit	(2) cwinit
ovfirc10	-0.15	
	(0.23)	
ovleaderfirc10		0.50*
		(0.24)
ovinstfirc10		-0.95
		(0.98)
ovrestfirc10		-1.97*
		(0.99)
cap_1	4.08***	4.13***
	(0.63)	(0.63)
cap_2	3.63***	3.64***
	(0.71)	(0.71)
capshare_1	0.41**	0.41**
	(0.13)	(0.14)
s_wt_glo	-0.18	-0.18
	(0.11)	(0.11)
s_ld_1	-0.07	-0.09
	(0.18)	(0.18)
s_ld_2	0.04	0.03
	(0.18)	(0.18)
lndistance	-0.23***	-0.23***
	(0.01)	(0.01)
democracy1	0.26**	0.25**
	(0.09)	(0.09)
democracy2	0.40***	0.40***
	(0.10)	(0.10)
democracy1_2	-1.23***	-1.21***
	(0.15)	(0.15)
peaceyrs	-0.21***	-0.21***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00	-0.00
	(0.00)	(0.00)
_cons	-2.61***	-2.61***
	(0.17)	(0.17)
N	180498	180498
pseudo R-sq		

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table J1

```
eststo M1: relogit cwinit ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, cluster(dyad_id)

eststo M2: relogit cwinit ovleaderfirc10 ovinstfirc10 ovrestfirc10 cap_1 cap_2 capshare_1
s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2
_spline3, cluster(dyad_id)

esttab M1 M2 using ovremid.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(ovfirc10 ovleaderfirc10 ovinstfirc10 ovrestfirc10)
```

Table J2. Relogit, Covert FIRC, All MIDs, 10 Years, Part 1

	(1) cwinit	(2) cwinit	(3) cwinit
covertfirc	1.32***		
	(0.30)		
covfirc10		0.98***	
		(0.20)	
covleaderfirc10			0.94***
			(0.22)
covinstfirc10			1.39**
			(0.53)
cap_1	3.97***	4.02***	4.02***
	(0.63)	(0.63)	(0.63)
cap_2	3.44***	3.53***	3.53***
	(0.71)	(0.72)	(0.71)
capshare_1	0.41**	0.41**	0.41**
	(0.13)	(0.13)	(0.13)
s_wt_glo	-0.17	-0.16	-0.16
	(0.11)	(0.11)	(0.11)
s_ld_1	-0.07	-0.08	-0.08
	(0.17)	(0.17)	(0.17)
s_ld_2	0.05	0.05	0.05
	(0.17)	(0.17)	(0.17)
lndistance	-0.23***	-0.23***	-0.23***
	(0.01)	(0.01)	(0.01)
democracy1	0.24*	0.24*	0.24*
	(0.10)	(0.10)	(0.10)
democracy2	0.39***	0.39***	0.39***
	(0.11)	(0.11)	(0.11)
democracy1_2	-1.21***	-1.21***	-1.21***
	(0.15)	(0.15)	(0.15)
peaceyrs	-0.21***	-0.21***	-0.21***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)
_cons	-2.61***	-2.63***	-2.63***
	(0.17)	(0.17)	(0.17)
N	180498	180498	180498
pseudo R-sq			

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table J2

```
eststo M1: relogit cwinit covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, cluster(dyad_id)

eststo M2: relogit cwinit covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, cluster(dyad_id)

eststo M3: relogit cwinit covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
cluster(dyad_id)

esttab M1 M2 M3 using covremid.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covertfirc covfirc10 covleaderfirc10 covinstfirc10)
```

Table J3. Relogit, Covert FIRC, All MIDs, 10 Years, Part 2 (Success and Failure)

	(1) cwinit	(2) cwinit	(3) cwinit
covfircsucc10	0.19		
	(0.69)		
covfircfail10	1.18***		
	(0.22)		
covleadfircsucc10		0.32	
		(0.69)	
covleadfircfail10			1.08***
			(0.24)
covinstfircfail10			1.95***
			(0.33)
cap_1	4.02***	4.06***	4.02***
	(0.63)	(0.63)	(0.63)
cap_2	3.53***	3.61***	3.54***
	(0.72)	(0.71)	(0.72)
capshare_1	0.41**	0.41**	0.41**
	(0.13)	(0.13)	(0.13)
s_wt_glo	-0.15	-0.18	-0.15
	(0.11)	(0.11)	(0.11)
s_ld_1	-0.08	-0.07	-0.08
	(0.17)	(0.18)	(0.17)
s_ld_2	0.05	0.04	0.05
	(0.17)	(0.18)	(0.17)
lndistance	-0.22***	-0.23***	-0.22***
	(0.01)	(0.01)	(0.01)
democracy1	0.24*	0.26**	0.24*
	(0.10)	(0.09)	(0.10)
democracy2	0.39***	0.41***	0.39***
	(0.11)	(0.10)	(0.11)
democracy1_2	-1.20***	-1.23***	-1.20***
	(0.15)	(0.15)	(0.15)
peaceyrs	-0.21***	-0.21***	-0.21***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)
_cons	-2.64***	-2.61***	-2.63***
	(0.17)	(0.17)	(0.17)
N	180498	180498	180498
pseudo R-sq			

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table J3

```
eststo M1: relogit cwinit covfircsucc10 covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
cluster(dyad_id)

#covinstfircsucc10 perfectly predicts zero.

eststo M2: relogit cwinit covleadfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
cluster(dyad_id)

eststo M3: relogit cwinit covleadfircfail10 covinstfircfail10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
cluster(dyad_id)

esttab M1 M2 M3 using covsuccfailremid.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircsucc10 covfircfail10 covleadfircsucc10 covleadfircfail10 covinstfircfail10)
```

APPENDIX K. FIXED EFFECTS MODELS

Table K1. Overt FIRC with Fixed Effects

	(1) cwinit	(2) cwinit
ovfirc10	-0.15	
	(0.21)	
ovleaderfirc10		0.34
		(0.23)
ovinstfirc10		-1.15
		(0.75)
ovrestfirc10		-2.35*
		(1.02)
cap_1	2.22**	2.24**
	(0.82)	(0.82)
cap_2	1.16	1.14
	(1.02)	(1.02)
capshare_1	0.48	0.48
	(0.37)	(0.37)
s_wt_glo	-0.64***	-0.63***
	(0.12)	(0.12)
s_ld_1	-0.50**	-0.51**
	(0.16)	(0.16)
s_ld_2	0.32+	0.32+
	(0.17)	(0.17)
lndistance	-0.12***	-0.13***
	(0.03)	(0.03)
democracy1	0.02	0.01
	(0.10)	(0.10)
democracy2	0.29**	0.29**
	(0.09)	(0.09)
democracy1_2	-0.55***	-0.55***
	(0.14)	(0.14)
peaceyrs	-0.13***	-0.13***
	(0.01)	(0.01)
_spline1	-0.00***	-0.00***
	(0.00)	(0.00)
_spline2	0.00***	0.00***
	(0.00)	(0.00)
_spline3	-0.00***	-0.00***
	(0.00)	(0.00)
N	55233	55233
pseudo R-sq	0.030	0.032

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table K1

```
eststo M1: xtlogit cwinit ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, fe

eststo M2: xtlogit cwinit ovleaderfirc10 ovinstfirc10 ovrestfirc10 cap_1 cap_2 capshare_1
s_wt_glo s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2
_spline3, fe

esttab M1 M2 using ovfe.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001) order(ovfirc10
ovleaderfirc10 ovinstfirc10 ovrestfirc10)
```

Table K2. Fixed Effects Models: Covert FIRC, Part 1

	(1) cwinit	(2) cwinit	(3) cwinit
covertfirc	0.60*		
	(0.24)		
covfirc10		0.37+	
		(0.22)	
covleaderfirc10			0.30
			(0.23)
covinstfirc10			0.66
			(0.79)
cap_1	2.18**	2.27**	2.28**
	(0.82)	(0.82)	(0.82)
cap_2	0.99	1.16	1.16
	(1.03)	(1.03)	(1.02)
capshare_1	0.47	0.48	0.47
	(0.37)	(0.37)	(0.37)
s_wt_glo	-0.64***	-0.63***	-0.63***
	(0.12)	(0.12)	(0.12)
s_ld_1	-0.50**	-0.51**	-0.51**
	(0.16)	(0.16)	(0.16)
s_ld_2	0.34*	0.33+	0.33+
	(0.17)	(0.17)	(0.17)
lndistance	-0.13***	-0.12***	-0.12***
	(0.03)	(0.03)	(0.03)
democracy1	0.01	0.02	0.02
	(0.10)	(0.10)	(0.10)
democracy2	0.28**	0.29**	0.29**
	(0.09)	(0.09)	(0.09)
democracy1_2	-0.55***	-0.55***	-0.56***
	(0.14)	(0.14)	(0.14)
peaceyrs	-0.13***	-0.13***	-0.13***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
N	55233	55233	55233
pseudo R-sq	0.031	0.031	0.031

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table K2

```
eststo M1: xtlogit cwinit covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, fe

eststo M2: xtlogit cwinit covfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, fe

eststo M3: xtlogit cwinit covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, fe

esttab M1 M2 M3 using covfe.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covertfirc covfirc10 covleaderfirc10 covinstfirc10)
```

Table K3. Fixed Effects Models, Covert FIRC, Part 2 (Success And Failure)

	(1) cwinit	(2) cwinit	(3) cwinit
covfircsucc10	-0.83		
	(0.73)		
covfircfail10	0.60**		
	(0.23)		
covleadfircsucc10		-0.70	
		(0.73)	
covinstfircsucc10		-11.75	
		(471.50)	
covleadfircfail10			0.50*
			(0.24)
covinstfircfail10			1.73*
			(0.77)
cap_1	2.30**	2.18**	2.39**
	(0.82)	(0.82)	(0.82)
cap_2	1.17	1.16	1.14
	(1.03)	(1.02)	(1.03)
capshare_1	0.47	0.49	0.45
	(0.37)	(0.37)	(0.37)
s_wt_glo	-0.62***	-0.64***	-0.62***
	(0.12)	(0.12)	(0.12)
s_ld_1	-0.50**	-0.49**	-0.51**
	(0.16)	(0.16)	(0.16)
s_ld_2	0.32+	0.32+	0.33+
	(0.17)	(0.17)	(0.17)
lndistance	-0.12***	-0.12***	-0.12***
	(0.03)	(0.03)	(0.03)
democracy1	0.01	0.01	0.02
	(0.10)	(0.10)	(0.10)
democracy2	0.29**	0.29**	0.28**
	(0.09)	(0.09)	(0.09)
democracy1_2	-0.54***	-0.54***	-0.55***
	(0.14)	(0.14)	(0.14)
peaceyrs	-0.13***	-0.13***	-0.13***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
N	55233	55233	55233
pseudo R-sq	0.031	0.031	0.031

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table K3

```
eststo M1: xtlogit cwinit covfircsucc10 covfircfail10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, fe

eststo M2: xtlogit cwinit covleadfircsucc10 covinstfircsucc10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
fe

eststo M3: xtlogit cwinit covleadfircfail10 covinstfircfail10 cap_1 cap_2 capshare_1 s_wt_glo
s_ld_1 s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3,
fe

esttab M1 M2 M3 using covsffe.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(covfircsucc10 covfircfail10 covleadfircsucc10 covinstfircsucc10 covleadfircfail10
covinstfircfail10)
```

APPENDIX L. COMPARING 10 YEARS BEFORE FIRC TO 10 YEARS AFTER FIRC

Table L1. Overt FIRC, 10 Years Before vs. 10 Years After

	(1) cwinit	(2) cwinit	(3) cwinit	(4) cwinit
preovfirc10	0.42***			
	(0.07)			
ovfirc10	-0.06			
	(0.10)			
preleadfirc10		0.50***		
		(0.10)		
ovleaderfirc10		0.25*		
		(0.11)		
preinstfirc10			0.41***	
			(0.11)	
ovinstfirc10			-0.47	
			(0.37)	
prerestfirc10				0.23*
				(0.11)
ovrestfirc10				-0.89**
				(0.34)
cap_1	1.70***	1.72***	1.74***	1.75***
	(0.26)	(0.26)	(0.26)	(0.26)
cap_2	1.47***	1.48***	1.48***	1.50***
	(0.29)	(0.29)	(0.29)	(0.29)
capshare_1	0.16**	0.16**	0.16**	0.16**
	(0.05)	(0.05)	(0.05)	(0.05)
s_wt_glo	-0.10*	-0.10*	-0.10*	-0.10*
	(0.05)	(0.05)	(0.05)	(0.05)
s_ld_1	-0.03	-0.03	-0.03	-0.03
	(0.07)	(0.07)	(0.07)	(0.07)
s_ld_2	0.04	0.04	0.05	0.05
	(0.07)	(0.07)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)	(0.00)
democracy1	0.10*	0.09*	0.09*	0.09*
	(0.04)	(0.04)	(0.04)	(0.04)
democracy2	0.15***	0.15***	0.14***	0.14***
	(0.04)	(0.04)	(0.04)	(0.04)
democracy1_2	-0.48***	-0.47***	-0.47***	-0.47***
	(0.06)	(0.06)	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***	-0.09***	-0.09***
	(0.01)	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)
_cons	-1.49***	-1.49***	-1.49***	-1.49***
	(0.07)	(0.07)	(0.07)	(0.07)
N	180498	180498	180498	180498
pseudo R-sq	0.135	0.135	0.134	0.134

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table L1

```
eststo M1: probit cwinit preovfirc10 ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M2: probit cwinit preleadfirc10 ovleaderfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit cwinit preinstfirc10 ovinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M4: probit cwinit prerestfirc10 ovrestfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 M3 M4 using preovfirc.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(preovfirc10 ovfirc10 preleadfirc10 ovleaderfirc10 preinstfirc10 ovinstfirc10 prerestfirc10
ovrestfirc10)
```

Testing for Equality of Coefficients, 10 Years before vs. 10 Years after, Overt FIRC

```
probit cwinit preovfirc10 ovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

test ovfirc10 = preovfirc10

 ( 1)  - [cwinit]preovfirc10 + [cwinit]ovfirc10 = 0

           chi2(  1) =   20.43
         Prob > chi2 =    0.0000

probit cwinit preleadfirc10 ovleaderfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

test ovleaderfirc10 = preleadfirc10

( 1)  - [cwinit]preleadfirc10 + [cwinit]ovleaderfirc10 = 0

           chi2(  1) =    4.29
         Prob > chi2 =    0.0383


probit cwinit preinstfirc10 ovinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

test ovinstfirc10 = preinstfirc10

( 1)  - [cwinit]preinstfirc10 + [cwinit]ovinstfirc10 = 0

           chi2(  1) =    5.31
         Prob > chi2 =    0.0212


probit cwinit preresfirc10 ovrestfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

test ovrestfirc10 = preresfirc10

( 1)  - [cwinit]preresfirc10 + [cwinit]ovrestfirc10 = 0

           chi2(  1) =    9.15
         Prob > chi2 =    0.0025
```

Table L2. Covert FIRC, 10 Years before vs. 10 Years after

	(1) cwinit	(2) cwinit	(3) cwinit
precovfirc10	0.11		
	(0.12)		
covfirc10	0.40***		
	(0.09)		
precovleadfirc10		0.14	
		(0.14)	
covleaderfirc10		0.39***	
		(0.10)	
precovinstfirc10			0.23
			(0.22)
covinstfirc10			0.46*
			(0.21)
cap_1	1.71***	1.71***	1.74***
	(0.26)	(0.26)	(0.26)
cap_2	1.45***	1.45***	1.50***
	(0.29)	(0.29)	(0.29)
capshare_1	0.16**	0.16**	0.16**
	(0.05)	(0.05)	(0.05)
s_wt_glo	-0.10*	-0.10*	-0.11*
	(0.05)	(0.05)	(0.05)
s_ld_1	-0.03	-0.03	-0.03
	(0.07)	(0.07)	(0.07)
s_ld_2	0.05	0.05	0.05
	(0.07)	(0.07)	(0.07)
lndistance	-0.09***	-0.09***	-0.09***
	(0.00)	(0.00)	(0.00)
democracy1	0.09*	0.09*	0.09*
	(0.04)	(0.04)	(0.04)
democracy2	0.14**	0.14**	0.14***
	(0.04)	(0.04)	(0.04)
democracy1_2	-0.47***	-0.47***	-0.48***
	(0.06)	(0.06)	(0.06)
peaceyrs	-0.09***	-0.09***	-0.09***
	(0.01)	(0.01)	(0.01)
_spline1	-0.00***	-0.00***	-0.00***
	(0.00)	(0.00)	(0.00)
_spline2	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)
_spline3	-0.00	-0.00	-0.00
	(0.00)	(0.00)	(0.00)
_cons	-1.49***	-1.49***	-1.49***
	(0.07)	(0.07)	(0.07)
N	180498	180498	180498
pseudo R-sq	0.134	0.134	0.133

Standard errors in parentheses
+ p<0.10, * p<0.05, ** p<0.01, *** p<0.001

Code for Table L2

```
eststo M1: probit cwinit covfirc10 precovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M2: probit cwinit covleaderfirc10 precovleadfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

eststo M3: probit cwinit covinstfirc10 precovinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1
s_ld_2 lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

esttab M1 M2 M3 using precovfirc.tab, se(2) pr2 b(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
order(precovfirc10 covfirc10 precovleadfirc10 covleaderfirc10 precovinstfirc10 covinstfirc10)
```

Testing for Equality of Coefficients, 10 Years before vs. 10 Years after, Covert FIRC

```
probit cwinit covfirc10 precovfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust cluster(dyad_id)

test covfirc10 = precovfirc10

( 1)  [cwinit]covfirc10 - [cwinit]precovfirc10 = 0

           chi2(  1) =    3.43
         Prob > chi2 =    0.0640


probit cwinit covleaderfirc10 precovleadfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

test covleaderfirc10 = precovleadfirc10

( 1)  [cwinit]covleaderfirc10 - [cwinit]precovleadfirc10 = 0

           chi2(  1) =    2.24
         Prob > chi2 =    0.1346

probit cwinit covinstfirc10 precovinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2
lndistance democracy1 democracy2 democracy1_2 peaceyrs _spline1 _spline2 _spline3, robust
cluster(dyad_id)

test covinstfirc10 = precovinstfirc10

( 1)  [cwinit]covinstfirc10 - [cwinit]precovinstfirc10 = 0

           chi2(  1) =    0.50
         Prob > chi2 =    0.4816
```

APPENDIX M: MATCHING RESULTS

This appendix shows the results of genetic matching performed in R for each of the FIRC variables in our analysis. For each FIRC type, we show the summary of balance attained after matching; plots that visually display balance; and Stata output (t-tests and probit models) showing the effect of each type of FIRC after matching. As reported in the article, the only change in the results is that overt leadership FIRC becomes insignificant (although still positive) after matching is performed. Consistent with other robustness tests, covert institutional FIRC loses statistical significance as well.

The dependent variable in this analysis is a dummy variable signifying whether a MID occurred at any point during the ten years after the year in which FIRC occurred. It is necessary to use this variable since we can use only the actual FIRC-year for matching or else risk post-treatment bias. For overt FIRCs, coding is unproblematic, since these FIRCs all succeed in overturning the target government in a particular year. For covert FIRCs, we code the FIRC as occurring in the final year of the operation, whether it succeeded or failed. The dependent variable is then coded as starting in the following year (e.g., if a covert operation lasted from 1949 to 1954, it is coded for the purposes of matching as occurring in 1954, and we then assess the effect of the operation on MIDs occurring in 1955 and later).

To create the matched datasets, we excluded non-FIRC years from dyads that experienced FIRC to ensure that a dyad was not matched to itself in an earlier or later year. For example, in the dataset of overt leadership FIRCs used for matching, we excluded all years for the Vietnam-Cambodia (and Cambodia-Vietnam) dyad other than 1979, the year that FIRC occurred.

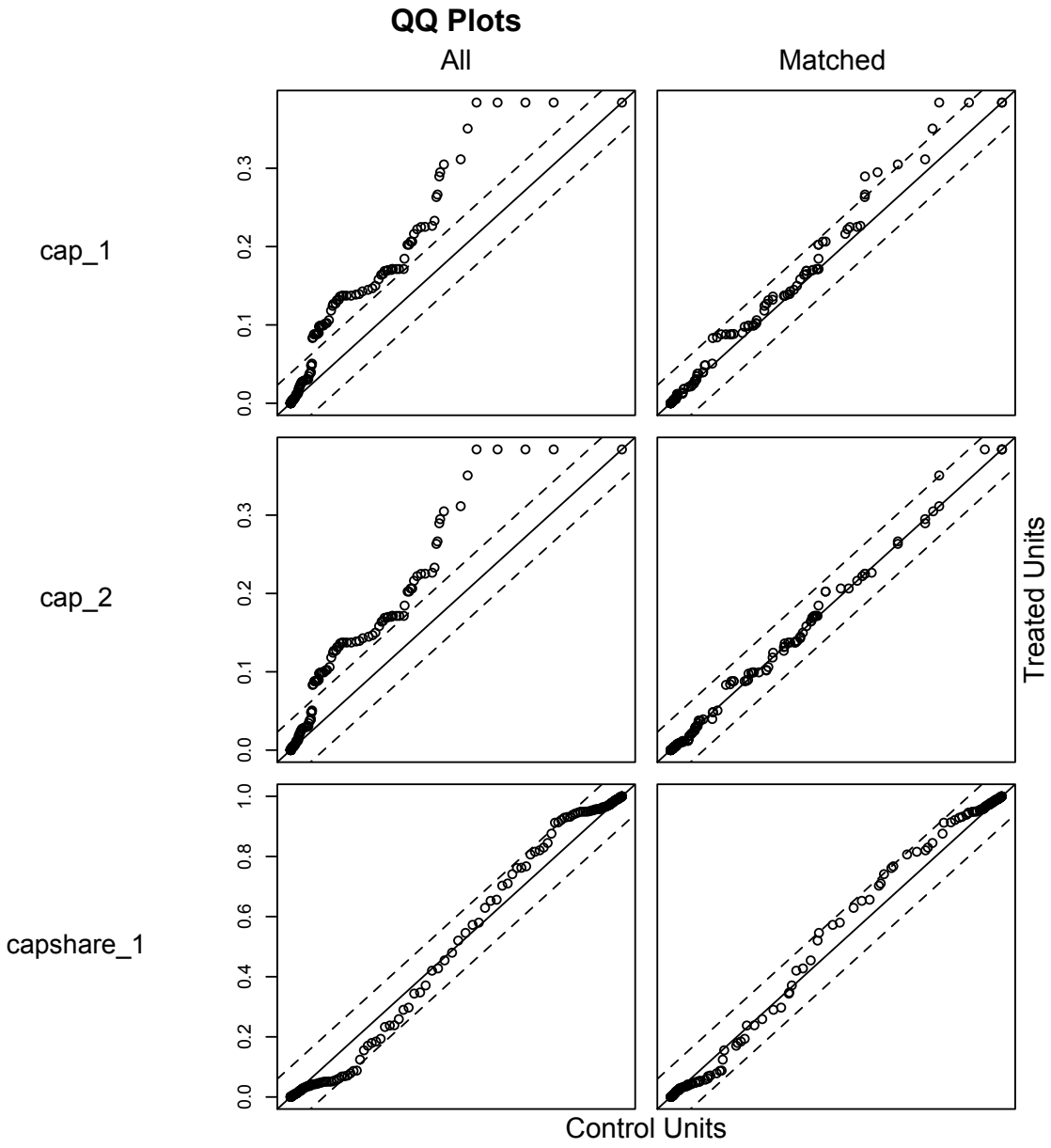
Careful readers may note that matching consistently worsens balance on the “capshare_1” variable. This is because balance on this variable was nearly perfect before matching. In all cases, matching only slightly increases the divergence in means between treated and control cases, but because the difference was essentially zero before matching, the percent change looks large.

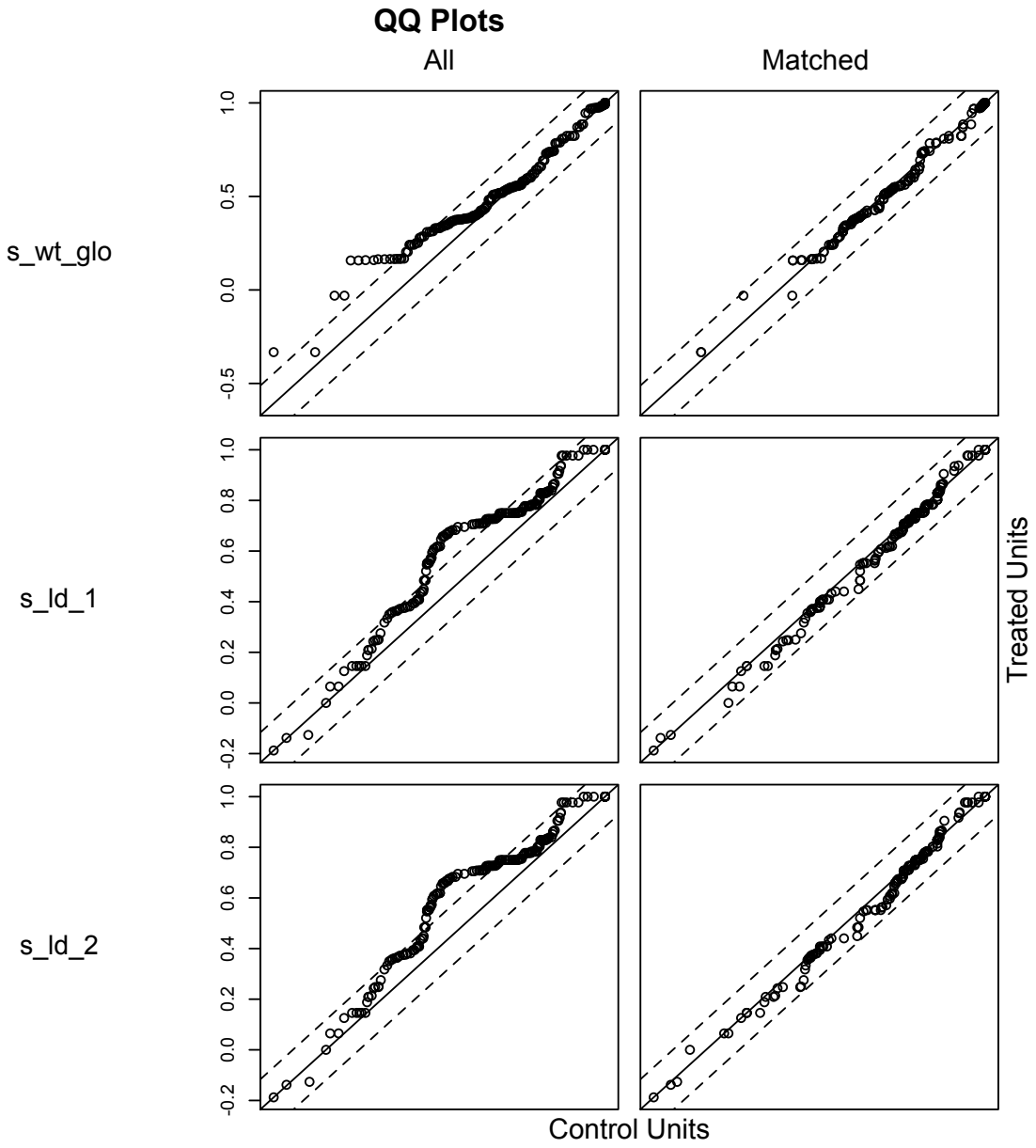
The matched datasets are available from the authors by request.

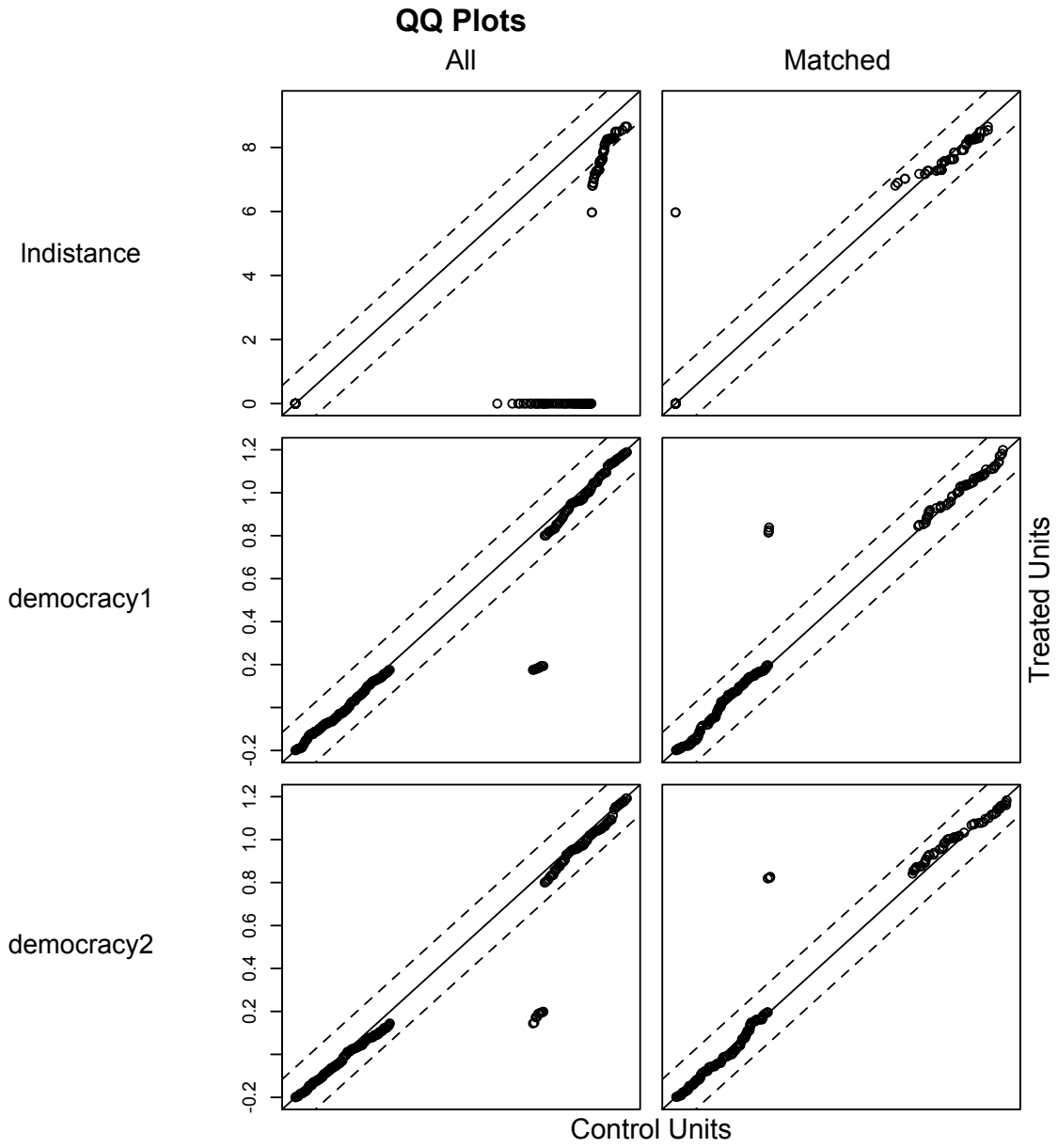
OVERT FIRC (ALL)

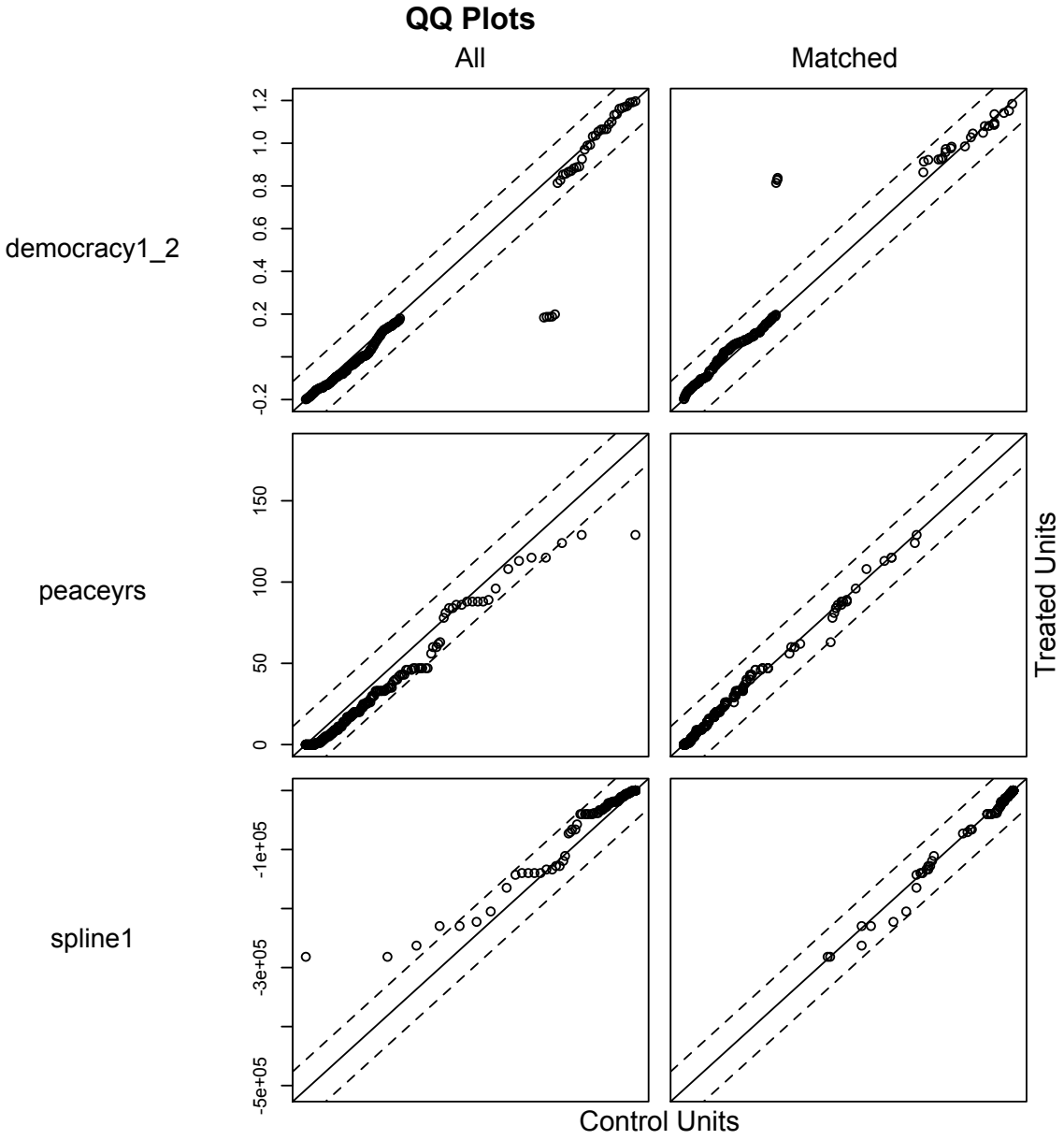
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

ovfirc=read.dta("ovfircmidformatchoct16.dta")

ovfirc.out1 <- matchit(overtfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=ovfirc, method="genetic", pop.size=200)

summary(ovfirc.out1)

Call:
matchit(formula = overtfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = ovfirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
             Means Treated Means Control  SD Control  Mean Diff   eQQ Med   eQQ Mean     eQQ Max
distance            0.0046        0.0011      0.0028     0.0035    0.0025     0.0042      0.1410
cap_1               0.0699        0.0409      0.0629     0.0290    0.0040     0.0280      0.1684
cap_2               0.0699        0.0410      0.0629     0.0289    0.0039     0.0280      0.1684
capshare_1          0.5000        0.4994      0.4166     0.0006    0.0102     0.0278      0.1143
s_wt_glo            0.5640        0.5143      0.3429     0.0496    0.0262     0.0596      0.3918
s_ld_1              0.6463        0.5475      0.2628     0.0988    0.0827     0.1002      0.2401
s_ld_2              0.6463        0.5476      0.2627     0.0986    0.0822     0.1001      0.2401
lndistance          3.0127        5.6123      3.8728    -2.5996    0.8820     2.6052      8.3859
democracy1          0.3421        0.3894      0.4876    -0.0473    0.0000     0.0474      1.0000
democracy2          0.3421        0.3899      0.4877    -0.0478    0.0000     0.0474      1.0000
democracy1_2        0.1579        0.1852      0.3884    -0.0273    0.0000     0.0263      1.0000
peaceyrs           24.4263       31.5617     31.4866    -7.1353    7.0000     7.6263     55.0000
spline1        -25770.6441   -34442.1502  65766.3654  8671.5061 4335.3038 10357.9327 225086.1875
spline2        -54403.2817   -73097.3456 154540.9513 18694.0639 6504.6338 22861.2056 568167.3750
spline3        -72894.1507   -98436.5444 236980.9187 25542.3937 5725.4406 32467.6665 991385.0000


Summary of balance for matched data:
             Means Treated Means Control  SD Control Mean Diff eQQ Med  eQQ Mean     eQQ Max
distance            0.0046        0.0046      0.0055    0.0000  0.0001    0.0003      0.0028
cap_1               0.0699        0.0692      0.0952    0.0007  0.0008    0.0065      0.0727
cap_2               0.0699        0.0695      0.0972    0.0004  0.0006    0.0028      0.0395
capshare_1          0.5000        0.5013      0.4309   -0.0013  0.0081    0.0202      0.0980
s_wt_glo            0.5640        0.5517      0.2890    0.0123  0.0113    0.0183      0.1420
s_ld_1              0.6463        0.6482      0.2499   -0.0019  0.0147    0.0193      0.0972
s_ld_2              0.6463        0.6499      0.2495   -0.0036  0.0112    0.0184      0.0924
lndistance          3.0127        2.9491      3.8492    0.0636  0.0000    0.1408      5.9713
democracy1          0.3421        0.3421      0.4758    0.0000  0.0000    0.0230      1.0000
democracy2          0.3421        0.3421      0.4758    0.0000  0.0000    0.0172      1.0000
democracy1_2        0.1579        0.1579      0.3657    0.0000  0.0000    0.0230      1.0000
peaceyrs           24.4263       24.4842     29.8438   -0.0579  1.0000    1.3391     19.0000
spline1        -25770.6441   -25895.1322  55877.9299  124.4881 35.3913 2099.8913  40144.7031
spline2        -54403.2817   -54807.5750 129218.0272  404.2933 32.5761 4645.9199  99309.9062
spline3        -72894.1507   -73750.5642 192294.2327  856.4134 27.9511 6446.9487 165873.9375

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean eQQ Max
distance        98.9045  94.3241  93.8151 98.0148
cap_1           97.4694  81.0928  76.9013 56.8305
cap_2           98.7652  84.1435  89.8233 76.5562
capshare_1    -103.8921  20.7948  27.4942 14.2281
s_wt_glo        75.3016  56.7158  69.2467 63.7568
s_ld_1          98.0998  82.2573  80.7625 59.5305
s_ld_2          96.3608  86.4315  81.6387 61.5216
lndistance      97.5547 100.0000  94.5956 28.7944
democracy1     100.0000   0.0000  51.4687  0.0000
democracy2     100.0000   0.0000  63.6015  0.0000
democracy1_2   100.0000   0.0000  12.6437  0.0000
peaceyrs        99.1886  85.7143  82.4413 65.4545
spline1         98.5644  99.1836  79.7267 82.1647
```

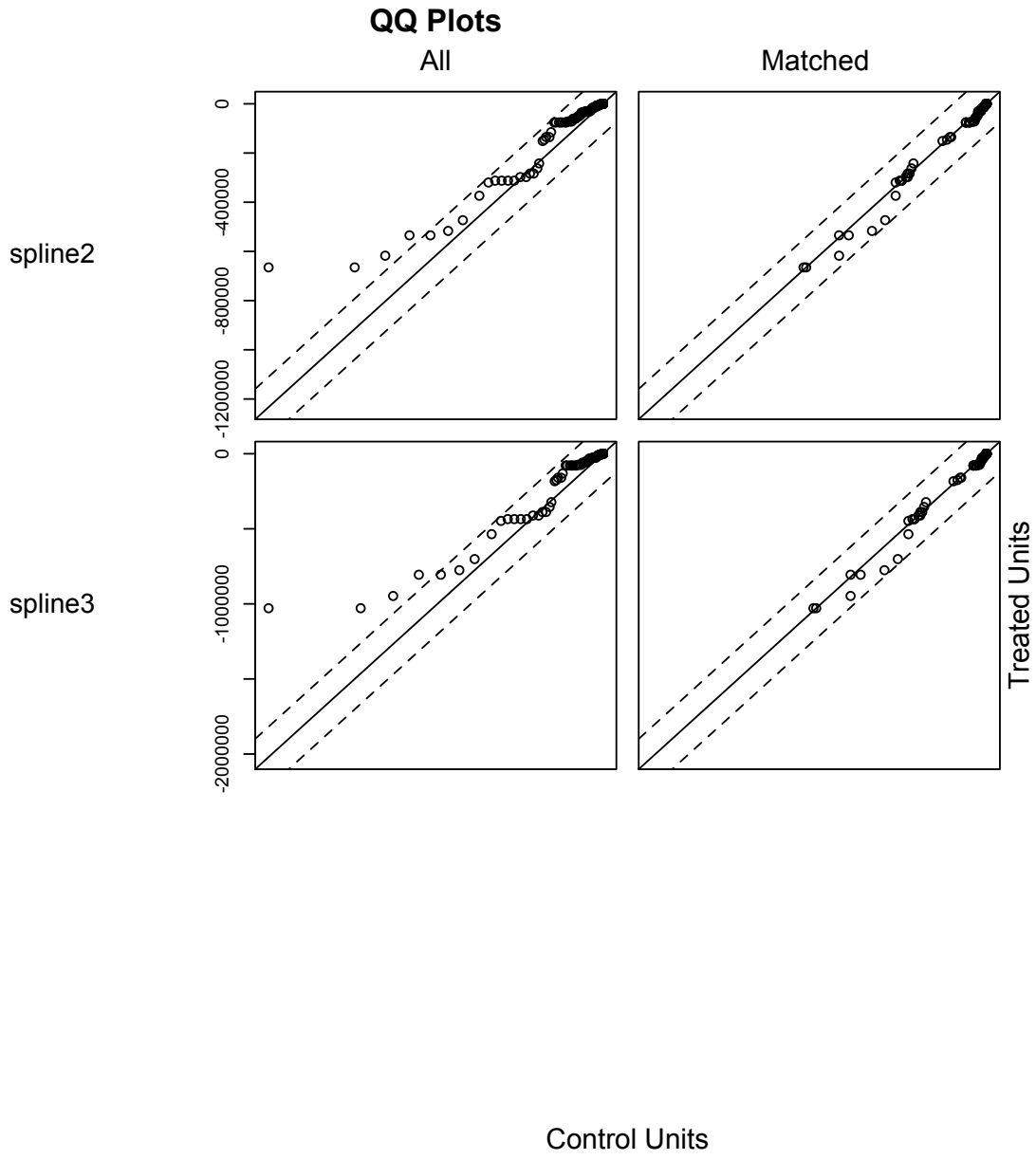
```
spline2         97.8373  99.4992  79.6777 82.5210
spline3         96.6471  99.5118  80.1435 83.2685

Sample sizes:
           Control Treated
All         166577     190
Matched        174     190
Unmatched   166403       0
Discarded        0       0
```

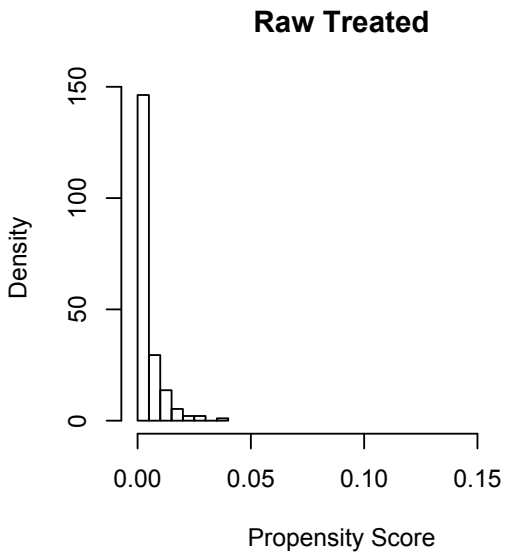


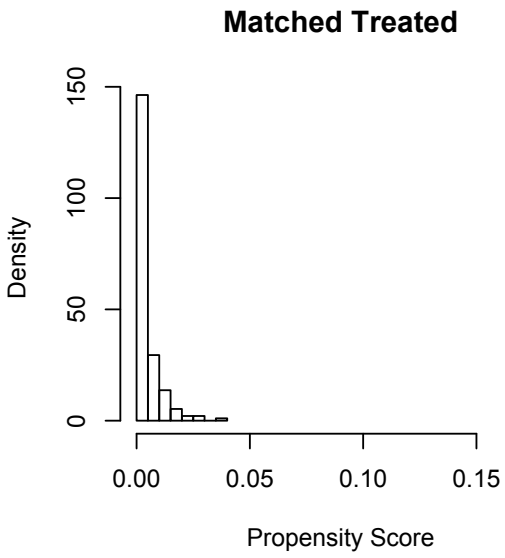

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

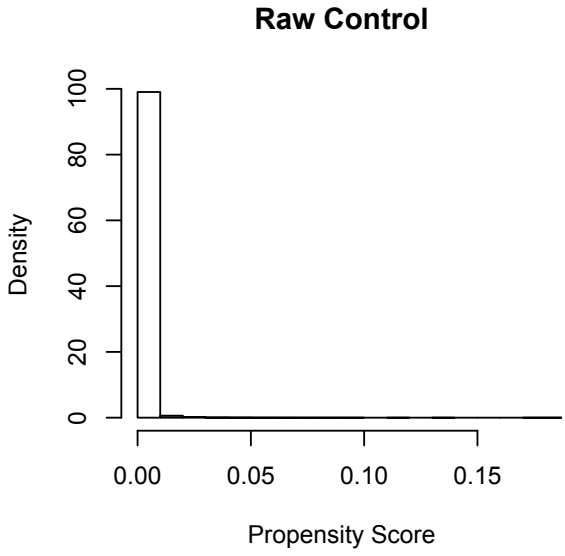

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

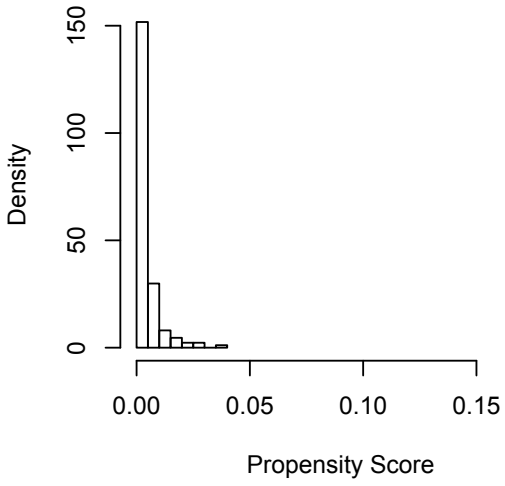

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
50
100
150
0.00
0.05
0.10
0.15
Propensity Score


Matched Treated
Density
0
50
100
150
0.00
0.05
0.10
0.15
Propensity Score


Raw Control
Density
0
20
40
60
80
100
0.00
0.05
0.10
0.15
Propensity Score


Matched Control
Density
0
50
100
150
0.00
0.05
0.10
0.15
Propensity Score

OVERT FIRC (ALL): ANALYSIS OF MATCHED DATA

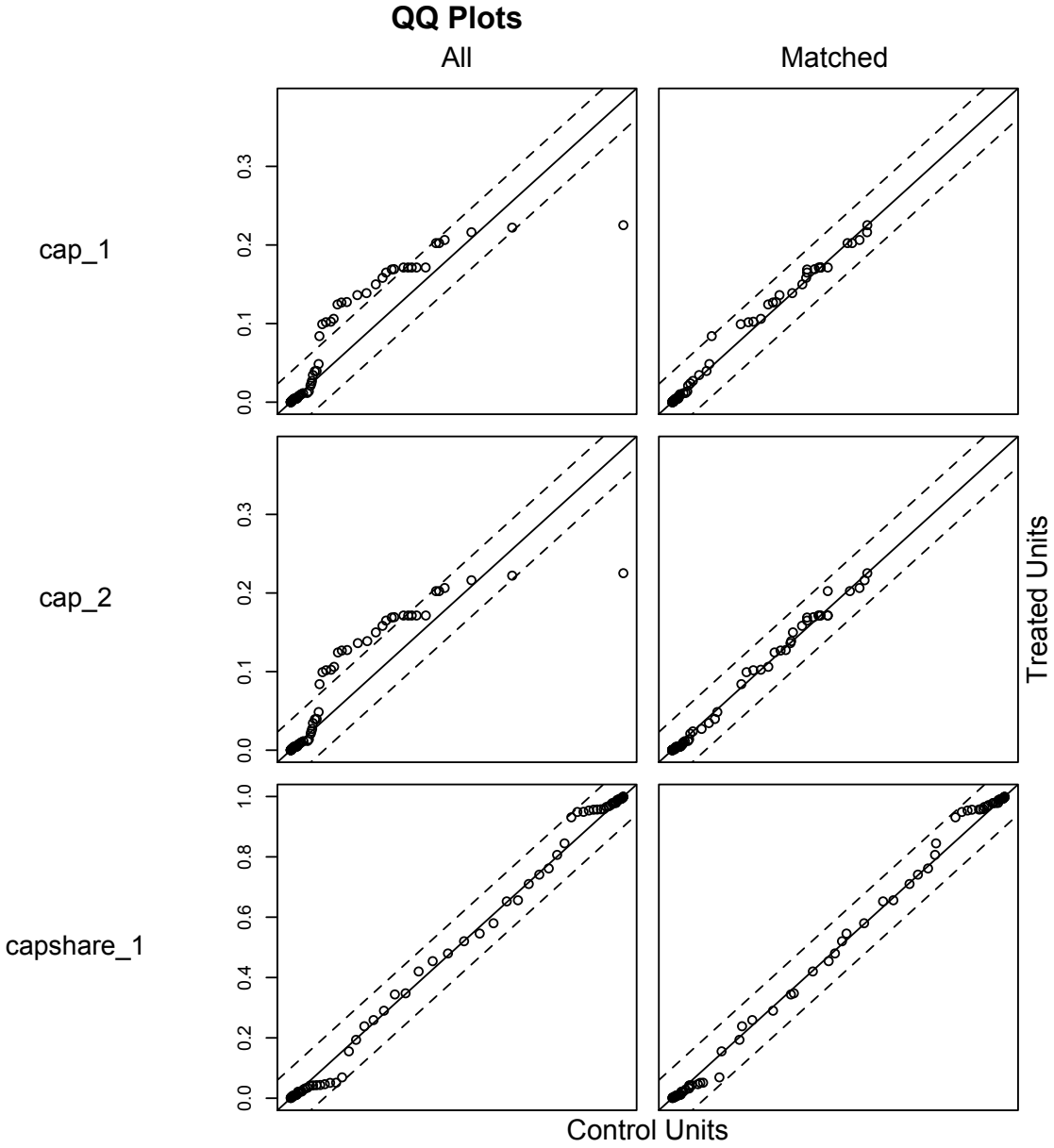
```
use "/Users/downes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
October 2016/ovfircmidgenmatchoct16.dta"
(Written by R.              )

ttest cwinit10, by(overtfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     174    .1436782     .026668    .3517754    .0910416    .1963147
       1 |     190    .1473684    .0257841    .3554093    .0965068      .19823
---------+--------------------------------------------------------------------
combined |     364    .1456044    .0185124    .3531947    .1091993    .1820095
---------+--------------------------------------------------------------------
    diff |           -.0036903    .0371113               -.0766711    .0692906
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.0994
Ho: diff = 0                                     degrees of freedom =      362

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.4604         Pr(|T| > |t|) = 0.9208          Pr(T > t) = 0.5396

ttest midinit_fatal10, by(overtfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     174    .0977011    .0225737     .297767    .0531459    .1422564
       1 |     190    .0947368    .0213018    .2936248     .052717    .1367566
---------+--------------------------------------------------------------------
combined |     364    .0961538    .0154731    .2952079    .0657257     .126582
---------+--------------------------------------------------------------------
    diff |            .0029643    .0310185               -.0580348    .0639634
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.0956
Ho: diff = 0                                     degrees of freedom =      362

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5380         Pr(|T| > |t|) = 0.9239          Pr(T > t) = 0.4620

ttest midinit_war10, by(overtfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     174    .0172414    .0098966    .1305452   -.0022923     .036775
       1 |     190    .0315789    .0127204    .1753383    .0064868    .0566711
---------+--------------------------------------------------------------------
combined |     364    .0247253    .0081504    .1555004    .0086973    .0407533
---------+--------------------------------------------------------------------
    diff |           -.0143376    .0163218               -.046435    .0177598
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.8784
Ho: diff = 0                                     degrees of freedom =      362

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1901         Pr(|T| > |t|) = 0.3803          Pr(T > t) = 0.8099
```

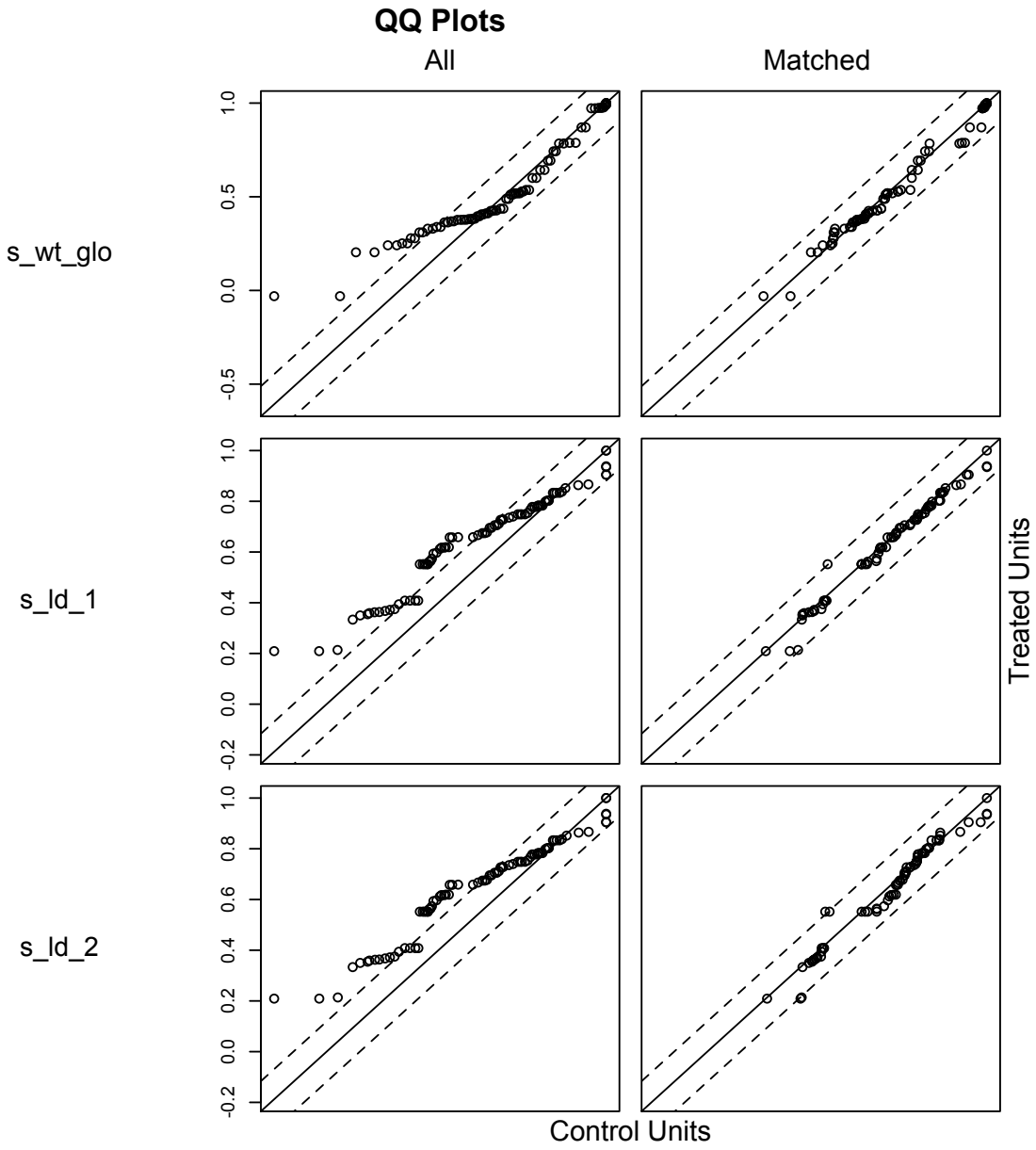
```
probit cwinit10 overtfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2 democracy1_2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -151.06294
Iteration 1:   log pseudolikelihood =  -136.6242
Iteration 2:   log pseudolikelihood = -135.78153
Iteration 3:   log pseudolikelihood = -135.77127
Iteration 4:   log pseudolikelihood = -135.77126

Probit regression                                 Number of obs   =        364
                                                  Wald chi2(11)   =      35.66
                                                  Prob > chi2     =     0.0002
Log pseudolikelihood = -135.77126                 Pseudo R2       =     0.1012

                            (Std. Err. adjusted for 285 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   overtfirc |   .0040708   .1762285     0.02   0.982    -.3413307    .3494724
       cap_1 |  -1.090594   1.420335    -0.77   0.443    -3.874398    1.693211
       cap_2 |   1.528483    1.85495     0.82   0.410    -2.107153    5.164118
  capshare_1 |   .9668872   .3950713     2.45   0.014     .1925616    1.741213
    s_wt_glo |  -.2017213   .3233665    -0.62   0.533     -.835508    .4320654
      s_ld_1 |  -1.000346   .5280771    -1.89   0.058    -2.035358    .0346661
      s_ld_2 |   1.519295    .602114     2.52   0.012     .3391729    2.699416
  lndistance |  -.0505051   .0299168    -1.69   0.091     -.109141    .0081307
  democracy1 |   .2056345   .2558562     0.80   0.422    -.2958345    .7071035
  democracy2 |  -.5200451   .3117061    -1.67   0.095    -1.130978    .0908877
democracy1_2 |  -.6644509   .4630955    -1.43   0.151    -1.572101    .2431997
       _cons |  -1.594129   .4983244    -3.20   0.001    -2.570827   -.6174313
------------------------------------------------------------------------------
```

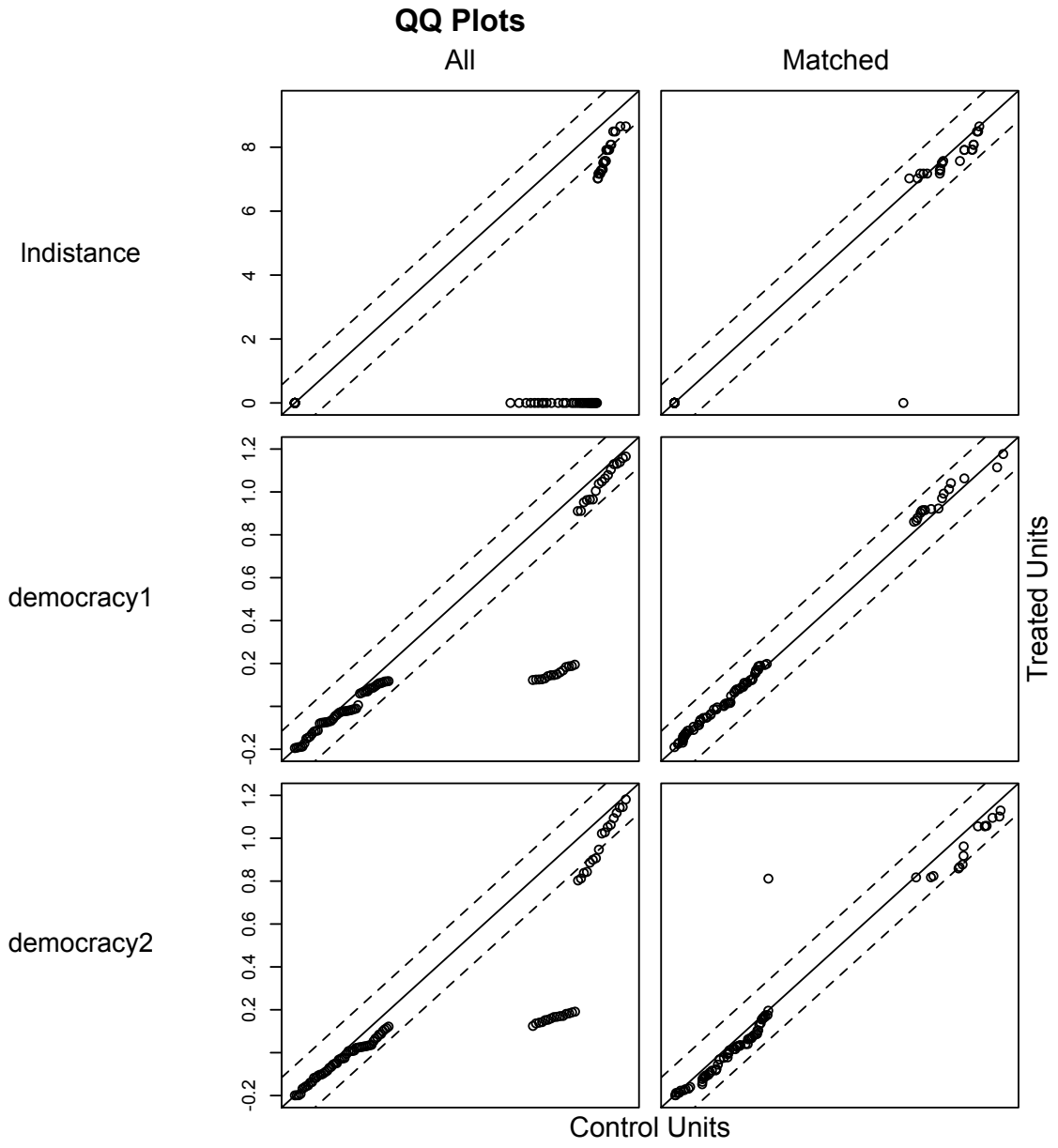
OVERT LEADERSHIP FIRC

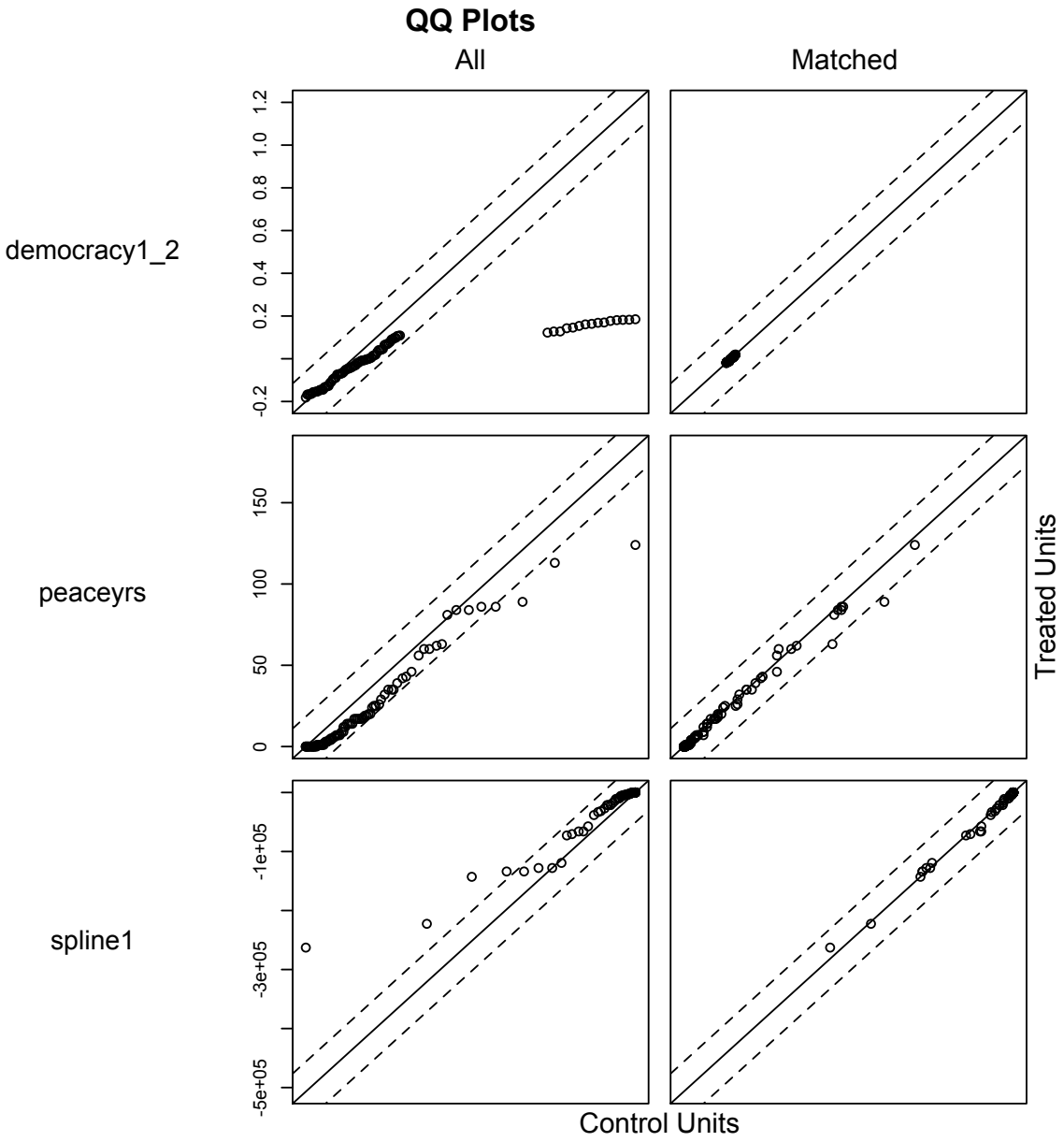
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

ovleadfirc=read.dta("ovleadfircmidformatchoct16.dta")

ovleadfirc.out1 <- matchit(ovleaderfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2
+ lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=ovleadfirc, method="genetic", pop.size=200)

summary(ovleadfirc.out1)

Call:
matchit(formula = ovleaderfirc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = ovleadfirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
             Means Treated Means Control  SD Control  Mean Diff   eQQ Med   eQQ Mean      eQQ Max
distance            0.0031        0.0005      0.0012     0.0026    0.0017     0.0028       0.0286
cap_1               0.0545        0.0409      0.0629     0.0136    0.0015     0.0170       0.1587
cap_2               0.0545        0.0410      0.0629     0.0135    0.0017     0.0170       0.1587
capshare_1          0.5000        0.4994      0.4166     0.0006    0.0065     0.0160       0.0873
s_wt_glo            0.5559        0.5144      0.3429     0.0415    0.0388     0.0796       0.5771
s_ld_1              0.6500        0.5475      0.2628     0.1025    0.1047     0.1146       0.3968
s_ld_2              0.6500        0.5477      0.2628     0.1024    0.1047     0.1146       0.3968
lndistance          2.2460        5.6122      3.8728    -3.3662    1.4123     3.3666       8.5734
democracy1          0.2073        0.3894      0.4876    -0.1821    0.0000     0.1829       1.0000
democracy2          0.2073        0.3899      0.4877    -0.1826    0.0000     0.1829       1.0000
democracy1_2        0.0000        0.1851      0.3884    -0.1851    0.0000     0.1829       1.0000
peaceyrs           22.4390       31.5611     31.4864    -9.1221   10.0000    10.0488      60.0000
spline1        -23568.9789   -34441.2494  65765.5957 10872.2705 5427.1340 14147.5047  244048.6875
spline2        -49745.8908   -73095.3526 154539.0737 23349.4618 7072.0930 31469.5926  615693.8750
spline3        -66041.2908   -98433.7691 236977.9106 32392.4783 6068.0305 46016.5112 1073073.8750


Summary of balance for matched data:
             Means Treated Means Control  SD Control Mean Diff eQQ Med  eQQ Mean    eQQ Max
distance            0.0031        0.0031      0.0036    0.0000  0.0001    0.0002     0.0033
cap_1               0.0545        0.0540      0.0737    0.0005  0.0003    0.0030     0.0384
cap_2               0.0545        0.0539      0.0722    0.0006  0.0014    0.0032     0.0228
capshare_1          0.5000        0.4976      0.4211    0.0024  0.0089    0.0145     0.0793
s_wt_glo            0.5559        0.5533      0.2766    0.0026  0.0130    0.0237     0.1061
s_ld_1              0.6500        0.6562      0.1873   -0.0062  0.0124    0.0172     0.1216
s_ld_2              0.6500        0.6569      0.1792   -0.0069  0.0155    0.0250     0.1302
lndistance          2.2460        2.2703      3.5694   -0.0243  0.0000    0.1544     6.4998
democracy1          0.2073        0.2073      0.4080    0.0000  0.0000    0.0000     0.0000
democracy2          0.2073        0.2073      0.4080    0.0000  0.0000    0.0127     1.0000
democracy1_2        0.0000        0.0000      0.0000    0.0000  0.0000    0.0000     0.0000
peaceyrs           22.4390       22.1951     29.0634    0.2439  1.0000    1.7975    23.0000
spline1        -23568.9789   -23242.2052  51612.4096 -326.7737 24.8696 1574.9230 18962.5000
spline2        -49745.8908   -49189.3717 118284.0535 -556.5191 22.8913 3490.4803 47526.5000
spline3        -66041.2908   -65746.0661 173402.0453 -295.2247 19.6413 4952.0339 81688.8750

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance        99.8266  96.0153  92.9971  88.5423
cap_1           96.5119  77.0437  82.1964  75.8188
cap_2           95.4671  13.2304  81.2423  85.6311
capshare_1    -263.4865 -38.1939   9.5746   9.1911
s_wt_glo        93.7357  66.5924  70.1978  81.6196
s_ld_1          93.9360  88.1603  84.9930  69.3561
s_ld_2          93.2731  85.1882  78.1604  67.1961
lndistance      99.2790 100.0000  95.4145  24.1865
democracy1     100.0000   0.0000 100.0000 100.0000
democracy2     100.0000   0.0000  93.0802   0.0000
democracy1_2   100.0000   0.0000 100.0000 100.0000
peaceyrs        97.3262  90.0000  82.1126  61.6667
spline1         96.9944  99.5418  88.8678  92.2300
```

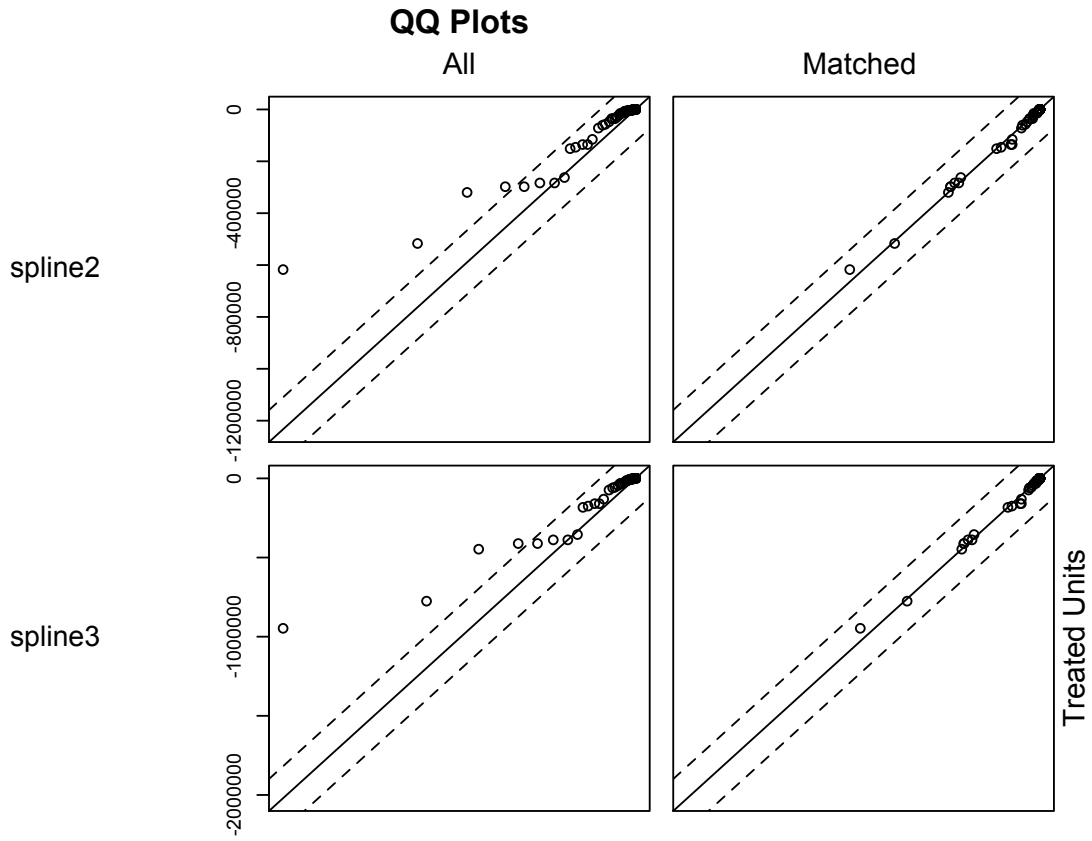
```
spline2          97.6166  99.6763  88.9084  92.2808
spline3          99.0886  99.6763  89.2386  92.3874

Sample sizes:
           Control Treated
All         166582      82
Matched         79      82
Unmatched   166503       0
Discarded        0       0
```

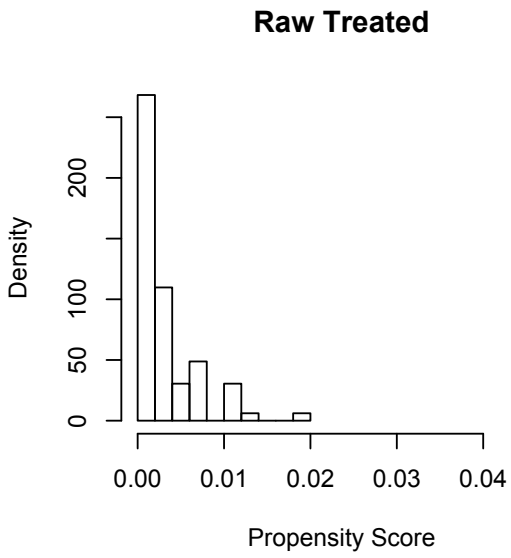


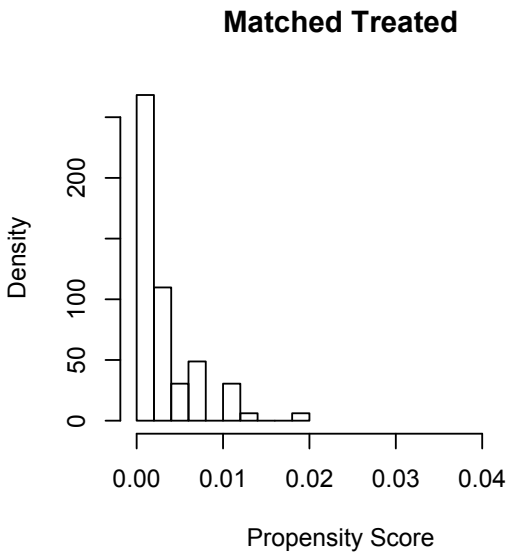

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

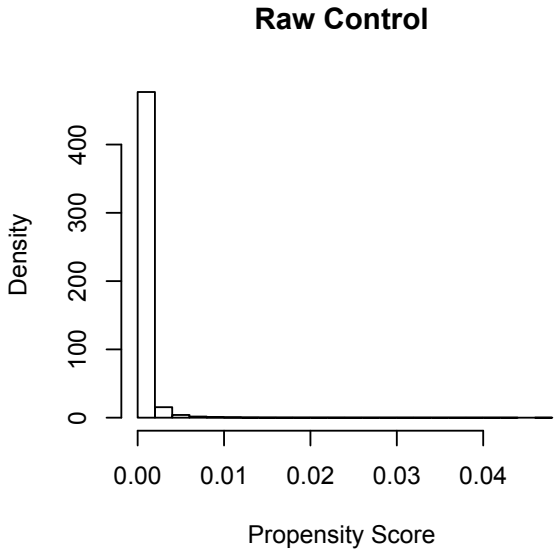

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

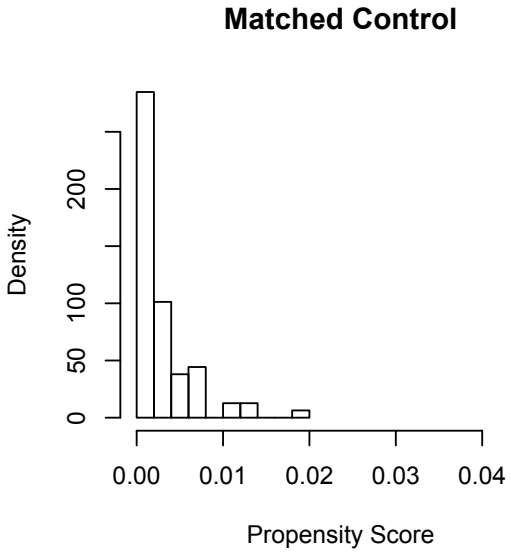

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
50
100
200
0.00
0.01
0.02
0.03
0.04
Propensity Score


Matched Treated
Density
0
50
100
200
0.00
0.01
0.02
0.03
0.04
Propensity Score


Raw Control
Density
0
100
200
300
400
0.00
0.01
0.02
0.03
0.04
Propensity Score


Matched Control
Density
0
50
100
200
0.00
0.01
0.02
0.03
0.04
Propensity Score

OVERT LEADERSHIP FIRC: ANALYSIS OF MATCHED DATA

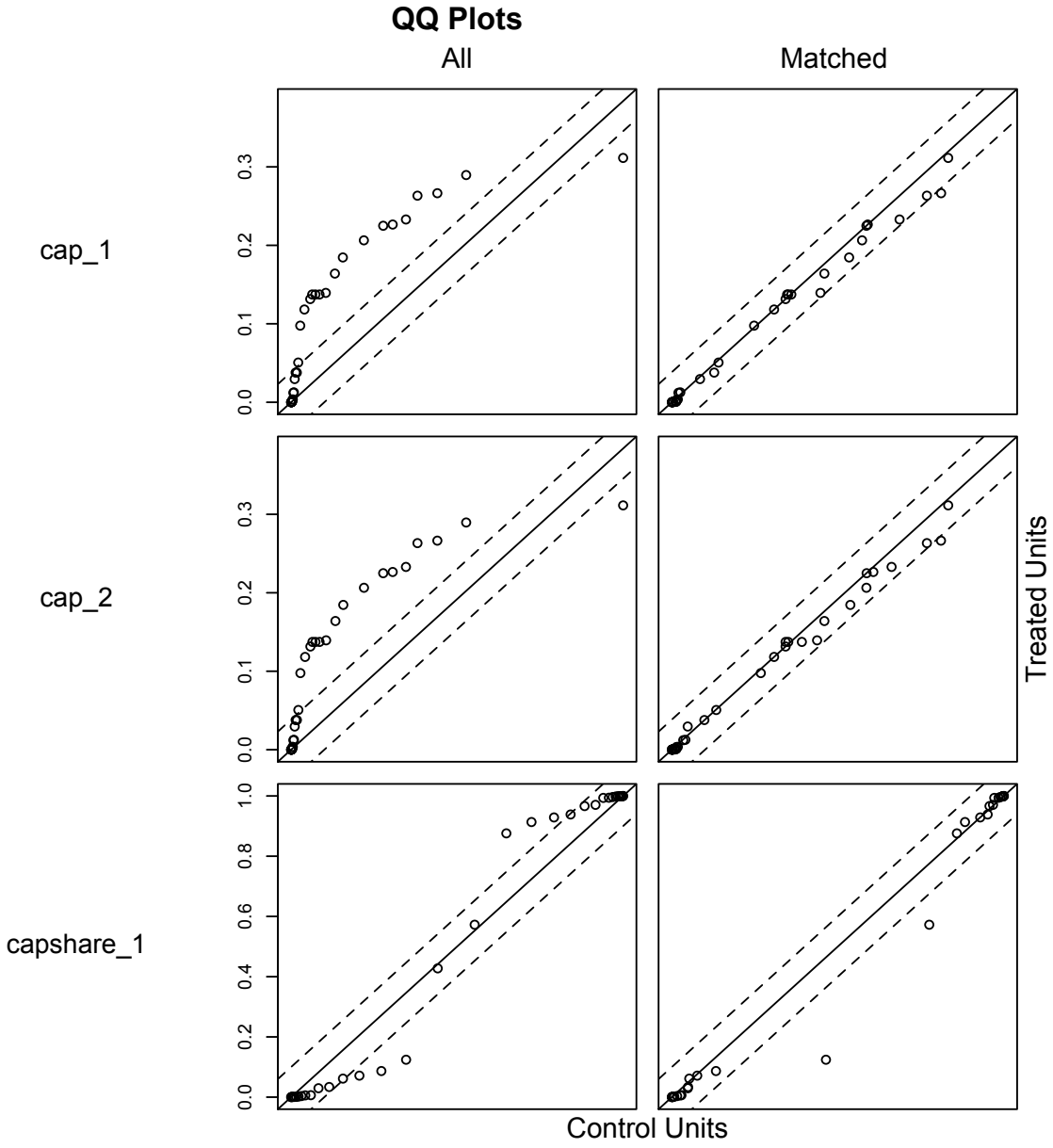
```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
October 2016/ovleadfircmidgenmatchoct16.dta"
(Written by R.              )

ttest cwinit10, by(ovleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      79    .2151899    .0465314    .4135799     .122553    .3078267
       1 |      82    .2560976    .0484974    .4391624     .159603    .3525921
---------+--------------------------------------------------------------------
combined |     161    .2360248    .0335706    .4259626    .1697263    .3023234
---------+--------------------------------------------------------------------
    diff |           -.0409077    .0672854               -.1737962    .0919808
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.6080
Ho: diff = 0                                     degrees of freedom =      159

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2720         Pr(|T| > |t|) = 0.5441          Pr(T > t) = 0.7280

ttest midinit_fatal10, by(ovleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      79    .1265823    .0376487    .3346291    .0516294    .2015351
       1 |      82    .1707317    .0418083    .3785899    .0875464     .253917
---------+--------------------------------------------------------------------
combined |     161    .1490683    .0281566    .3572671    .0934618    .2046748
---------+--------------------------------------------------------------------
    diff |           -.0441494    .0563912               -.1555218     .067223
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.7829
Ho: diff = 0                                     degrees of freedom =      159

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2174         Pr(|T| > |t|) = 0.4348          Pr(T > t) = 0.7826

ttest midinit_war10, by(ovleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      79    .0253165    .0177863    .1580882   -.0100934    .0607263
       1 |      82    .0609756    .0265873    .2407581    .0080753     .113876
---------+--------------------------------------------------------------------
combined |     161    .0434783    .0161222    .2045674    .0116386     .075318
---------+--------------------------------------------------------------------
    diff |           -.0356592    .0322274               -.0993081    .0279898
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.1065
Ho: diff = 0                                     degrees of freedom =      159

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1351         Pr(|T| > |t|) = 0.2702          Pr(T > t) = 0.8649
```

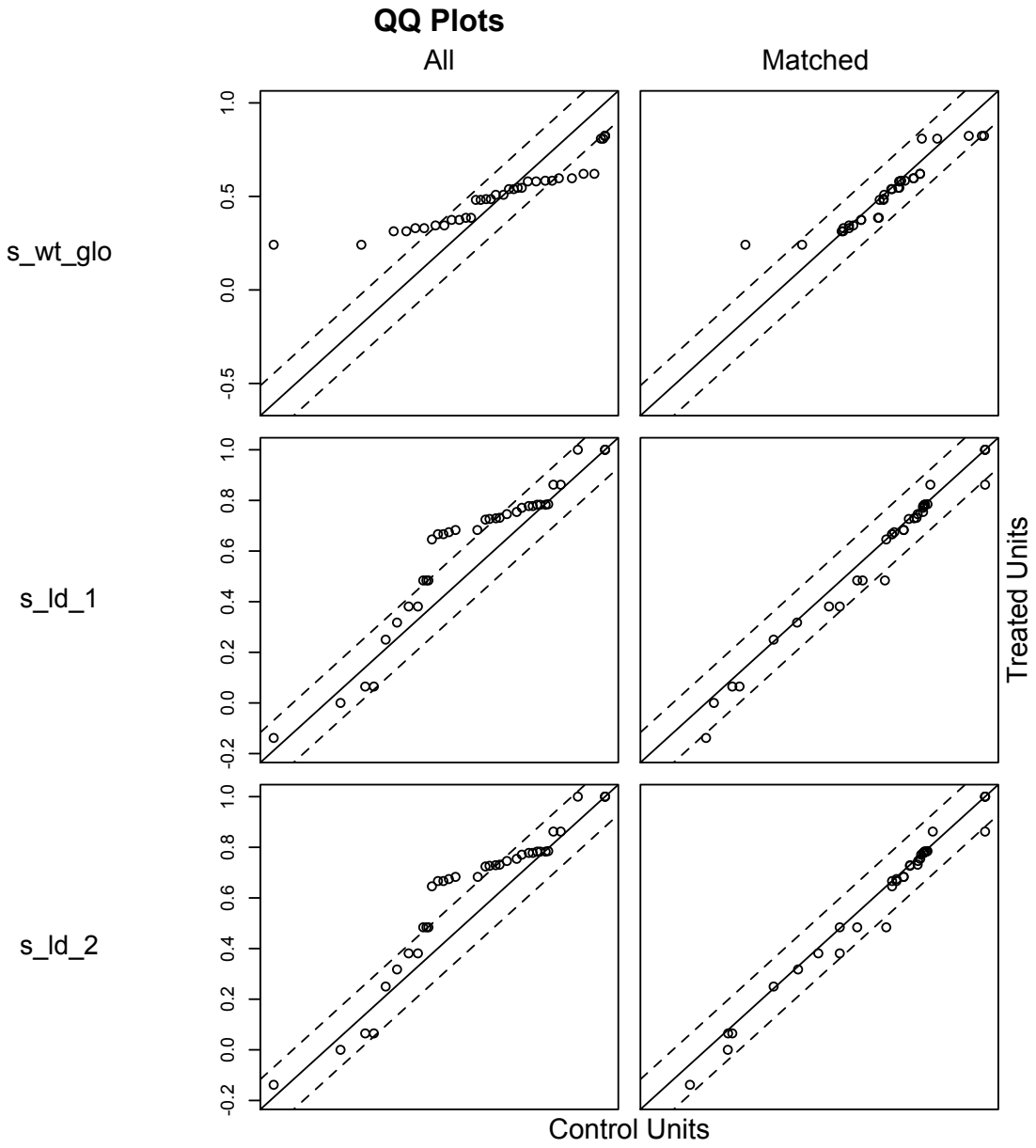
```
probit cwinit10 ovleaderfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -87.979153
Iteration 1:   log pseudolikelihood = -80.169401
Iteration 2:   log pseudolikelihood = -80.035889
Iteration 3:   log pseudolikelihood = -80.035842
Iteration 4:   log pseudolikelihood = -80.035842

Probit regression                                 Number of obs   =        161
                                                  Wald chi2(10)   =      17.11
                                                  Prob > chi2     =     0.0721
Log pseudolikelihood = -80.035842                 Pseudo R2       =     0.0903

                              (Std. Err. adjusted for 148 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
**ovleaderfirc** |   **.1357533**    **.226897**     **0.60**   **0.550**    **-.3089566**    **.5804633**
       cap_1 |   .6226637   2.309824     0.27   0.787    -3.904507    5.149835
       cap_2 |  -1.382581   3.072428    -0.45   0.653    -7.404429    4.639266
  capshare_1 |   .5626931   .5918491     0.95   0.342    -.5973098    1.722696
    s_wt_glo |  -.3863719   .5229152    -0.74   0.460    -1.411267    .6385231
      s_ld_1 |   .9203437   1.185403     0.78   0.438    -1.403004    3.243691
      s_ld_2 |   .5792484   1.298279     0.45   0.655    -1.965331    3.123828
  lndistance |  -.0642404   .0342042    -1.88   0.060    -.1312793    .0027985
  democracy1 |   .1358848   .3362687     0.40   0.686    -.5231898    .7949595
  democracy2 |  -.0264874   .4231258    -0.06   0.950    -.8557989     .802824
       _cons |  -1.748349   .8498752    -2.06   0.040    -3.414073   -.0826238
------------------------------------------------------------------------------
```

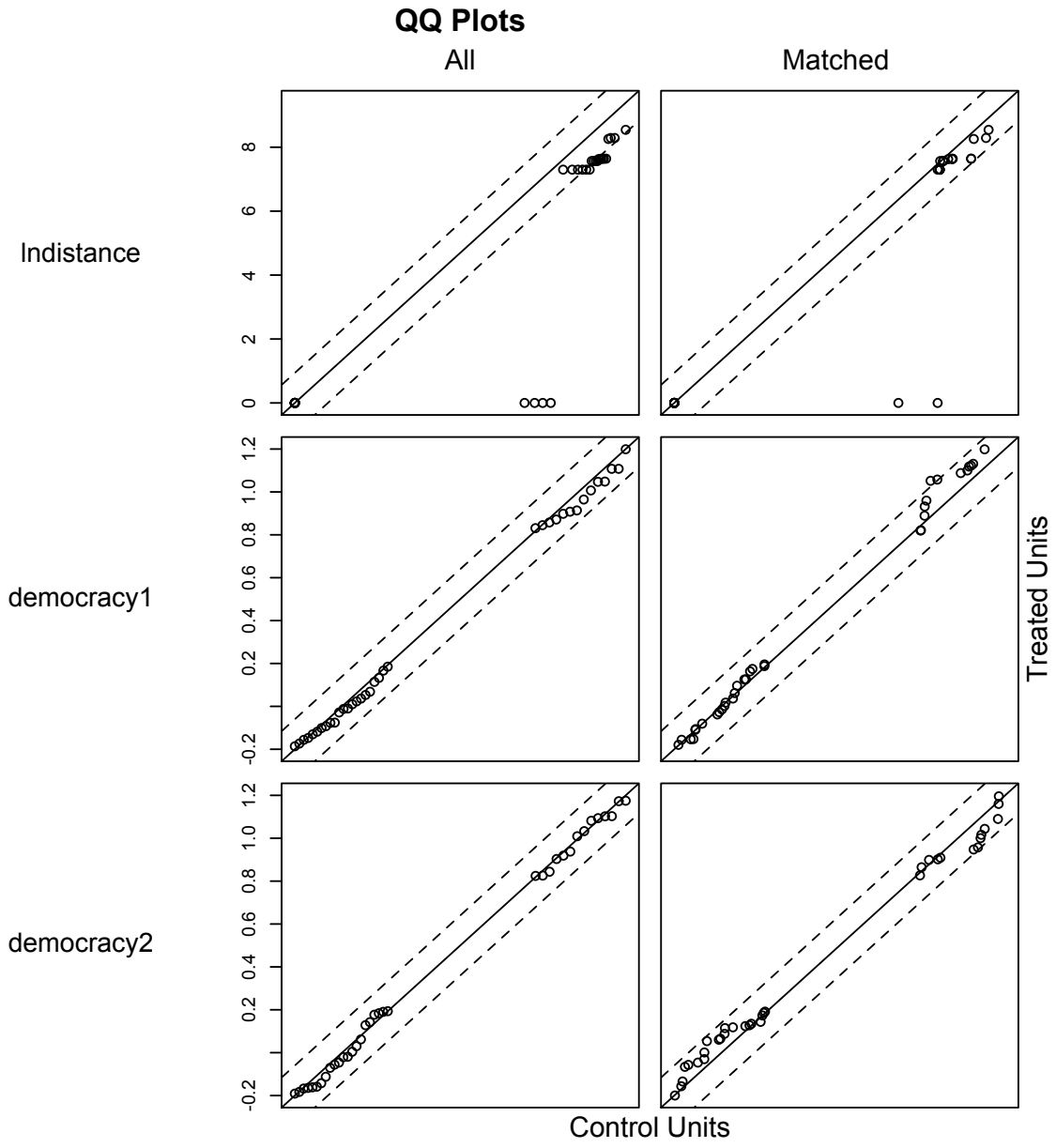
OVERT INSTITUTIONAL FIRC

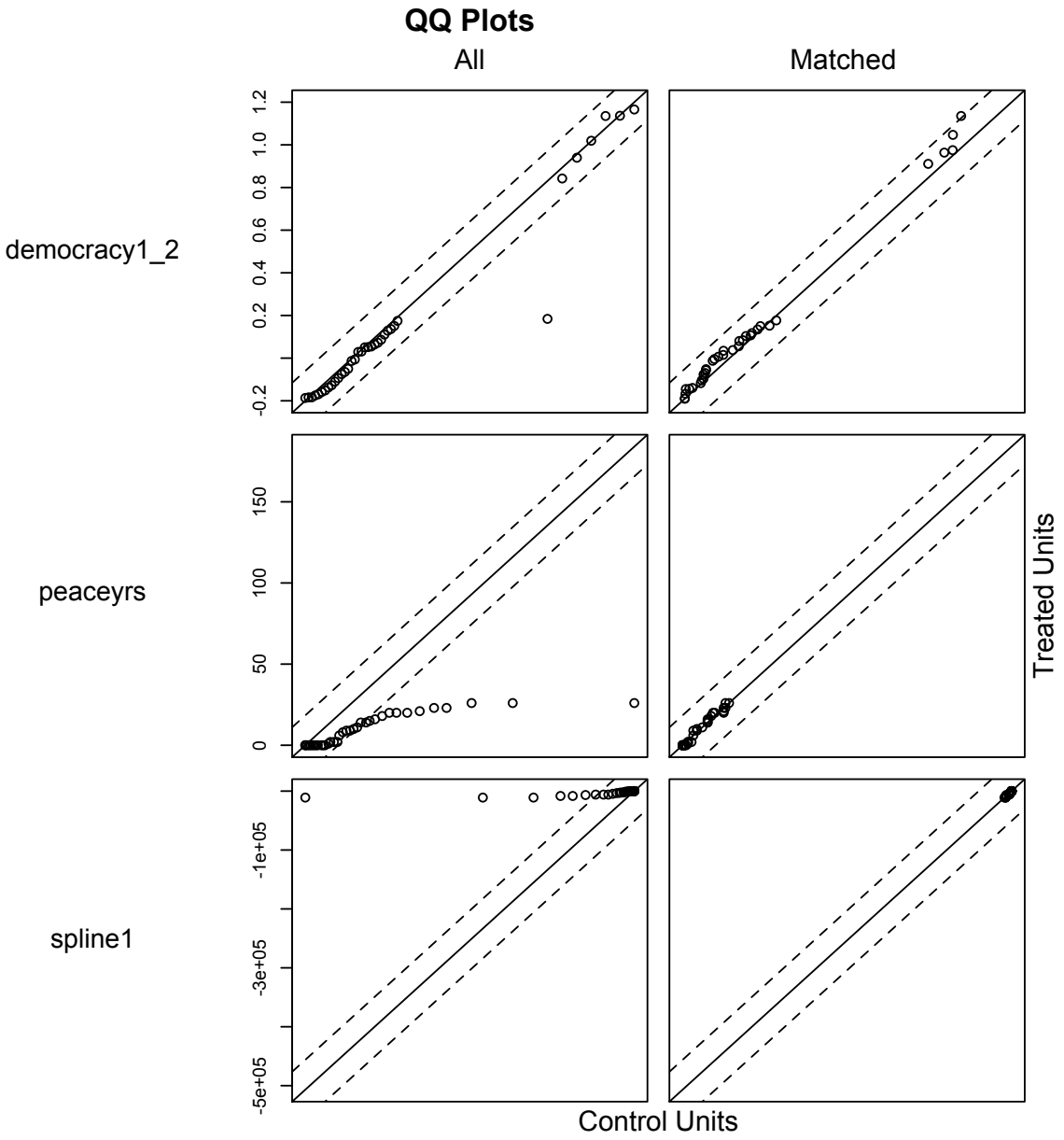
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

ovinstfirc=read.dta("ovinstfircmidformatchoct16.dta")

ovinstfirc.out1 <- matchit(ovinstfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=ovinstfirc, method="genetic", pop.size=200)

summary(ovinstfirc.out1)

Call:
matchit(formula = ovinstfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = ovinstfirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
            Means Treated Means Control  SD Control  Mean Diff   eQQ Med    eQQ Mean      eQQ Max
distance           0.0025        0.0002      0.0013     0.0023    0.0012      0.0075       0.1999
cap_1              0.0961        0.0409      0.0629     0.0552    0.0375      0.0540       0.1247
cap_2              0.0961        0.0410      0.0629     0.0551    0.0374      0.0539       0.1242
capshare_1         0.5000        0.4993      0.4166     0.0007    0.0240      0.0539       0.2276
s_wt_glo           0.5216        0.5144      0.3429     0.0073    0.1426      0.1631       0.8493
s_ld_1             0.6219        0.5475      0.2628     0.0744    0.0733      0.0928       0.2664
s_ld_2             0.6219        0.5477      0.2628     0.0742    0.0733      0.0928       0.2664
lndistance         4.2573        5.6122      3.8728    -1.3549    0.8191      1.2613       7.2647
democracy1         0.3889        0.3894      0.4876    -0.0005    0.0000      0.0000       0.0000
democracy2         0.3889        0.3899      0.4877    -0.0010    0.0000      0.0000       0.0000
democracy1_2       0.1667        0.1851      0.3884    -0.0185    0.0000      0.0278       1.0000
peaceyrs           9.5000       31.5614     31.4865   -22.0614   15.0000     24.0833     158.0000
spline1        -2608.1634   -34441.7595  65765.7627 31833.5961 6869.1524  39541.7180  495900.1699
spline2        -3263.3718   -73096.4879 154539.3939 69833.1161 8886.1687  89039.3355 1217733.4805
spline3        -2804.6774   -98435.3526 236978.1221 95630.6753 7624.9812 128161.3032 2007087.4805


Summary of balance for matched data:
            Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean   eQQ Max
distance           0.0025        0.0024     0.0035    0.0001  0.0001   0.0004    0.0052
cap_1              0.0961        0.0971     0.1056   -0.0010  0.0029   0.0074    0.0449
cap_2              0.0961        0.0977     0.1059   -0.0016  0.0030   0.0076    0.0447
capshare_1         0.5000        0.5027     0.4643   -0.0027  0.0052   0.0243    0.3399
s_wt_glo           0.5216        0.5337     0.2234   -0.0121  0.0250   0.0550    0.4044
s_ld_1             0.6219        0.6326     0.2656   -0.0108  0.0106   0.0312    0.1572
s_ld_2             0.6219        0.6328     0.2717   -0.0109  0.0127   0.0273    0.1620
lndistance         4.2573        4.3465     3.9691   -0.0892  0.0630   0.5541    7.4759
democracy1         0.3889        0.3611     0.4875    0.0278  0.0000   0.0000    0.0000
democracy2         0.3889        0.3611     0.4875    0.0278  0.0000   0.0000    0.0000
democracy1_2       0.1667        0.1389     0.3510    0.0278  0.0000   0.0000    0.0000
peaceyrs           9.5000        9.2500     9.1803    0.2500  1.0000   1.0882    3.0000
spline1        -2608.1634    -2432.9603  3531.8920 -175.2031 18.1739 531.5105 2518.2607
spline2        -3263.3718    -3039.1542  4713.4747 -224.2176 16.7283 730.2339 3437.2170
spline3        -2804.6774    -2609.8382  4049.6703 -194.8391 14.3533 629.4103 2949.2170

Percent Balance Improvement:
            Mean Diff. eQQ Med eQQ Mean  eQQ Max
distance        96.5507 90.6911  94.3008  97.4192
cap_1           98.2323 92.2059  86.3693  64.0133
cap_2           97.0053 92.0092  85.9075  63.9856
capshare_1    -307.0217 78.3949  54.9051 -49.3816
s_wt_glo       -66.4249 82.4420  66.2676  52.3909
s_ld_1          85.5459 85.5084  66.3773  41.0030
s_ld_2          85.3443 82.6972  70.5897  39.1984
lndistance      93.4162 92.3060  56.0671  -2.9069
democracy1   -5079.8507  0.0000   0.0000   0.0000
democracy2   -2585.1064  0.0000   0.0000   0.0000
democracy1_2   -50.3357  0.0000 100.0000 100.0000
peaceyrs        98.8668 93.3333  95.4814  98.1013
spline1         99.4496 99.7354  98.6558  99.4922
spline2         99.6789 99.8117  99.1799  99.7177
spline3         99.7963 99.8118  99.5089  99.8531
```

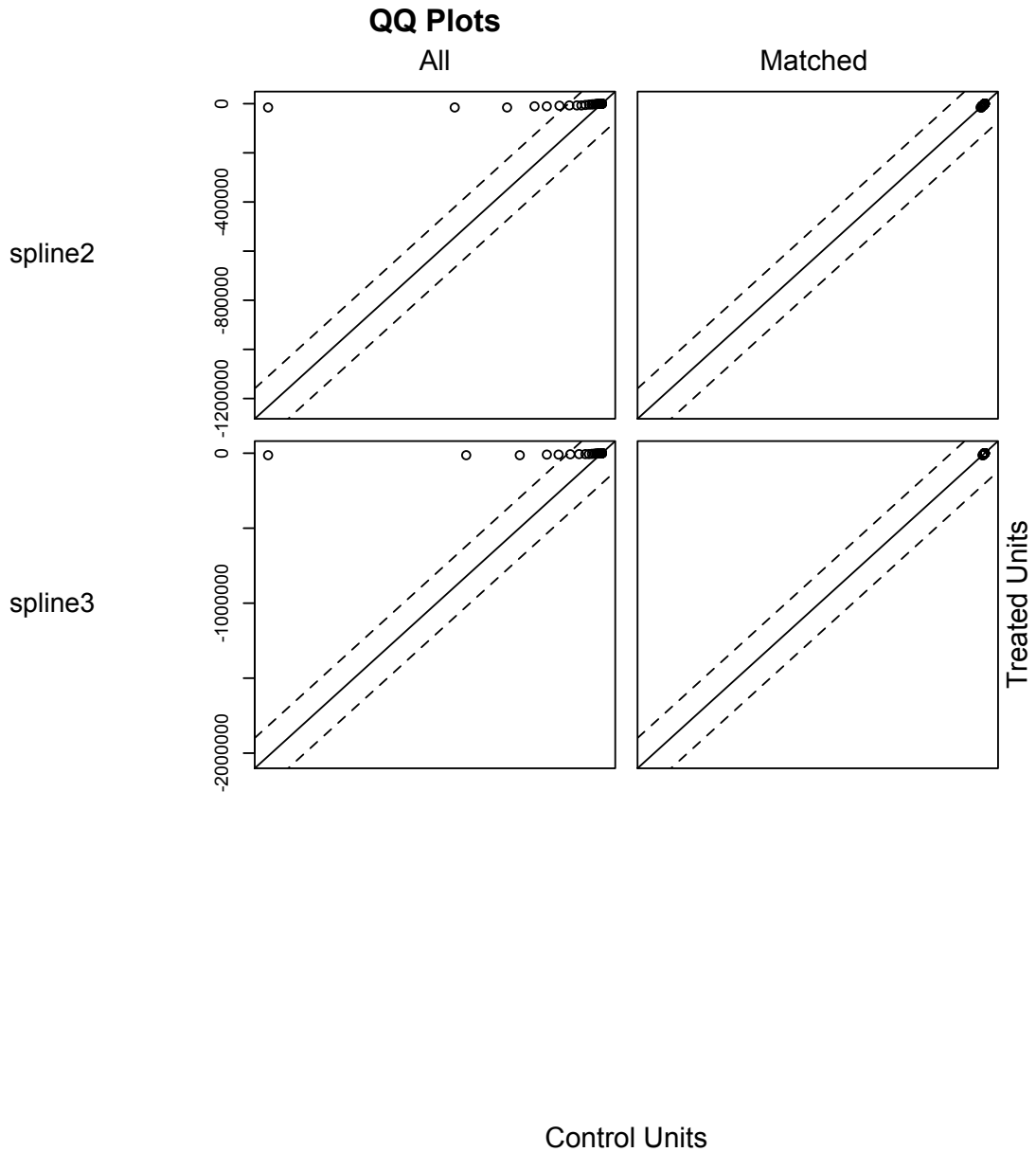
```
Sample sizes:
          Control Treated
All        166584      36
Matched        34      36
Unmatched  166550       0
Discarded       0       0
```

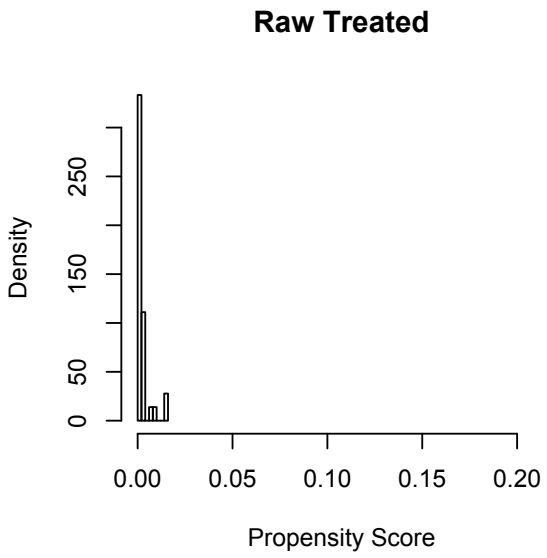


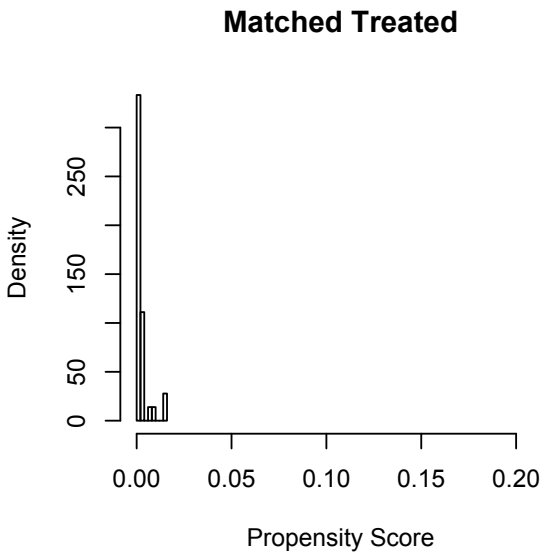

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

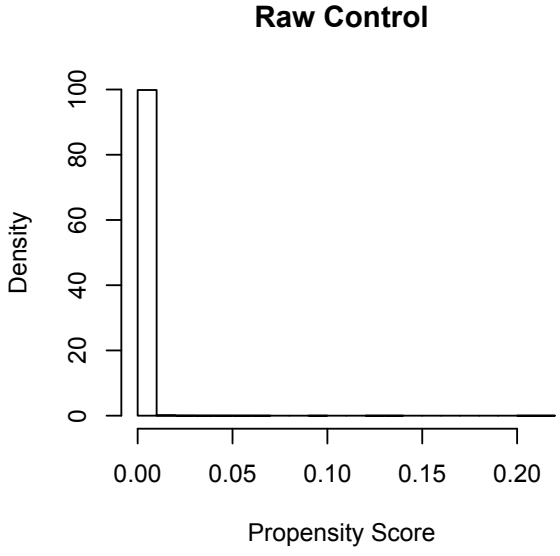

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

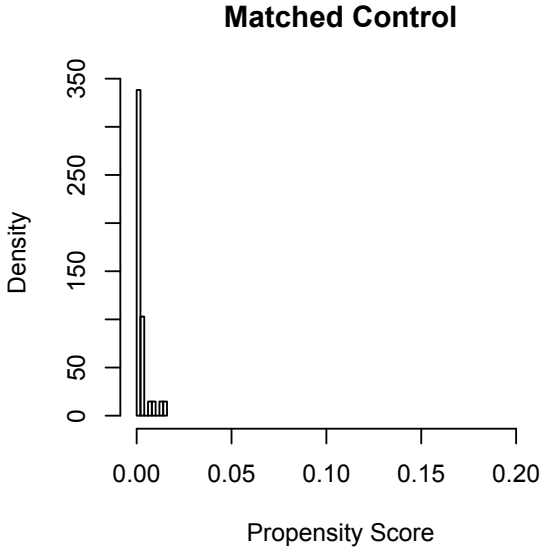

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
50
150
250
0.00
0.05
0.10
0.15
0.20
Propensity Score


Matched Treated
Density
0
50
150
250
0.00
0.05
0.10
0.15
0.20
Propensity Score


Raw Control
Density
0
20
40
60
80
100
0.00
0.05
0.10
0.15
0.20
Propensity Score


Matched Control
Density
0
50
150
250
350
0.00
0.05
0.10
0.15
0.20
Propensity Score

OVERT INSTITUTIONAL FIRC: ANALYSIS OF MATCHED DATA

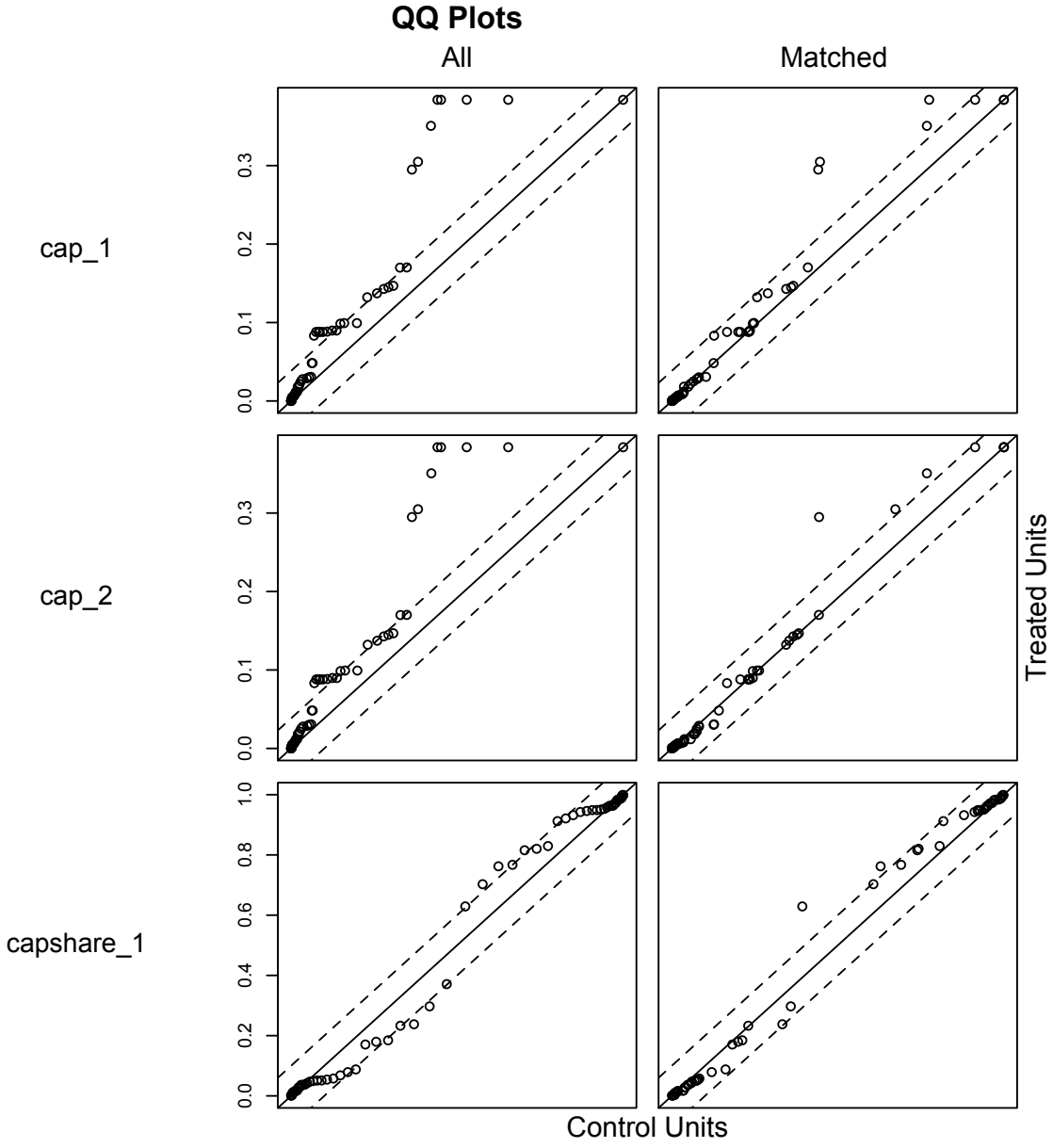
```
use "/Users/downes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
October 2016/ovinstfircmidgenmatchoct16.dta"
(Written by R.              )

ttest cwinit10, by(ovinstfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      34    .1176471     .056086     .327035    .0035392     .231755
       1 |      36    .1666667    .0629941    .3779645    .0387819    .2945514
---------+--------------------------------------------------------------------
combined |      70    .1428571    .0421263    .3524537    .0588175    .2268968
---------+--------------------------------------------------------------------
    diff |           -.0490196    .0846961               -.218028    .1199888
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.5788
Ho: diff = 0                                     degrees of freedom =       68

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2823         Pr(|T| > |t|) = 0.5647          Pr(T > t) = 0.7177



ttest midinit_fatal10, by(ovinstfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      34    .0882353    .0493748    .2879022   -.0122185    .1886891
       1 |      36    .1111111    .0531213    .3187276    .0032692     .218953
---------+--------------------------------------------------------------------
combined |      70          .1    .0361158    .3021661     .027951     .172049
---------+--------------------------------------------------------------------
    diff |           -.0228758    .0727375               -.1680213    .1222697
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.3145
Ho: diff = 0                                     degrees of freedom =       68

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3771         Pr(|T| > |t|) = 0.7541          Pr(T > t) = 0.6229


ttest midinit_war10, by(ovinstfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      34           0           0           0           0           0
       1 |      36    .0277778    .0277778    .1666667   -.0286141    .0841697
---------+--------------------------------------------------------------------
combined |      70    .0142857    .0142857    .1195229   -.0142135    .0427849
---------+--------------------------------------------------------------------
    diff |           -.0277778    .0285948               -.0848378    .0292822
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.9714
Ho: diff = 0                                     degrees of freedom =       68

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1674         Pr(|T| > |t|) = 0.3348          Pr(T > t) = 0.8326
```

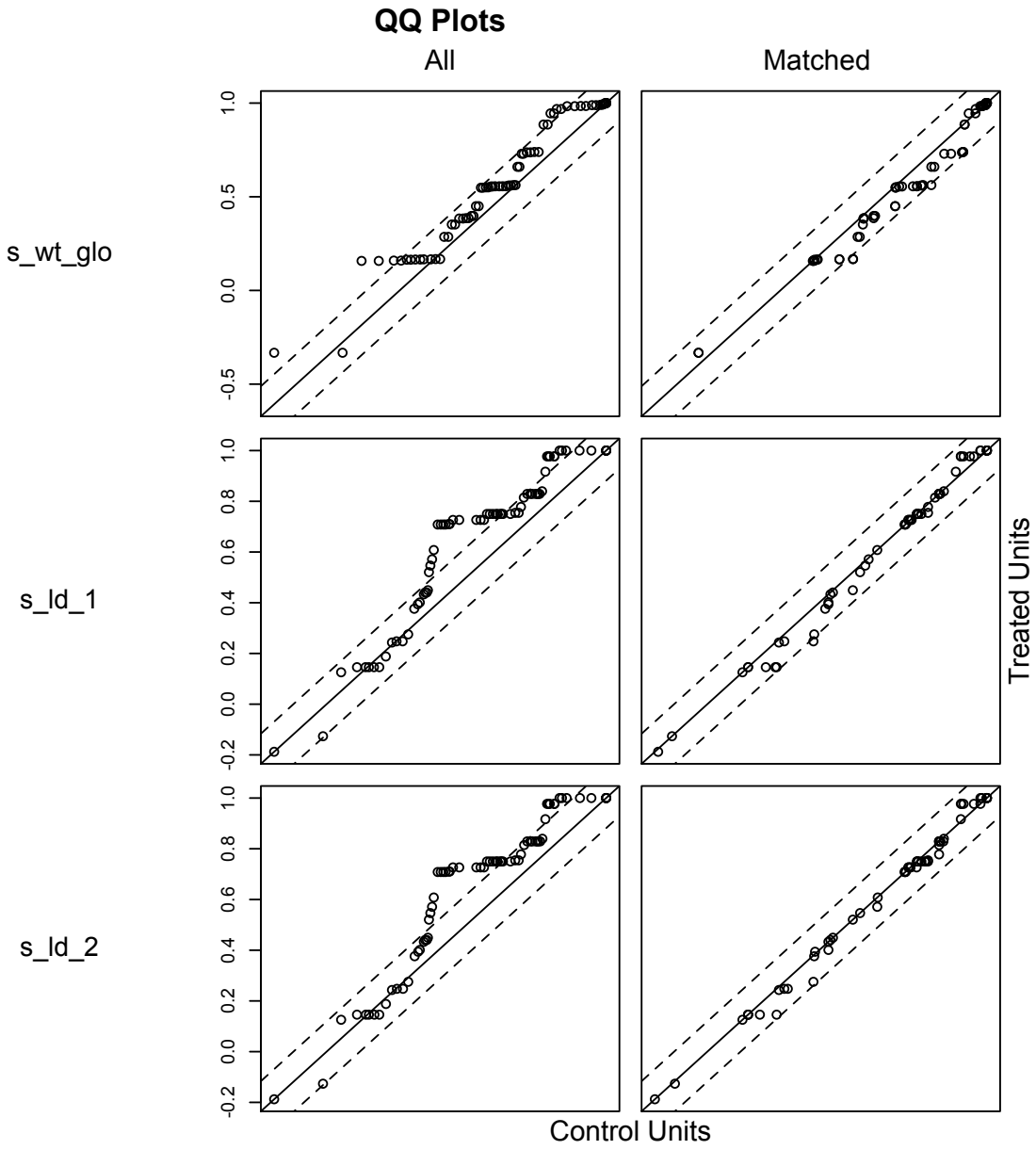
```
probit cwinit10 ovinstfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance, robust
cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -28.708142
Iteration 1:   log pseudolikelihood = -22.918084
Iteration 2:   log pseudolikelihood = -22.766816
Iteration 3:   log pseudolikelihood =  -22.76596
Iteration 4:   log pseudolikelihood =  -22.76596

Probit regression                                 Number of obs   =         70
                                                  Wald chi2(8)    =      20.73
                                                  Prob > chi2     =     0.0079
Log pseudolikelihood =  -22.76596                 Pseudo R2       =     0.2070

                              (Std. Err. adjusted for 58 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  ovinstfirc |   .1488994   .3894689     0.38   0.702    -.6144457    .9122444
       cap_1 |  -1.969408   3.065704    -0.64   0.521    -7.978078    4.039261
       cap_2 |   8.831697   6.157901     1.43   0.152    -3.237567    20.90096
  capshare_1 |   3.145978   1.206524     2.61   0.009     .7812349    5.510721
    s_wt_glo |  -.0849131   1.137983    -0.07   0.941    -2.315318    2.145492
      s_ld_1 |   .0407383   .7577297     0.05   0.957    -1.444385    1.525861
      s_ld_2 |   .8923925   1.182509     0.75   0.450    -1.425283    3.210068
  lndistance |  -.1324268   .0884556    -1.50   0.134    -.3057966    .0409429
       _cons |  -3.568755    1.85965    -1.92   0.055    -7.213601    .0760909
------------------------------------------------------------------------------
```

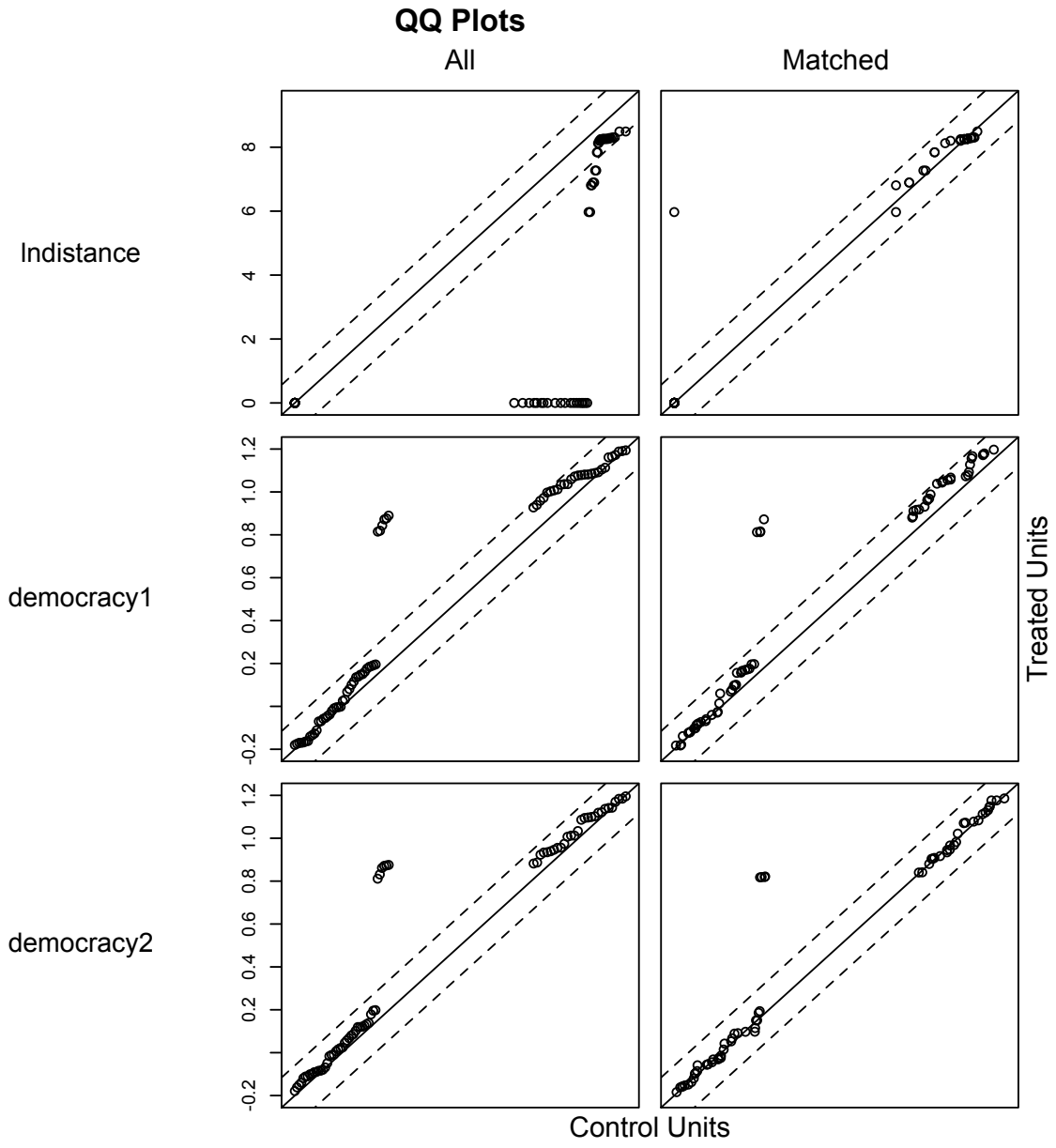
OVERT RESTORATION FIRC

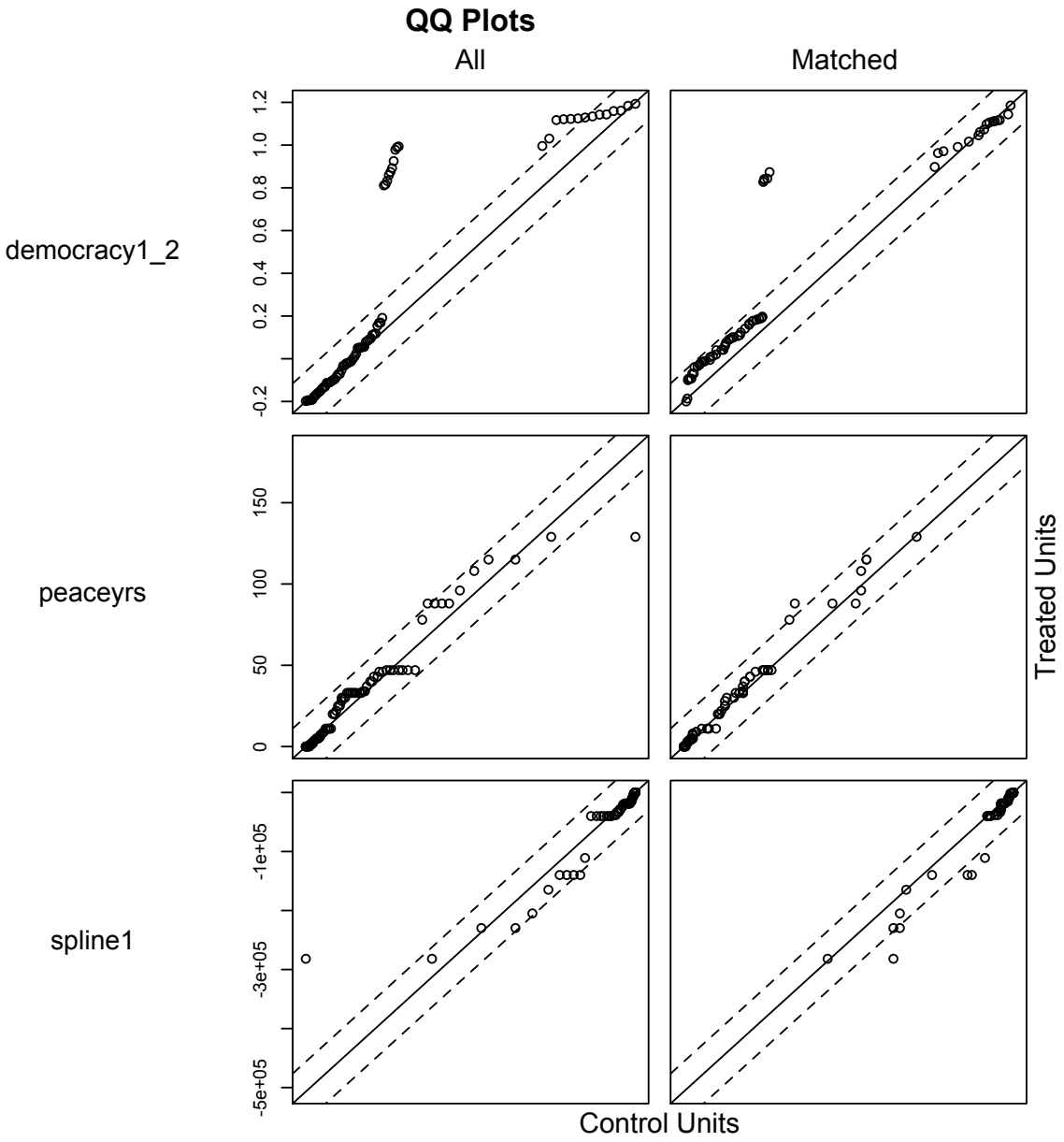
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

ovrestfirc=read.dta("ovrestfircmidformatchoct16.dta")

ovrestfirc.out1 <- matchit(ovrestfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=ovrestfirc, method="genetic", pop.size=200)

summary(ovrestfirc.out1)

Call:
matchit(formula = ovrestfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = ovrestfirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
             Means Treated Means Control  SD Control   Mean Diff   eQQ Med   eQQ Mean     eQQ Max
distance            0.0021        0.0004      0.0012      0.0017    0.0016     0.0027      0.0701
cap_1               0.0744        0.0409      0.0629      0.0334    0.0058     0.0309      0.2146
cap_2               0.0744        0.0410      0.0629      0.0333    0.0058     0.0308      0.2146
capshare_1          0.5000        0.4993      0.4166      0.0007    0.0059     0.0352      0.1378
s_wt_glo            0.5944        0.5143      0.3429      0.0800    0.0783     0.0878      0.3421
s_ld_1              0.6542        0.5475      0.2628      0.1068    0.0976     0.1157      0.3110
s_ld_2              0.6542        0.5476      0.2627      0.1066    0.0968     0.1156      0.3110
lndistance          3.2636        5.6123      3.8728     -2.3487    0.6237     2.3370      8.2993
democracy1          0.4722        0.3894      0.4876      0.0828    0.0000     0.0833      1.0000
democracy2          0.4722        0.3899      0.4877      0.0823    0.0000     0.0833      1.0000
democracy1_2        0.3333        0.1851      0.3884      0.1482    0.0000     0.1389      1.0000
peaceyrs           34.1528       31.5620     31.4868      2.5908    3.0000     5.4028     55.0000
spline1        -39859.3366   -34442.6603  65766.5324  -5416.6762 3525.6641 11290.9013 225086.1875
spline2        -85277.4874   -73098.4810 154541.2714 -12179.0064 7370.1687 26374.0816 568167.3750
spline3       -115743.5335   -98438.1279 236981.1301 -17305.4056 6686.7317 40478.1495 991385.0000


Summary of balance for matched data:
             Means Treated Means Control  SD Control  Mean Diff   eQQ Med   eQQ Mean     eQQ Max
distance            0.0021        0.0021      0.0018     0.0001    0.0002     0.0003      0.0011
cap_1               0.0744        0.0750      0.1119    -0.0006    0.0010     0.0104      0.1337
cap_2               0.0744        0.0734      0.1112     0.0010    0.0010     0.0067      0.1247
capshare_1          0.5000        0.5034      0.4306    -0.0034    0.0122     0.0260      0.2361
s_wt_glo            0.5944        0.5925      0.3428     0.0018    0.0204     0.0512      0.1847
s_ld_1              0.6542        0.6496      0.2952     0.0046    0.0044     0.0196      0.1317
s_ld_2              0.6542        0.6504      0.2934     0.0038    0.0043     0.0155      0.1041
lndistance          3.2636        3.2927      3.9520    -0.0292    0.0000     0.1664      5.9713
democracy1          0.4722        0.4722      0.5032     0.0000    0.0000     0.0625      1.0000
democracy2          0.4722        0.4722      0.5032     0.0000    0.0000     0.0625      1.0000
democracy1_2        0.3333        0.3333      0.4751     0.0000    0.0000     0.0781      1.0000
peaceyrs           34.1528       33.9028     32.3116     0.2500    2.0000     3.0625     26.0000
spline1        -39859.3366   -38137.3858  64895.3902 -1721.9508 1040.3046  9232.5076  97309.3125
spline2        -85277.4874   -80762.1270 151657.5324 -4515.3603 1124.3151 21568.4464 242652.2188
spline3       -115743.5335  -108011.1252 229013.1938 -7732.4083  964.6901 32565.4740 412499.6250

Percent Balance Improvement:
             Mean Diff.   eQQ Med eQQ Mean  eQQ Max
distance        96.7877   85.6186  88.1519  98.4770
cap_1           98.1277   83.3119  66.2718  37.7284
cap_2           96.9825   82.8611  78.3749  41.9100
capshare_1    -419.6448 -105.5476  26.0613 -71.2614
s_wt_glo        97.6910   73.9829  41.6638  46.0207
s_ld_1          95.6615   95.5046  83.0958  57.6541
s_ld_2          96.4342   95.5839  86.5865  66.5264
lndistance      98.7577  100.0000  92.8798  28.0509
democracy1     100.0000    0.0000  25.0000   0.0000
democracy2     100.0000    0.0000  25.0000   0.0000
democracy1_2   100.0000    0.0000  43.7500   0.0000
peaceyrs        90.3505   33.3333  43.3162  52.7273
spline1         68.2102   70.4934  18.2306  56.7680
```

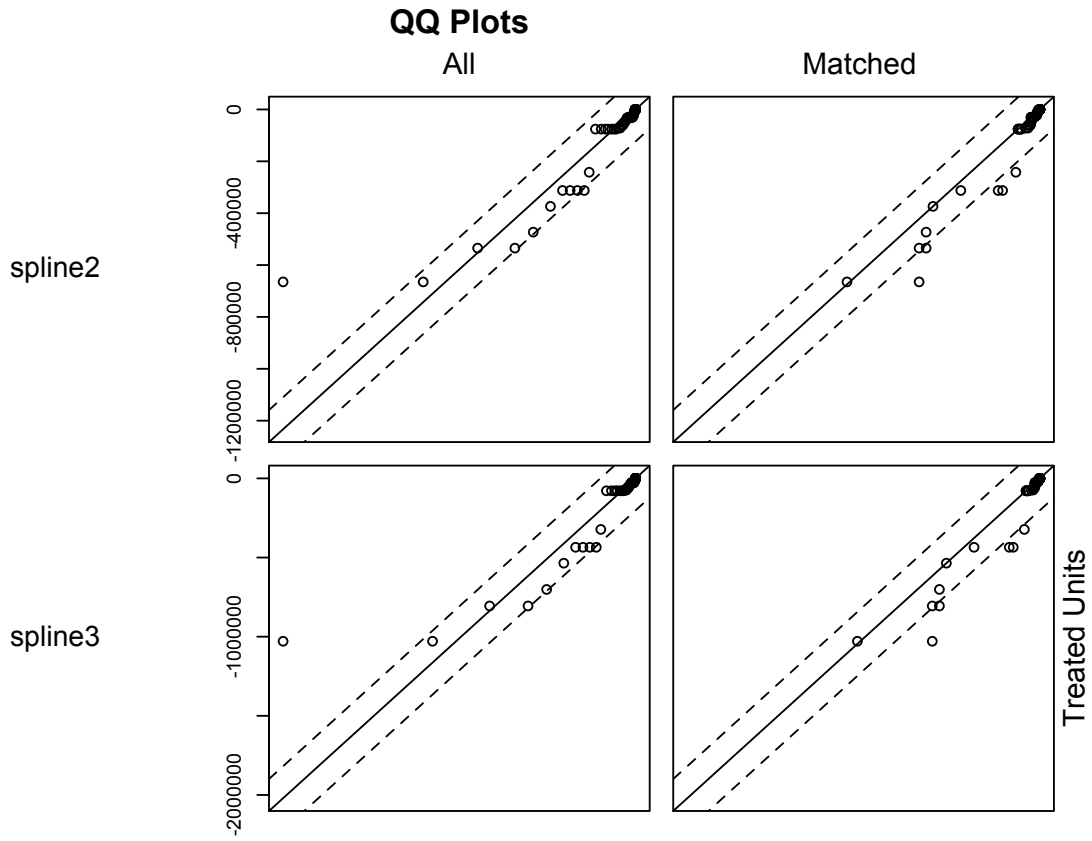
```
spline2          62.9251   84.7451  18.2211  57.2921
spline3          55.3180   85.5731  19.5480  58.3916

Sample sizes:
           Control Treated
All         166579      72
Matched         64      72
Unmatched   166515       0
Discarded        0       0
```

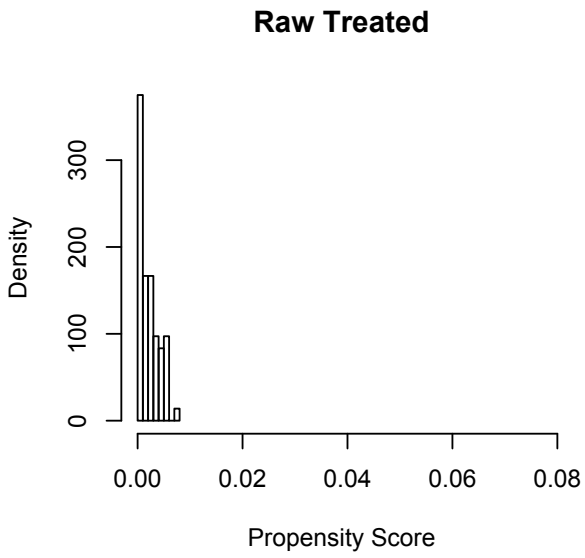


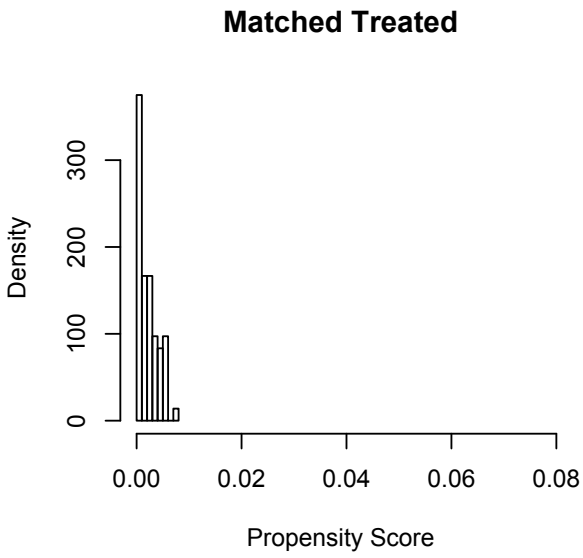

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

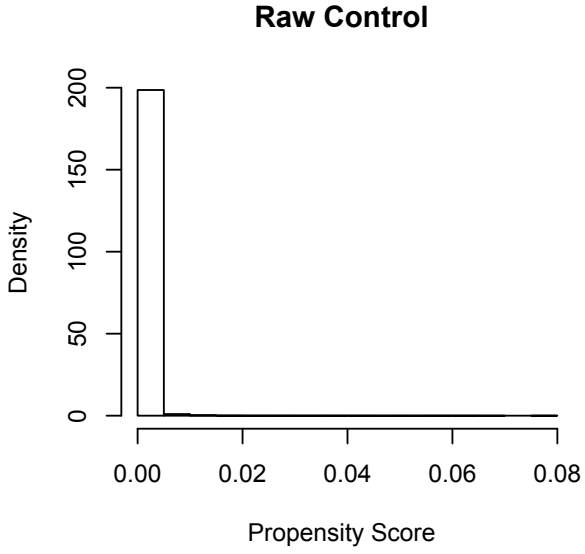

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

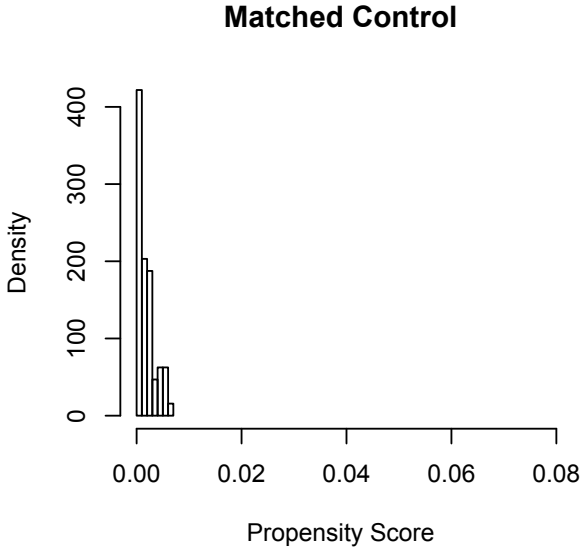

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
100
200
300
0.00
0.02
0.04
0.06
0.08
Propensity Score


Matched Treated
Density
0
100
200
300
0.00
0.02
0.04
0.06
0.08
Propensity Score


Raw Control
Density
0
50
100
150
200
0.00
0.02
0.04
0.06
0.08
Propensity Score


Matched Control
Density
0
100
200
300
400
0.00
0.02
0.04
0.06
0.08
Propensity Score

OVERT RESTORATION FIRC: ANALYSIS OF MATCHED DATA

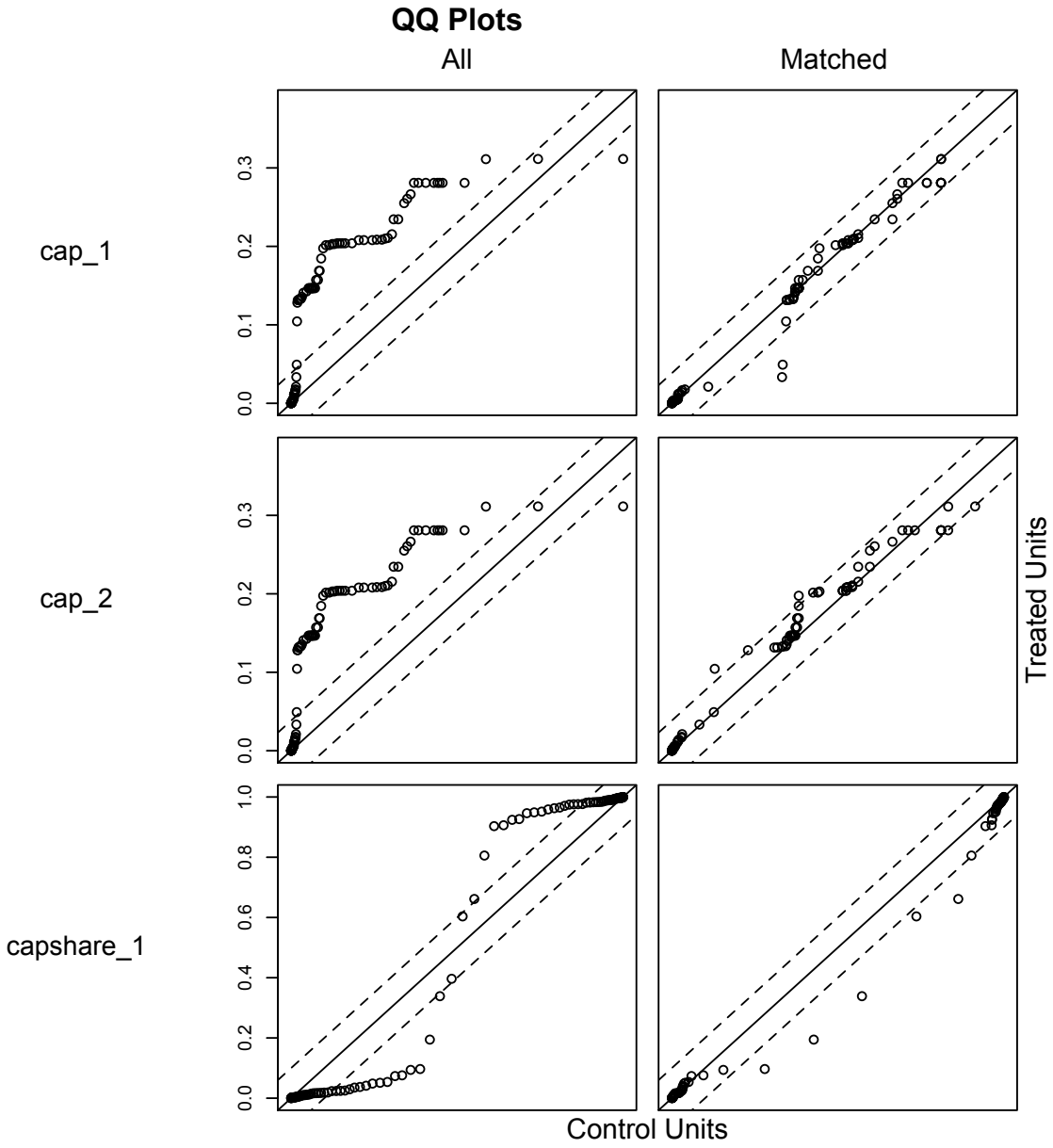
```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
October 2016/ovrestfircmidgenmatchoct16.dta"
(Written by R.              )

ttest cwinit10, by(ovrestfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      64        .125    .0416667    .3333333    .0417358    .2082642
       1 |      72    .0138889    .0138889    .1178511   -.0138048    .0415825
---------+--------------------------------------------------------------------
combined |     136    .0661765    .0213952    .2495093    .0238633    .1084897
---------+--------------------------------------------------------------------
    diff |            .1111111      .04194                .0281611    .1940611
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   2.6493
Ho: diff = 0                                     degrees of freedom =      134

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9955         Pr(|T| > |t|) = 0.0090          Pr(T > t) = 0.0045

ttest midinit_fatal10, by(ovrestfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      64       .0625    .0304969     .243975    .0015569    .1234431
       1 |      72           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |     136    .0294118    .0145416    .1695823     .000653    .0581705
---------+--------------------------------------------------------------------
    diff |               .0625    .0287393                .0056586    .1193414
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   2.1747
Ho: diff = 0                                     degrees of freedom =      134

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9843         Pr(|T| > |t|) = 0.0314          Pr(T > t) = 0.0157

ttest midinit_war10, by(ovrestfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      64     .015625     .015625        .125   -.0155991    .0468491
       1 |      72           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |     136    .0073529    .0073529    .0857493   -.0071889    .0218948
---------+--------------------------------------------------------------------
    diff |             .015625    .0147245               -.0134975    .0447475
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   1.0612
Ho: diff = 0                                     degrees of freedom =      134

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8547         Pr(|T| > |t|) = 0.2905          Pr(T > t) = 0.1453
```

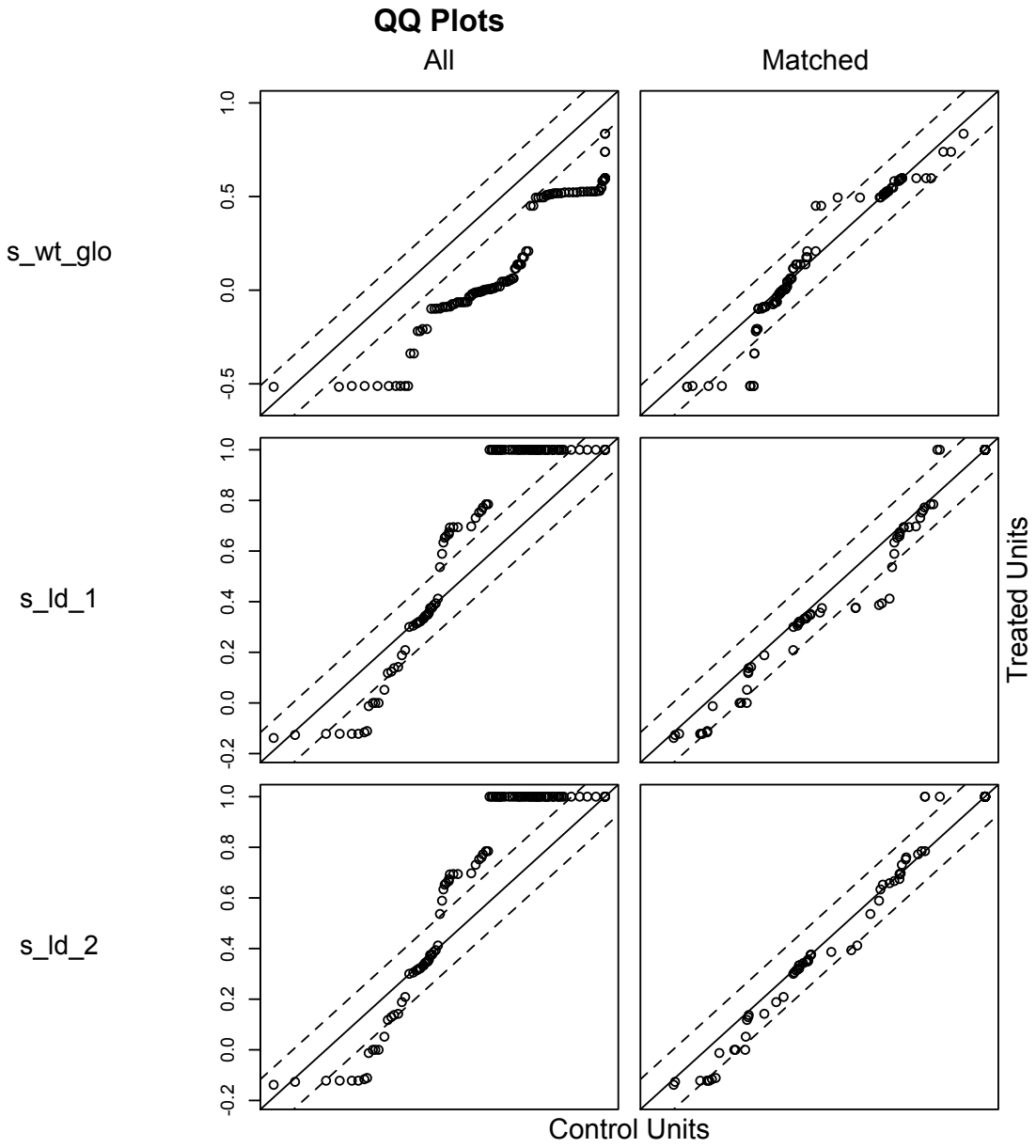
```
probit cwinit10 ovrestfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -33.134283
Iteration 1:   log pseudolikelihood = -24.562222
Iteration 2:   log pseudolikelihood = -22.432537
Iteration 3:   log pseudolikelihood = -22.174751
Iteration 4:   log pseudolikelihood = -22.166564
Iteration 5:   log pseudolikelihood =  -22.16655
Iteration 6:   log pseudolikelihood =  -22.16655

Probit regression                                 Number of obs   =        136
                                                  Wald chi2(10)   =      24.58
                                                  Prob > chi2     =     0.0062
Log pseudolikelihood =  -22.16655                 Pseudo R2       =     0.3310

                              (Std. Err. adjusted for 117 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  ovrestfirc |  -1.324709   .4272427    -3.10   0.002    -2.162089   -.4873285
       cap_1 |  -4.054851   2.759729    -1.47   0.142     -9.46382    1.354118
       cap_2 |   .0182207   4.506486     0.00   0.997     -8.81433    8.850771
  capshare_1 |   2.053016    .807742     2.54   0.011     .4698709    3.636161
    s_wt_glo |   1.008253   1.006212     1.00   0.316     -.963886    2.980392
       s_ld_1 |  -3.777318   1.349242    -2.80   0.005    -6.421783   -1.132853
       s_ld_2 |   4.344746   1.631107     2.66   0.008     1.147834    7.541657
  lndistance |  -.0631087   .0698514    -0.90   0.366     -.200015    .0737975
  democracy1 |   .2853431    .531206     0.54   0.591    -.7558015    1.326488
  democracy2 |  -.4433768   .4048872    -1.10   0.273    -1.236941    .3501875
       _cons |  -3.233992   1.235441    -2.62   0.009    -5.655411   -.8125727
------------------------------------------------------------------------------
Note: 5 failures and 0 successes completely determined.
```

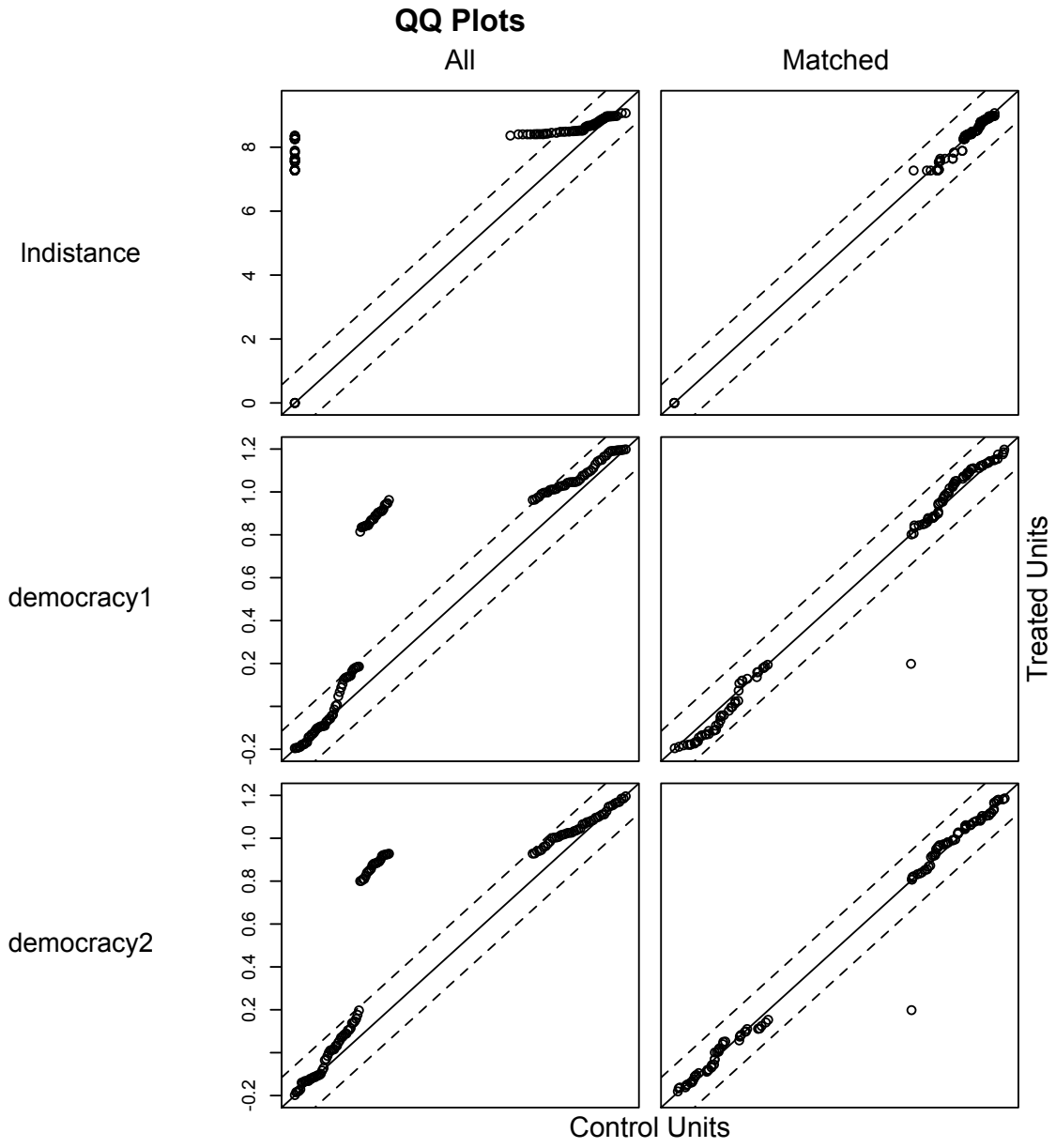
COVERT FIRC (ALL)

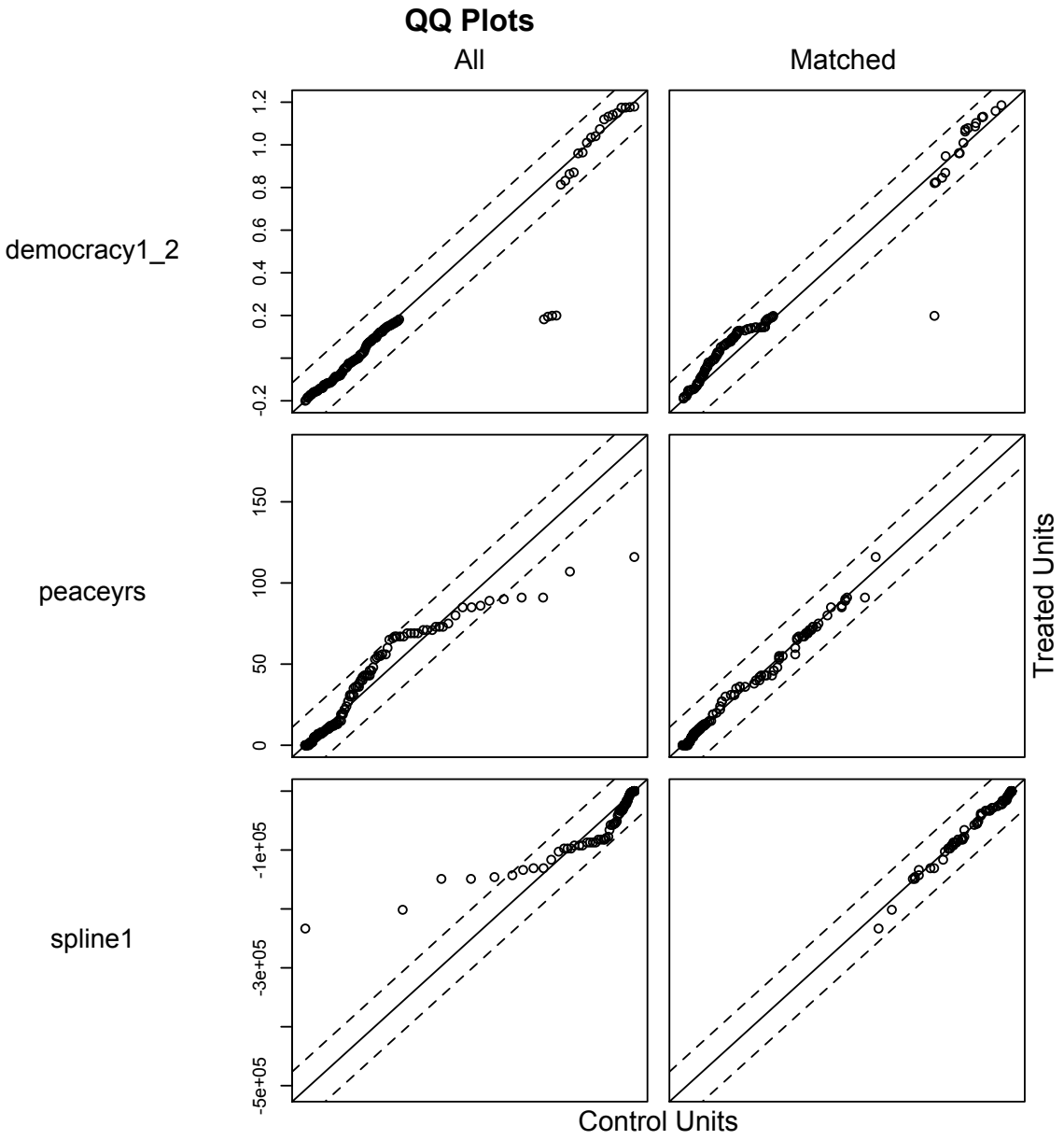
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

covfirc=read.dta("covfircmidformatchoct16.dta")

covfirc.out1 <- matchit(covertfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=covfirc, method="genetic", pop.size=200)

summary(covfirc.out1)

Call:
matchit(formula = covertfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = covfirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
             Means Treated Means Control  SD Control Mean Diff   eQQ Med   eQQ Mean      eQQ Max
distance            0.0118        0.0006      0.0034    0.0111    0.0049     0.0098       0.0972
cap_1               0.1055        0.0401      0.0615    0.0653    0.0765     0.0649       0.1613
cap_2               0.1054        0.0401      0.0615    0.0653    0.0765     0.0649       0.1613
capshare_1          0.5000        0.5000      0.4148    0.0000    0.0312     0.0720       0.2919
s_wt_glo            0.1633        0.5332      0.3365   -0.3699    0.3988     0.3680       0.5574
s_ld_1              0.6710        0.5505      0.2604    0.1205    0.1917     0.1727       0.4141
s_ld_2              0.6710        0.5505      0.2604    0.1206    0.1917     0.1726       0.4141
lndistance          8.0942        5.3249      3.9454    2.7692    0.5648     2.7954       8.3645
democracy1          0.5789        0.3868      0.4870    0.1922    0.0000     0.1930       1.0000
democracy2          0.5789        0.3868      0.4870    0.1922    0.0000     0.1930       1.0000
democracy1_2        0.1579        0.1935      0.3950   -0.0356    0.0000     0.0351       1.0000
peaceyrs           32.9561       32.0630     32.0963    0.8931    3.0000     6.4649      68.0000
spline1        -35576.5279   -35629.2778  67796.3443   52.7499 2081.8260 14252.6655  273561.0000
spline2        -74592.5955   -75910.7530 159546.7293 1318.1575 2555.0220 33558.5574  689460.8750
spline3        -95496.2965  -102781.7461 245272.7897 7285.4496 2192.2719 51330.1954 1199120.8750


Summary of balance for matched data:
             Means Treated Means Control  SD Control  Mean Diff  eQQ Med  eQQ Mean     eQQ Max
distance            0.0118        0.0116      0.0241     0.0001   0.0003    0.0012      0.0348
cap_1               0.1055        0.1045      0.1069     0.0009   0.0008    0.0056      0.0940
cap_2               0.1054        0.1026      0.1081     0.0028   0.0034    0.0084      0.0549
capshare_1          0.5000        0.5015      0.4796    -0.0015   0.0033    0.0160      0.2340
s_wt_glo            0.1633        0.1771      0.3132    -0.0138   0.0221    0.0562      0.3902
s_ld_1              0.6710        0.6814      0.3713    -0.0104   0.0127    0.0334      0.2456
s_ld_2              0.6710        0.6823      0.3648    -0.0113   0.0000    0.0261      0.2153
lndistance          8.0942        8.0970      1.6271    -0.0028   0.0377    0.0615      0.4775
democracy1          0.5789        0.5702      0.4973     0.0088   0.0000    0.0091      1.0000
democracy2          0.5789        0.5877      0.4945    -0.0088   0.0000    0.0091      1.0000
democracy1_2        0.1579        0.1579      0.3663     0.0000   0.0000    0.0091      1.0000
peaceyrs           32.9561       32.4298     29.7396     0.5263   1.0000    1.6909     11.0000
spline1        -35576.5279   -34553.5908  47913.3892 -1022.9371 252.2174 2245.2257  28377.0938
spline2        -74592.5955   -72419.1574 106779.1808 -2173.4381 238.5978 4924.2967  70644.8125
spline3        -95496.2965   -92468.3633 147764.5718 -3027.9332 204.7228 6772.5723 119660.8125

Percent Balance Improvement:
              Mean Diff.  eQQ Med eQQ Mean eQQ Max
distance          98.7523  94.4714  87.9842 64.2193
cap_1             98.5678  98.8967  91.3506 41.7113
cap_2             95.7214  95.5443  87.0230 65.9929
capshare_1   -260695.1463  89.4785  77.7569 19.8352
s_wt_glo          96.2738  94.4681  84.7317 29.9897
s_ld_1            91.3336  93.3693  80.6494 40.6756
s_ld_2            90.6515 100.0000  84.8610 48.0000
lndistance        99.8989  93.3278  97.8017 94.2909
democracy1        95.4353   0.0000  95.2893  0.0000
democracy2        95.4353   0.0000  95.2893  0.0000
democracy1_2     100.0000   0.0000  74.0909  0.0000
peaceyrs          41.0710  66.6667  73.8448 83.8235
spline1        -1839.2192  87.8848  84.2470 89.6268
```

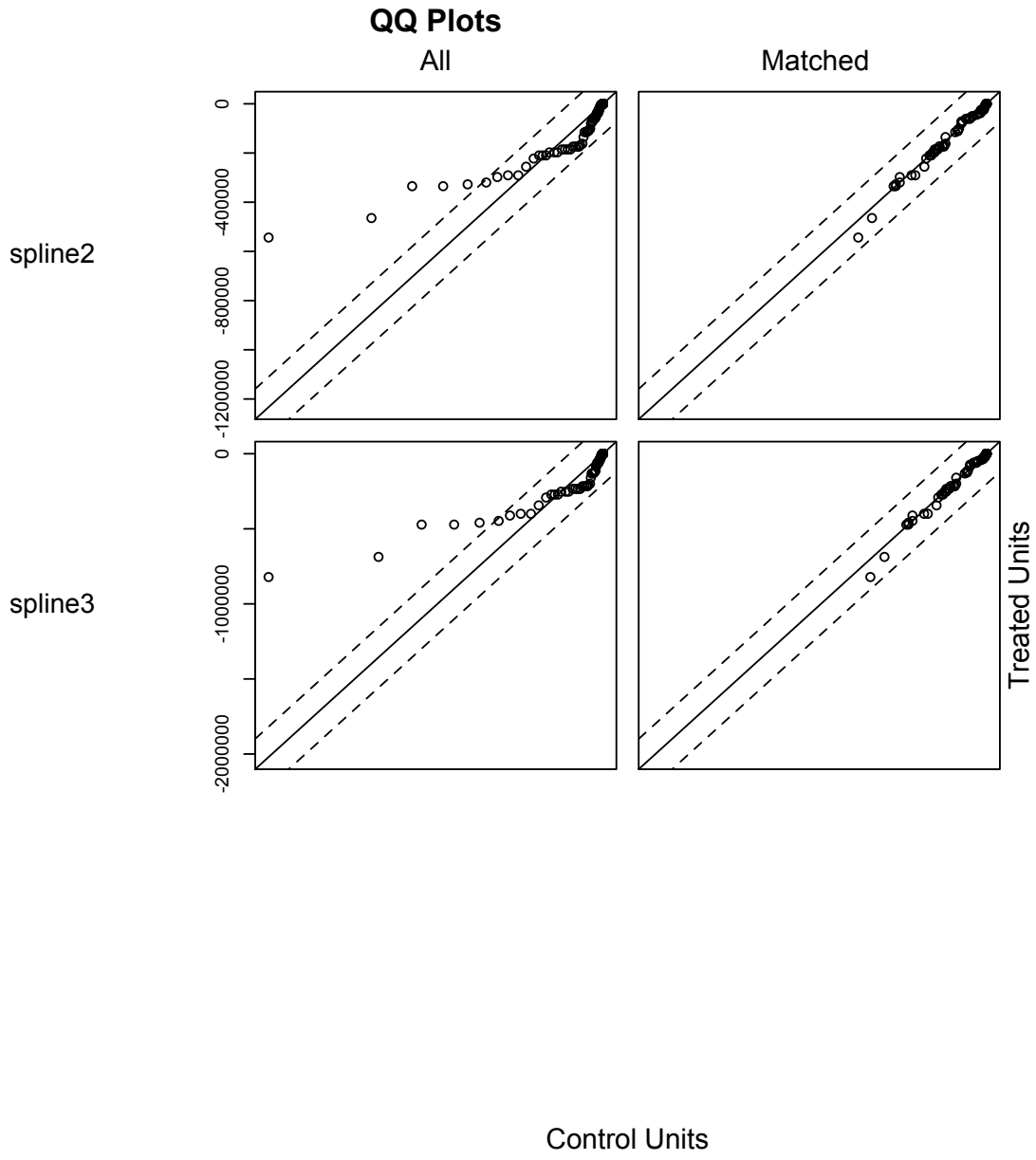
```
spline2          -64.8846  90.6616  85.3263 89.7536
spline3           58.4386  90.6616  86.8059 90.0210
Sample sizes:
          Control Treated
All        173732     114
Matched       110     114
Unmatched  173622       0
Discarded       0       0
```

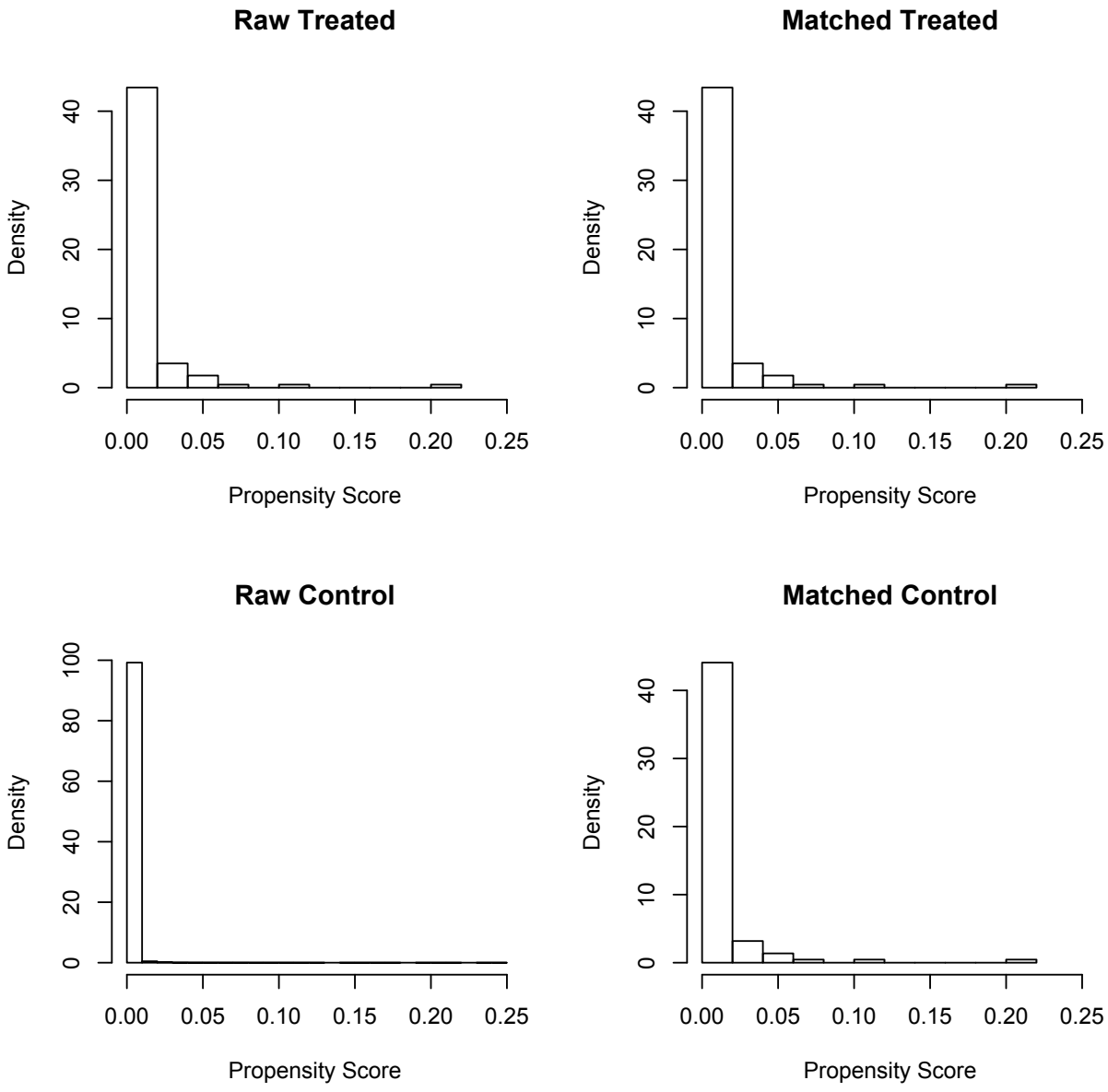



QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2


QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2


QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
10
20
30
40
0.00
0.05
0.10
0.15
0.20
0.25
Propensity Score
Matched Treated
Density
0
10
20
30
40
0.00
0.05
0.10
0.15
0.20
0.25
Propensity Score
Raw Control
Density
0
20
40
60
80
100
0.00
0.05
0.10
0.15
0.20
0.25
Propensity Score
Matched Control
Density
0
10
20
30
40
0.00
0.05
0.10
0.15
0.20
0.25
Propensity Score

COVERT FIRC (ALL): ANALYSIS OF MATCHED DATA

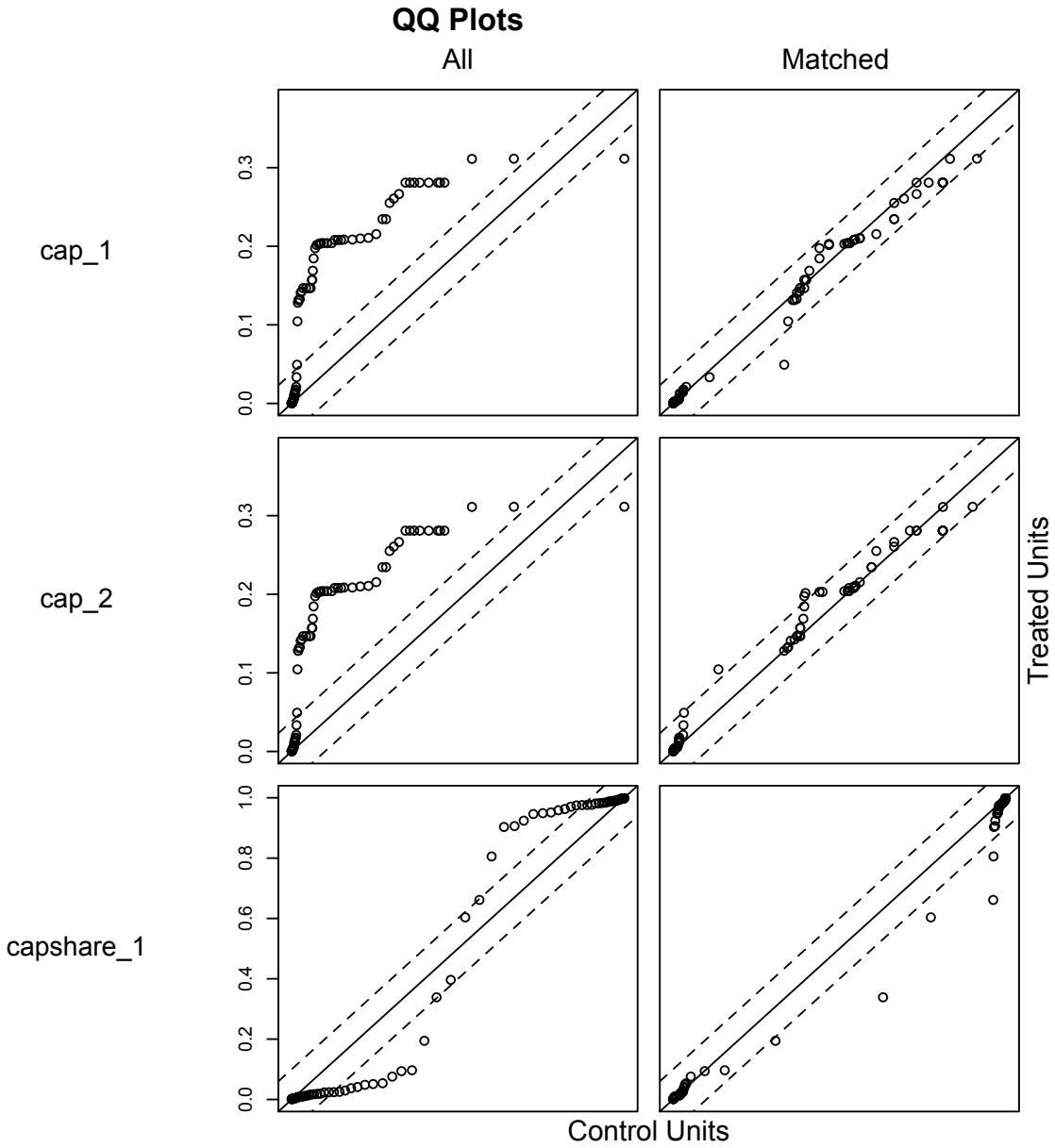
```
use "/Users/andy/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
October 2016/covfircmidgenmatchoct16.dta"
(Written by R.              )

ttest cwinit10, by(covertfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     110    .0454545    .0199514    .2092522    .0059115    .0849976
       1 |     114    .1754386    .0357795     .382021    .1045529    .2463243
---------+--------------------------------------------------------------------
combined |     224    .1116071    .0210861    .3155877    .0700536    .1531606
---------+--------------------------------------------------------------------
    diff |           -.1299841    .0413638               -.2115001    -.048468
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.1425
Ho: diff = 0                                     degrees of freedom =      222

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0010         Pr(|T| > |t|) = 0.0019          Pr(T > t) = 0.9990

ttest midinit_fatal10, by(covertfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     110    .0181818    .0127974      .13422   -.0071822    .0435458
       1 |     114    .1403509     .032676    .3488843    .0756138    .2050879
---------+--------------------------------------------------------------------
combined |     224    .0803571    .0182041    .2724541    .0444831    .1162312
---------+--------------------------------------------------------------------
    diff |           -.1221691    .0355629               -.1922532   -.0520849
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.4353
Ho: diff = 0                                     degrees of freedom =      222

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0004         Pr(|T| > |t|) = 0.0007          Pr(T > t) = 0.9996

ttest midinit_war10, by(covertfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     110           0           0           0           0           0
       1 |     114    .0175439    .0123504    .1318659   -.0069244    .0420122
---------+--------------------------------------------------------------------
combined |     224    .0089286    .0062993     .094279   -.0034852    .0213423
---------+--------------------------------------------------------------------
    diff |           -.0175439    .0125739               -.0423234    .0072356
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.3953
Ho: diff = 0                                     degrees of freedom =      222

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0822         Pr(|T| > |t|) = 0.1643          Pr(T > t) = 0.9178
```

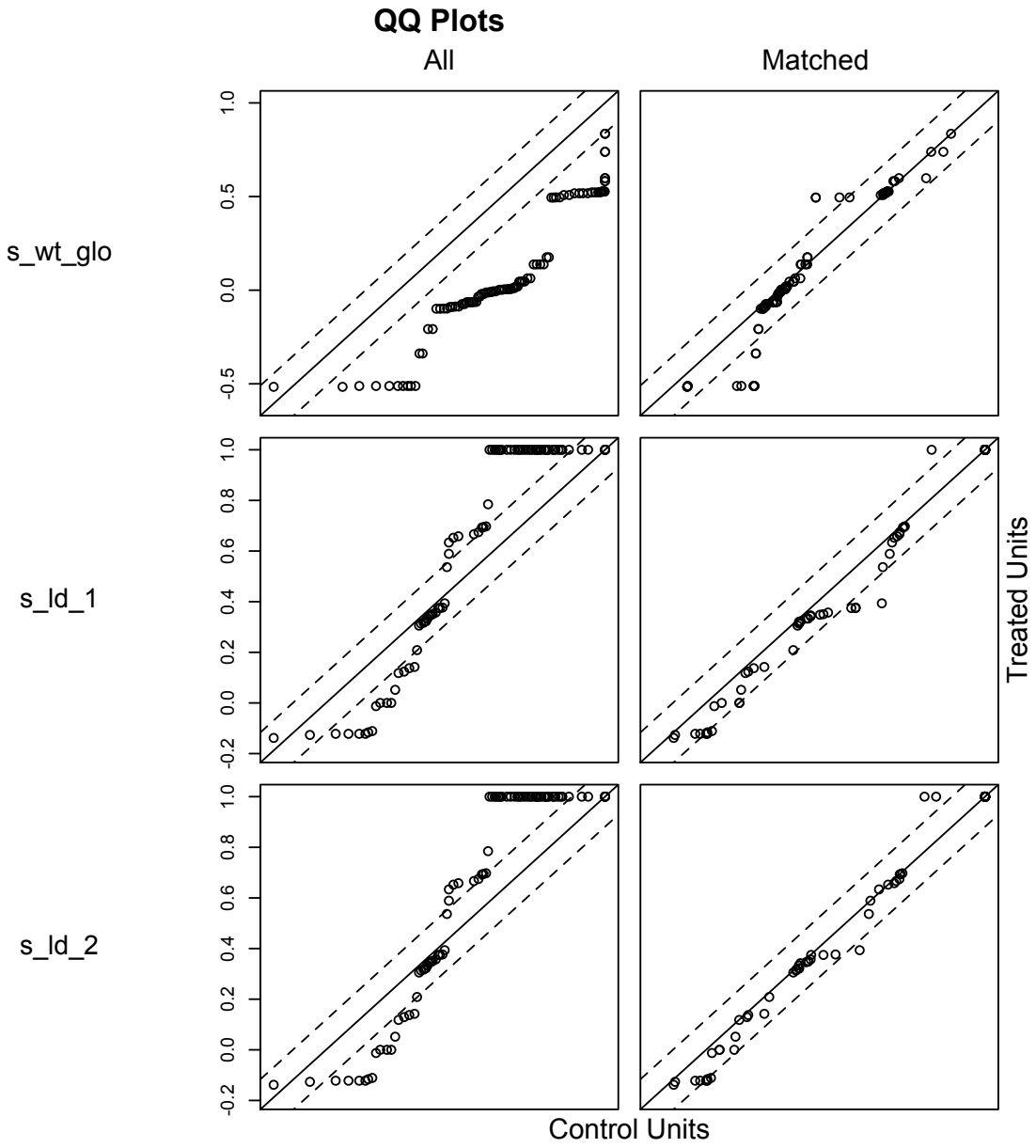
```
probit cwinit10 covertfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1,
robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood =  -78.36916
Iteration 1:   log pseudolikelihood = -61.001805
Iteration 2:   log pseudolikelihood = -59.077255
Iteration 3:   log pseudolikelihood =  -58.94977
Iteration 4:   log pseudolikelihood = -58.949461
Iteration 5:   log pseudolikelihood = -58.949461

Probit regression                                 Number of obs   =        224
                                                  Wald chi2(9)    =      34.18
                                                  Prob > chi2     =     0.0001
Log pseudolikelihood = -58.949461                 Pseudo R2       =     0.2478

                            (Std. Err. adjusted for 170 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  covertfirc |   1.045641   .3437494     3.04   0.002     .3719046    1.719377
       cap_1 |  -.2325851   3.200479    -0.07   0.942    -6.505408    6.040238
       cap_2 |   7.474093   3.912741     1.91   0.056    -.1947383    15.14293
  capshare_1 |   3.052333   1.815794     1.68   0.093    -.5065582    6.611224
    s_wt_glo |  -.2436168   .8567698    -0.28   0.776    -1.922855    1.435621
      s_ld_1 |   1.365124    1.27701     1.07   0.285     -1.13777    3.868018
      s_ld_2 |  -.3918288   1.280946    -0.31   0.760    -2.902436    2.118779
  lndistance |   -.201189   .0672679    -2.99   0.003    -.3330317   -.0693462
  democracy1 |  -2.478298   1.313894    -1.89   0.059    -5.053483    .0968878
       _cons |  -2.020909   2.046873    -0.99   0.323    -6.032707    1.990889
------------------------------------------------------------------------------
```

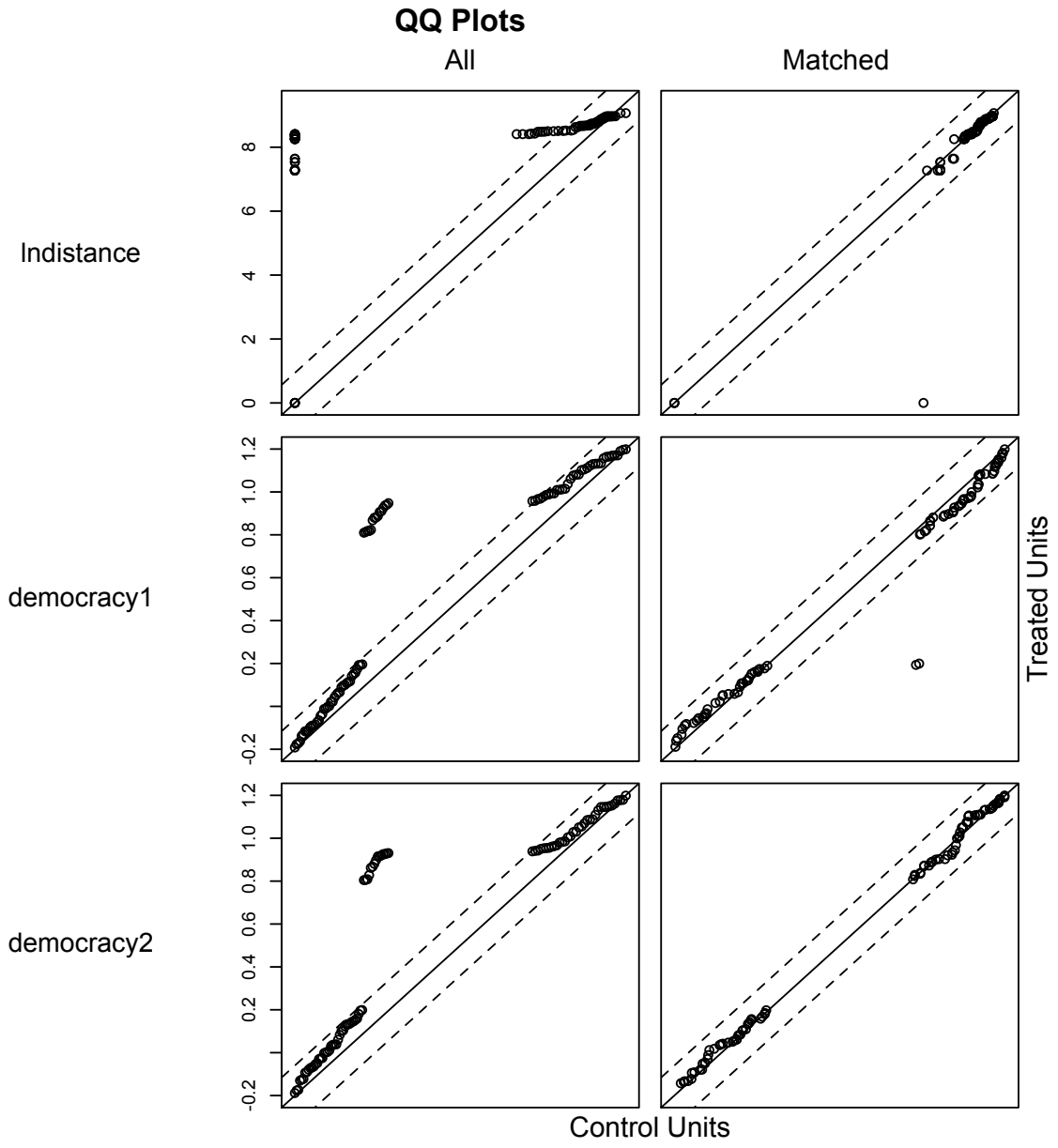
COVERT LEADERSHIP FIRC

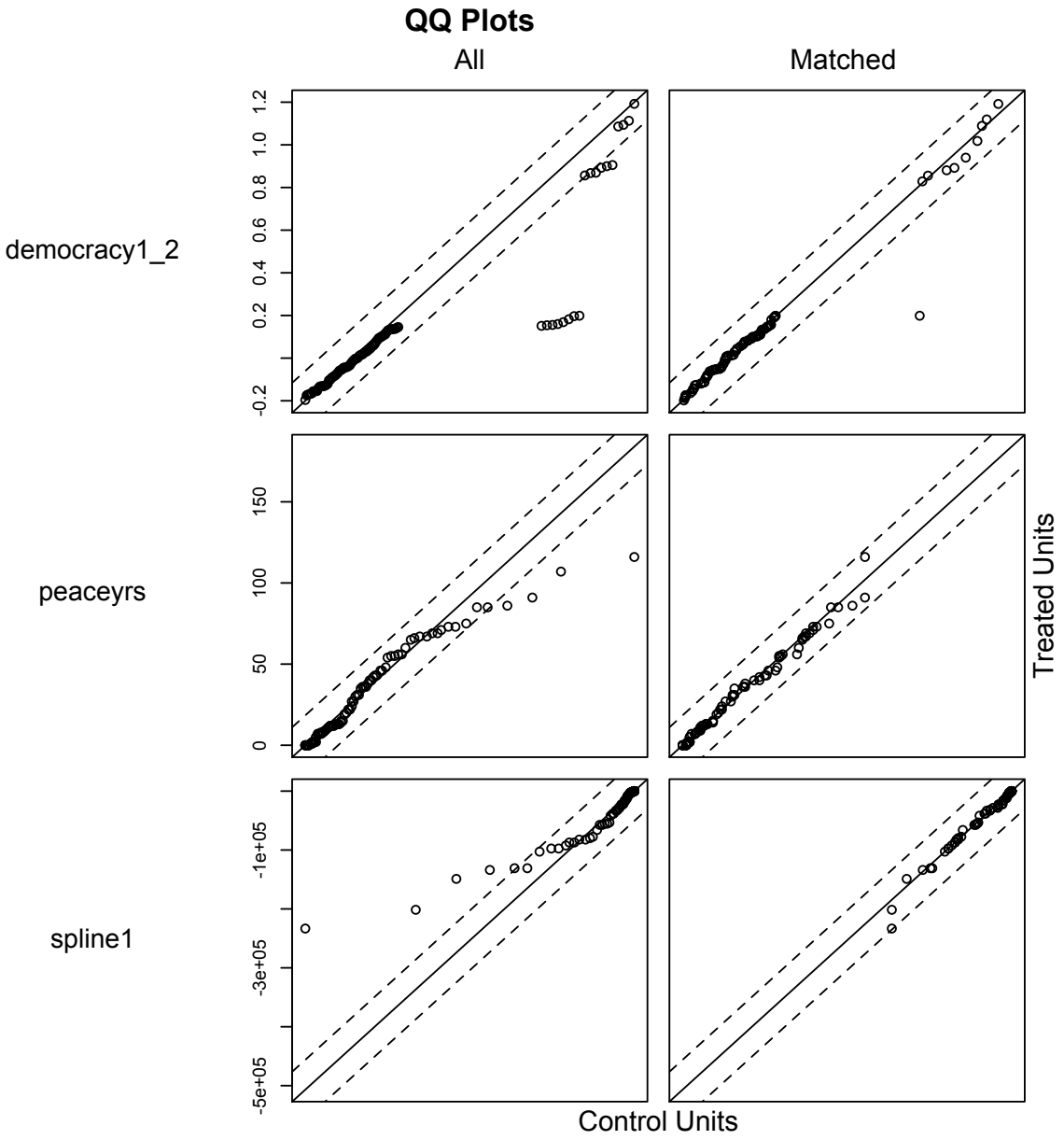
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

clfirc.out1 <- matchit(covleaderfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=clfirc, method="genetic", pop.size=200)

summary(clfirc.out1)

Call:
matchit(formula = covleaderfirc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = clfirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
             Means Treated Means Control  SD Control  Mean Diff   eQQ Med   eQQ Mean       eQQ Max
distance            0.0168        0.0005      0.0034     0.0162    0.0038     0.0134        0.1832
cap_1               0.1128        0.0401      0.0615     0.0727    0.0851     0.0724        0.1727
cap_2               0.1128        0.0401      0.0615     0.0727    0.0851     0.0724        0.1727
capshare_1          0.5000        0.5000      0.4148     0.0000    0.0293     0.0665        0.2650
s_wt_glo            0.1051        0.5332      0.3365    -0.4280    0.4345     0.4255        0.5929
s_ld_1              0.6398        0.5505      0.2604     0.0893    0.1845     0.1745        0.4141
s_ld_2              0.6398        0.5505      0.2604     0.0893    0.1845     0.1745        0.4141
lndistance          8.1133        5.3249      3.9454     2.7884    0.6173     2.8431        8.4092
democracy1          0.5556        0.3868      0.4870     0.1688    0.0000     0.1667        1.0000
democracy2          0.5556        0.3868      0.4870     0.1688    0.0000     0.1667        1.0000
democracy1_2        0.1111        0.1935      0.3950    -0.0824    0.0000     0.0889        1.0000
peaceyrs           29.8889       32.0630     32.0963    -2.1741    3.0000     5.0333       68.0000
spline1        -30477.4969   -35629.2778  67796.3443  5151.7809 2211.2607 11620.0196  273561.0000
spline2        -63237.1787   -75910.7530 159546.7293 12673.5743 3291.6785 27780.5201  689460.8750
spline3        -80302.7925  -102781.7461 245272.7897 22478.9536 2848.3665 44597.4266 1199120.8750


Summary of balance for matched data:
             Means Treated Means Control  SD Control  Mean Diff  eQQ Med  eQQ Mean     eQQ Max
distance            0.0168        0.0165      0.0399     0.0003   0.0002    0.0025      0.1013
cap_1               0.1128        0.1118      0.1152     0.0010   0.0014    0.0075      0.0789
cap_2               0.1128        0.1112      0.1154     0.0016   0.0017    0.0080      0.0521
capshare_1          0.5000        0.5011      0.4812    -0.0011   0.0041    0.0192      0.3009
s_wt_glo            0.1051        0.1238      0.2982    -0.0187   0.0222    0.0630      0.3942
s_ld_1              0.6398        0.6492      0.3904    -0.0095   0.0124    0.0345      0.2365
s_ld_2              0.6398        0.6558      0.3880    -0.0159   0.0000    0.0232      0.2171
lndistance          8.1133        8.1954      1.5922    -0.0821   0.0449    0.1439      7.0707
democracy1          0.5556        0.5556      0.4998     0.0000   0.0000    0.0227      1.0000
democracy2          0.5556        0.5556      0.4998     0.0000   0.0000    0.0000      0.0000
democracy1_2        0.1111        0.1111      0.3161     0.0000   0.0000    0.0114      1.0000
peaceyrs           29.8889       30.0000     28.1884    -0.1111   1.0000    1.8068     14.0000
spline1        -30477.4969   -30096.8849  44796.4142  -380.6120 237.6956 2263.5896  48834.5000
spline2        -63237.1787   -62240.9636  99811.8756  -996.2151 218.7880 5063.4447 121358.7188
spline3        -80302.7925   -78475.5972 138004.2092 -1827.1952 187.7255 7194.9464 204763.7500

Percent Balance Improvement:
              Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance          98.1194  94.0299  81.2444  44.7390
cap_1             98.5626  98.3985  89.6471  54.2928
cap_2             97.7805  98.0407  88.9901  69.8123
capshare_1   -143359.6525  85.9669  71.1834 -13.5763
s_wt_glo          95.6307  94.8837  85.1952  33.5086
s_ld_1            89.4113  93.2591  80.2349  42.8773
s_ld_2            82.1595 100.0000  86.7138  47.5815
lndistance        97.0549  92.7324  94.9391  15.9164
democracy1       100.0000   0.0000  86.3636   0.0000
democracy2       100.0000   0.0000 100.0000 100.0000
democracy1_2     100.0000   0.0000  87.2159   0.0000
peaceyrs          94.8894  66.6667  64.1030  79.4118
spline1           92.6120  89.2507  80.5199  82.1486
spline2           92.1394  93.3533  81.7734  82.3980
spline3           91.8715  93.4094  83.8669  82.9238
```

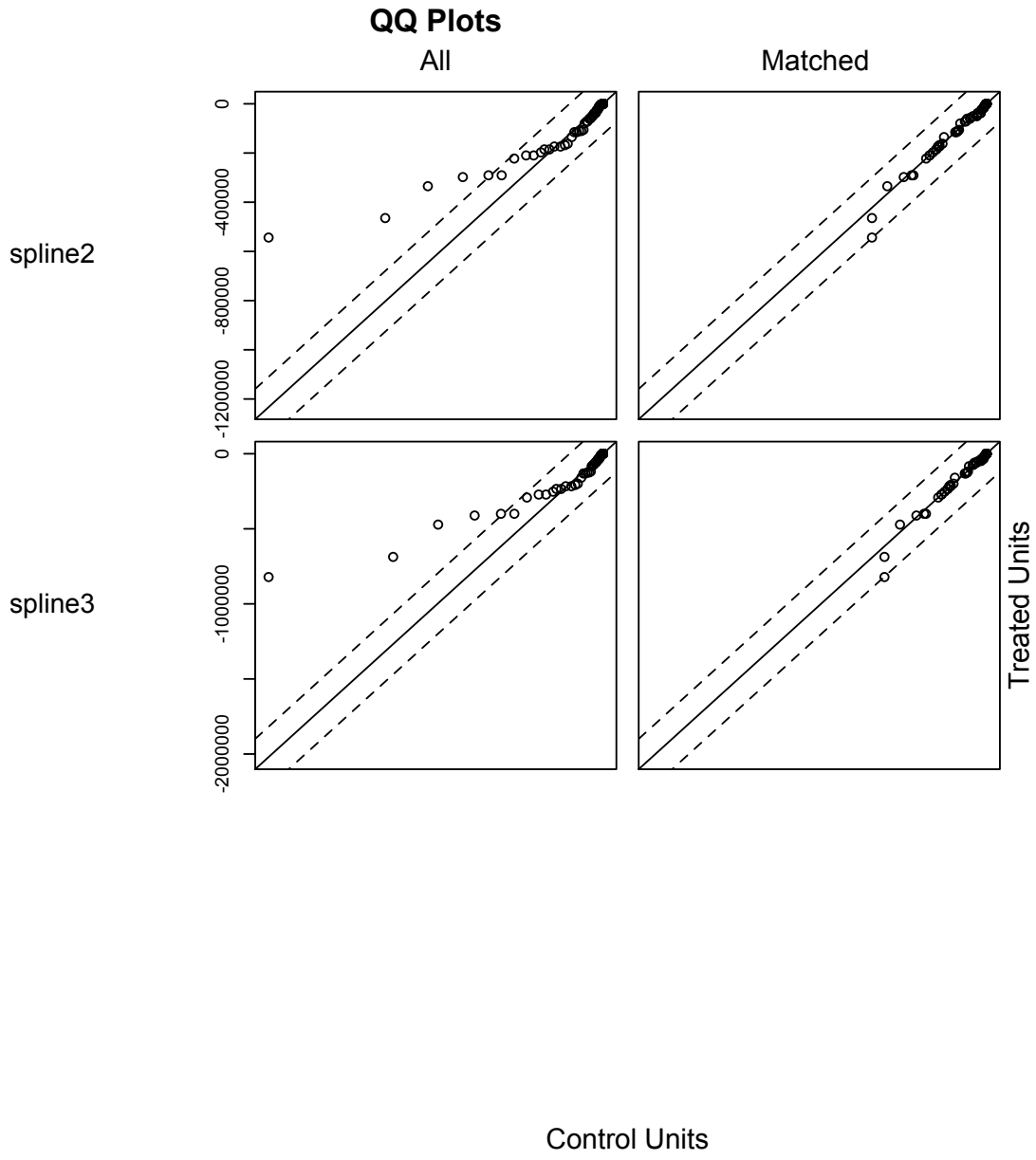
```
Sample sizes:
          Control Treated
All        173732      90
Matched        88      90
Unmatched  173644       0
Discarded       0       0
```

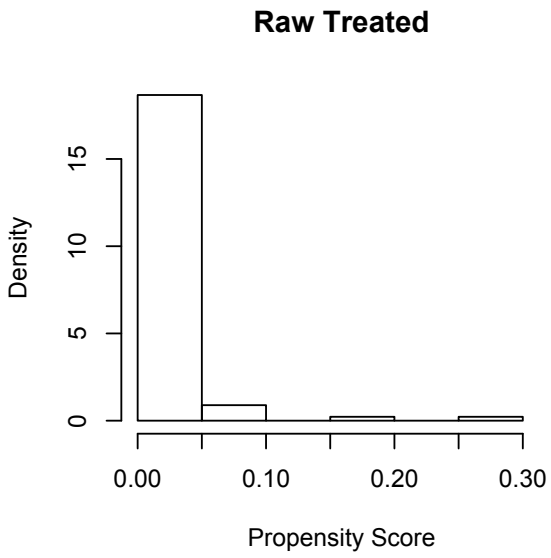


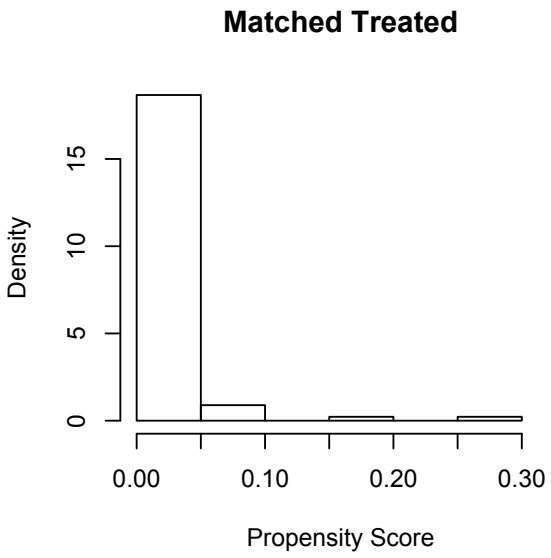

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

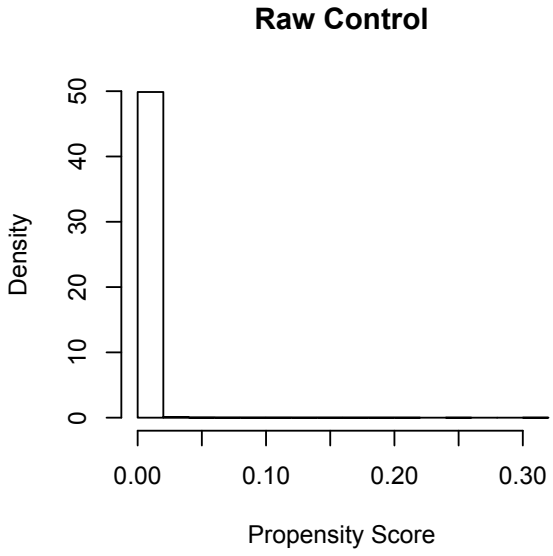

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

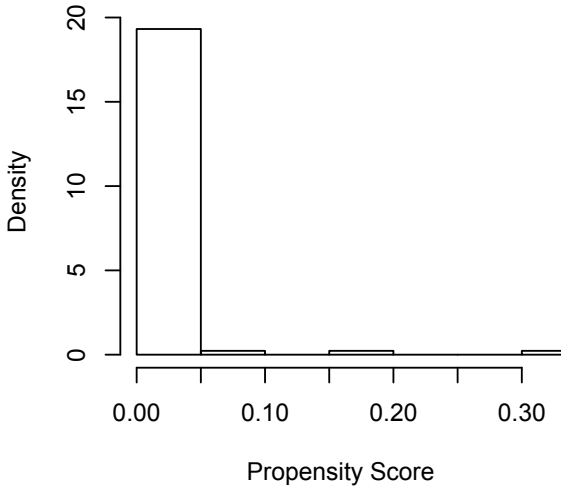

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
5
10
15
0.00
0.10
0.20
0.30
Propensity Score


Matched Treated
Density
0
5
10
15
0.00
0.10
0.20
0.30
Propensity Score


Raw Control
Density
0
10
20
30
40
50
0.00
0.10
0.20
0.30
Propensity Score


Matched Control
Density
0
5
10
15
20
0.00
0.10
0.20
0.30
Propensity Score

COVERT LEADERSHIP FIRC: ANALYSIS OF MATCHED DATA

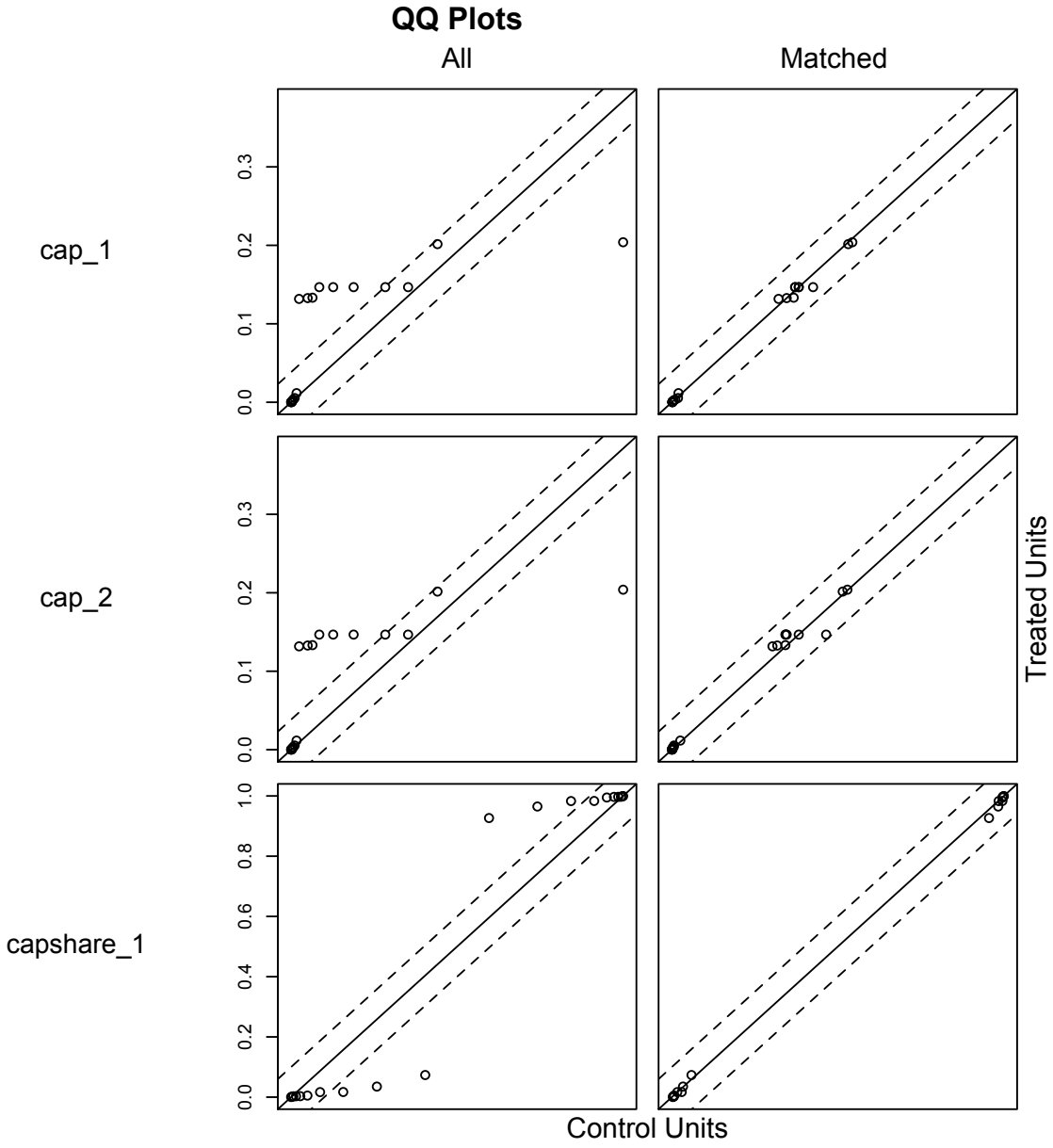
```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/covleadfircmidgenm
> atchnov16.dta"
(Written by R.              )

. ttest cwinit10, by(covleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      88    .0113636    .0113636    .1066004   -.0112228    .0339501
       1 |      90    .1777778    .0405264    .3844675    .0972526    .2583029
---------+--------------------------------------------------------------------
combined |     178    .0955056    .0220918    .2947411    .0519084    .1391028
---------+--------------------------------------------------------------------
    diff |           -.1664141    .0424991               -.2502877   -.0825406
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.9157
Ho: diff = 0                                     degrees of freedom =      176

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0001         Pr(|T| > |t|) = 0.0001          Pr(T > t) = 0.9999

. ttest midinit_fatal10, by(covleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      88    .0113636    .0113636    .1066004   -.0112228    .0339501
       1 |      90    .1555556    .0384179    .3644639    .0792201     .231891
---------+--------------------------------------------------------------------
combined |     178    .0842697    .0208801    .2785754    .0430637    .1254757
---------+--------------------------------------------------------------------
    diff |           -.1441919    .0404464               -.2240143   -.0643695
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.5650
Ho: diff = 0                                     degrees of freedom =      176

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0002         Pr(|T| > |t|) = 0.0005          Pr(T > t) = 0.9998

. ttest midinit_war10, by(covleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      88           0           0           0           0           0
       1 |      90    .0222222     .015625    .1482314   -.0088242    .0532687
---------+--------------------------------------------------------------------
combined |     178     .011236    .0079225    .1056999   -.0043988    .0268708
---------+--------------------------------------------------------------------
    diff |           -.0222222    .0158025               -.053409    .0089646
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.4062
Ho: diff = 0                                     degrees of freedom =      176

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0807         Pr(|T| > |t|) = 0.1614          Pr(T > t) = 0.9193
```

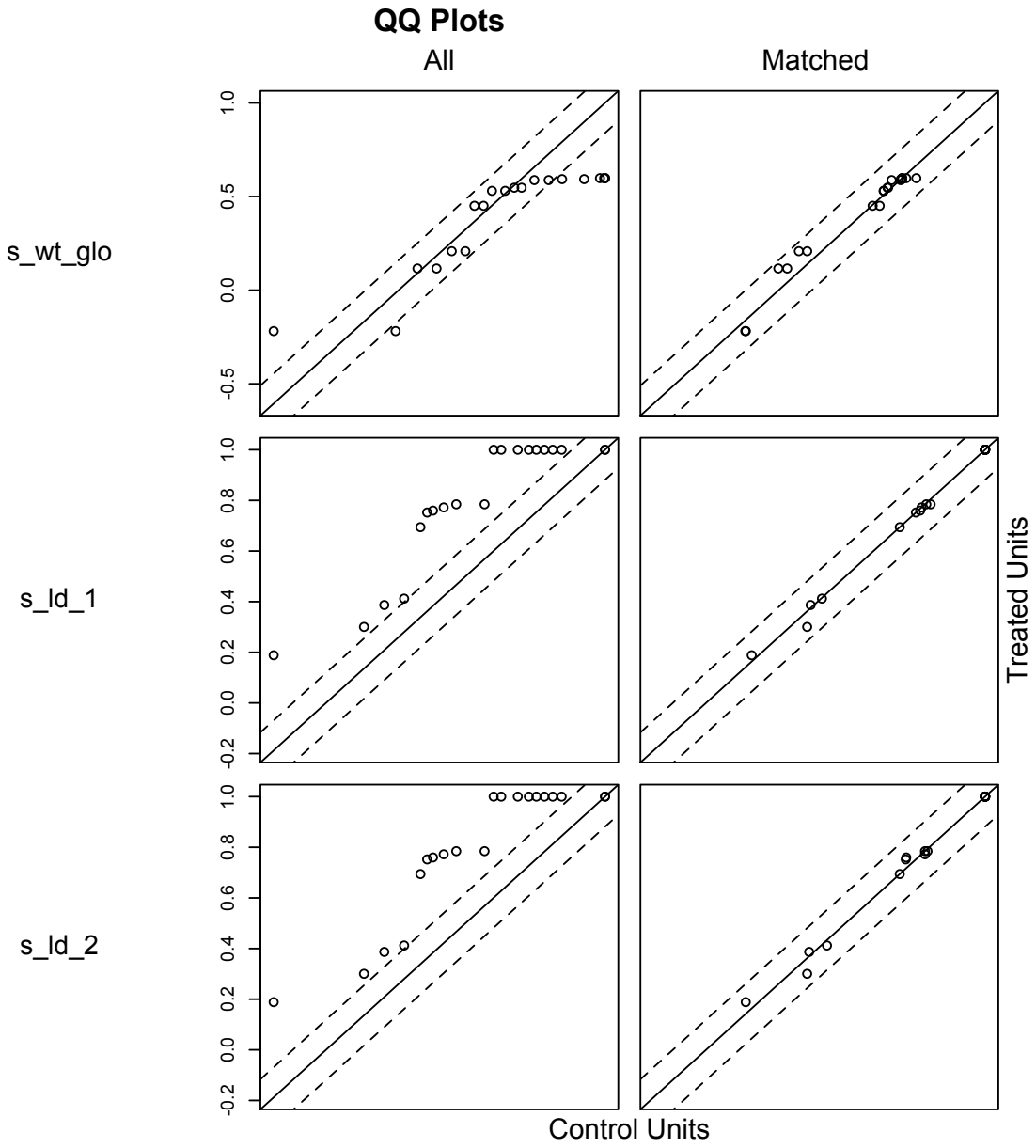
```
probit cwinit10 covleaderfirc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2, robust cluster(dyad_
> id)

Iteration 0:   log pseudolikelihood = -56.086742
Iteration 1:   log pseudolikelihood = -36.463734
Iteration 2:   log pseudolikelihood = -32.882485
Iteration 3:   log pseudolikelihood = -32.145209
Iteration 4:   log pseudolikelihood = -32.084328
Iteration 5:   log pseudolikelihood = -32.075429
Iteration 6:   log pseudolikelihood = -32.074266
Iteration 7:   log pseudolikelihood =  -32.07408
Iteration 8:   log pseudolikelihood = -32.074043
Iteration 9:   log pseudolikelihood = -32.074039
Iteration 10:  log pseudolikelihood = -32.074038

Probit regression                                 Number of obs   =        178
                                                  Wald chi2(10)   =     333.35
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -32.074038                 Pseudo R2       =     0.4281

                              (Std. Err. adjusted for 137 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
covleaderfirc |   1.894724   .7619898     2.49   0.013     .4012517    3.388197
        cap_1 |   .1426737   4.556263     0.03   0.975    -8.787438    9.072785
        cap_2 |   14.48271   5.492405     2.64   0.008     3.717794    25.24763
   capshare_1 |  -.6523106   2.290207    -0.28   0.776    -5.141033    3.836412
     s_wt_glo |   1.778007    1.08628     1.64   0.102     -.351063    3.907077
       s_ld_1 |  -1.205658   1.489868    -0.81   0.418    -4.125747     1.71443
       s_ld_2 |  -3.144616    1.54317    -2.04   0.042    -6.169173   -.1200586
   lndistance |  -.2672781    .088238    -3.03   0.002    -.4402215   -.0943348
   democracy1 |  -6.488494   .8912048    -7.28   0.000    -8.235223   -4.741764
   democracy2 |    -8.8619   2.421403    -3.66   0.000    -13.60776   -4.116038
        _cons |   8.213833   3.316342     2.48   0.013     1.713921    14.71374
------------------------------------------------------------------------------
Note: 18 failures and 0 successes completely determined.
```

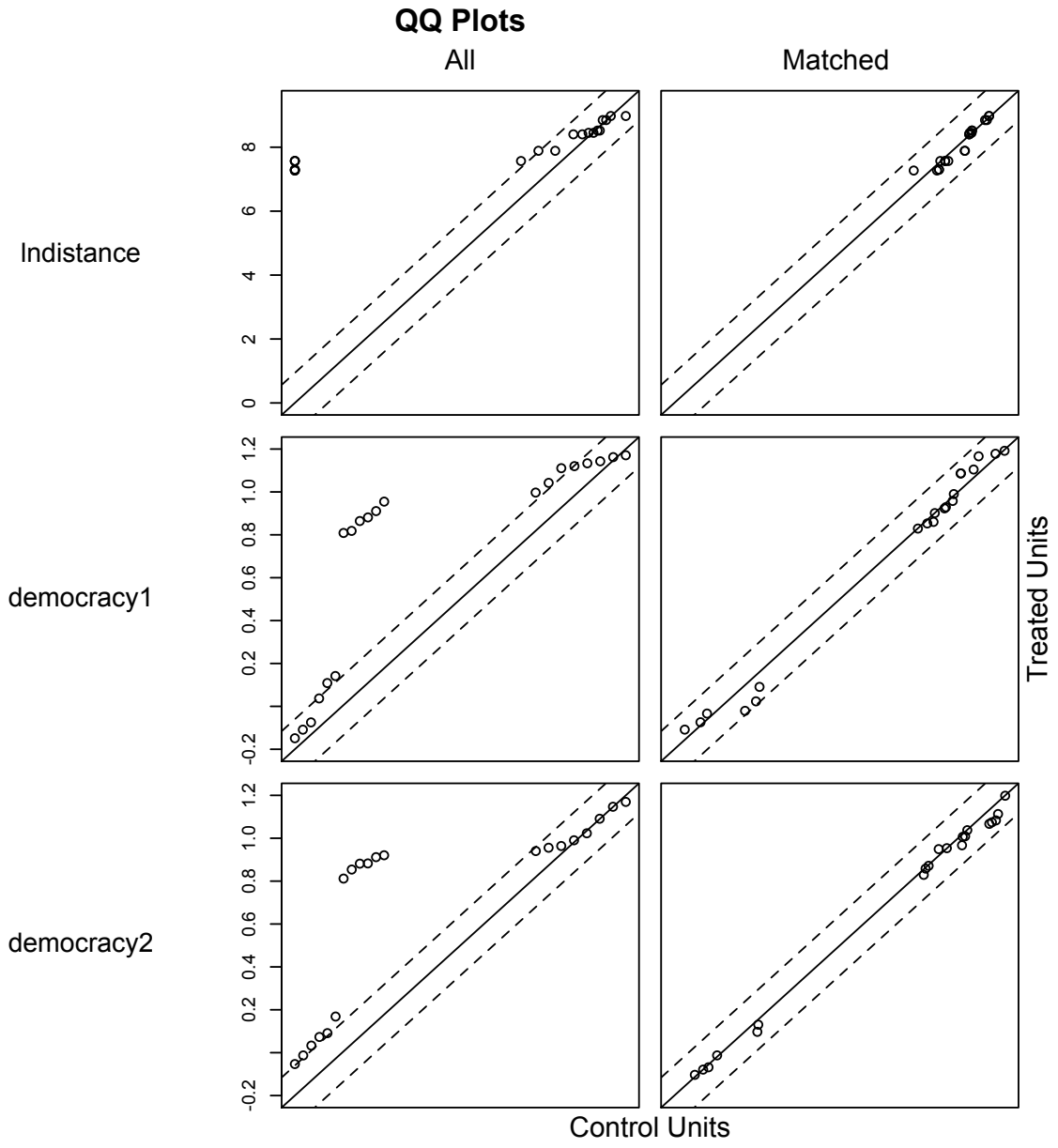
COVERT INSTITUTIONAL FIRC

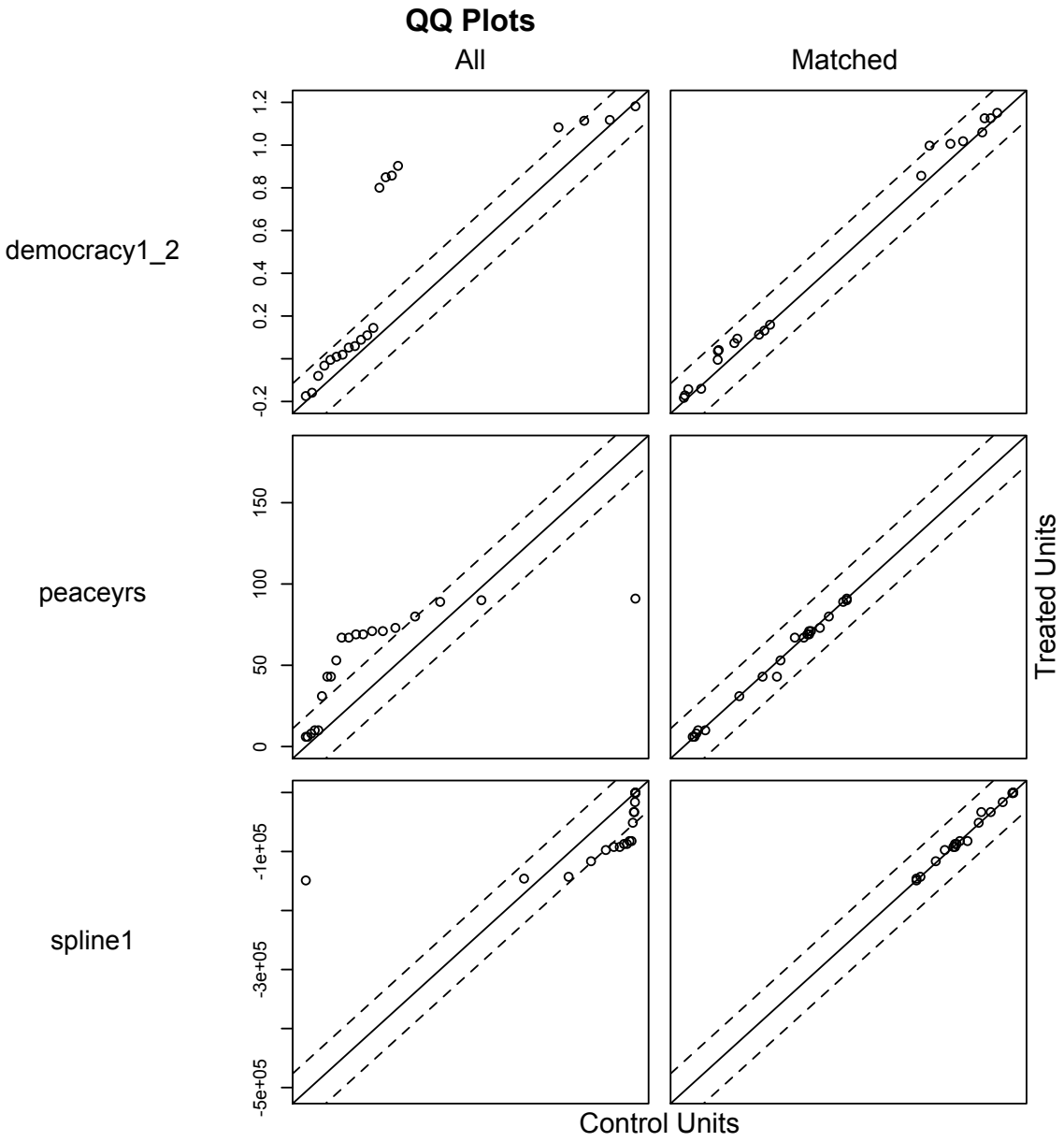
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

cifirc.out1 <- matchit(covinstfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=cifirc, method="genetic", pop.size=200)

summary(cifirc.out1)

Call:
matchit(formula = covinstfirc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = cifirc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
           Means Treated Means Control  SD Control   Mean Diff     eQQ Med    eQQ Mean      eQQ Max
distance          0.0013        0.0001      0.0004      0.0012      0.0010      0.0017       0.0120
cap_1             0.0781        0.0401      0.0615      0.0380      0.0084      0.0451       0.1799
cap_2             0.0781        0.0401      0.0615      0.0380      0.0084      0.0451       0.1799
capshare_1        0.5000        0.5000      0.4148      0.0000      0.0342      0.0850       0.3305
s_wt_glo          0.4010        0.5332      0.3365     -0.1321      0.0991      0.1708       0.4019
s_ld_1            0.7918        0.5505      0.2604      0.2413      0.2597      0.2511       0.3992
s_ld_2            0.7918        0.5505      0.2604      0.2413      0.2597      0.2511       0.3992
lndistance        8.0798        5.3249      3.9454      2.7548      0.4993      2.8054       7.5689
democracy1        0.7000        0.3868      0.4870      0.3132      0.0000      0.3000       1.0000
democracy2        0.7000        0.3868      0.4870      0.3132      0.0000      0.3000       1.0000
democracy1_2      0.4000        0.1935      0.3950      0.2065      0.0000      0.2000       1.0000
peaceyrs         52.3500       32.0630     32.0963     20.2870     25.5000     26.4500      93.0000
spline1       -65613.5599   -35629.2778  67796.3443 -29984.2820  43708.1501  53604.1570  357859.9062
spline2      -140588.4792   -75910.7530 159546.7293 -64677.7262  97159.9150 124060.5606  898182.9062
spline3      -182947.4381  -102781.7461 245272.7897 -80165.6920 131959.2238 183042.6609 1548427.1875


Summary of balance for matched data:
           Means Treated Means Control  SD Control Mean Diff  eQQ Med  eQQ Mean     eQQ Max
distance          0.0013        0.0013      0.0008    0.0000   0.0000    0.0001      0.0005
cap_1             0.0781        0.0788      0.0808   -0.0007   0.0006    0.0028      0.0166
cap_2             0.0781        0.0754      0.0787    0.0027   0.0017    0.0059      0.0317
capshare_1        0.5000        0.5037      0.4997   -0.0037   0.0016    0.0053      0.0286
s_wt_glo          0.4010        0.3892      0.2786    0.0119   0.0213    0.0374      0.1175
s_ld_1            0.7918        0.7948      0.2656   -0.0031   0.0000    0.0067      0.0621
s_ld_2            0.7918        0.7899      0.2683    0.0019   0.0000    0.0124      0.0621
lndistance        8.0798        8.1227      0.5928   -0.0430   0.0737    0.1350      0.4775
democracy1        0.7000        0.7000      0.4702    0.0000   0.0000    0.0000      0.0000
democracy2        0.7000        0.7000      0.4702    0.0000   0.0000    0.0000      0.0000
democracy1_2      0.4000        0.4000      0.5026    0.0000   0.0000    0.0000      0.0000
peaceyrs         52.3500       52.8000     30.6364   -0.4500   1.0000    1.4500      9.0000
spline1       -65613.5599   -66702.3268  52286.9814 1088.7669 549.5654 2594.4273 16135.4375
spline2      -140588.4792  -143082.7302 117450.6806 2494.2510 535.3042 5951.7185 36056.4414
spline3      -182947.4381  -186343.3662 164302.7832 3395.9281 459.3042 8526.8159 45814.8516

Percent Balance Improvement:
               Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance     9.732470e+01  95.5755  95.0117  95.6813
cap_1        9.805860e+01  93.1783  93.7009  90.7785
cap_2        9.290540e+01  79.3624  86.9996  82.3928
capshare_1  -5.188502e+08  95.3146  93.7657  91.3407
s_wt_glo     9.102480e+01  78.5304  78.0951  70.7731
s_ld_1       9.873100e+01 100.0000  97.3162  84.4427
s_ld_2       9.922310e+01 100.0000  95.0786  84.4427
lndistance   9.844030e+01  85.2318  95.1891  93.6907
democracy1   1.000000e+02   0.0000 100.0000 100.0000
democracy2   1.000000e+02   0.0000 100.0000 100.0000
democracy1_2 1.000000e+02   0.0000 100.0000 100.0000
peaceyrs     9.778180e+01  96.0784  94.5180  90.3226
spline1      9.636890e+01  98.7426  95.1600  95.4911
spline2      9.614360e+01  99.4490  95.2026  95.9856
spline3      9.576390e+01  99.6519  95.3416  97.0412
```

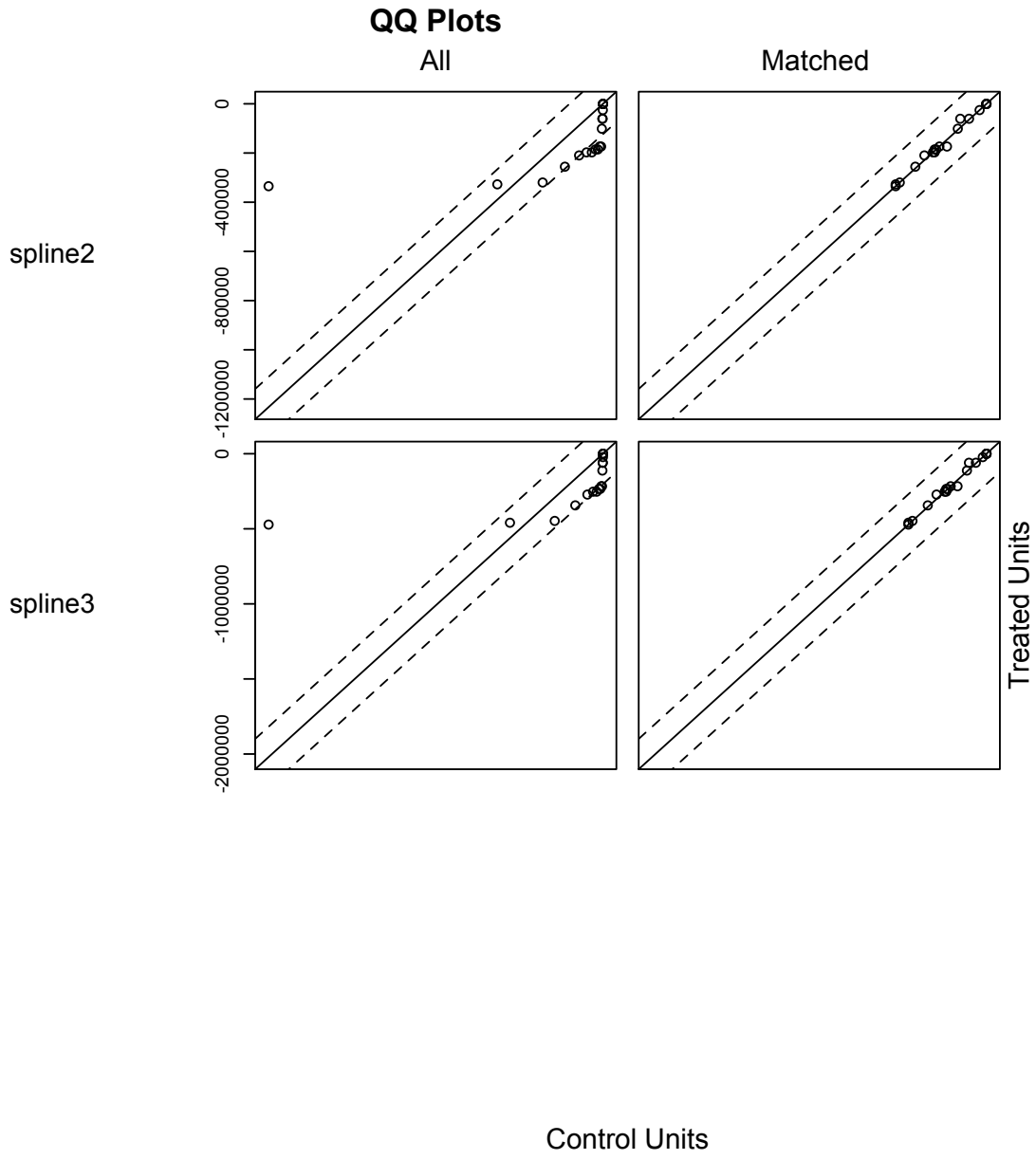
```
Sample sizes:
          Control Treated
All        173732      20
Matched        20      20
Unmatched  173712       0
Discarded       0       0
```

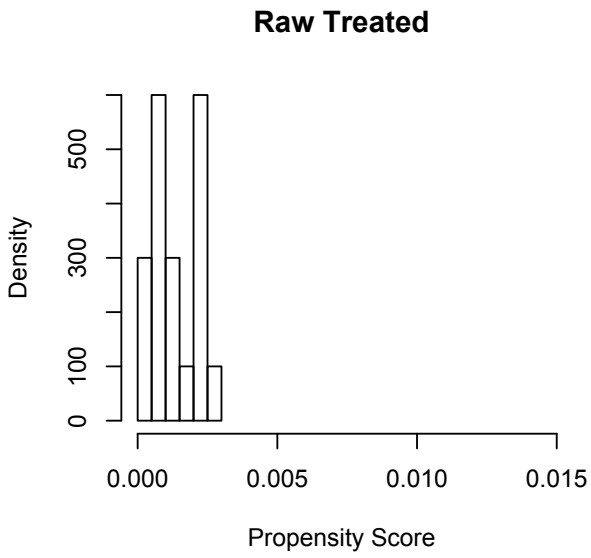


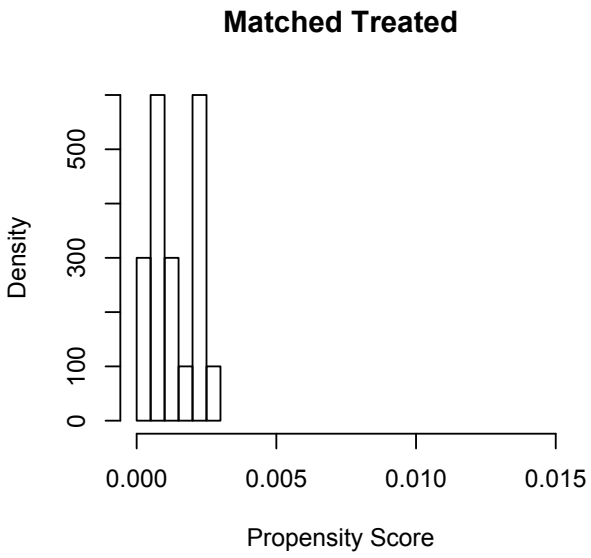

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

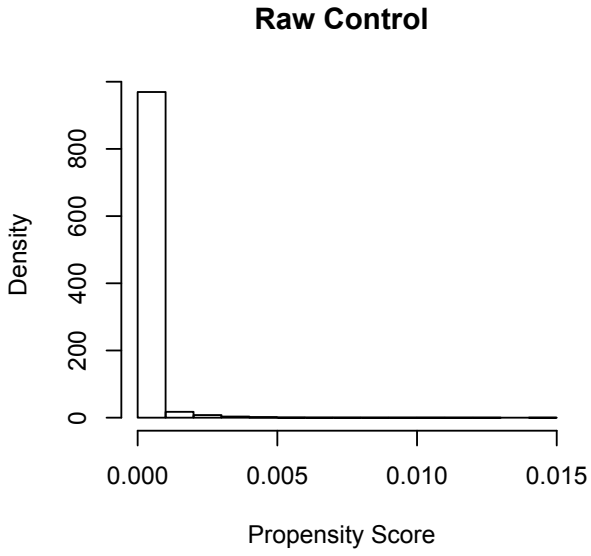

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

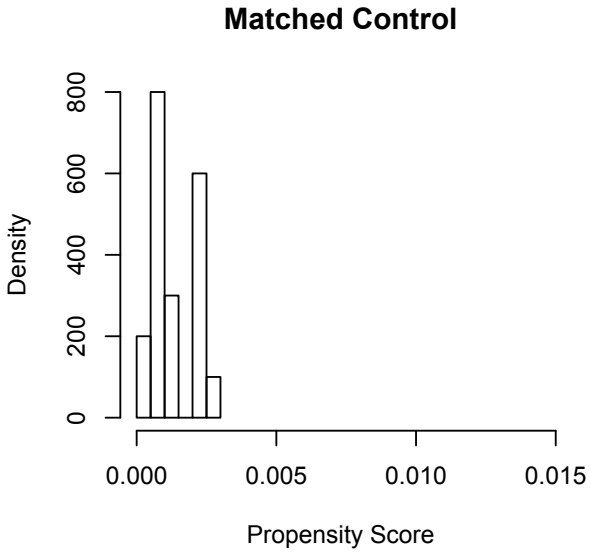

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
100
300
500
0.000
0.005
0.010
0.015
Propensity Score


Matched Treated
Density
0
100
300
500
0.000
0.005
0.010
0.015
Propensity Score


Raw Control
Density
0
200
400
600
800
0.000
0.005
0.010
0.015
Propensity Score


Matched Control
Density
0
200
400
600
800
0.000
0.005
0.010
0.015
Propensity Score

COVERT INSTITUTIONAL FIRC: ANALYSIS OF MATCHED DATA

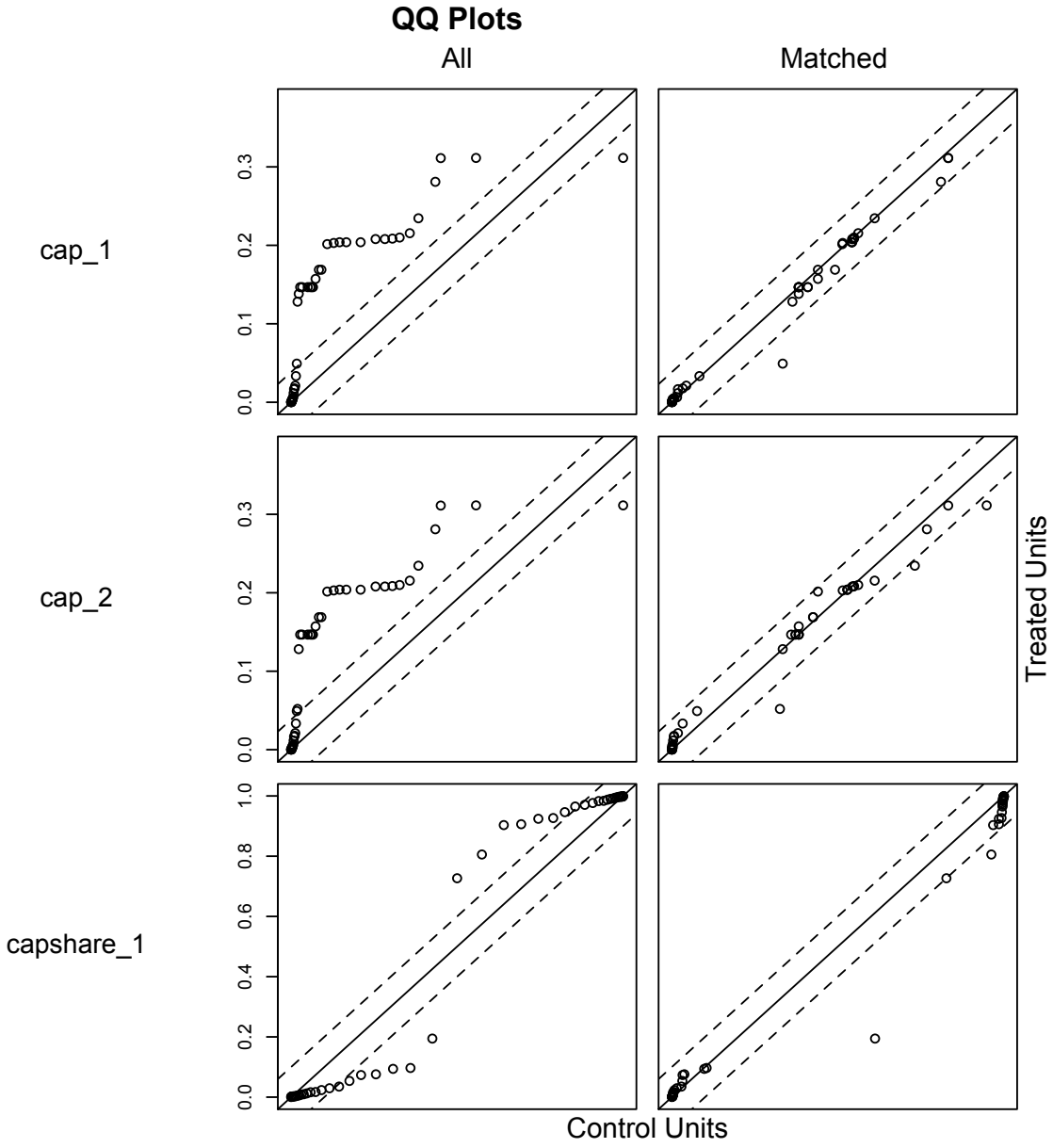
```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/covinstfircmidgenm
> atchnov16.dta"
(Written by R.              )

ttest cwinit10, by(covinstfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      20          .1    .0688247    .3077935   -.0440518    .2440518
       1 |      20         .15    .0819178    .3663475   -.0214559    .3214559
---------+--------------------------------------------------------------------
combined |      40        .125    .0529574    .3349321    .0178835    .2321165
---------+--------------------------------------------------------------------
    diff |               -.05    .1069924               -.2665947    .1665947
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.4673
Ho: diff = 0                                     degrees of freedom =       38

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3215         Pr(|T| > |t|) = 0.6429          Pr(T > t) = 0.6785


ttest midinit_fatal10, by(covinstfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      20         .05         .05    .2236068   -.0546512    .1546512
       1 |      20         .05         .05    .2236068   -.0546512    .1546512
---------+--------------------------------------------------------------------
combined |      40         .05    .0348991    .2207214   -.0205901    .1205901
---------+--------------------------------------------------------------------
    diff |                   0    .0707107               -.1431463    .1431463
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.0000
Ho: diff = 0                                     degrees of freedom =       38

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5000         Pr(|T| > |t|) = 1.0000          Pr(T > t) = 0.5000


ttest midinit_war10, by(covinstfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      20           0           0           0           0           0
       1 |      20           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |      40           0           0           0           0           0
---------+--------------------------------------------------------------------
    diff |                   0           0                       0           0
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =        .
Ho: diff = 0                                     degrees of freedom =       38

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) =      .          Pr(|T| > |t|) =      .          Pr(T > t) =      .
```

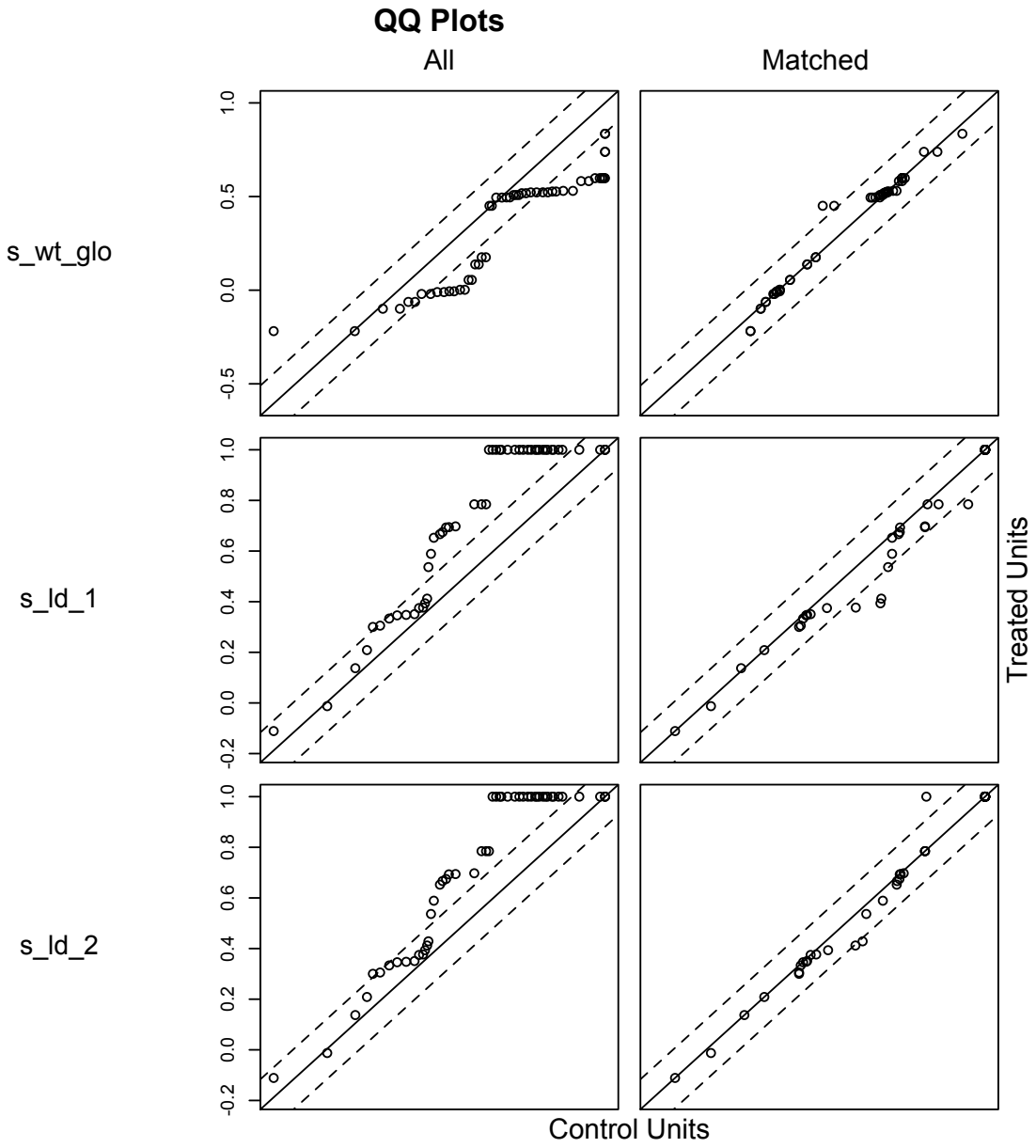
```
probit cwinit10 covinstfirc cap_1 cap_2 capshare_1 lndistance, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -15.070806
Iteration 1:   log pseudolikelihood = -12.588334
Iteration 2:   log pseudolikelihood = -12.322518
Iteration 3:   log pseudolikelihood = -12.296709
Iteration 4:   log pseudolikelihood = -12.296663
Iteration 5:   log pseudolikelihood = -12.296663

Probit regression                                 Number of obs   =         40
                                                  Wald chi2(5)    =       6.36
                                                  Prob > chi2     =     0.2728
Log pseudolikelihood = -12.296663                 Pseudo R2       =     0.1841

                              (Std. Err. adjusted for 37 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 covinstfirc |   .1965036   .5308334     0.37   0.711    -.8439107    1.236918
       cap_1 |  -42.95264   36.20904    -1.19   0.236    -113.9211    28.01577
       cap_2 |   6.735975   12.10454     0.56   0.578    -16.98849    30.46044
  capshare_1 |   7.529771   5.617443     1.34   0.180    -3.480216    18.53976
  lndistance |   -.683462   .4969765    -1.38   0.169    -1.657518    .2905941
       _cons |   3.005978   4.776366     0.63   0.529    -6.355528    12.36748
------------------------------------------------------------------------------
```

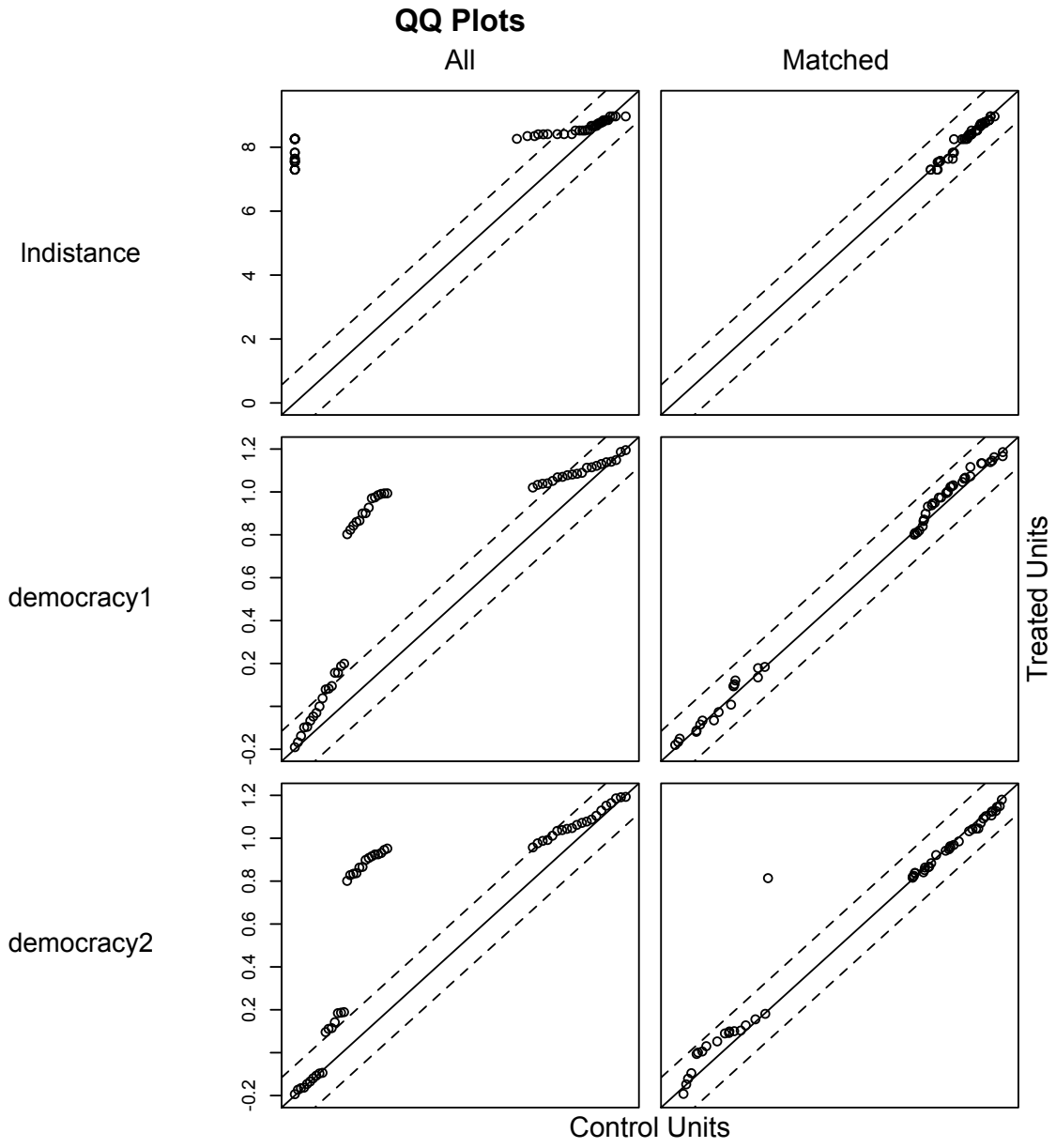
SUCCESSFUL COVERT FIRC

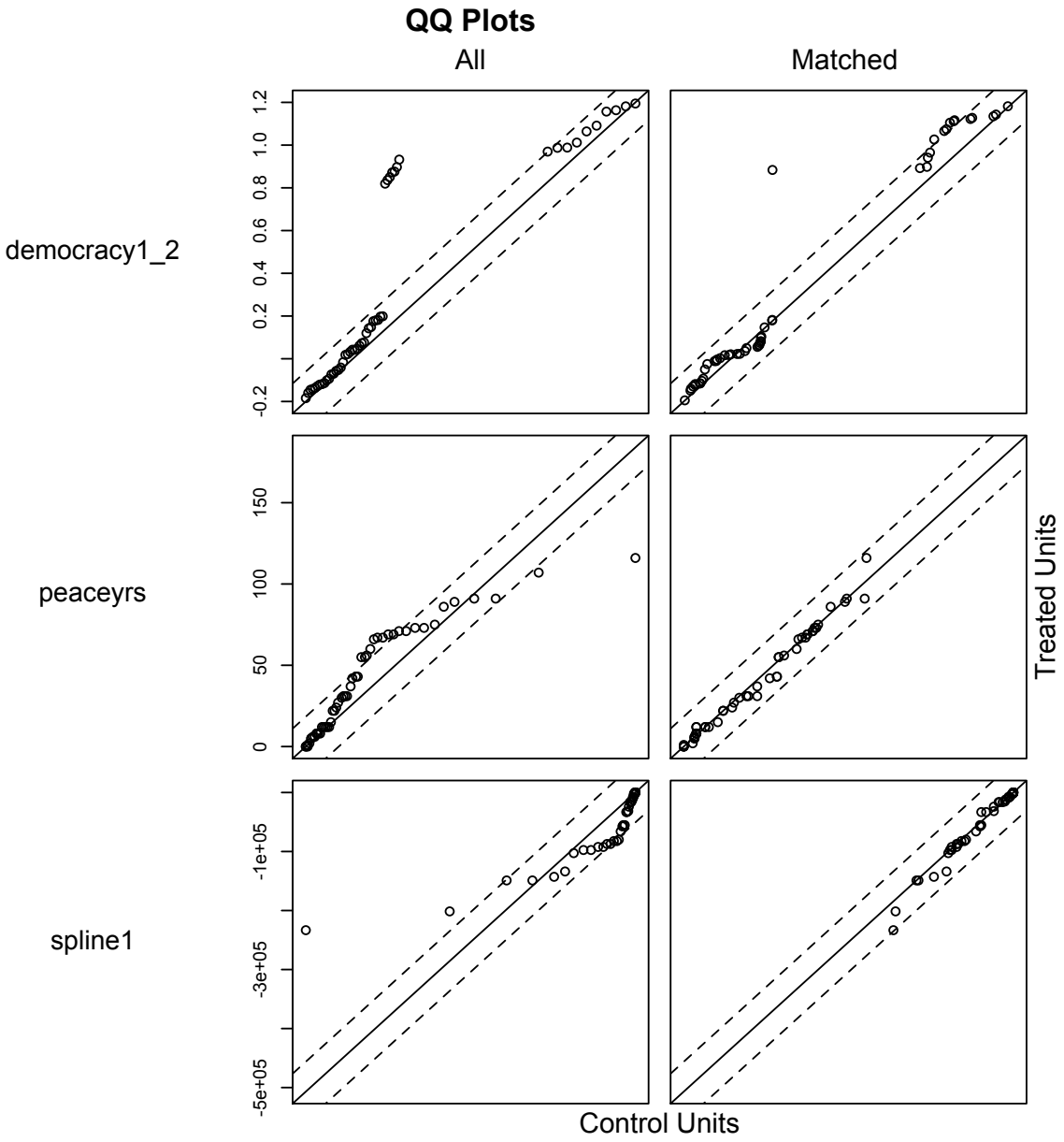
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

covsucc.out1 <- matchit(covfircsucc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=covsucc, method="genetic", pop.size=200)

summary(covsucc.out1)

Call:
matchit(formula = covfircsucc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = covsucc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
           Means Treated Means Control  SD Control   Mean Diff    eQQ Med   eQQ Mean      eQQ Max
distance          0.0036        0.0003      0.0013      0.0033     0.0018     0.0039       0.0501
cap_1             0.1047        0.0401      0.0615      0.0646     0.0725     0.0639       0.1598
cap_2             0.1030        0.0401      0.0615      0.0629     0.0445     0.0622       0.1598
capshare_1        0.5044        0.5000      0.4148      0.0044     0.0283     0.0695       0.2627
s_wt_glo          0.3422        0.5332      0.3365     -0.1910     0.2178     0.1987       0.4014
s_ld_1            0.7318        0.5505      0.2604      0.1813     0.2112     0.1851       0.4162
s_ld_2            0.7206        0.5505      0.2604      0.1701     0.1905     0.1739       0.4031
lndistance        8.3319        5.3249      3.9454      3.0069     0.7662     3.0521       8.2626
democracy1        0.6667        0.3868      0.4870      0.2799     0.0000     0.2745       1.0000
democracy2        0.6667        0.3868      0.4870      0.2799     0.0000     0.2745       1.0000
democracy1_2      0.3333        0.1935      0.3950      0.1398     0.0000     0.1373       1.0000
peaceyrs         39.6471       32.0630     32.0963      7.5841     7.0000    10.5490      68.0000
spline1       -46676.0601   -35629.2778  67796.3443 -11046.7823  8887.6963 22222.4950  273561.0000
spline2       -99443.9318   -75910.7530 159546.7293 -23533.1788 16216.2622 51626.6013  689460.8750
spline3      -130536.9934  -102781.7461 245272.7897 -27755.2473 14461.2900 76445.2517 1199120.8750


Summary of balance for matched data:
           Means Treated Means Control  SD Control   Mean Diff   eQQ Med   eQQ Mean     eQQ Max
distance          0.0036        0.0036      0.0048      0.0001    0.0001     0.0005      0.0087
cap_1             0.1047        0.1018      0.1044      0.0029    0.0017     0.0053      0.0789
cap_2             0.1030        0.1015      0.1073      0.0016    0.0027     0.0085      0.0730
capshare_1        0.5044        0.5037      0.4871      0.0007    0.0064     0.0270      0.4176
s_wt_glo          0.3422        0.3215      0.2890      0.0208    0.0044     0.0210      0.2372
s_ld_1            0.7318        0.7473      0.3132     -0.0156    0.0000     0.0297      0.2315
s_ld_2            0.7206        0.7283      0.3137     -0.0077    0.0000     0.0163      0.2105
lndistance        8.3319        8.3585      0.5041     -0.0267    0.0334     0.0583      0.3115
democracy1        0.6667        0.6471      0.4827      0.0196    0.0000     0.0000      0.0000
democracy2        0.6667        0.6471      0.4827      0.0196    0.0000     0.0200      1.0000
democracy1_2      0.3333        0.2941      0.4603      0.0392    0.0000     0.0200      1.0000
peaceyrs         39.6471       38.4706     31.2251      1.1765    1.0000     2.4200     14.0000
spline1       -46676.0601   -43811.3655  51753.5823  -2864.6946 1630.6260  4713.1496  48834.5000
spline2       -99443.9318   -92508.9104 116140.5972  -6935.0214 3062.1140 10950.6062 121358.7188
spline3      -130536.9934  -118968.0891 162499.8825 -11568.9043 2630.8015 16413.2733 204763.7500

Percent Balance Improvement:
           Mean Diff.  eQQ Med  eQQ Mean  eQQ Max
distance       97.8568  93.0240  88.4967  82.5830
cap_1          95.4883  97.7171  91.6250  50.5961
cap_2          97.4838  93.9279  86.3284  54.3218
capshare_1     83.2685  77.5534  61.1643 -58.9519
s_wt_glo       89.1290  97.9811  89.4311  40.9098
s_ld_1         91.4149 100.0000  83.9665  44.3688
s_ld_2         95.4580 100.0000  90.6240  47.7734
lndistance     99.1125  95.6358  98.0912  96.2296
democracy1     92.9944   0.0000 100.0000 100.0000
democracy2     92.9944   0.0000  92.7143   0.0000
democracy1_2   71.9567   0.0000  85.4286   0.0000
peaceyrs       84.4876  85.7143  77.0595  79.4118
spline1        74.0676  81.6530  78.7911  82.1486
spline2        70.5309  81.1170  78.7888  82.3980
spline3        58.3181  81.8080  78.5294  82.9238
```

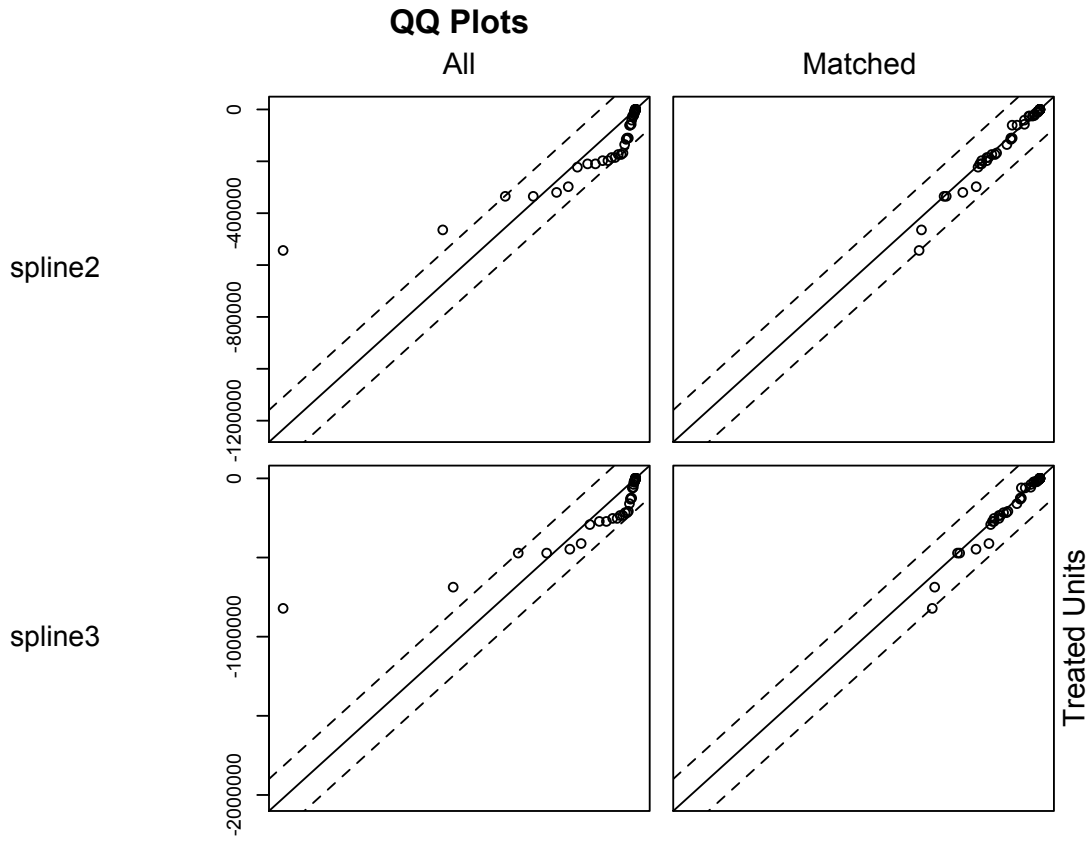
```
Sample sizes:
          Control Treated
All        173732      51
Matched        50      51
Unmatched  173682       0
Discarded       0       0
```

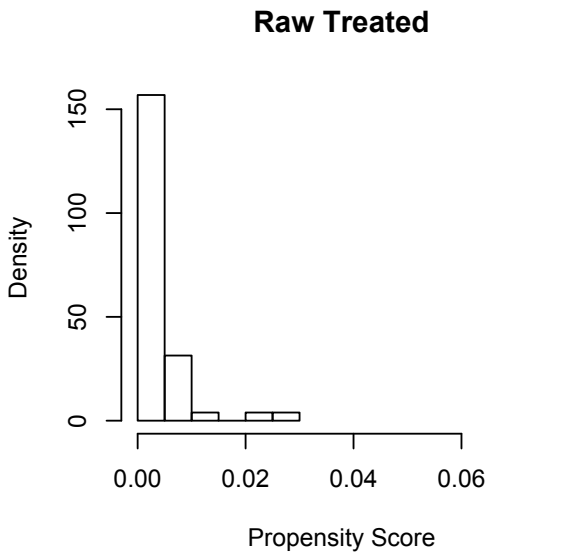


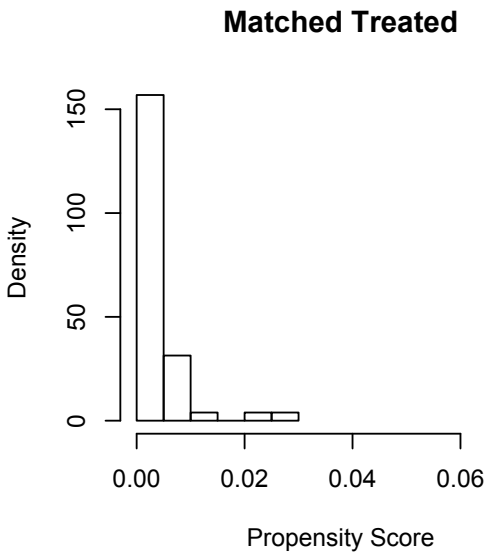

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

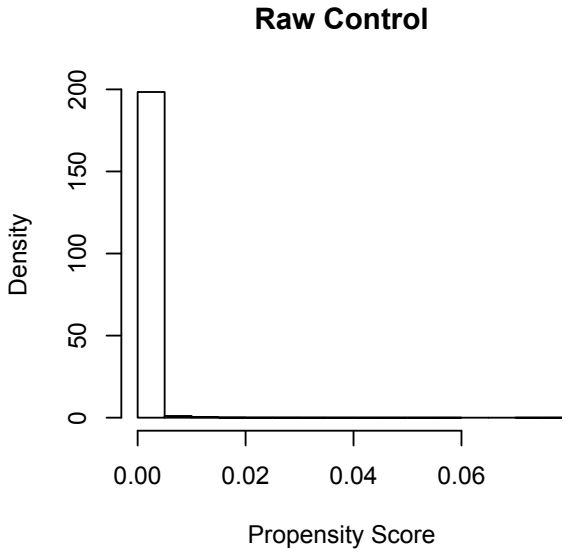

QQ Plots
All
Matched
ldistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

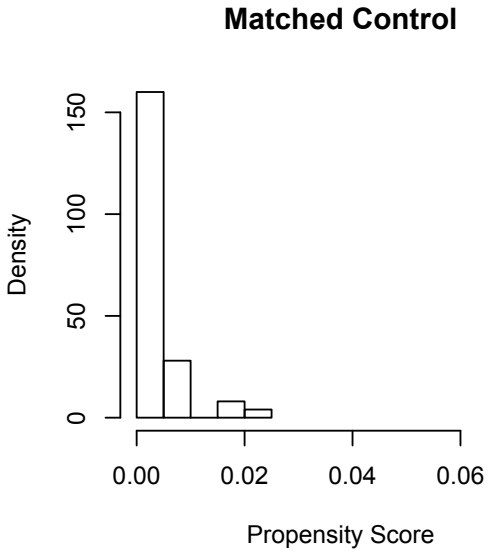

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
50
100
150
0.00
0.02
0.04
0.06
Propensity Score


Matched Treated
Density
0
50
100
150
0.00
0.02
0.04
0.06
Propensity Score


Raw Control
Density
0
50
100
150
200
0.00
0.02
0.04
0.06
Propensity Score


Matched Control
Density
0
50
100
150
0.00
0.02
0.04
0.06
Propensity Score

SUCCESSFUL COVERT FIRC: ANALYSIS OF MATCHED DATA

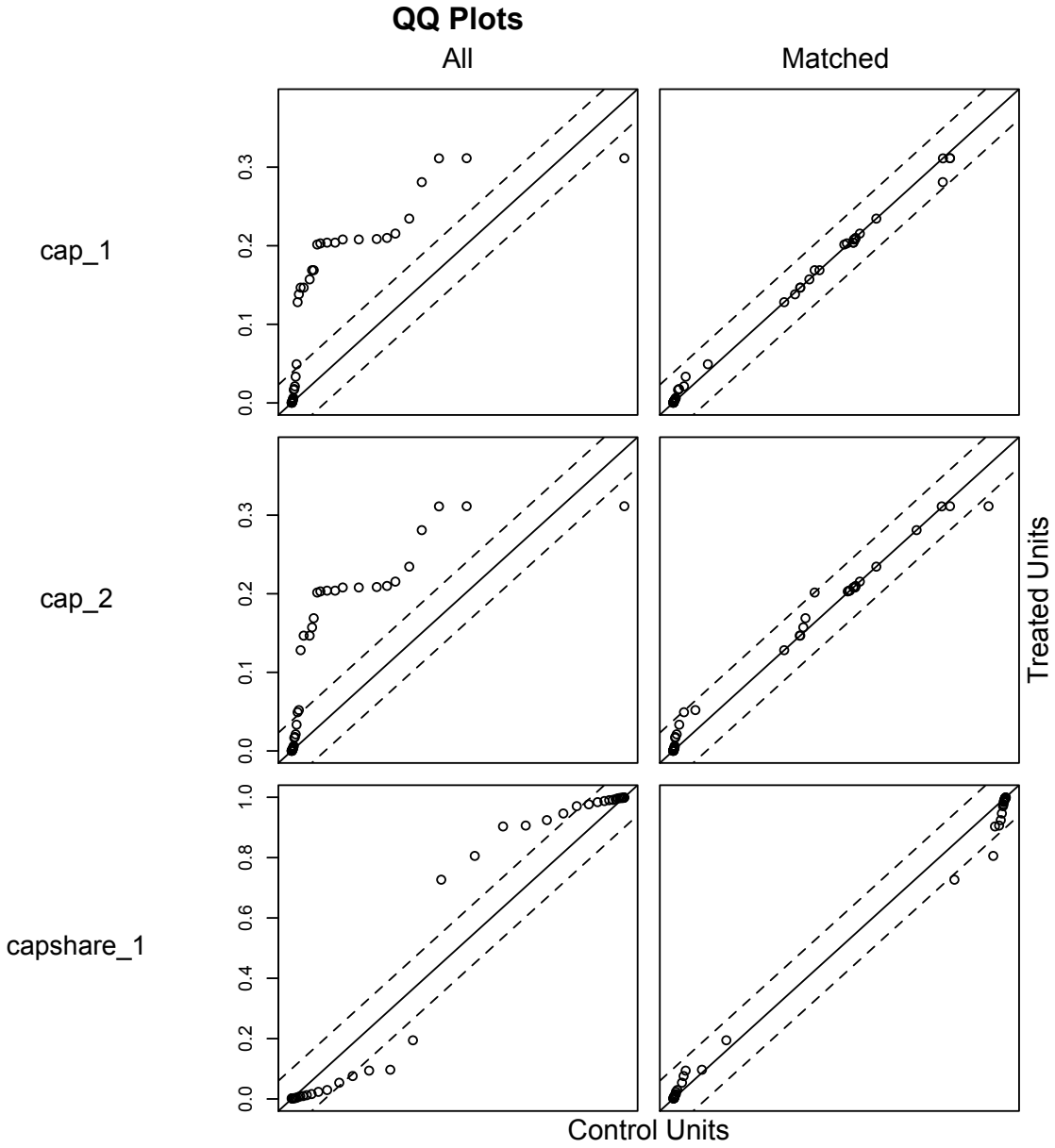
```
use "/Users/downes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/covfircsuccmidgenmatchnov16.dta"
(Written by R.              )

ttest cwinit10, by(covfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      50         .02         .02    .1414214   -.0201915    .0601915
       1 |      51    .0392157     .027451    .1960392   -.0159212    .0943526
---------+--------------------------------------------------------------------
combined |     101     .029703    .0169767    .1706133   -.0039782    .0633842
---------+--------------------------------------------------------------------
    diff |           -.0192157    .0340714               -.0868206    .0483893
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.5640
Ho: diff = 0                                     degrees of freedom =       99

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2870         Pr(|T| > |t|) = 0.5740          Pr(T > t) = 0.7130

ttest midinit_fatal10, by(covfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      50         .02         .02    .1414214   -.0201915    .0601915
       1 |      51    .0392157     .027451    .1960392   -.0159212    .0943526
---------+--------------------------------------------------------------------
combined |     101     .029703    .0169767    .1706133   -.0039782    .0633842
---------+--------------------------------------------------------------------
    diff |           -.0192157    .0340714               -.0868206    .0483893
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.5640
Ho: diff = 0                                     degrees of freedom =       99

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2870         Pr(|T| > |t|) = 0.5740          Pr(T > t) = 0.7130

ttest midinit_war10, by(covfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      50           0           0           0           0           0
       1 |      51           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |     101           0           0           0           0           0
---------+--------------------------------------------------------------------
    diff |                   0           0                       0           0
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =        .
Ho: diff = 0                                     degrees of freedom =       99

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) =      .         Pr(|T| > |t|) =      .          Pr(T > t) =      .
```

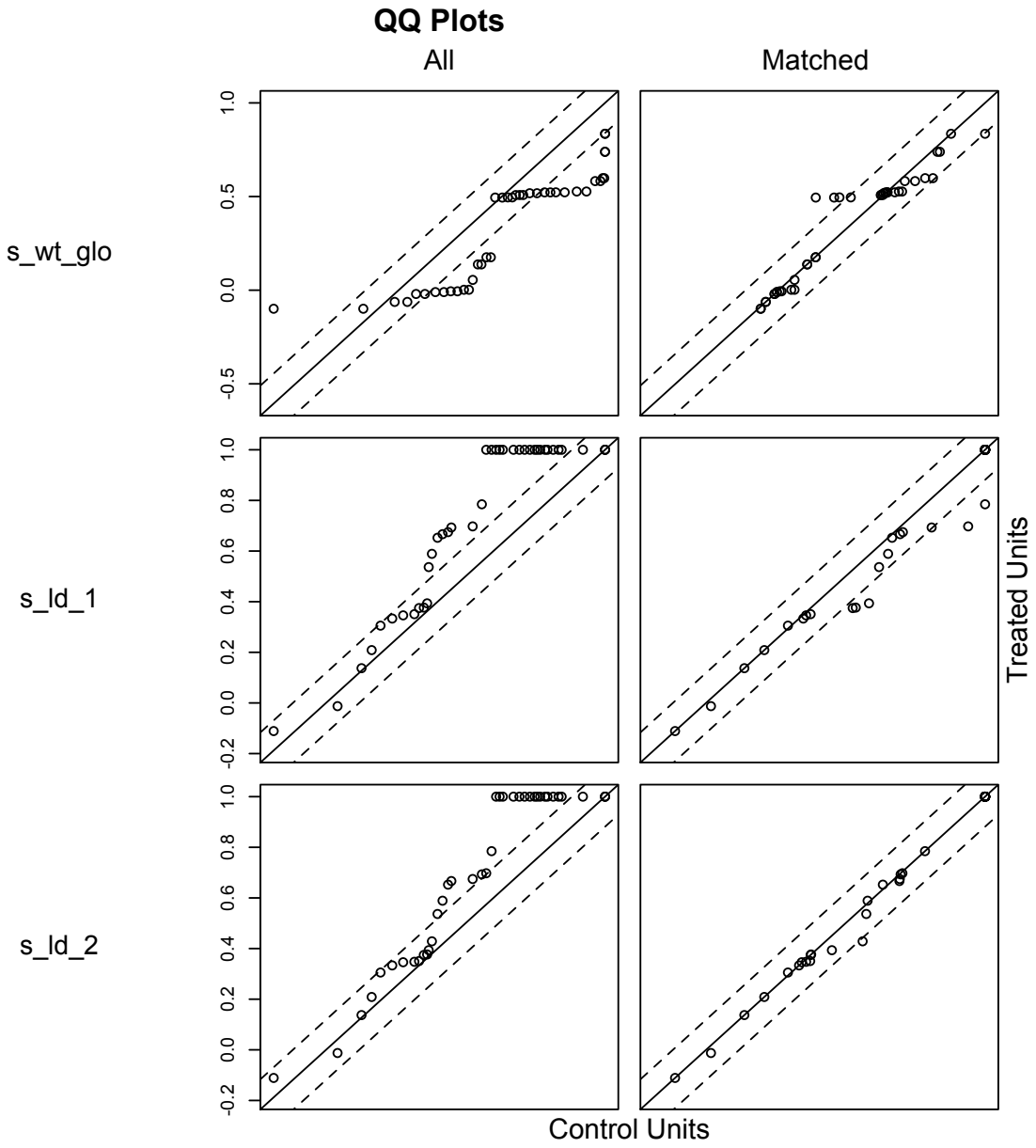
```
probit cwinit10 covfircsucc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -13.504522
Iteration 1:   log pseudolikelihood = -9.5747647
Iteration 2:   log pseudolikelihood = -8.2542594
Iteration 3:   log pseudolikelihood = -8.0735255
Iteration 4:   log pseudolikelihood = -7.7580874
Iteration 5:   log pseudolikelihood = -7.6679771
Iteration 6:   log pseudolikelihood = -7.6565625
Iteration 7:   log pseudolikelihood = -7.6551222
Iteration 8:   log pseudolikelihood = -7.6548568
Iteration 9:   log pseudolikelihood = -7.6548026
Iteration 10:  log pseudolikelihood = -7.6547921
Iteration 11:  log pseudolikelihood = -7.6547902
Iteration 12:  log pseudolikelihood = -7.6547899

Probit regression                                 Number of obs   =        101
                                                  Wald chi2(10)   =     123.81
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -7.6547899                 Pseudo R2       =     0.4332

                              (Std. Err. adjusted for 87 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 covfircsucc |   .5334196   .7793925     0.68   0.494    -.9941617    2.061001
       cap_1 |  -38.10001   12.51943    -3.04   0.002    -62.63764   -13.56238
       cap_2 |   17.24967   7.466637     2.31   0.021     2.615329    31.88401
  capshare_1 |  -3.636748   2.322017    -1.57   0.117    -8.187818    .9143227
    s_wt_glo |    1.78551   2.551755     0.70   0.484    -3.215837    6.786858
      s_ld_1 |   2.766999   2.478606     1.12   0.264     -2.09098    7.624978
      s_ld_2 |  -4.491436   2.502777    -1.79   0.073    -9.396789    .4139176
  lndistance |  -.0750242   .6097796    -0.12   0.902     -1.27017    1.120122
  democracy1 |  -6.811301   1.476272    -4.61   0.000     -9.70474   -3.917862
  democracy2 |  -16.32332   3.706891    -4.40   0.000     -23.5887   -9.057951
       _cons |   13.71479   7.655091     1.79   0.073     -1.28891    28.7185
------------------------------------------------------------------------------
Note: 34 failures and 0 successes completely determined.
```

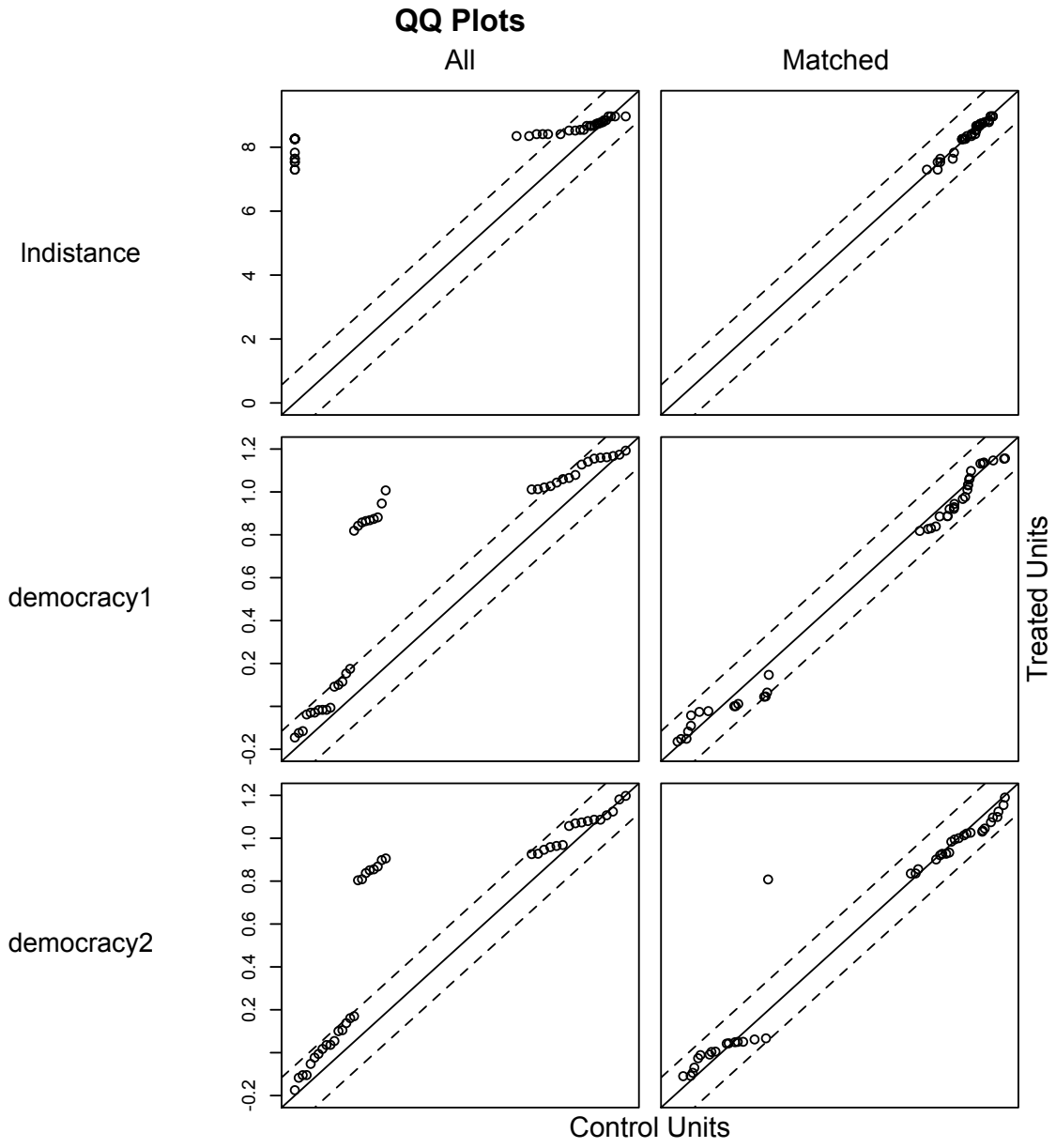
SUCCESSFUL COVERT LEADERSHIP FIRC

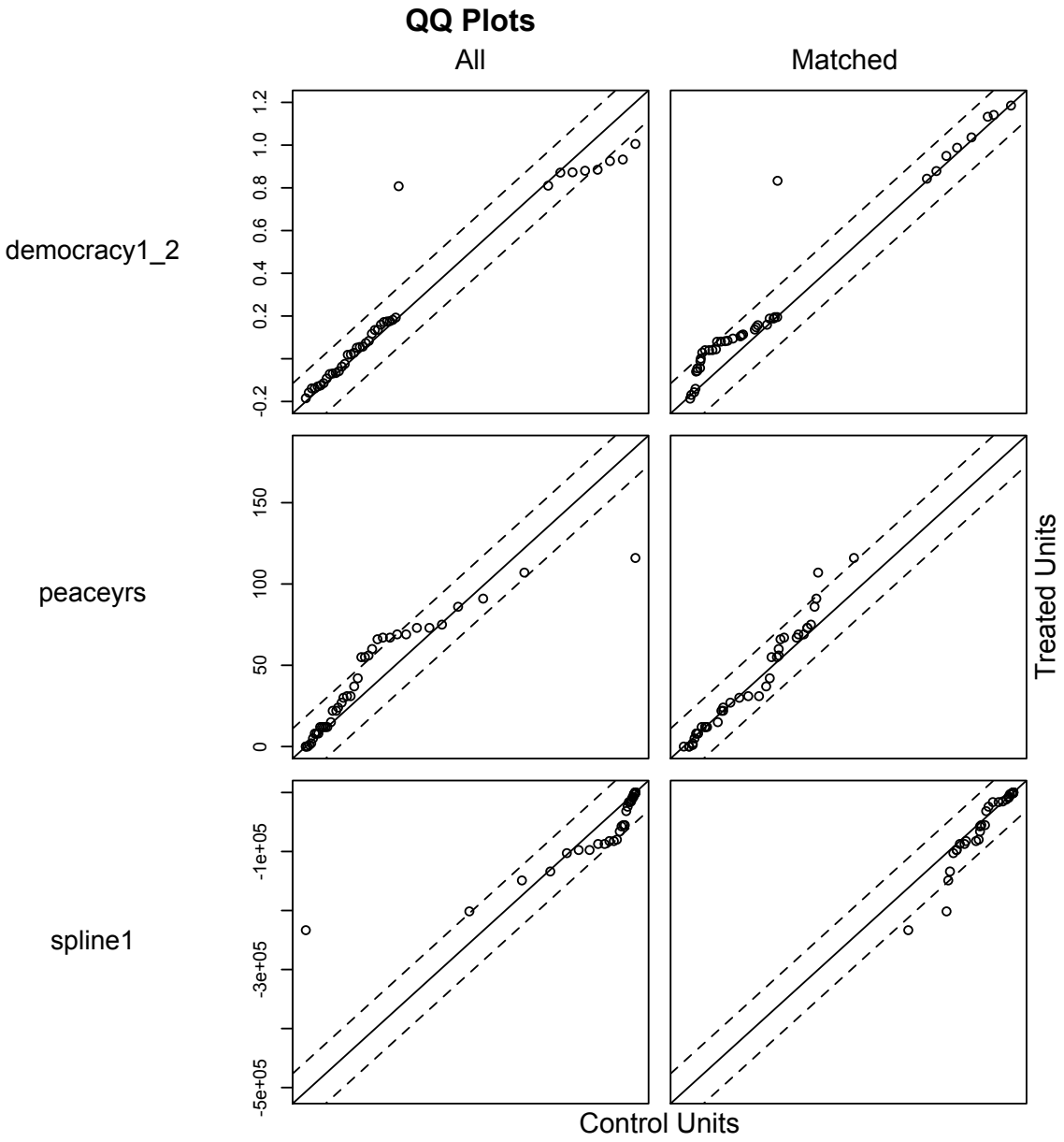
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

clsucc.out1 <- matchit(covleadfircsucc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2
+ lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=clsucc, method="genetic", pop.size=200)

summary(clsucc.out1)

Call:
matchit(formula = covleadfircsucc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = clsucc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
           Means Treated Means Control  SD Control   Mean Diff    eQQ Med   eQQ Mean      eQQ Max
distance          0.0037        0.0002      0.0012      0.0035     0.0020     0.0045       0.0590
cap_1             0.1132        0.0401      0.0615      0.0731     0.0841     0.0719       0.1721
cap_2             0.1069        0.0401      0.0615      0.0668     0.0430     0.0656       0.1721
capshare_1        0.5182        0.5000      0.4148      0.0182     0.0294     0.0680       0.2771
s_wt_glo          0.3370        0.5332      0.3365     -0.1961     0.2342     0.2150       0.5065
s_ld_1            0.7249        0.5505      0.2604      0.1744     0.1961     0.1813       0.4259
s_ld_2            0.6943        0.5505      0.2604      0.1438     0.1431     0.1507       0.3904
lndistance        8.3953        5.3249      3.9454      3.0704     0.8032     3.0965       8.2626
democracy1        0.6250        0.3868      0.4870      0.2382     0.0000     0.2250       1.0000
democracy2        0.6000        0.3868      0.4870      0.2132     0.0000     0.2000       1.0000
democracy1_2      0.2250        0.1935      0.3950      0.0315     0.0000     0.0250       1.0000
peaceyrs         38.9500       32.0630     32.0963      6.8870     6.0000     9.7750      68.0000
spline1       -45506.8712   -35629.2778  67796.3443  -9877.5934  5299.9144 20935.3830  273561.0000
spline2       -96847.6462   -75910.7530 159546.7293 -20936.8932  8686.4670 48847.8324  689460.8750
spline3      -127225.8131  -102781.7461 245272.7897 -24444.0670 10414.6045 73137.4455 1199120.8750


Summary of balance for matched data:
           Means Treated Means Control  SD Control   Mean Diff   eQQ Med   eQQ Mean      eQQ Max
distance          0.0037        0.0036      0.0044      0.0001    0.0001     0.0002       0.0021
cap_1             0.1132        0.1127      0.1126      0.0005    0.0013     0.0036       0.0302
cap_2             0.1069        0.1031      0.1152      0.0038    0.0011     0.0071       0.0526
capshare_1        0.5182        0.5271      0.4888     -0.0089    0.0058     0.0208       0.1567
s_wt_glo          0.3370        0.3388      0.3098     -0.0018    0.0119     0.0484       0.3149
s_ld_1            0.7249        0.7590      0.3275     -0.0341    0.0000     0.0347       0.2420
s_ld_2            0.6943        0.7019      0.3350     -0.0076    0.0000     0.0098       0.1326
lndistance        8.3953        8.4105      0.4712     -0.0152    0.0470     0.0632       0.2652
democracy1        0.6250        0.6250      0.4903      0.0000    0.0000     0.0000       0.0000
democracy2        0.6000        0.5750      0.5006      0.0250    0.0000     0.0250       1.0000
democracy1_2      0.2250        0.2000      0.4051      0.0250    0.0000     0.0250       1.0000
peaceyrs         38.9500       36.3250     26.9951      2.6250    3.0000     5.1750      32.0000
spline1       -45506.8712   -36570.1381  40884.8080  -8936.7331 3641.0892 11447.9305  98711.6953
spline2       -96847.6462   -74968.6953  89665.2382 -21878.9509 7399.0143 27070.9206 241889.0938
spline3      -127225.8131   -91710.7097 119713.3204 -35515.1033 7686.1725 41235.3288 395413.0312

Percent Balance Improvement:
            Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance        96.7508  96.2237  95.7766  96.4113
cap_1           99.2799  98.5120  94.9591  82.4374
cap_2           94.2894  97.4899  89.2444  69.4169
capshare_1      50.8276  80.2671  69.4254  43.4398
s_wt_glo        99.0910  94.9120  77.5150  37.8304
s_ld_1          80.4433 100.0000  80.8533  43.1840
s_ld_2          94.7138 100.0000  93.5021  66.0344
lndistance      99.5037  94.1479  97.9602  96.7907
democracy1     100.0000   0.0000 100.0000 100.0000
democracy2      88.2750   0.0000  87.5000   0.0000
democracy1_2    20.6515   0.0000   0.0000   0.0000
peaceyrs        61.8847  50.0000  47.0588  52.9412
spline1          9.5252  31.2991  45.3178  63.9160
spline2         -4.4995  14.8214  44.5811  64.9162
spline3        -45.2913  26.1981  43.6194  67.0248
```

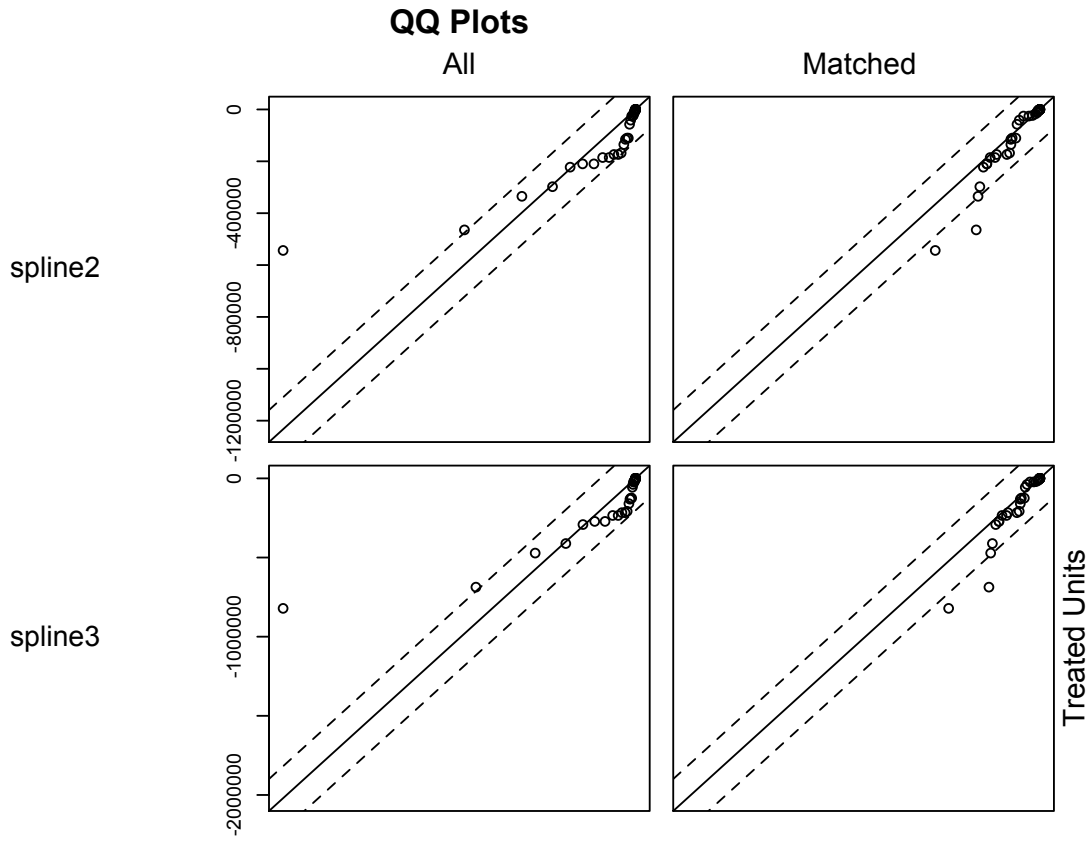
```
Sample sizes:
          Control Treated
All        173732      40
Matched        40      40
Unmatched  173692       0
Discarded       0       0
```

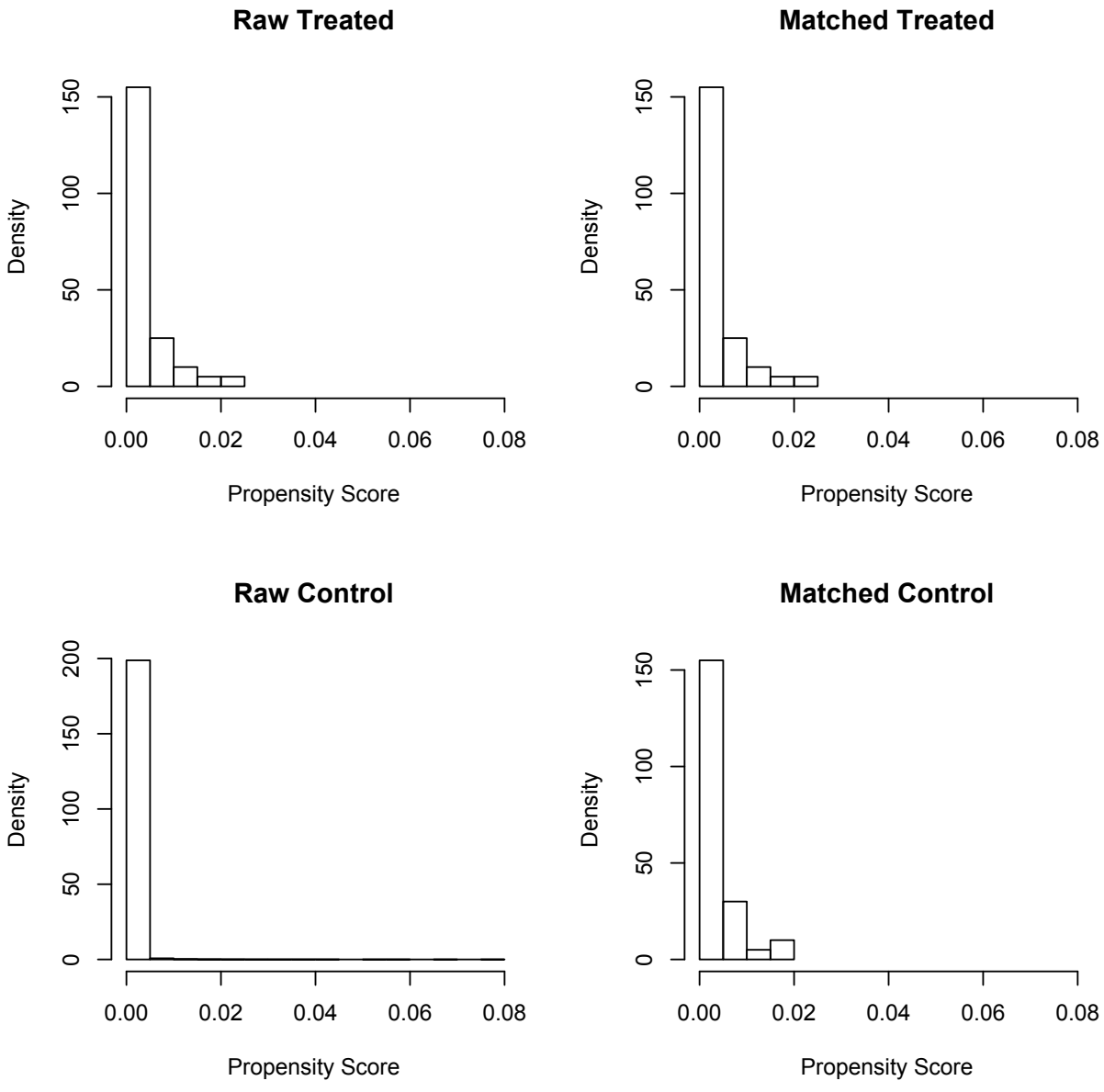



QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2


QQ Plots
All
Matched
ldistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2


QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
50
100
150
0.00
0.02
0.04
0.06
0.08
Propensity Score
Matched Treated
Density
0
50
100
150
0.00
0.02
0.04
0.06
0.08
Propensity Score
Raw Control
Density
0
50
100
150
200
0.00
0.02
0.04
0.06
0.08
Propensity Score
Matched Control
Density
0
50
100
150
0.00
0.02
0.04
0.06
0.08
Propensity Score

SUCCESSFUL COVERT LEADERSHIP FIRC: ANALYSIS OF MATCHED DATA

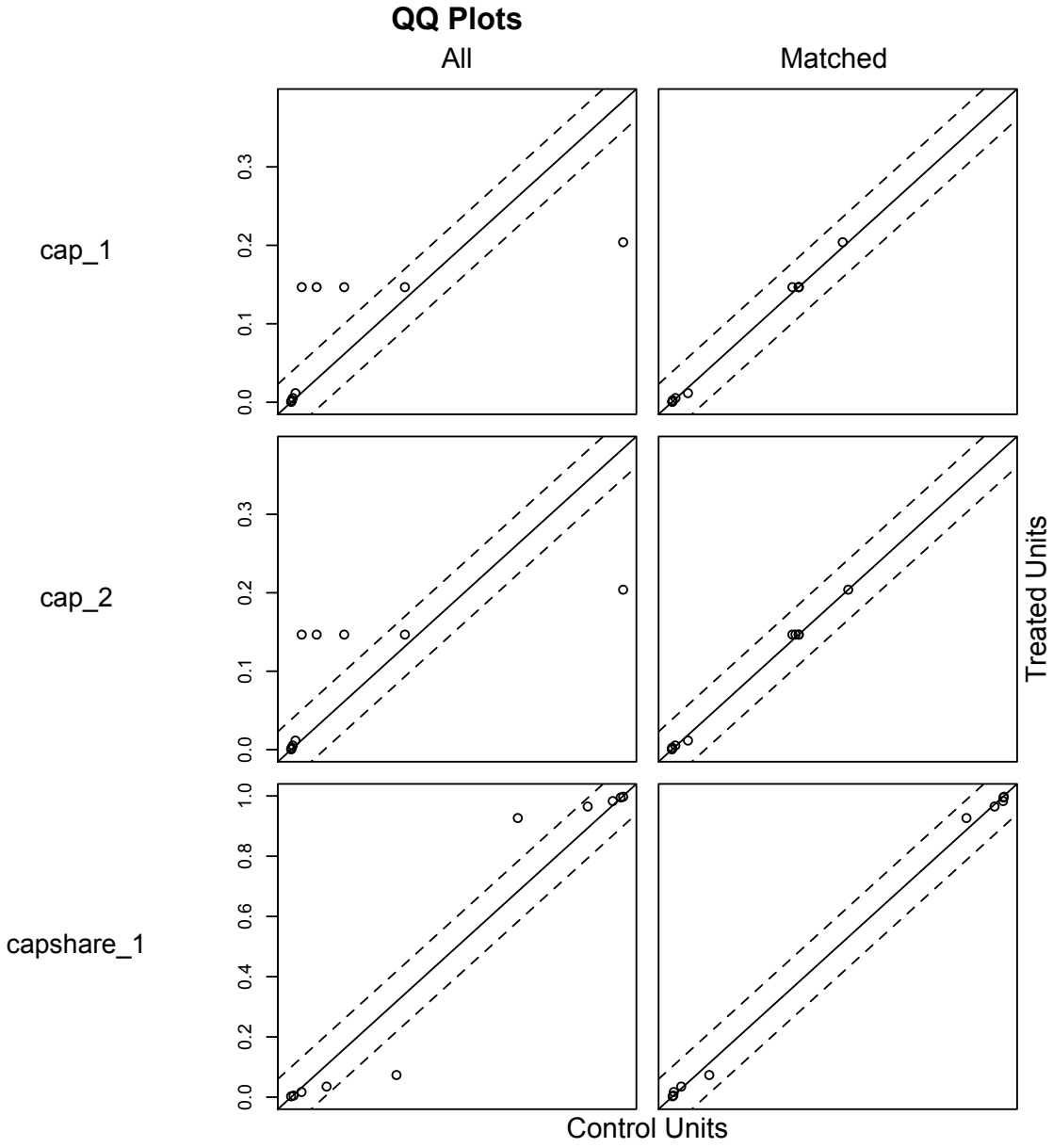
```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/clfircsuccmidgenma
> tchnov16.dta"
(Written by R.              )

ttest cwinit10, by(covleadfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      40         .05    .0348991    .2207214   -.0205901    .1205901
       1 |      40         .05    .0348991    .2207214   -.0205901    .1205901
---------+--------------------------------------------------------------------
combined |      80         .05    .0245207      .21932    .0011927    .0988073
---------+--------------------------------------------------------------------
    diff |                   0    .0493548               -.0982579    .0982579
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.0000
Ho: diff = 0                                     degrees of freedom =       78

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5000         Pr(|T| > |t|) = 1.0000          Pr(T > t) = 0.5000

ttest midinit_fatal10, by(covleadfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      40         .05    .0348991    .2207214   -.0205901    .1205901
       1 |      40         .05    .0348991    .2207214   -.0205901    .1205901
---------+--------------------------------------------------------------------
combined |      80         .05    .0245207      .21932    .0011927    .0988073
---------+--------------------------------------------------------------------
    diff |                   0    .0493548               -.0982579    .0982579
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.0000
Ho: diff = 0                                     degrees of freedom =       78

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5000         Pr(|T| > |t|) = 1.0000          Pr(T > t) = 0.5000

ttest midinit_war10, by(covleadfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      40           0           0           0           0           0
       1 |      40           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |      80           0           0           0           0           0
---------+--------------------------------------------------------------------
    diff |                   0           0                       0           0
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =        .
Ho: diff = 0                                     degrees of freedom =       78

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) =      .         Pr(|T| > |t|) =      .          Pr(T > t) =      .
```

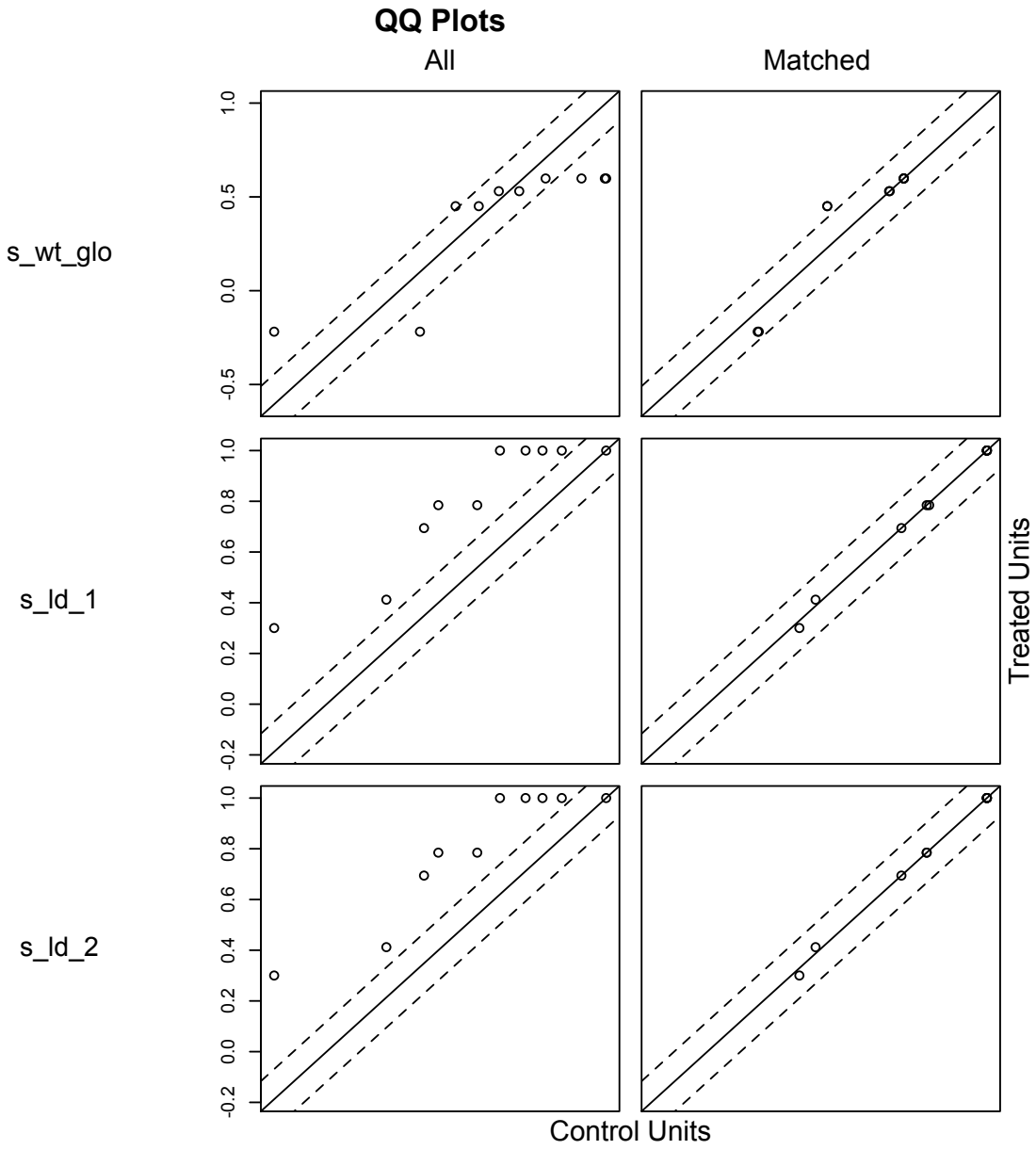
```
probit cwinit10 covleadfircsucc cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -15.881219
Iteration 1:   log pseudolikelihood = -12.894942
Iteration 2:   log pseudolikelihood = -12.052654
Iteration 3:   log pseudolikelihood = -11.875644
Iteration 4:   log pseudolikelihood =  -11.85114
Iteration 5:   log pseudolikelihood = -11.831537
Iteration 6:   log pseudolikelihood = -11.824238
Iteration 7:   log pseudolikelihood =  -11.82381
Iteration 8:   log pseudolikelihood = -11.823748
Iteration 9:   log pseudolikelihood = -11.823735
Iteration 10:  log pseudolikelihood = -11.823733
Iteration 11:  log pseudolikelihood = -11.823732

Probit regression                                 Number of obs   =         80
                                                  Wald chi2(10)   =     147.53
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -11.823732                 Pseudo R2       =     0.2555

                                (Std. Err. adjusted for 71 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
covleadfircsucc |  -.0830958   .5008561    -0.17   0.868    -1.064756    .8985641
       cap_1 |  -29.50634    10.0821    -2.93   0.003    -49.26689   -9.745792
       cap_2 |   8.351062   8.570198     0.97   0.330    -8.446218    25.14834
  capshare_1 |   .4736511   19.26073     0.02   0.980    -37.27669    38.22399
    s_wt_glo |  -.1631751   1.473994    -0.11   0.912    -3.052151    2.725801
      s_ld_1 |   .5424966   2.439773     0.22   0.824    -4.239371    5.324364
      s_ld_2 |  -2.793115   1.774615    -1.57   0.116    -6.271296    .6850668
  lndistance |  -.3569632   .6065742    -0.59   0.556    -1.545827    .8319004
  democracy1 |  -5.402901   2.363209    -2.29   0.022     -10.0347   -.7710977
  democracy2 |  -9.096544   21.70029    -0.42   0.675    -51.62833    33.43524
       _cons |   11.73136   16.15325     0.73   0.468    -19.92844    43.39115
------------------------------------------------------------------------------
Note: 17 failures and 0 successes completely determined.
```

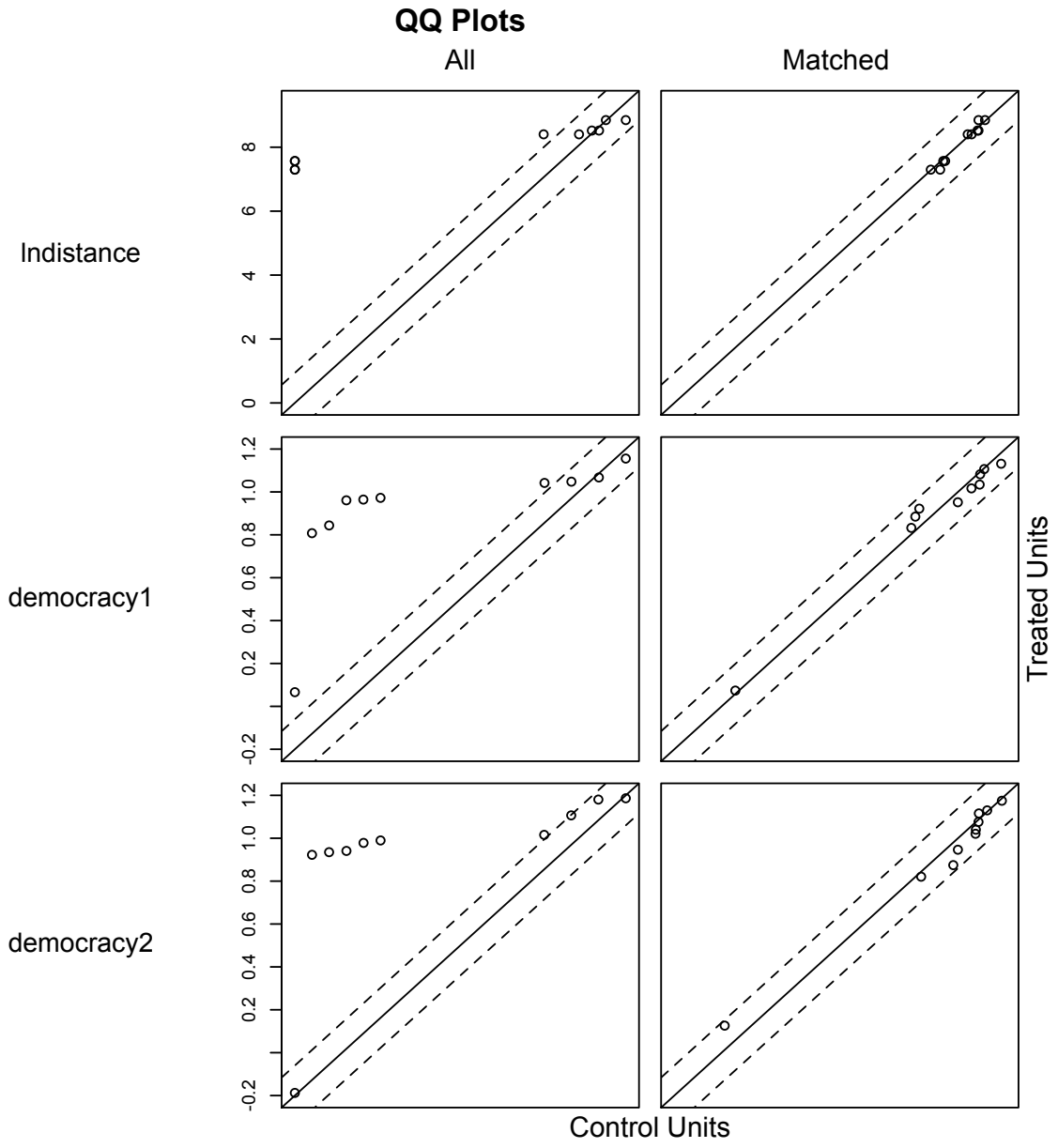
SUCCESSFUL COVERT INSTITUTIONAL FIRC

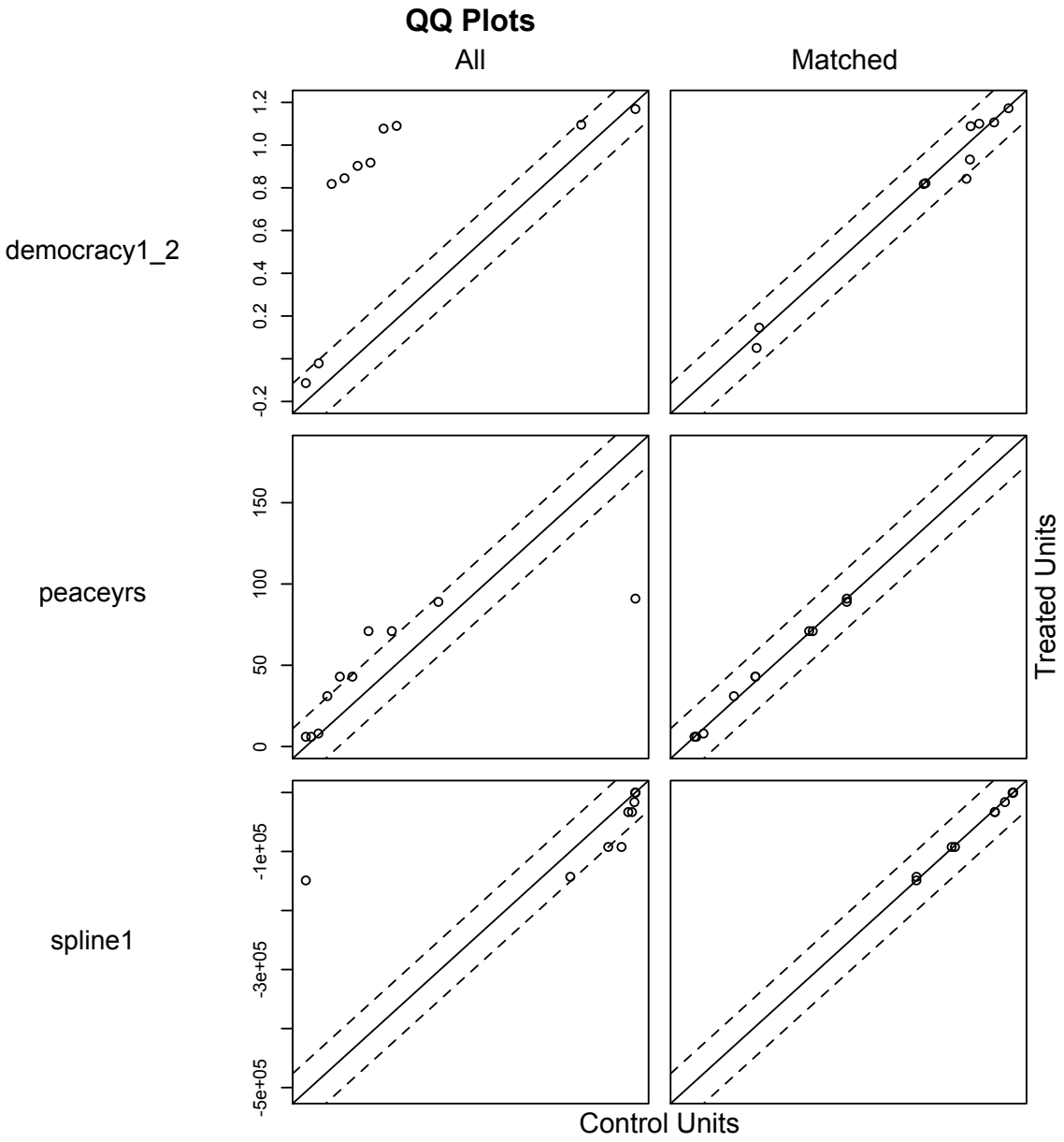
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

cisucc.out1 <- matchit(covinstfircsucc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2
+ lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=cisucc, method="genetic", pop.size=200)

summary(cisucc.out1)

Call:
matchit(formula = covinstfircsucc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = cisucc,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
           Means Treated Means Control  SD Control   Mean Diff    eQQ Med    eQQ Mean      eQQ Max
distance           0.0008        0.0001      0.0003      0.0008     0.0009      0.0018       0.0114
cap_1              0.0811        0.0401      0.0615      0.0410     0.0109      0.0545       0.1799
cap_2              0.0811        0.0401      0.0615      0.0410     0.0109      0.0545       0.1799
capshare_1         0.5000        0.5000      0.4148      0.0000     0.0143      0.0669       0.2439
s_wt_glo           0.3917        0.5332      0.3365     -0.1415     0.2307      0.2239       0.4019
s_ld_1             0.7976        0.5505      0.2604      0.2471     0.2671      0.2718       0.4879
s_ld_2             0.7976        0.5505      0.2604      0.2471     0.2671      0.2718       0.4879
lndistance         8.1283        5.3249      3.9454      2.8034     0.9429      3.2186       7.5689
democracy1         0.9000        0.3868      0.4870      0.5132     0.5000      0.5000       1.0000
democracy2         0.9000        0.3868      0.4870      0.5132     0.5000      0.5000       1.0000
democracy1_2       0.8000        0.1935      0.3950      0.6065     1.0000      0.6000       1.0000
peaceyrs          45.9000       32.0630     32.0963     13.8370    18.0000     23.7000      93.0000
spline1       -56008.4650   -35629.2778  67796.3443 -20379.1872 25070.3652  58755.0947  357859.9062
spline2      -119762.4621   -75910.7530 159546.7293 -43851.7091 50015.0198 140603.9876  898182.9062
spline3      -156825.9712  -102781.7461 245272.7897 -54044.2252 50832.8284 222706.6510 1548427.1875


Summary of balance for matched data:
           Means Treated Means Control  SD Control  Mean Diff   eQQ Med  eQQ Mean     eQQ Max
distance           0.0008        0.0008      0.0006     0.0000    0.0000    0.0000      0.0001
cap_1              0.0811        0.0802      0.0810     0.0010    0.0007    0.0024      0.0073
cap_2              0.0811        0.0803      0.0819     0.0009    0.0009    0.0023      0.0073
capshare_1         0.5000        0.5009      0.4977    -0.0009    0.0070    0.0126      0.0393
s_wt_glo           0.3917        0.3695      0.2889     0.0222    0.0017    0.0674      0.2223
s_ld_1             0.7976        0.7989      0.2589    -0.0013    0.0000    0.0063      0.0291
s_ld_2             0.7976        0.7980      0.2590    -0.0004    0.0000    0.0054      0.0291
lndistance         8.1283        8.1586      0.5616    -0.0303    0.0800    0.0998      0.2459
democracy1         0.9000        0.9000      0.3162     0.0000    0.0000    0.0000      0.0000
democracy2         0.9000        0.9000      0.3162     0.0000    0.0000    0.0000      0.0000
democracy1_2       0.8000        0.8000      0.4216     0.0000    0.0000    0.0000      0.0000
peaceyrs          45.9000       45.6000     33.4039     0.3000    1.5000    1.7000      3.0000
spline1       -56008.4650   -55435.2135  60121.0033  -573.2515 2558.4219 2492.0347  6142.8906
spline2      -119762.4621  -118674.6745 136270.0257 -1087.7876 6111.7031 5493.7628 15044.7812
spline3      -156825.9712  -156435.2932 192573.2894  -390.6780 7617.5859 7342.1688 24563.7188

Percent Balance Improvement:
               Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance     9.970160e+01  96.2045  97.7100  98.9671
cap_1        9.766480e+01  93.9313  95.6476  95.9336
cap_2        9.789830e+01  91.4104  95.8429  95.9336
capshare_1  -3.964952e+07  51.1857  81.1014  83.8791
s_wt_glo     8.428840e+01  99.2493  69.9019  44.6923
s_ld_1       9.946520e+01 100.0000  97.6855  94.0391
s_ld_2       9.982830e+01 100.0000  98.0156  94.0391
lndistance   9.891930e+01  91.5192  96.8978  96.7514
democracy1   1.000000e+02 100.0000 100.0000 100.0000
democracy2   1.000000e+02 100.0000 100.0000 100.0000
democracy1_2 1.000000e+02 100.0000 100.0000 100.0000
peaceyrs     9.783190e+01  91.6667  92.8270  96.7742
spline1      9.718710e+01  89.7950  95.7586  98.2834
spline2      9.751940e+01  87.7803  96.0927  98.3250
spline3      9.927710e+01  85.0144  96.7032  98.4136
```

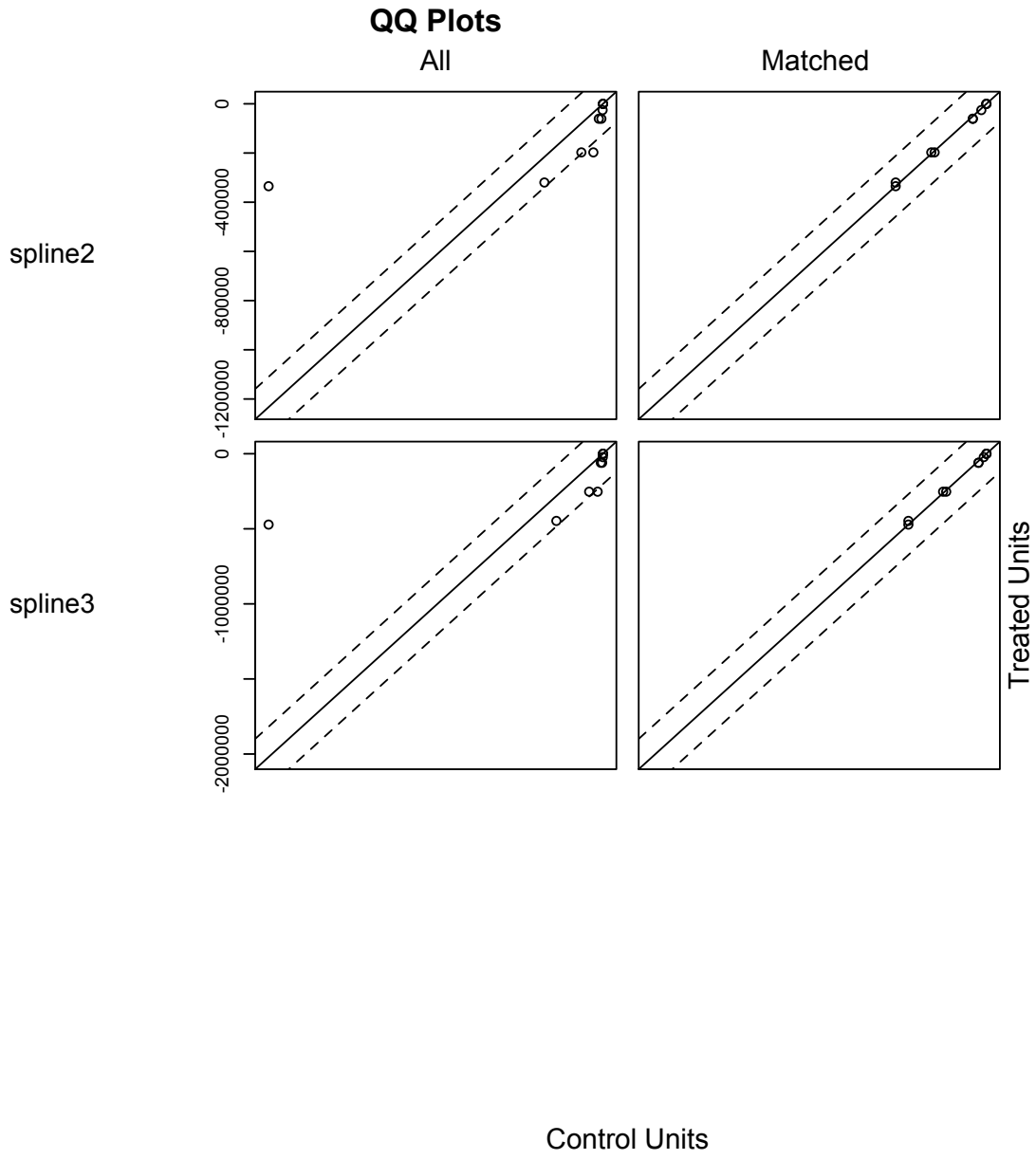
```
Sample sizes:
          Control Treated
All        173732      10
Matched        10      10
Unmatched  173722       0
Discarded       0       0
```

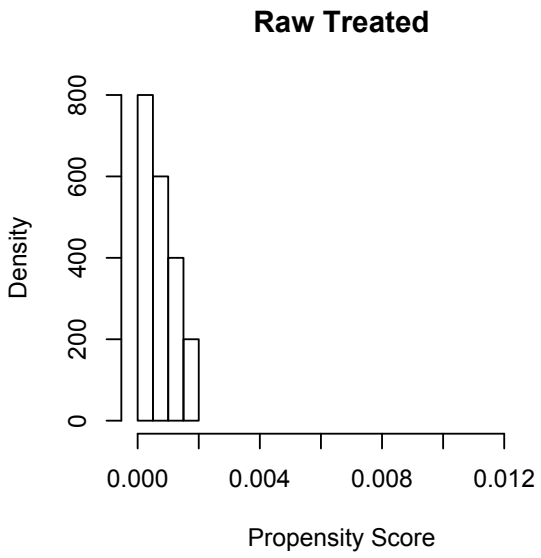


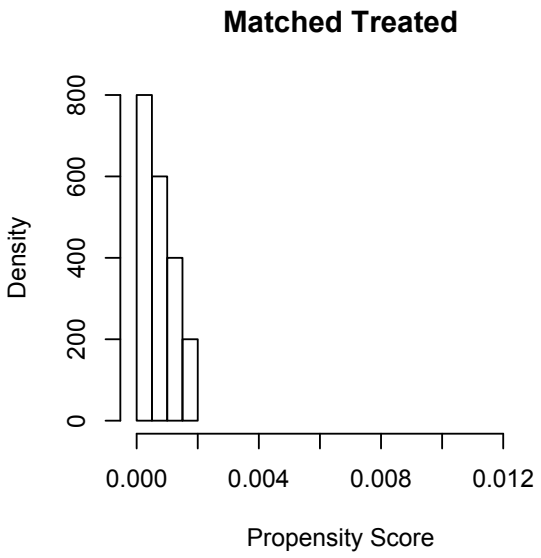

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

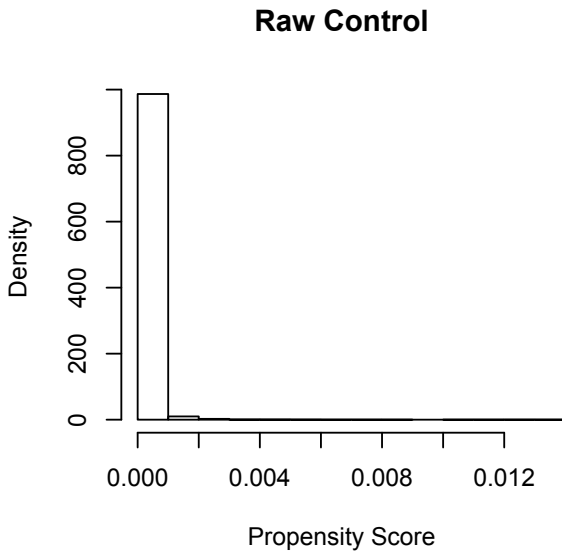

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
8
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

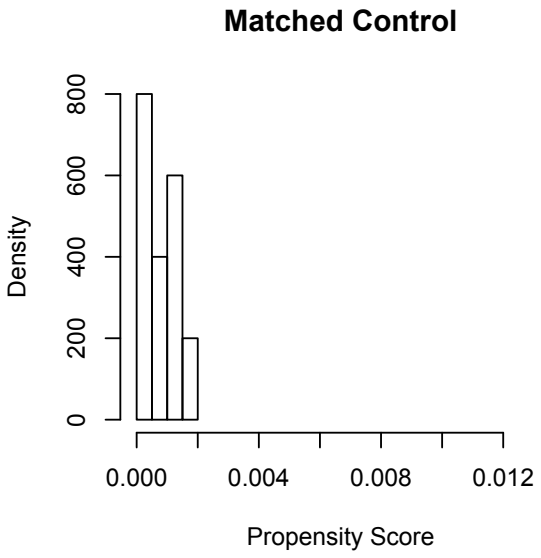

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
200
400
600
800
0.000
0.004
0.008
0.012
Propensity Score


Matched Treated
Density
0
200
400
600
800
0.000
0.004
0.008
0.012
Propensity Score


Raw Control
Density
0
200
400
600
800
0.000
0.004
0.008
0.012
Propensity Score


Matched Control
Density
0
200
400
600
800
0.000
0.004
0.008
0.012
Propensity Score

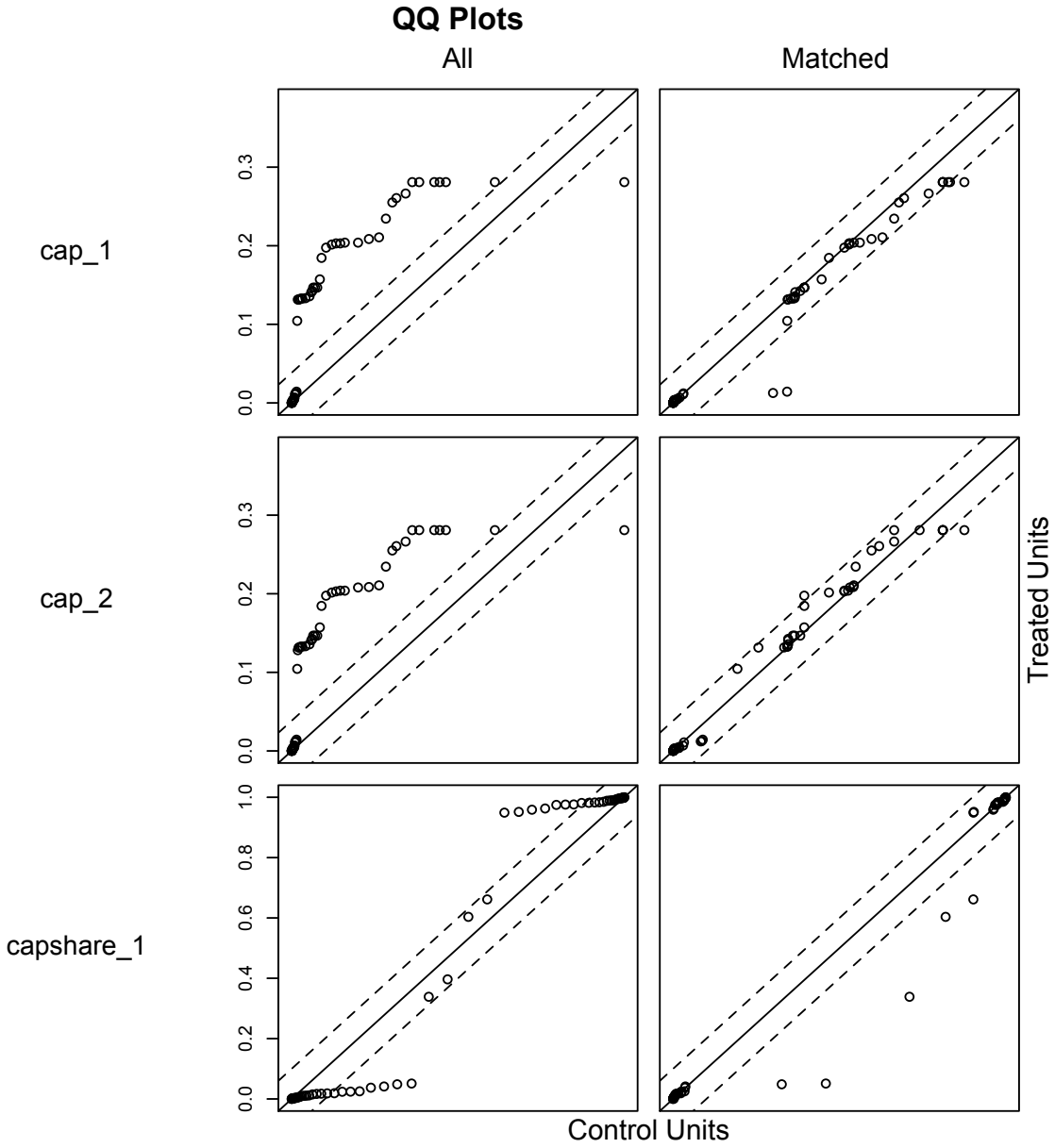
SUCCESSFUL COVERT INSTITUTIONAL FIRC: ANALYSIS OF MATCHED DATA

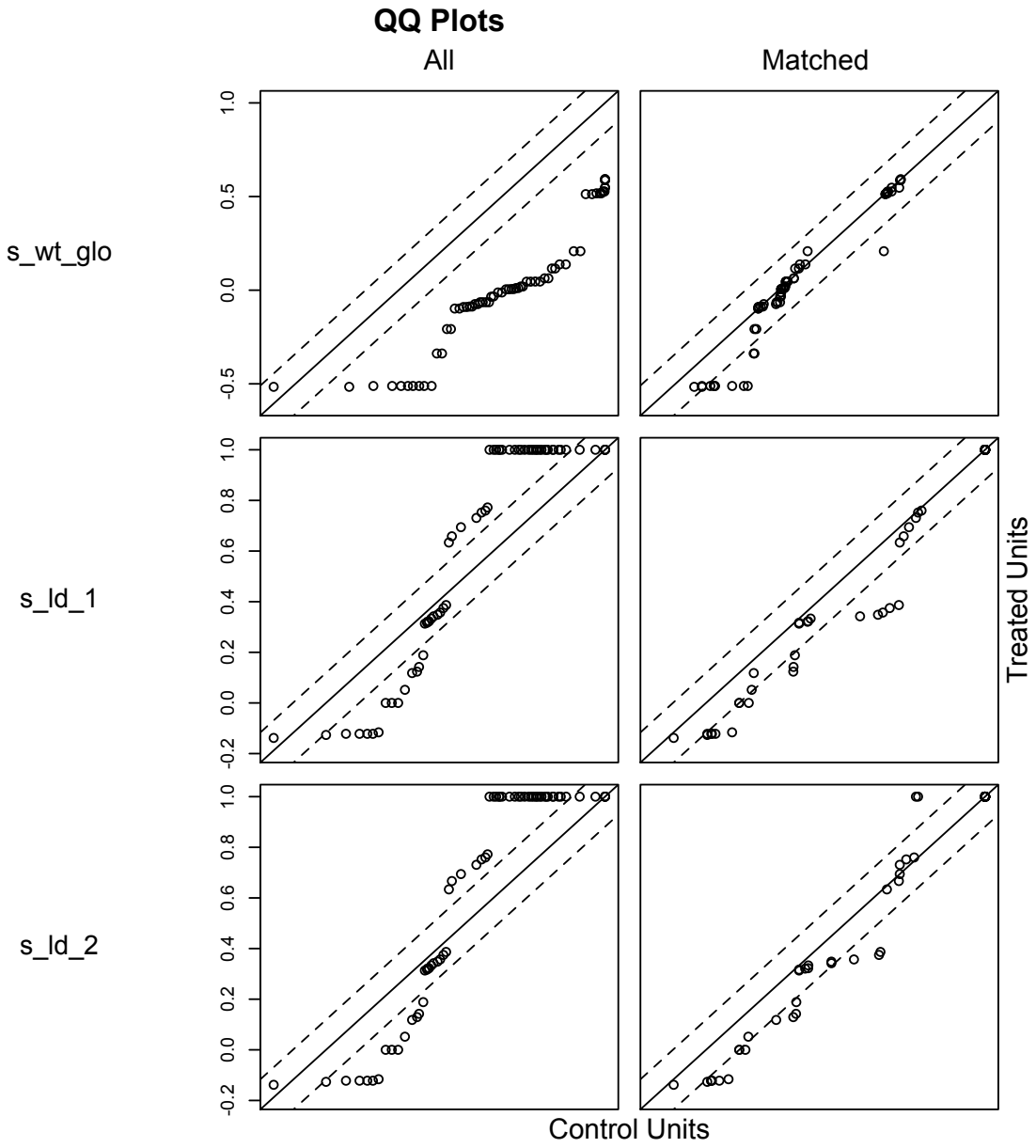
```
ttest cwinit10, by(covinstfircsucc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      10           0           0           0           0           0
       1 |      10           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |      20           0           0           0           0           0
---------+--------------------------------------------------------------------
    diff |                   0           0                       0           0
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =        .
Ho: diff = 0                                     degrees of freedom =       18

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) =      .         Pr(|T| > |t|) =      .          Pr(T > t) =      .
```

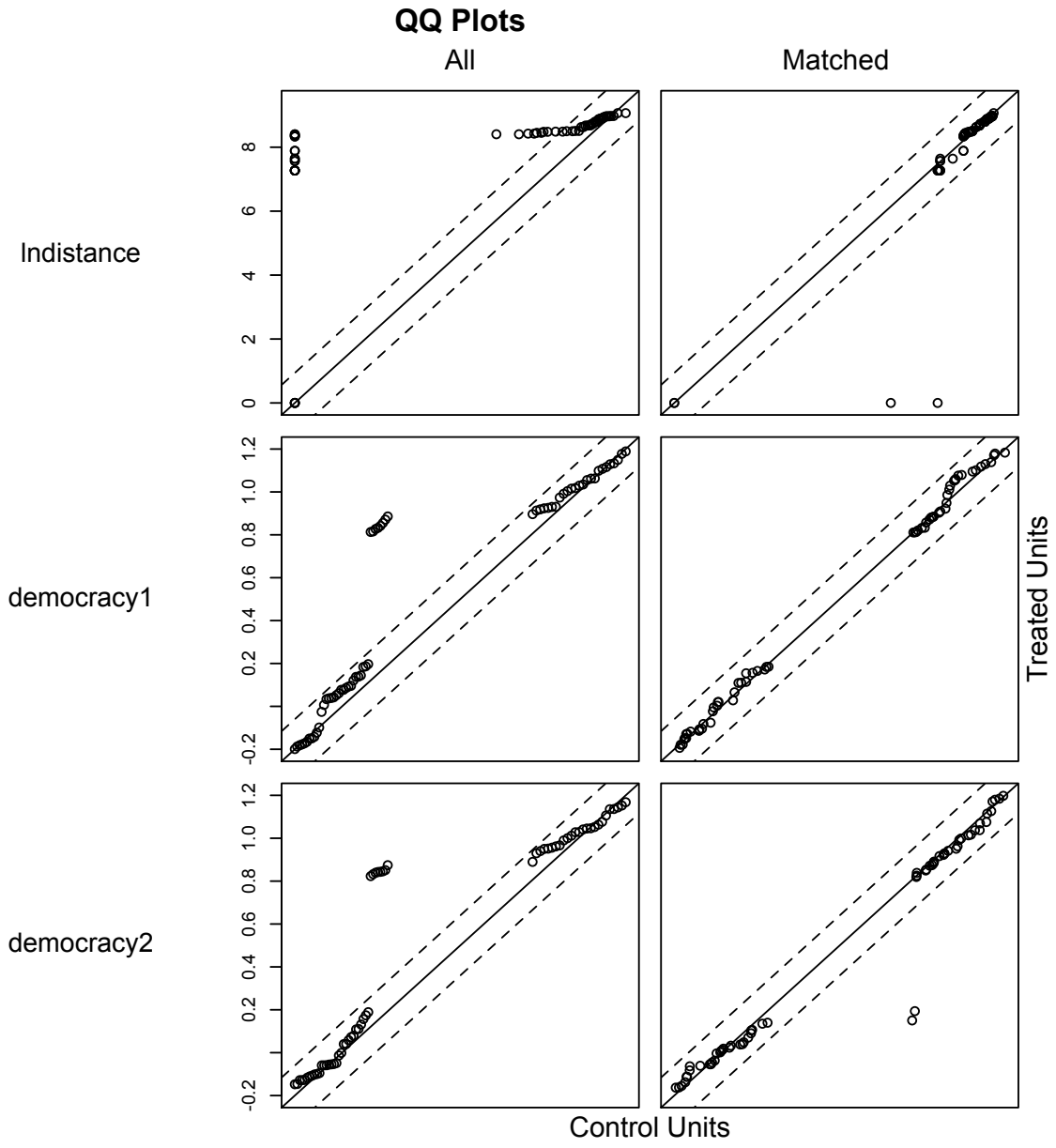
FAILED COVERT FIRC

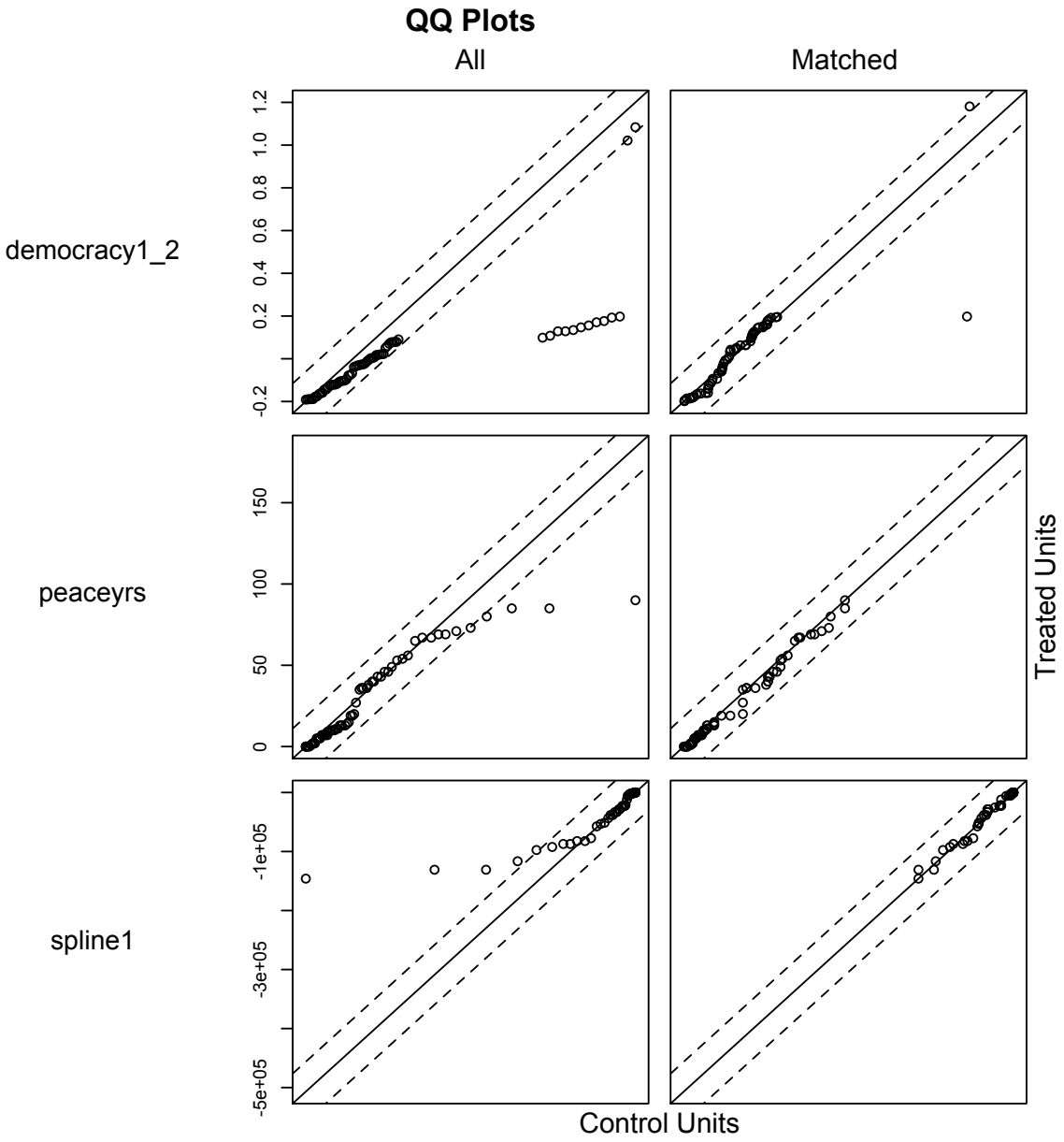
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

covfail.out1 <- matchit(covfircfail ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2 +
lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=covfail, method="genetic", pop.size=200)

summary(covfail.out1)

Call:
matchit(formula = covfircfail ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = covfail,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
            Means Treated Means Control  SD Control  Mean Diff   eQQ Med   eQQ Mean       eQQ Max
distance           0.0197        0.0004      0.0027     0.0193    0.0034     0.0158        0.1153
cap_1              0.1065        0.0401      0.0615     0.0663    0.1005     0.0668        0.1578
cap_2              0.1065        0.0401      0.0615     0.0664    0.1005     0.0668        0.1578
capshare_1         0.5000        0.5000      0.4148     0.0000    0.0302     0.0689        0.3095
s_wt_glo           0.0260        0.5332      0.3365    -0.5072    0.4903     0.5034        0.6726
s_ld_1             0.6277        0.5505      0.2604     0.0772    0.1987     0.1911        0.4141
s_ld_2             0.6279        0.5505      0.2604     0.0774    0.1959     0.1911        0.4141
lndistance         7.9118        5.3249      3.9454     2.5868    0.4736     2.5732        8.4036
democracy1         0.5156        0.3868      0.4870     0.1288    0.0000     0.1250        1.0000
democracy2         0.5156        0.3868      0.4870     0.1288    0.0000     0.1250        1.0000
democracy1_2       0.0312        0.1935      0.3950    -0.1622    0.0000     0.1719        1.0000
peaceyrs          27.7031       32.0630     32.0963    -4.3599    3.0000     6.7188       94.0000
spline1       -26580.2499   -35629.2778  67796.3443  9049.0280 2556.8705 15085.1424  360943.5938
spline2       -54331.9258   -75910.7530 159546.7293 21578.8272 4033.7119 35950.3879  905739.0938
spline3       -66761.7231  -102781.7461 245272.7897 36020.0230 3807.7700 58192.3570 1560778.0938


Summary of balance for matched data:
            Means Treated Means Control  SD Control Mean Diff  eQQ Med  eQQ Mean    eQQ Max
distance           0.0197        0.0194      0.0375    0.0002   0.0001    0.0017     0.0330
cap_1              0.1065        0.1139      0.1142   -0.0074   0.0017    0.0109     0.1172
cap_2              0.1065        0.1046      0.1072    0.0019   0.0025    0.0093     0.0551
capshare_1         0.5000        0.5114      0.4733   -0.0114   0.0031    0.0287     0.4080
s_wt_glo           0.0260        0.0661      0.2843   -0.0401   0.0153    0.0637     0.3617
s_ld_1             0.6277        0.6732      0.3843   -0.0455   0.0038    0.0591     0.3044
s_ld_2             0.6279        0.6655      0.3715   -0.0376   0.0143    0.0593     0.2479
lndistance         7.9118        8.1098      1.5710   -0.1980   0.0541    0.3107     7.4759
democracy1         0.5156        0.4844      0.5038    0.0312   0.0000    0.0000     0.0000
democracy2         0.5156        0.5469      0.5019   -0.0312   0.0000    0.0323     1.0000
democracy1_2       0.0312        0.0312      0.1754    0.0000   0.0000    0.0161     1.0000
peaceyrs          27.7031       29.6562     26.6182   -1.9531   2.0000    2.9032    13.0000
spline1       -26580.2499   -28224.1992  39498.1824 1643.9493 685.3481 2942.0693 15862.9023
spline2       -54331.9258   -57591.8791  86482.3496 3259.9533 701.7061 6487.1758 37155.0078
spline3       -66761.7231   -70460.6321 115823.7270 3698.9091 602.0811 8825.8225 59655.5000

Percent Balance Improvement:
              Mean Diff. eQQ Med eQQ Mean  eQQ Max
distance           98.8660 95.9025  89.1736  71.3872
cap_1              88.8431 98.3383  83.7142  25.7680
cap_2              97.0989 97.5515  86.0919  65.0617
capshare_1   -1122408.4970 89.7735  58.3269 -31.8447
s_wt_glo           92.0874 96.8804  87.3530  46.2200
s_ld_1             41.0360 98.0628  69.0681  26.4899
s_ld_2             51.4391 92.7228  68.9730  40.1411
lndistance         92.3442 88.5690  87.9249  11.0390
democracy1         75.7461  0.0000 100.0000 100.0000
democracy2         75.7461  0.0000  74.1935   0.0000
democracy1_2      100.0000  0.0000  90.6158   0.0000
peaceyrs           55.2023 33.3333  56.7892  86.1702
spline1            81.8329 73.1958  80.4969  95.6052
spline2            84.8928 82.6040  81.9552  95.8978
spline3            89.7310 84.1881  84.8334  96.1778
```

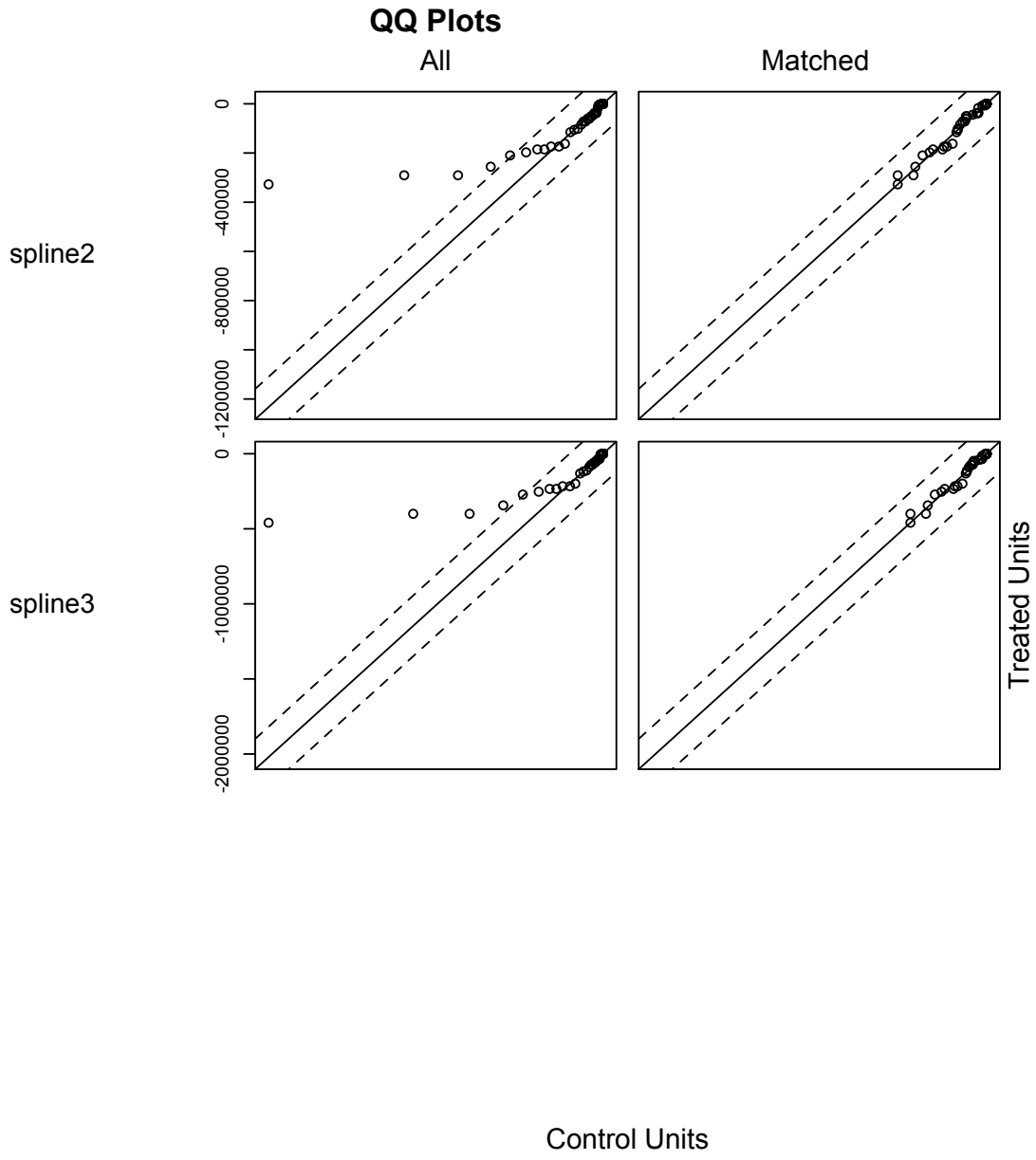
```
Sample sizes:
          Control Treated
All        173732      64
Matched        62      64
Unmatched  173670       0
Discarded       0       0
```

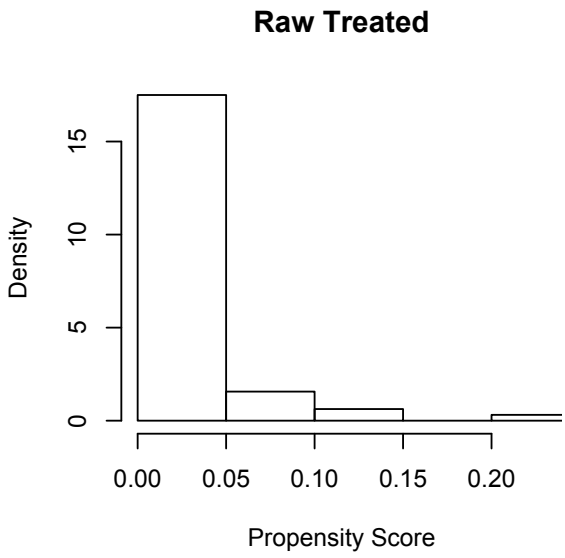


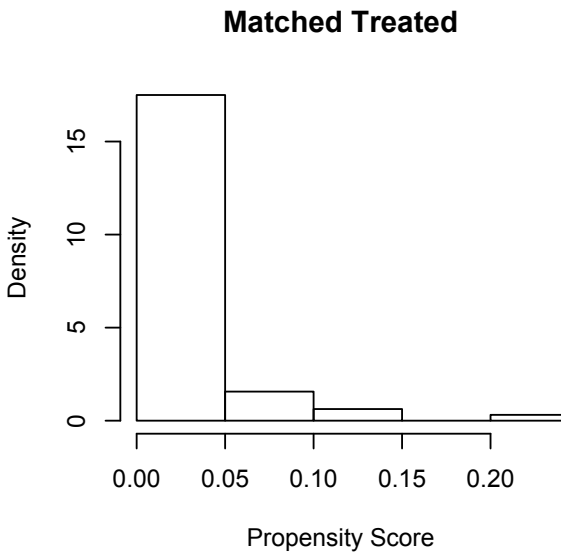

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

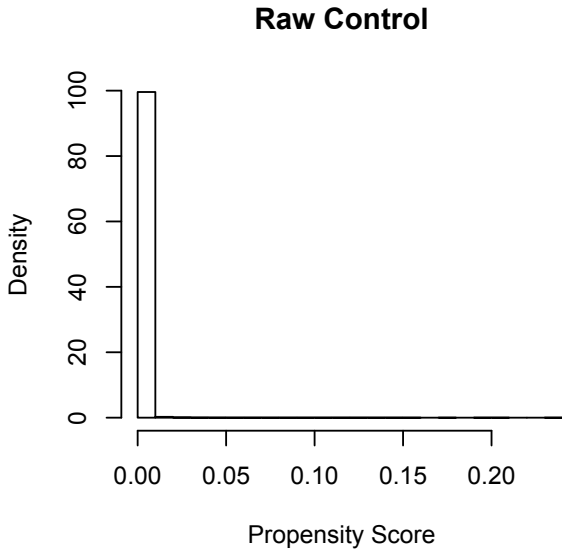

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

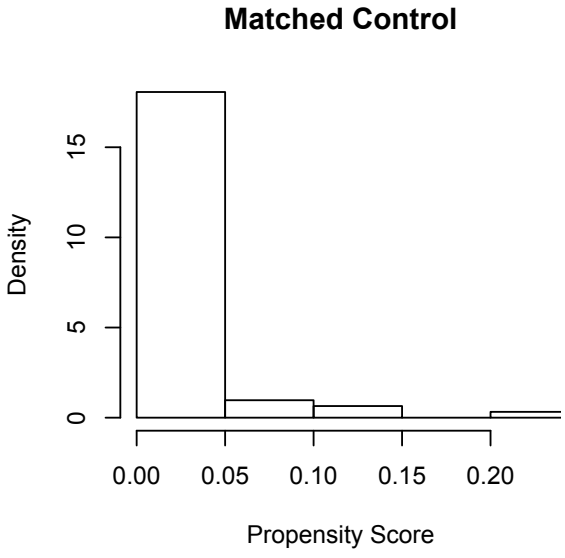

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
5
10
15
0.00
0.05
0.10
0.15
0.20
Propensity Score


Matched Treated
Density
0
5
10
15
0.00
0.05
0.10
0.15
0.20
Propensity Score


Raw Control
Density
0
20
40
60
80
100
0.00
0.05
0.10
0.15
0.20
Propensity Score


Matched Control
Density
0
5
10
15
0.00
0.05
0.10
0.15
0.20
Propensity Score

FAILED COVERT FIRC: ANALYSIS OF MATCHED DATA

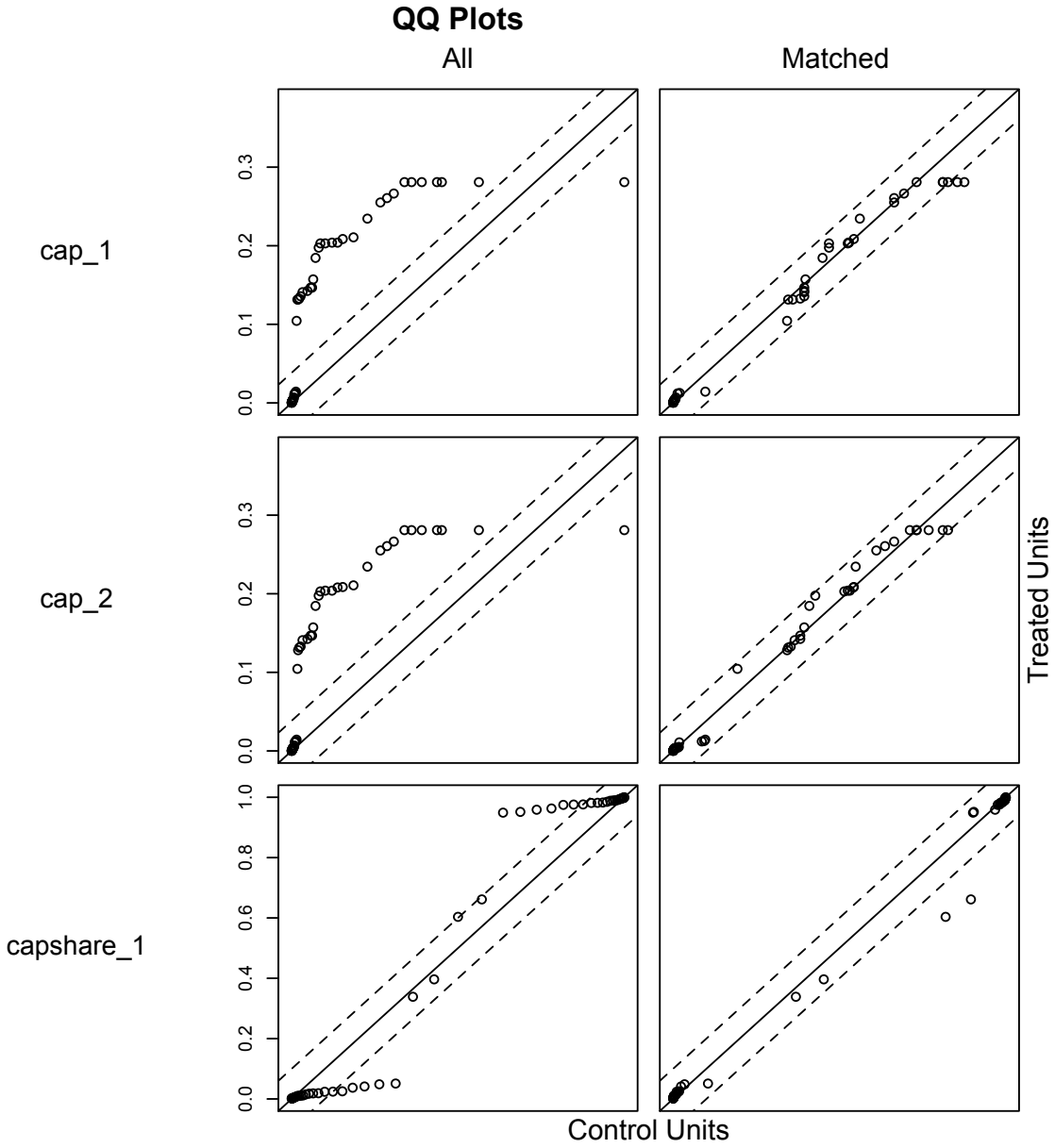
```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/covfircfailmidgenmatchnov16.dta"
(Written by R.              )

ttest cwinit10, by(covfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      62    .0483871    .0274745    .2163345   -.0065516    .1033258
       1 |      64      .28125    .0566454    .4531635    .1680531    .3944469
---------+--------------------------------------------------------------------
combined |     126    .1666667    .0333333    .3741657    .1006959    .2326375
---------+--------------------------------------------------------------------
    diff |           -.2328629    .0635934                -.358732   -.1069938
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.6617
Ho: diff = 0                                     degrees of freedom =      124

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0002         Pr(|T| > |t|) = 0.0004          Pr(T > t) = 0.9998

ttest midinit_fatal10, by(covfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      62    .0322581    .0226222     .178127   -.0129777    .0774939
       1 |      64      .21875    .0520833    .4166667    .1146698    .3228302
---------+--------------------------------------------------------------------
combined |     126    .1269841    .0297804    .3342844     .068045    .1859233
---------+--------------------------------------------------------------------
    diff |           -.1864919    .0574154                -.300133   -.0728508
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.2481
Ho: diff = 0                                     degrees of freedom =      124

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0007         Pr(|T| > |t|) = 0.0015          Pr(T > t) = 0.9993

ttest midinit_war10, by(covfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      62           0           0           0           0           0
       1 |      64      .03125    .021921    .1753681   -.0125556    .0750556
---------+--------------------------------------------------------------------
combined |     126     .015873    .0111789    .1254832   -.0062515    .0379975
---------+--------------------------------------------------------------------
    diff |             -.03125    .0222746               -.0753376    .0128376
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.4029
Ho: diff = 0                                     degrees of freedom =      124

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0816         Pr(|T| > |t|) = 0.1631          Pr(T > t) = 0.9184
```

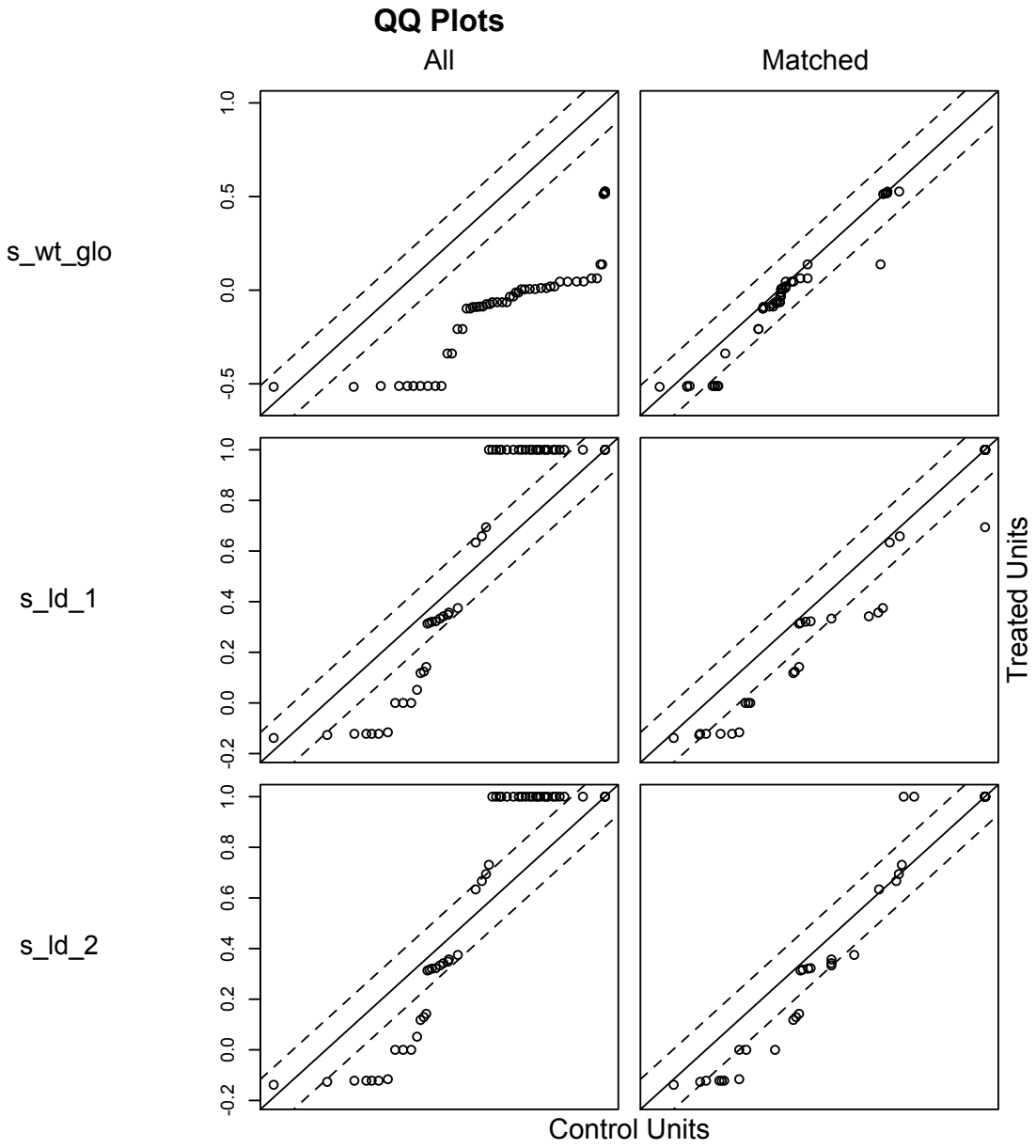
```
probit cwinit10 covfircfail cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -56.770712
Iteration 1:   log pseudolikelihood = -38.915888
Iteration 2:   log pseudolikelihood = -37.406495
Iteration 3:   log pseudolikelihood = -37.337337
Iteration 4:   log pseudolikelihood = -37.327087
Iteration 5:   log pseudolikelihood =  -37.32601
Iteration 6:   log pseudolikelihood =  -37.32581
Iteration 7:   log pseudolikelihood =  -37.32577
Iteration 8:   log pseudolikelihood = -37.325761
Iteration 9:   log pseudolikelihood =  -37.32576

Probit regression                                 Number of obs   =        126
                                                  Wald chi2(10)   =     340.51
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood =  -37.32576                 Pseudo R2       =     0.3425

                            (Std. Err. adjusted for 101 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 covfircfail |   1.610423   .5103454     3.16   0.002     .6101646    2.610682
       cap_1 |   4.237433   4.097589     1.03   0.301    -3.793693    12.26856
       cap_2 |   14.16663   5.933157     2.39   0.017     2.537861    25.79541
  capshare_1 |   2.809854   1.951473     1.44   0.150    -1.014963    6.634672
    s_wt_glo |   .9764156   .8865218     1.10   0.271    -.7611352    2.713966
      s_ld_1 |   1.173921   1.297907     0.90   0.366     -1.36993    3.717772
      s_ld_2 |  -.3233203   1.119756    -0.29   0.773    -2.518001    1.871361
  lndistance |  -.1734269   .0720915    -2.41   0.016    -.3147237   -.0321301
  democracy1 |  -5.664342   .7465619    -7.59   0.000    -7.127576   -4.201108
  democracy2 |  -4.375404   .3108094   -14.08   0.000    -4.984579   -3.766229
       _cons |     .15805   2.247163     0.07   0.944    -4.246309    4.562409
------------------------------------------------------------------------------
Note: 3 failures and 0 successes completely determined.
```

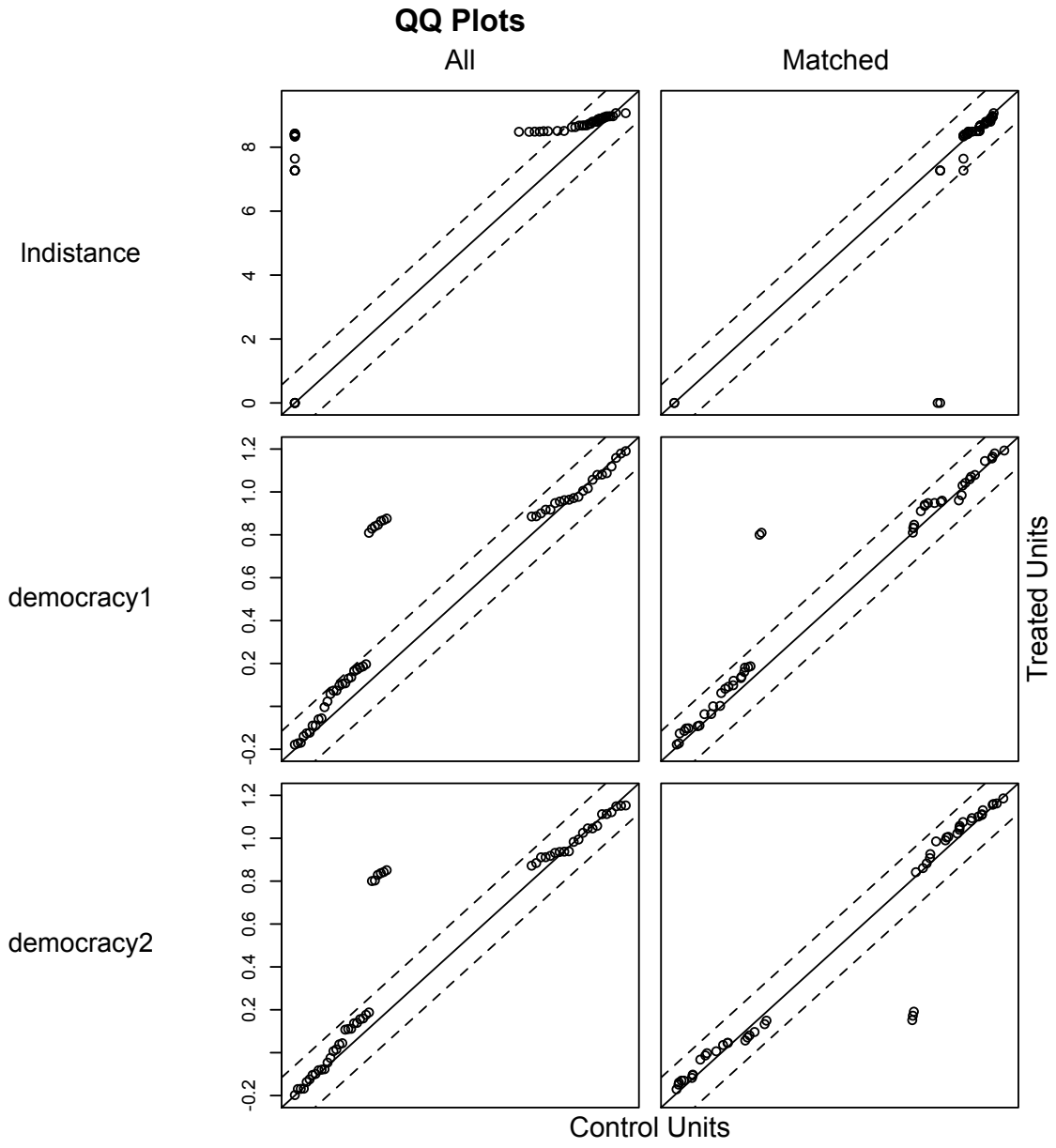
FAILED COVERT LEADERSHIP FIRC

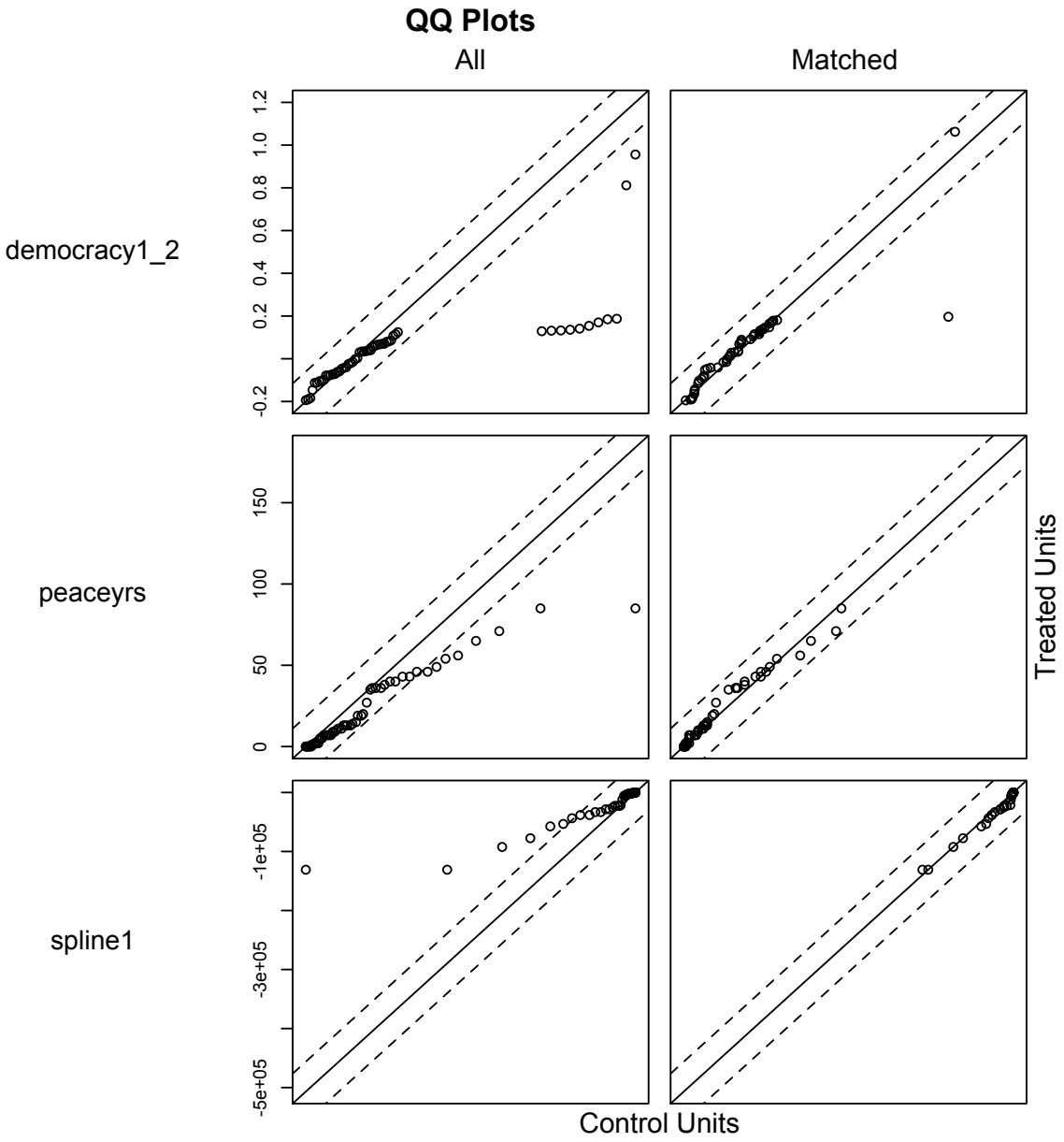
```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

clfail.out1 <- matchit(covleadfircfail ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2
+ lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=clfail, method="genetic", pop.size=200)

summary(clfail.out1)

Call:
matchit(formula = covleadfircfail ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = clfail,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
            Means Treated Means Control  SD Control  Mean Diff   eQQ Med   eQQ Mean       eQQ Max
distance           0.0333        0.0003      0.0028     0.0330    0.0035     0.0284        0.1725
cap_1              0.1144        0.0401      0.0615     0.0743    0.1029     0.0747        0.1699
cap_2              0.1119        0.0401      0.0615     0.0717    0.0978     0.0722        0.1699
capshare_1         0.5094        0.5000      0.4148     0.0094    0.0259     0.0625        0.3135
s_wt_glo          -0.0557        0.5332      0.3365    -0.5889    0.5740     0.5838        0.8976
s_ld_1             0.5959        0.5505      0.2604     0.0454    0.2175     0.1983        0.4162
s_ld_2             0.5911        0.5505      0.2604     0.0406    0.2170     0.1933        0.4040
lndistance         7.8943        5.3249      3.9454     2.5694    0.5232     2.6401        8.4257
democracy1         0.5283        0.3868      0.4870     0.1415    0.0000     0.1321        1.0000
democracy2         0.5094        0.3868      0.4870     0.1227    0.0000     0.1132        1.0000
democracy1_2       0.0377        0.1935      0.3950    -0.1558    0.0000     0.1698        1.0000
peaceyrs          22.2642       32.0630     32.0963    -9.7989    7.0000    11.1321       99.0000
spline1       -17902.4506   -35629.2778  67796.3443 17726.8273 4273.4297 22733.6849  375989.1016
spline2       -35150.7214   -75910.7530 159546.7293 40760.0316 5871.6190 53243.2999  942494.0000
spline3       -41169.1848  -102781.7461 245272.7897 61612.5612 5037.9940 82726.5573 1620433.5938


Summary of balance for matched data:
            Means Treated Means Control SD Control  Mean Diff  eQQ Med  eQQ Mean    eQQ Max
distance           0.0333        0.0313     0.0541     0.0020   0.0004    0.0064     0.0591
cap_1              0.1144        0.1198     0.1187    -0.0054   0.0022    0.0090     0.0551
cap_2              0.1119        0.1157     0.1160    -0.0038   0.0014    0.0075     0.0363
capshare_1         0.5094        0.5053     0.4743     0.0041   0.0059    0.0188     0.2338
s_wt_glo          -0.0557       -0.0272     0.2783    -0.0285   0.0426    0.0649     0.3557
s_ld_1             0.5959        0.6455     0.4027    -0.0496   0.0100    0.0703     0.3058
s_ld_2             0.5911        0.6192     0.3903    -0.0281   0.0185    0.0696     0.2917
lndistance         7.8943        8.2221     1.7012    -0.3277   0.0938    0.4355     7.5480
democracy1         0.5283        0.4717     0.5045     0.0566   0.0000    0.0417     1.0000
democracy2         0.5094        0.5660     0.5009    -0.0566   0.0000    0.0625     1.0000
democracy1_2       0.0377        0.0377     0.1926     0.0000   0.0000    0.0208     1.0000
peaceyrs          22.2642       20.0189    22.2246     2.2453   1.5000    2.6250    14.0000
spline1       -17902.4506   -15530.6259 30782.3464 -2371.8246 387.6080 2982.5431 16749.4341
spline2       -35150.7214   -30409.5405 67181.7030 -4741.1809 412.9240 5916.4441 30416.9448
spline3       -41169.1848   -36216.0840 90029.1193 -4953.1008 354.2990 6593.6165 35369.2812

Percent Balance Improvement:
            Mean Diff. eQQ Med eQQ Mean eQQ Max
distance        93.8702 89.0534  77.5700 65.7090
cap_1           92.7156 97.8581  87.9028 67.5342
cap_2           94.7176 98.5393  89.5434 78.6511
capshare_1      56.5036 77.0626  69.8787 25.4186
s_wt_glo        95.1594 92.5863  88.8832 60.3752
s_ld_1          -9.2936 95.3901  64.5509 26.5276
s_ld_2          30.7451 91.4656  64.0178 27.8123
lndistance      87.2452 82.0761  83.5055 10.4170
democracy1      60.0036  0.0000  68.4524  0.0000
democracy2      53.8510  0.0000  44.7917  0.0000
democracy1_2   100.0000  0.0000  87.7315  0.0000
peaceyrs        77.0863 78.5714  76.4195 85.8586
spline1         86.6201 90.9298  86.8805 95.5452
spline2         88.3681 92.9675  88.8879 96.7727
spline3         91.9609 92.9675  92.0296 97.8173
```

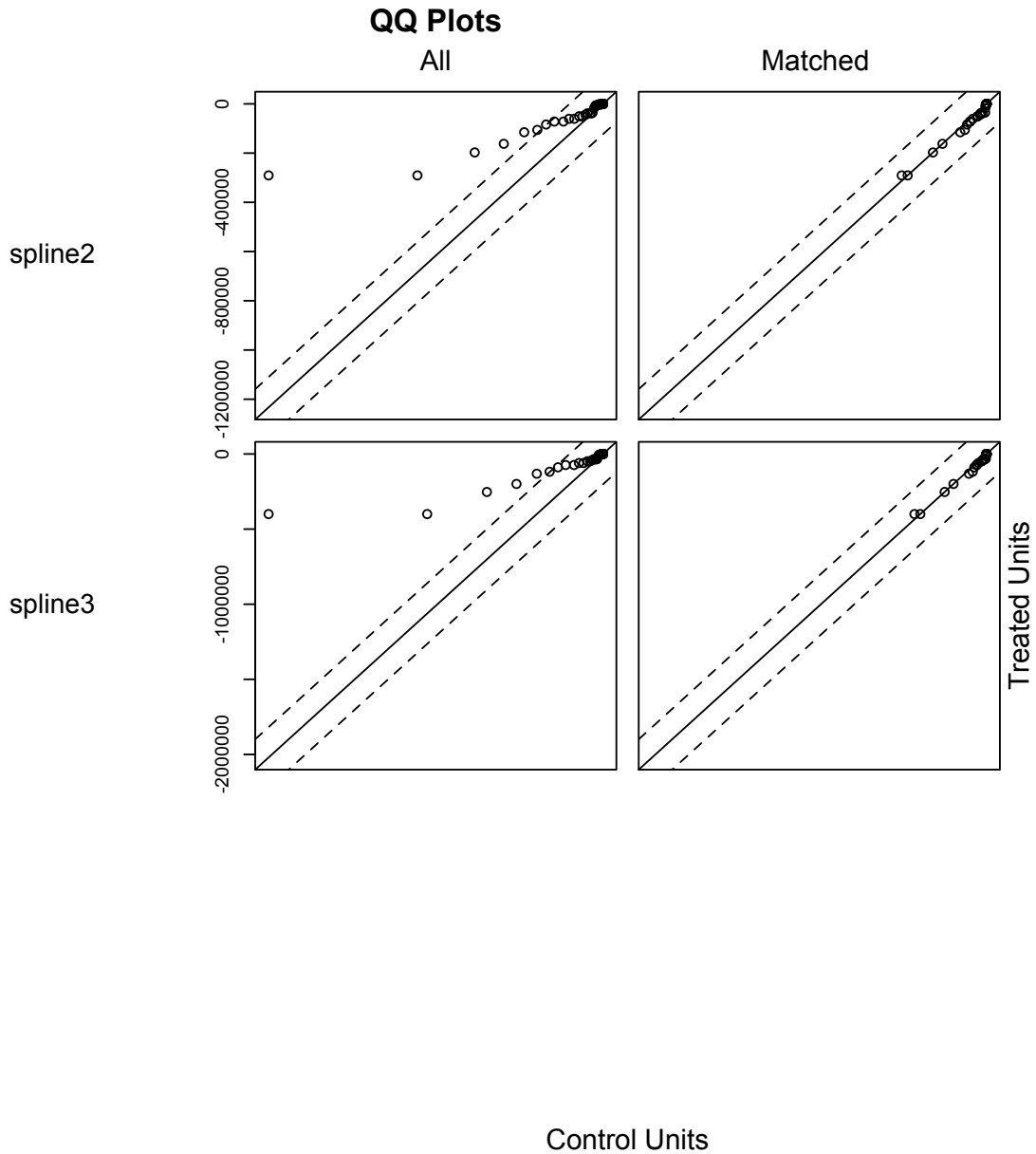
```
Sample sizes:
          Control Treated
All        173732      53
Matched        48      53
Unmatched  173684       0
Discarded       0       0
```

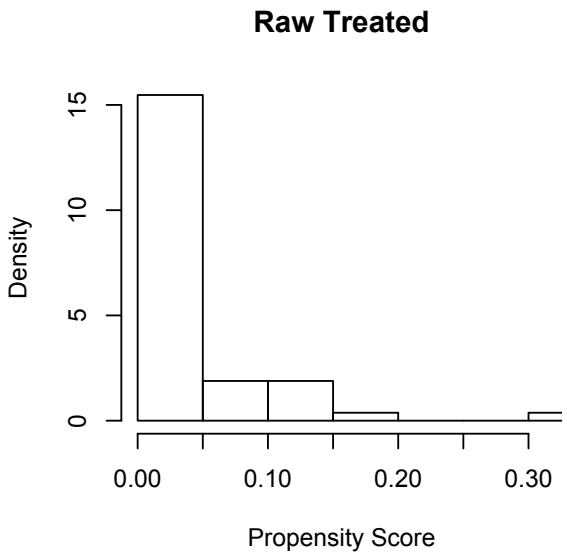


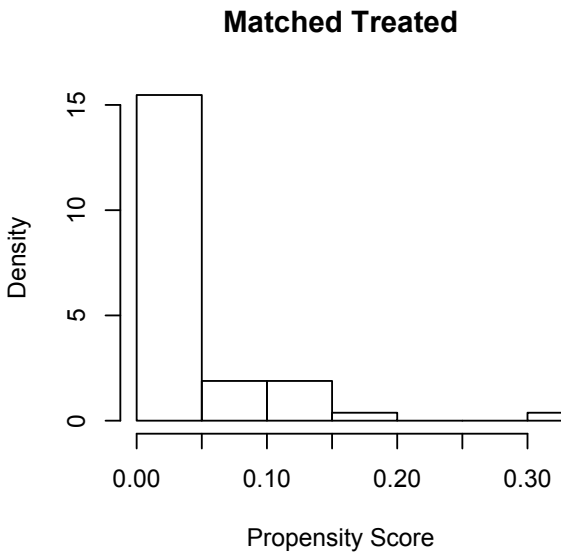

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

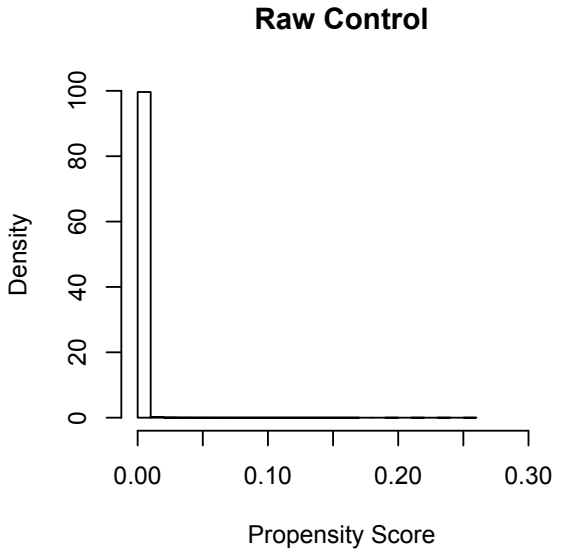

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

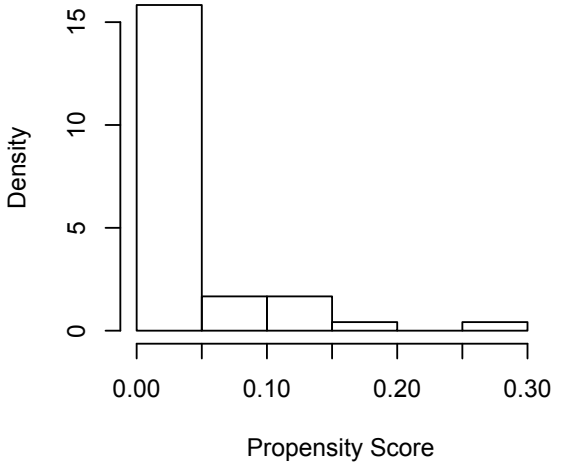

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
5
10
15
0.00
0.10
0.20
0.30
Propensity Score


Matched Treated
Density
0
5
10
15
0.00
0.10
0.20
0.30
Propensity Score


Raw Control
Density
0
20
40
60
80
100
0.00
0.10
0.20
0.30
Propensity Score


Matched Control
Density
0
5
10
15
0.00
0.10
0.20
0.30
Propensity Score

FAILED COVERT LEADERSHIP FIRC: ANALYSIS OF MATCHED DATA

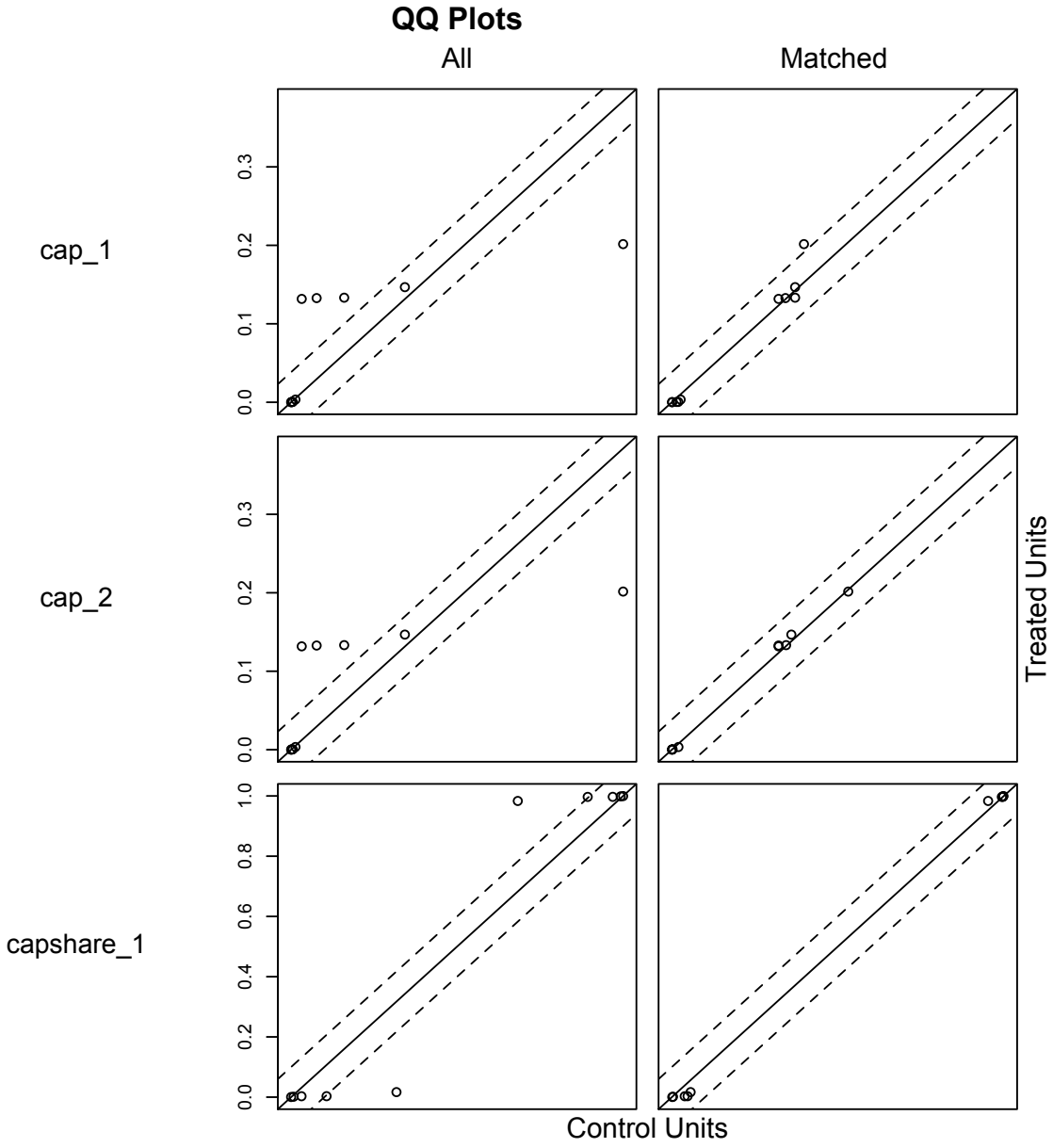
```
use "/Users/downes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/clfircfailmidgenmatchnov16.dta"
(Written by R.              )

ttest cwinit10, by(covleadfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      48    .0208333    .0208333    .1443376   -.0210779    .0627446
       1 |      53    .2830189    .0624683    .4547763     .157667    .4083707
---------+--------------------------------------------------------------------
combined |     101    .1584158     .036513    .3669516     .085975    .2308567
---------+--------------------------------------------------------------------
    diff |           -.2621855     .068597                -.398297   -.1260741
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.8221
Ho: diff = 0                                     degrees of freedom =       99

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0001         Pr(|T| > |t|) = 0.0002          Pr(T > t) = 0.9999

ttest midinit_fatal10, by(covleadfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      48    .0208333    .0208333    .1443376   -.0210779    .0627446
       1 |      53     .245283    .0596656    .4343722    .1255552    .3650108
---------+--------------------------------------------------------------------
combined |     101    .1386139    .0345543    .3472666    .0700591    .2071686
---------+--------------------------------------------------------------------
    diff |           -.2244497    .0657817               -.3549748   -.0939245
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -3.4120
Ho: diff = 0                                     degrees of freedom =       99

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0005         Pr(|T| > |t|) = 0.0009          Pr(T > t) = 0.9995

ttest midinit_war10, by(covleadfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      48           0           0           0           0           0
       1 |      53    .0377358    .0264255    .1923802   -.0152907    .0907624
---------+--------------------------------------------------------------------
combined |     101     .019802    .0139319    .1400141   -.0078386    .0474425
---------+--------------------------------------------------------------------
    diff |           -.0377358    .0277809               -.0928592    .0173875
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.3583
Ho: diff = 0                                     degrees of freedom =       99

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0887         Pr(|T| > |t|) = 0.1774          Pr(T > t) = 0.9113
```

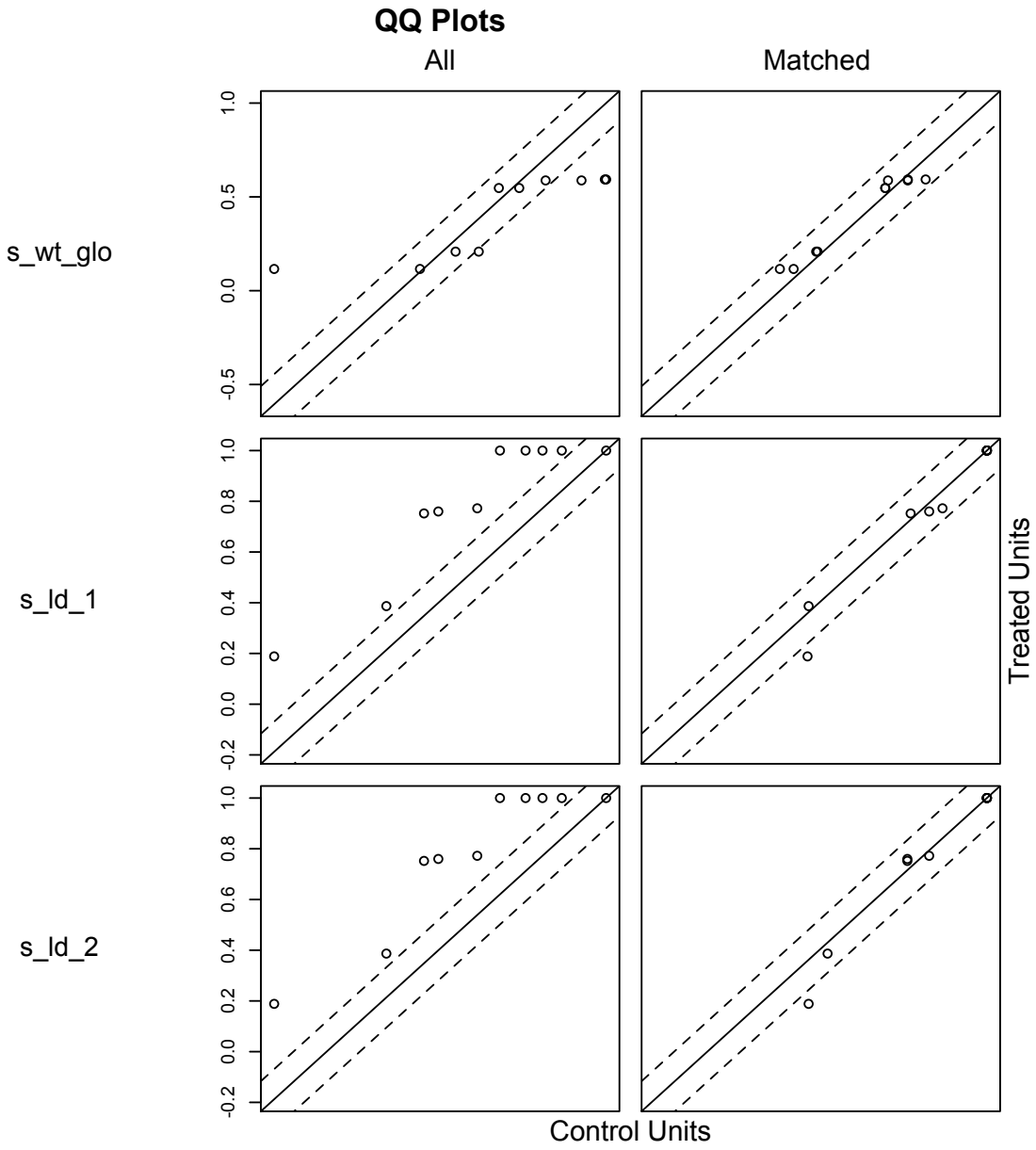
```
probit cwinit10 covleadfircfail cap_1 cap_2 s_wt_glo s_ld_1 s_ld_2 lndistance democracy1
democracy2, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -44.140396
Iteration 1:   log pseudolikelihood = -26.523354
Iteration 2:   log pseudolikelihood = -24.084202
Iteration 3:   log pseudolikelihood =  -23.91313
Iteration 4:   log pseudolikelihood = -23.908533
Iteration 5:   log pseudolikelihood = -23.907716
Iteration 6:   log pseudolikelihood = -23.907558
Iteration 7:   log pseudolikelihood = -23.907525
Iteration 8:   log pseudolikelihood = -23.907519
Iteration 9:   log pseudolikelihood = -23.907518

Probit regression                                 Number of obs   =        101
                                                  Wald chi2(9)    =     335.84
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -23.907518                 Pseudo R2       =     0.4584

                                (Std. Err. adjusted for 84 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
covleadfircfail |    2.67761   .7379198     3.63   0.000     1.231314    4.123906
      cap_1 |   13.66868   5.638437     2.42   0.015     2.617544    24.71981
      cap_2 |   9.888502   3.782294     2.61   0.009     2.475342    17.30166
   s_wt_glo |   .9523802   1.269131     0.75   0.453    -1.535071    3.439831
     s_ld_1 |  -.1195745   1.821447    -0.07   0.948    -3.689546    3.450397
     s_ld_2 |   .3379944   1.907117     0.18   0.859    -3.399887    4.075876
 lndistance |  -.2436738   .0731787    -3.33   0.001    -.3871015   -.1002461
 democracy1 |  -4.237424   .7874595    -5.38   0.000    -5.780816   -2.694032
 democracy2 |  -4.234749   .5013106    -8.45   0.000      -5.2173   -3.252199
      _cons |   .0275254   2.862174     0.01   0.992    -5.582232    5.637283
------------------------------------------------------------------------------
Note: 2 failures and 0 successes completely determined.
```

FAILED COVERT INSTITUTIONAL FIRC

```
library(foreign)
library(MatchIt)
library(Matching)
library(rgenoud)

cifail.out1 <- matchit(covinstfircfail ~ cap_1 + cap_2 + capshare_1 + s_wt_glo + s_ld_1 + s_ld_2
+ lndistance + democracy1 + democracy2 + democracy1_2 + peaceyrs + spline1 + spline2 + spline3,
data=cifail, method="genetic", pop.size=200)

summary(cifail.out1)

Call:
matchit(formula = covinstfircfail ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs + spline1 + spline2 + spline3, data = cifail,
    method = "genetic", pop.size = 200)

Summary of balance for all data:
           Means Treated Means Control  SD Control    Mean Diff     eQQ Med    eQQ Mean      eQQ Max
distance          0.0020        0.0001      0.0004       0.0019      0.0014      0.0025       0.0089
cap_1             0.0750        0.0401      0.0615       0.0349      0.0084      0.0496       0.1823
cap_2             0.0750        0.0401      0.0615       0.0349      0.0084      0.0496       0.1823
capshare_1        0.5000        0.5000      0.4148       0.0000      0.0283      0.0878       0.3006
s_wt_glo          0.4104        0.5332      0.3365      -0.1228      0.1475      0.2296       0.7214
s_ld_1            0.7859        0.5505      0.2604       0.2354      0.2608      0.2601       0.4038
s_ld_2            0.7859        0.5505      0.2604       0.2354      0.2608      0.2601       0.4038
lndistance        8.0312        5.3249      3.9454       2.7063      0.6212      3.1453       7.5689
democracy1        0.5000        0.3868      0.4870       0.1132      0.0000      0.1000       1.0000
democracy2        0.5000        0.3868      0.4870       0.1132      0.0000      0.1000       1.0000
democracy1_2      0.0000        0.1935      0.3950      -0.1935      0.0000      0.2000       1.0000
peaceyrs         58.8000       32.0630     32.0963      26.7370     38.5000     36.8000      94.0000
spline1       -75218.6547   -35629.2778  67796.3443  -39589.3769  60805.8506  78582.0219  360943.5938
spline2      -161414.4963   -75910.7530 159546.7293  -85503.7433 139958.1016 183767.2593  905739.0938
spline3      -209068.9049  -102781.7461 245272.7897 -106287.1588 195180.3887 277419.7660 1560778.0938


Summary of balance for matched data:
           Means Treated Means Control  SD Control Mean Diff   eQQ Med   eQQ Mean    eQQ Max
distance          0.0020        0.0020      0.0015    0.0000    0.0000     0.0000     0.0001
cap_1             0.0750        0.0716      0.0710    0.0035    0.0058     0.0091     0.0488
cap_2             0.0750        0.0730      0.0784    0.0020    0.0018     0.0035     0.0094
capshare_1        0.5000        0.5087      0.5057   -0.0087    0.0025     0.0158     0.0442
s_wt_glo          0.4104        0.3898      0.2574    0.0206    0.0386     0.0537     0.1169
s_ld_1            0.7859        0.8083      0.2567   -0.0224    0.0122     0.0322     0.1700
s_ld_2            0.7859        0.8017      0.2456   -0.0158    0.0107     0.0320     0.1739
lndistance        8.0312        8.0770      0.7012   -0.0459    0.0568     0.1728     0.4935
democracy1        0.5000        0.5000      0.5270    0.0000    0.0000     0.0000     0.0000
democracy2        0.5000        0.5000      0.5270    0.0000    0.0000     0.0000     0.0000
democracy1_2      0.0000        0.0000      0.0000    0.0000    0.0000     0.0000     0.0000
peaceyrs         58.8000       59.5000     26.9165   -0.7000    2.0000     1.7000     4.0000
spline1       -75218.6547   -76220.1845  46829.1051 1001.5298 1577.1585  3400.0236 10233.2188
spline2      -161414.4963  -163667.4876 104866.4637 2252.9912 3315.1265  7924.8506 24445.2969
spline3      -209068.9049  -212593.6087 145575.9455 3524.7037 4847.9781 12021.2225 37581.9062

Percent Balance Improvement:
              Mean Diff. eQQ Med eQQ Mean  eQQ Max
distance      9.964250e+01 98.7611  98.9066  99.1297
cap_1         9.011440e+01 30.5153  81.6450  73.2187
cap_2         9.423290e+01 78.8346  93.0131  94.8575
capshare_1   -1.000296e+09 91.0828  81.9637  85.2955
s_wt_glo      8.326350e+01 73.8097  76.6139  83.7930
s_ld_1        9.050290e+01 95.3329  87.6201  57.8989
s_ld_2        9.329410e+01 95.8992  87.7133  56.9273
lndistance    9.830520e+01 90.8532  94.5060  93.4799
democracy1    1.000000e+02  0.0000 100.0000 100.0000
democracy2    1.000000e+02  0.0000 100.0000 100.0000
democracy1_2  1.000000e+02  0.0000 100.0000 100.0000
peaceyrs      9.738190e+01 94.8052  95.3804  95.7447
spline1       9.747020e+01 97.4062  95.6733  97.1649
spline2       9.736500e+01 97.6313  95.6876  97.3011
spline3       9.668380e+01 97.5162  95.6668  97.5921
```

```
Sample sizes:
          Control Treated
All        173732      10
Matched        10      10
Unmatched  173722       0
Discarded       0       0
```




QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
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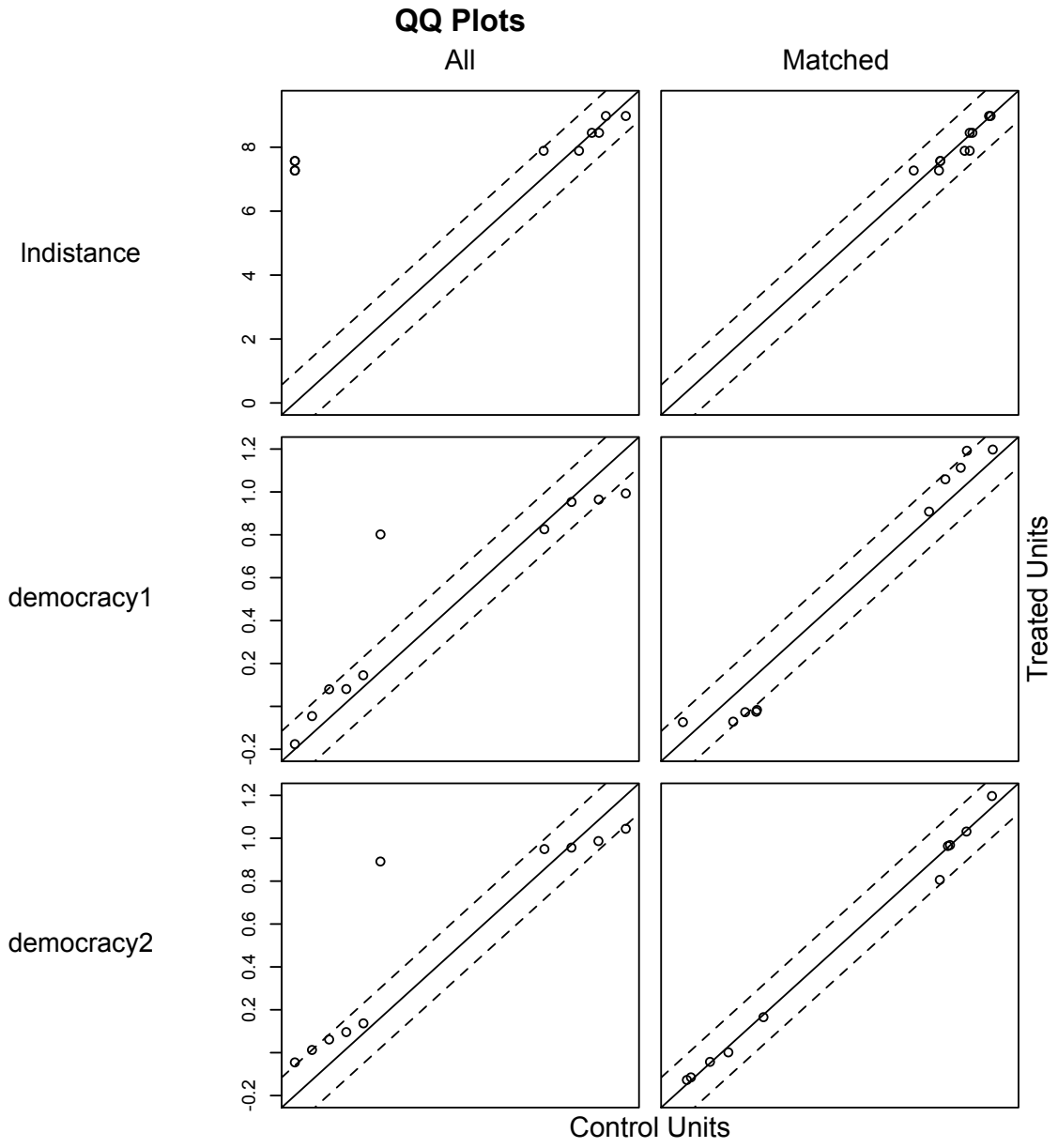
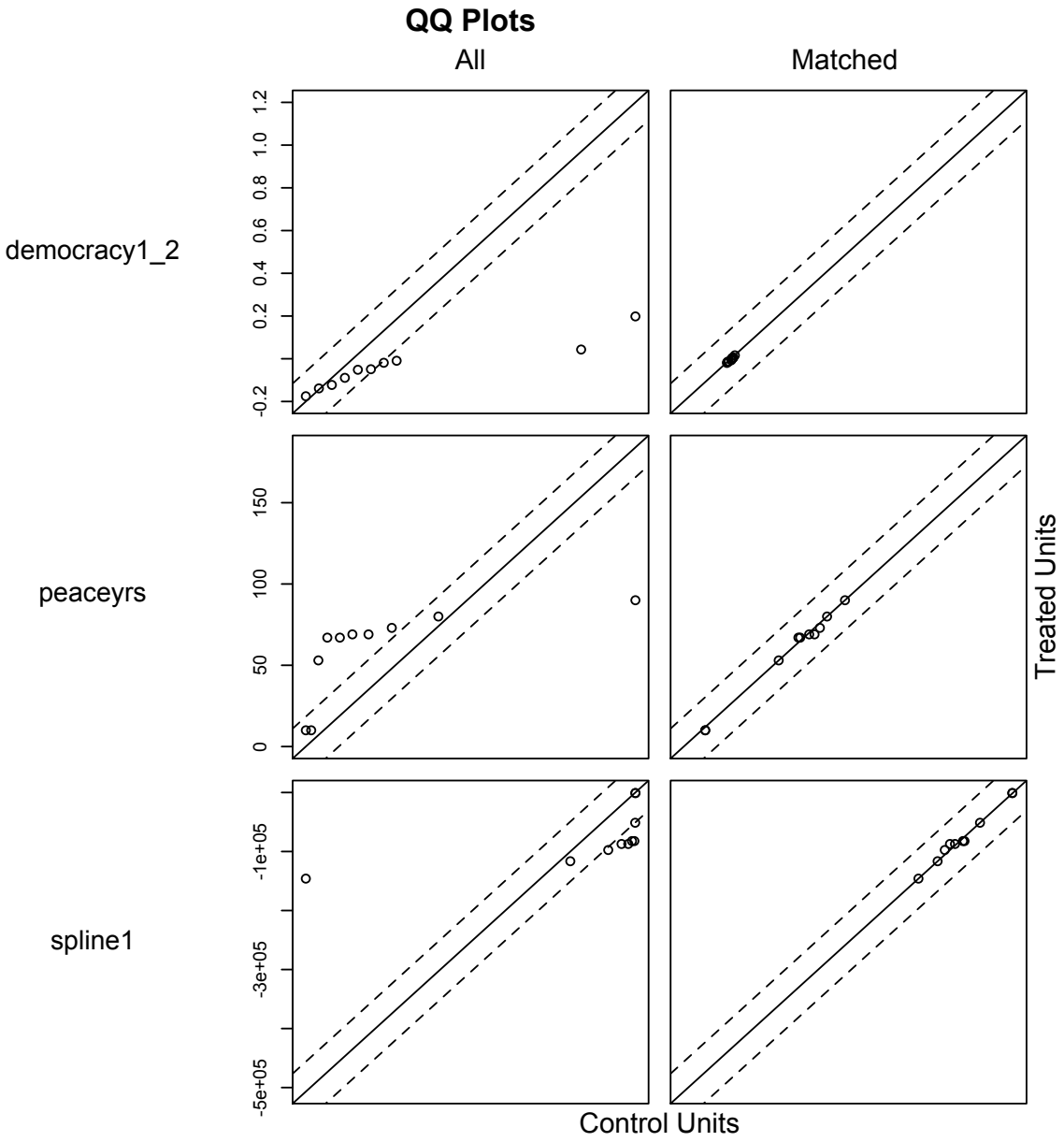
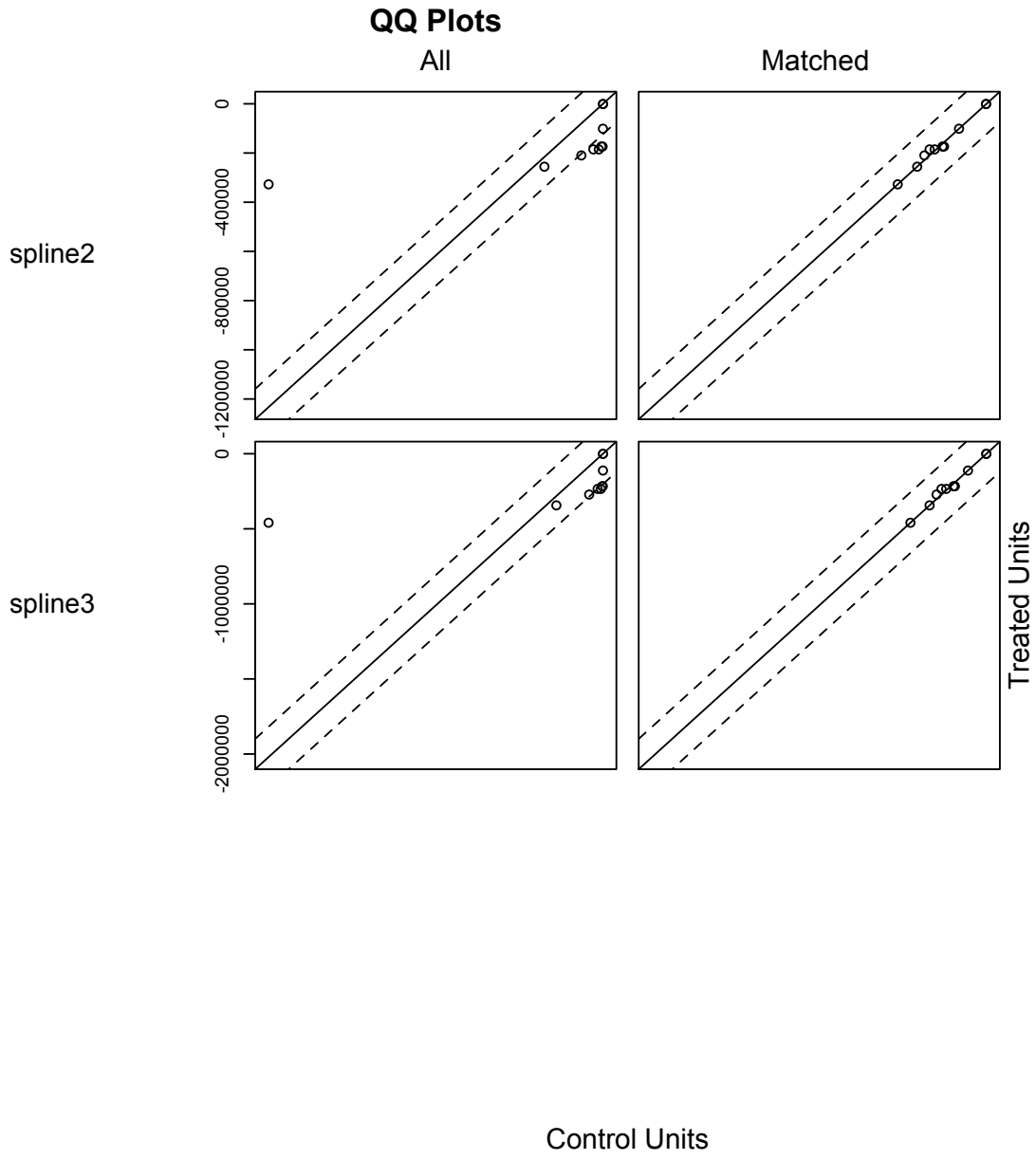
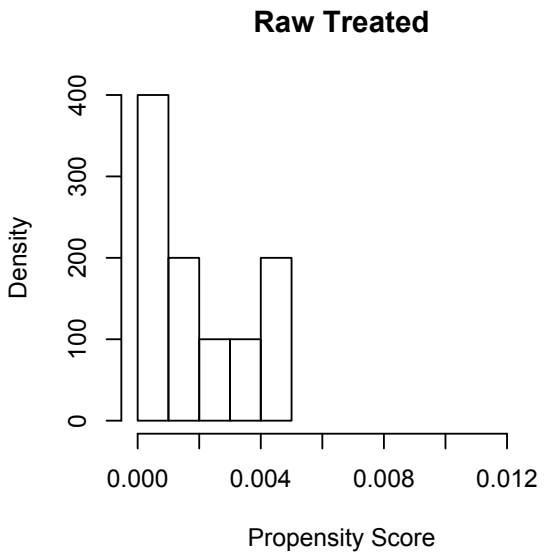
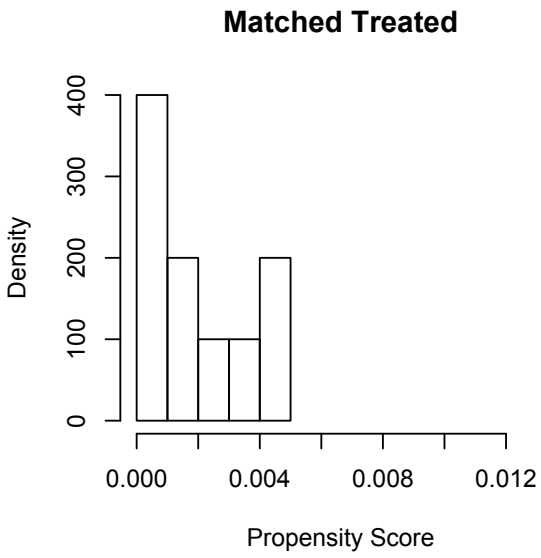
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

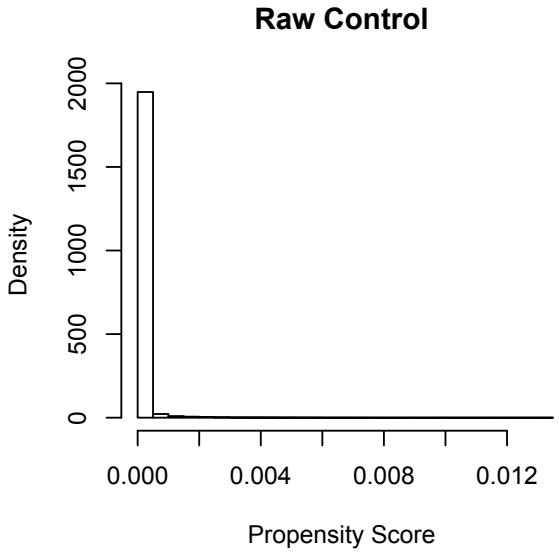

QQ Plots
All
Matched
ldistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

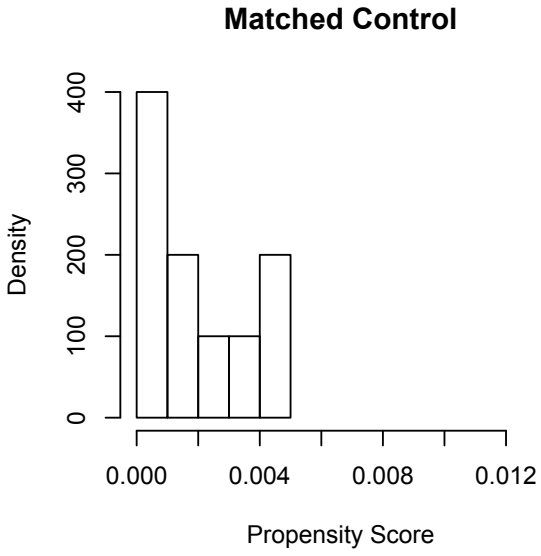

QQ Plots
All
Matched
democracy1_2
peaceyrs
spline1
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
-5e+05
-3e+05
-1e+05
Treated Units
Control Units


QQ Plots
All
Matched
spline2
spline3
0
-400000
-800000
-1200000
0
-1000000
-2000000
Treated Units
Control Units


Raw Treated
Density
0
100
200
300
400
0.000
0.004
0.008
0.012
Propensity Score


Matched Treated
Density
0
100
200
300
400
0.000
0.004
0.008
0.012
Propensity Score


Raw Control
Density
0
500
1000
1500
2000
0.000
0.004
0.008
0.012
Propensity Score


Matched Control
Density
0
100
200
300
400
0.000
0.004
0.008
0.012
Propensity Score

FAILED COVERT INSTITUTIONAL FIRC: ANALYSIS OF MATCHED DATA

```
use "/Users/abdownes/Dropbox/O'Rourke Downes FIRC Folder/FIRC and MIDs/Data and Analysis/Matching
November 2016/cifircfailmidgenmatchnov16.dta"
(Written by R.              )

ttest cwinit10, by(covinstfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      10          .1          .1    .3162278   -.1262157    .3262157
       1 |      10          .3    .1527525    .4830459   -.0455502    .6455502
---------+--------------------------------------------------------------------
combined |      20          .2    .0917663    .4103913    .0079309    .3920691
---------+--------------------------------------------------------------------
    diff |                -.2    .1825742               -.5835741    .1835741
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.0954
Ho: diff = 0                                     degrees of freedom =       18

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1439         Pr(|T| > |t|) = 0.2878          Pr(T > t) = 0.8561

ttest midinit_fatal10, by(covinstfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      10           0           0           0           0           0
       1 |      10          .1          .1    .3162278   -.1262157    .3262157
---------+--------------------------------------------------------------------
combined |      20         .05         .05    .2236068   -.0546512    .1546512
---------+--------------------------------------------------------------------
    diff |                -.1          .1               -.3100922    .1100922
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.0000
Ho: diff = 0                                     degrees of freedom =       18

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1653         Pr(|T| > |t|) = 0.3306          Pr(T > t) = 0.8347

ttest midinit_war10, by(covinstfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      10           0           0           0           0           0
       1 |      10           0           0           0           0           0
---------+--------------------------------------------------------------------
combined |      20           0           0           0           0           0
---------+--------------------------------------------------------------------
    diff |                   0           0                       0           0
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =        .
Ho: diff = 0                                     degrees of freedom =       18

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) =      .         Pr(|T| > |t|) =      .          Pr(T > t) =      .
```

```
probit cwinit10 covinstfircfail, robust cluster(dyad_id)

Iteration 0:   log pseudolikelihood = -10.008048
Iteration 1:   log pseudolikelihood = -9.3652039
Iteration 2:   log pseudolikelihood = -9.3594746
Iteration 3:   log pseudolikelihood = -9.3594728
Iteration 4:   log pseudolikelihood = -9.3594728

Probit regression                                 Number of obs   =         20
                                                  Wald chi2(1)    =       1.17
                                                  Prob > chi2     =     0.2796
Log pseudolikelihood = -9.3594728                 Pseudo R2       =     0.0648

                                (Std. Err. adjusted for 20 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
covinstfircfail |   .7571511   .7003175     1.08   0.280    -.6154461    2.129748
       _cons |  -1.281552   .5546084    -2.31   0.021    -2.368564    -.194539
------------------------------------------------------------------------------
```

APPENDIX N: DEFINING COVERT FOREIGN-IMPOSED REGIME CHANGE

The following is an excerpt from Lindsey O'Rourke, "Secrecy and Security: U.S.-Backed Regime Change during the Cold War." (Unpublished Manuscript, 2016).

Regime is used to mean either a state's leadership or its political processes and institutional arrangements.[3] *Regime change* refers to an operation to replace another state's effective political leadership by significantly altering the composition of that state's ruling elite, its administrative apparatus, or its institutional structure.[4] This study focuses only on cases in which an intervening state intends for the target state to retain its juridical sovereignty or, in the case of secessionist movements, to obtain its juridical sovereignty. Consequently, cases of territorial conquest, colonization, or annexation are not included.[5]

Covert regime change denotes an operation to replace the leadership of another state, where the intervening state does not acknowledge its role publicly.[6] These actions include assassinating foreign leaders; sponsoring coups; manipulating electoral results; and aiding, funding, and arming dissident groups. The study avoids other covert actions not designed to replace a foreign power's leadership—counterintelligence, diplomacy, operational security, and propaganda.[7] This definition aligns with the U.S. government's classification of covert regime change, first laid out in National Security Council Directive 10/2:

> "The National Security Council... has determined that, in the interests of world peace and U.S. national security, the overt foreign activities of the U.S. Government must be supplemented by covert operations... so planned and executed that any U.S. government responsibility for them is not evident to unauthorized persons and if uncovered the U.S. Government can plausibly disclaim any responsibility for them. Specifically, such actions shall include covert activities related to propaganda; economic warfare; preventative direct actions, including sabotage, anti-sabotage, demolition, and evacuation measures; subversion against hostile states, including assistance to underground resistance

---

[3] Easton, Gunnell and Stein find that Political Scientists define "regime" as "consisting of three basic elements: institutions, operational rules of the game, and ideologies (goals, preferred rules, and preferred arrangements among political institutions)." Easton, David, John G. Gunnell, and Michael B. Stein. *Regime and Discipline: Democracy and the Development of Political Science*. (Ann Arbor, MI: University of Michigan Press, 1995) pp. 8-9.

[4] Existing studies of regime change have categorized these operations in multiple ways. For instance, Downes (2008, 2010, 2013) differentiates between 1) FIRCs that install new leaders, which he terms 'leadership FIRCs,' 2) operations that reinstall recently deposed leaders, which he terms 'Restoration FIRCs,' and 3) operations to replace the political institutions of the target state, which he terms 'Institutional FIRCs.' My definition of regime change includes all three of these categories. An alternative conceptualization by Saunders (2013) distinguishes between 'transformative' versus 'non-transformative' strategies of intervention. Similar to my definition of regime change, Saunder's transformative strategies "explicitly aim to interfere in or actively determine the target state's domestic order." (p. 23). However, she continues, "At the national level, one might imagine that leadership change would constitute transformation. As John Owen and others have pointed out, however, institutional change is distinct from changing only the leader or a small group of elites. Thus we cannot assume that regime change is necessarily transformative." (p. 23) My conceptualization of regime change differs from Saunders in this regard. I do consider operations that target only the leadership of the target state without altering the state's underlying political institutions to be a regime change.

[5] Territorial conquest, colonization, and annexation all imply direct rule by the intervening state. Although a change of government occurs in these scenarios, it is a consequence of the larger political objective to eliminate the target state or incorporate its territory and resources into the intervening state. By contrast, regime change aims to exercise indirect rule over the target state by allowing the target government to retain de jure authority over its territory. As a result, the motives and causal logics behind each type of operation are likely to vary significantly.

[6] Two types of operations can be described as "covert": 1) operations designed to remain secretive through their planning and implementation phases as well as after completion; and 2) operations designed to maintain operational security and/or enable a surprise attack, but for which the state does not try to conceal its role after completion. This project only concerns the former category.

[7] Some propaganda efforts involve calls to overthrow a foreign government. However, I exclude these operations from my dataset unless the intervening state also attempted other direct efforts at regime change. American use of anti-communist propaganda during the Cold War was so ubiquitous that including all cases would stretch the definition of "regime change" beyond what I consider reasonable limits. Although both types of operations share similar motives, they differ in their causal logics. What I classify as "regime change" includes operations that support existing efforts to overthrow a foreign government or targets that government directly. By contrast, propaganda works via a more indirect route. It aims to influence the beliefs of a foreign population so that they may then attempt to overthrow their government in the future.

movements, guerrillas, and refugee liberation groups, and support of indigenous anti-communist elements in threatened countries of the free world."[8]

Overt regime change includes operations involving the direct and publicly acknowledged use of military force to replace the political leadership of another state. States sometimes go to war for regime change, but the definition also includes more limited military actions designed to bring about regime change, such as air strikes or limited invasions targeting leadership.

A few definitional caveats before I proceed. First, my dataset excludes efforts to prop up a state's allies through publicly unacknowledged financial or military aid.[9] For instance, the U.S. reportedly provided covert support to the Saudi royal family during the Cold War to help them maintain their position of power and stability in the region.[10] Although, actions of this nature are similar to covert regime change in that they strive to influence the domestic political system of a foreign power, they differ from regime change in that they seek to maintain the status quo rather than revising it. Consequently, I believe covert actions of this nature are better classified as regime maintenance. Although I believe that the United States likely conducted many of its covert regime maintenance operations for similar motives as its covert regime changes, I have limited the scope of this project to the latter category for both theoretical and practical reasons.

There is also the question of how to differentiate covert operations to influence the result of a foreign election from regime maintenance efforts. During the Cold War, for instance, the United States sought to covertly guarantee that their preferred candidate would win a democratic election in over a dozen countries. Most of these cases do not pose a definitional challenge for this project because Washington's covert efforts were designed to upend the status quo. (Either the United States was trying to bring a new leader to power via the election or they were trying to influence the first democratic election in a country after it underwent a power transition from another system of government.) However, in five cases—Italy (twice), France, Japan, and Chile—the U.S. conducted operations to ensure that a ruling party would continue to win elections and thus remain in power. One potential objection is that these cases are better considered examples of regime maintenance and therefore should be excluded from my sample. Nevertheless, I decided to include these cases for two reasons. First, I believe that free and fair democratic elections are, by their nature, pre-scheduled opportunities for regime change. Trying to covertly ensure that a democratic leader stays in power by winning an election is different than trying to ensure that an authoritarian leader stays in power, because authoritarian leaders face no prescheduled challenges to their rule. Second, these cases provide a noteworthy exception to one of the main claims of this study—that covert regime changes are most likely to succeed against weak, geo-strategically unimportant states and that many operations spark anti-American blowback and resentment. In four of these five cases—U.S. operations in Italy, France, and Japan—the actions succeeded against powerful, important states with few negative repercussions for Washington. In the spirit of transparency, it is therefore important that I include these cases because failing to do so would bias the data in my favor.

Finally, in contrast to some studies, my dataset focuses on target countries rather than individual operations. For example, the U.S. supported three separate coups in short succession during its efforts to overthrow Guatemala in 1954. While some datasets list these coups as separate events, this study treats them as a single covert campaign. Similar to this is the fact that the U.S. often pursued more than one covert tactic simultaneously against the same state. For instance, during eight years of covert operations against Cuba in the 1960s, U.S. leaders authorized multiple assassination attempts against Fidel Castro as part of a plan known as Operation Mongoose, as well as the Bay of Pigs paramilitary invasion. This study groups them together as one eight-year case rather than multiple independent operations. I believe that analyzing covert "campaigns" rather than independent missions is preferable because states frequently launch more than one operation simultaneously, and treating these actions as independent overlooks the fact that they often have mutually reinforcing effects on one another.

[8] National Security Council Directive 10/2 (May 12, 1948). "Draft Report by the National Security Council" available as Document 274 in *FRUS 1945-1950: Emergence of the Intelligence Establishment.* (U.S. Department of State, Office of the Historian).
[9] Owen, John M., and Roger G. Herbert. "Intervention and Regime Change." In *Emerging Trends in the Social and Behavioral Sciences*. (John Wiley & Sons, Inc., 2015). See Berger et. Al (2013) for a study combining regime change and regime maintenance efforts.
[10] Berger et al. (2013).

APPENDIX O: LIST OF VARIABLES IN THE ANALYSIS, WITH DESCRIPTION AND SUMMARY STATISTICS

Table O1: Variables in the Primary Analysis

Variable Label	Description	Mean	SD	Min	Max
ccode1	Country code, state A	-	-	-	-
ccode2	Country code, state B	-	-	-	-
year	Year	-	-	-	-
abbrev1	Country abbreviation, state A	-	-	-	-
abbrev2	Country abbreviation, state B	-	-	-	-
dyad_id	Dyad identification number	-	-	-	-
cwinit	MID initiation by state A	.0118	.1078	0	1
ovfirc10	Overt FIRC, up to 10 years after FIRC occurs	.0083	.0908	0	1
ovleaderfirc10	Overt leadership FIRC, 10 yrs	.0032	.0562	0	1
ovinstfirc10	Overt institutional FIRC, 10 yrs	.0016	.0397	0	1
ovrestfirc10	Overt restoration FIRC, 10 yrs	.0037	.0605	0	1
covertfirc	Ongoing covert FIRC	.0032	.0563	0	1
covfirc10	Covert FIRC, up to 10 yrs after end of operation	.0059	.0766	0	1
covleaderfirc10	Covert leadership FIRC, 10 yrs	.0047	.0686	0	1
covinstfirc10	Covert institutional FIRC, 10 yrs	.0010	.0311	0	1
covfircsucc10	Successful covert FIRC, 10 yrs	.0026	.0509	0	1
covfircfail10	Failed covert FIRC, 10 yrs	.0034	.0584	0	1
covleadfircsucc10	Successful covert leadership FIRC, 10 yrs	.0020	.0444	0	1
covinstfircsucc10	Successful covert institutional FIRC, 10 yrs	.0006	.0235	0	1
covleadfircfail10	Failed covert leadership FIRC, 10 yrs	.0028	.0525	0	1
covinstfircfail10	Failed covert institutional FIRC, 10 yrs	.0005	.0223	0	1
cap_1	CINC score, state A	.0426	.0648	0	.3839
cap_2	CINC score, state B	.0426	.0648	0	.3839
capshare_1	State A's share of dyadic material capabilities	.5	.4159	0	1
s_wt_glo	Weighted global S score	.5212	.3419	-.6077	1
s_ld_1	S score with system leader, state A	.5562	.2635	-.1877	1
s_ld_2	S score with system leader, state B	.5562	.2635	-.1877	1
lndistance	Log of distance between capital cities	5.4272	3.9195	0	9.3918
democracy1	Democracy, state A	.3950	.4889	0	1
democracy2	Democracy, state B	.3950	.4889	0	1
democracy1_2	Both states democratic	.1943	.3956	0	1
peaceyrs	Years since last MID in dyad	32.1252	32.0083	0	184
_spline1	Cubic spline 1	-35626.61	67382.33	-506880	0
_spline2	Cubic spline 2	-75850.22	158496.1	-1233144	0
_spline3	Cubic spline 3	-102542.8	243443.5	-2020365	0

Table O2: Variables for Robustness Tests

ovfirc5	Overt FIRC, 5 years	.0044	.0660	0	1
ovleaderfirc5	Overt leadership FIRC, 5 yrs	.0017	.0409	0	1
ovinstfirc5	Overt institutional FIRC, 5 yrs	.0008	.0283	0	1
ovrestfirc5	Overt restoration FIRC, 5 yrs	.0019	.0440	0	1
ovfircall	Overt FIRC, permanent effect	.0455	.2083	0	1
ovleaderfircall	Overt leadership FIRC, permanent effect	.0207	.1422	0	1
ovinstfircall	Overt institutional FIRC, permanent effect	.0071	.0840	0	1
ovrestfircall	Overt restoration FIRC, permanent effect	.0198	.1391	0	1
covfirc5	Covert FIRC, 5 yrs	.0031	.0555	0	1
covleaderfirc5	Covert leadership FIRC, 5 yrs	.0025	.0498	0	1
covinstfirc5	Covert institutional FIRC, 5 yrs	.0005	.0223	0	1
covfircsucc5	Successful covert FIRC, 5 yrs	.0014	.0371	0	1
covfircfail5	Failed covert FIRC, 5 yrs	.0018	.0421	0	1
covleadfircsucc5	Successful covert leadership FIRC, 5 yrs	.0010	.0323	0	1
covinstfircsucc5	Successful covert institutional FIRC, 5 yrs	.0003	.0166	0	1
covleadfircfail5	Failed covert leadership FIRC, 5 yrs	.0014	.0379	0	1
covinstfircfail5	Failed covert institutional FIRC, 5 yrs	.0002	.0158	0	1
covfircall	Covert FIRC, permanent effect	.0157	.1242	0	1
covleaderfircall	Covert leadership FIRC, permanent effect	.0141	.1181	0	1
covinstfircall	Covert institutional FIRC, permanent effect	.0017	.0406	0	1
covfircsuccall	Successful covert FIRC, permanent effect	.0066	.0808	0	1
covfircfailall	Failed covert FIRC, permanent effect	.0097	.0980	0	1
covleadfircsuccall	Successful covert leadership FIRC, permanent effect	.0059	.0764	0	1
covinstfircsuccall	Successful covert institutional FIRC, permanent effect	.0008	.0290	0	1
covleadfircfailall	Failed covert leadership FIRC, permanent effect	.0086	.0922	0	1
covinstfircfailall	Failed covert institutional FIRC, permanent effect	.0009	.0303	0	1
ovdmzfirc10	Overt democratization FIRC, 10 yrs	.0014	.0370	0	1
ovdmzfirc5	Overt democratization FIRC, 5 yrs	.0007	.0265	0	1
ovleaderfirc10dmz	Overt leadership FIRC, autocratic institutional FIRCs counted as leadership FIRCs, 10 yrs	.0035	.0591	0	1
ovleaderfirc5dmz	Overt leadership FIRC, autocratic institutional FIRCs counted as leadership FIRCs, 5 yrs	.0018	.0429	0	1
allydum	Formal alliance between states A and B	.1741	.3792	0	1
midinit_fatal	MID of hostlev==4 or 5 initiated by state A	.0085	.0916	0	1
midinit_war	MID of hostlev==5 initiated by state A	.0008	.0290	0	1
ag_source_ik	Spatial contagion variable	.0078	.0016	.0054	.0104
ag_source_ki	Spatial contagion variable	.0078	.0016	.0054	.0104
ag_source_im	Spatial contagion variable	.0071	.0026	.0035	.0113
ag_source_mi	Spatial contagion variable	.0071	.0026	.0035	.0113
ag_target_jm	Spatial contagion variable	.0070	.0024	.0035	.0108
ag_target_mj	Spatial contagion variable	.0070	.0024	.0035	.0108

ag_target_jk	Spatial contagion variable	.0080	.0018	.0054	.0110
ag_target_kj	Spatial contagion variable	.0080	.0018	.0054	.0110

APPENDIX P: CORRELATION MATRIX OF KEY INDEPENDENT VARIABLES

```
corr ovleaderfirc10 ovinstfirc10 ovrestfirc10 covleaderfirc10 covinstfirc10 cap_1 cap_2 capshare_1 s_wt_glo s_ld_1 s_ld_2 lndistance
democracy1 democracy2 democracy1_2 peaceyrs
(obs=180498)
```

	ovlea~10	ovins~10	ovres~10	covlea..	covins..	cap_1	cap_2	capsha~1	s_wt_glo	s_ld_1	s_ld_2	lndist~e	democr~1
ovleaderf~10	1.0000												
ovinstfirc10	0.0424	1.0000											
ovrestfirc10	0.0031	-0.0024	1.0000										
covleader~10	-0.0039	0.0339	0.0012	1.0000									
covinst~rc10	-0.0018	-0.0012	0.0216	0.0186	1.0000								
cap_1	0.0037	0.0346	0.0257	0.0599	0.0166	1.0000							
cap_2	0.0042	0.0341	0.0255	0.0599	0.0145	-0.2409	1.0000						
capshare_1	-0.0007	0.0002	0.0001	0.0000	0.0010	0.6165	-0.6165	1.0000					
s_wt_glo	0.0132	0.0101	0.0131	-0.0894	-0.0115	-0.2813	-0.2813	-0.0000	1.0000				
s_ld_1	0.0141	-0.0103	0.0096	0.0284	0.0305	0.2331	-0.0119	0.1394	-0.0326	1.0000			
s_ld_2	0.0144	-0.0103	0.0097	0.0284	0.0285	-0.0119	0.2331	-0.1394	-0.0326	0.4391	1.0000		
lndistance	-0.0385	-0.0086	-0.0325	0.0459	0.0213	0.2340	0.2355	-0.0007	-0.5086	0.1281	0.1275	1.0000	
democracy1	-0.0105	0.0093	0.0150	0.0252	0.0284	0.0649	-0.1198	0.1770	-0.0833	0.2711	-0.0613	0.0909	1.0000
democracy2	-0.0097	0.0090	0.0150	0.0252	0.0269	-0.1198	0.0649	-0.1770	-0.0833	-0.0613	0.2711	0.0901	0.1599
democracy1_2	-0.0152	0.0157	0.0364	-0.0081	0.0364	-0.0554	-0.0554	-0.0000	0.0699	0.1278	0.1278	-0.0149	0.6076
peaceyrs	-0.0180	-0.0243	0.0111	0.0027	0.0204	-0.0277	0.0104	-0.0304	-0.0483	0.1208	0.1270	0.0582	0.1512

	democ~y2	democ~_2	peaceyrs
democracy2	1.0000		
democracy1_2	0.6076	1.0000	
peaceyrs	0.1673	0.1987	1.0000

APPENDIX Q: LISTS OF OVERT AND COVERT FIRCS

Table Q1: Cases of Overt Foreign-Imposed Regime Change (FIRC), 1816-2000

Target	Intervener	Year	Type	Leader(s) Removed
Afghanistan*	UK	1839	L	Dost Mohammed
Afghanistan*	UK	1879	L	Sher Ali
Afghanistan*	UK	1879	L	Yakub Khan
Afghanistan	Soviet Union	1979	L	Hafizullah Amin
Afghanistan	Soviet Union	1986	L	Babrak Karmal
Albania	Italy	1916	L	Esat Pashe Toptani
Albania#	Italy	1939	L	King Zog
Argentina	Brazil	1852	L	Juan Manuel de Rosas
Baden	Prussia	1849	R	Lorenz Peter Brentano
Belgium	Germany	1914	L	Charles, Baron de Broqueville
Belgium	UK, France, U.S.	1918	R	Von Faulkenhausen
Belgium#	Germany	1940	L	Hubert Pierlot
Belgium	UK, U.S.	1944	R	Alexander von Falkenhausen
Bulgaria	Soviet Union	1944	I	Kyril, Prince of Preslav
Cambodia	Vietnam	1979	L	Pol Pot
Central African Republic	France	1979	L	Jean-Bedel Bokassa
China	Japan	1928	L	Chang Tso-lin
Comoros	France	1989	L	Bob Denard
Comoros	France	1995	R	Bob Denard
Congo, Republic of	Angola	1997	R	Pascal Lissouba
Congo/Zaire	Belgium	1960	L	Patrice Lumumba
Congo/Zaire	Rwanda, Uganda	1997	L	Joseph Mobutu
Costa Rica	U.S.	1919	L	Federico Tinoco Granados Juan Bautista Quiros
Cyprus	Greece	1974	L	Archbishop Makarios III
Cyprus	Turkey	1974	R	Nikos Sampson
Czechoslovakia	Soviet Union	1948	I	Edvard Beneš
Czechoslovakia	Soviet Union	1968	R	Alexander Dubček Ludvik Svoboda
Denmark#	Germany	1943[1]	L	Erik Scavenius
Denmark	UK, U.S.	1945	R	Werner Best
Dominican Republic	U.S.	1912	L	Eladio Victoria
Dominican Republic	U.S.	1914	I	José Bordas Valdez
Dominican Republic	U.S.	1916	I	Francisco Henriquez
El Salvador*	Guatemala	1863	L	Gerardo Barrios
El Salvador*	Honduras	1871	L	Francisco Dueñas
El Salvador	Guatemala	1876	L	Andres del Valle
Estonia#	Soviet Union	1940	I	Konstantin Pats
Ethiopia#	Italy	1936	L	Haile Selassie
Ethiopia	UK	1941	R	King of Italy
France	Prussia	1870	L	Napoleon III
France	UK, U.S.	1944	R	Pierre Laval
Gabon	France	1964	R	Jean-Hilaire Aubaume
Germany#	UK, U.S.	1955+	I	Karl Doenitz
Germany#	Soviet Union	1954+	I	Karl Doenitz
Greece	UK/France	1917	L	King Constantine I
Greece#	Germany	1941	L	Emmanouil Tsouderos
Grenada	U.S.	1983	I	Hudson Austin
Haiti#	U.S.	1915	L	Revolutionary Committee of Safety
Haiti	U.S.	1994	R	Raul Cedras
Honduras*	Guatemala	1855	L	Trinidad Cabañas
Honduras*	Guatemala, Nicaragua	1863	L	José Francisco Montes
Honduras*	El Salvador, Guatemala	1872	L	José Maria Medina
Honduras*	El Salvador, Guatemala	1874	L	Celeo Arias

[1] Coded as 1940 in the dataset because COW codes Denmark as exiting the international system in that year.

Honduras*	Guatemala	1876	L	Ponciano Leiva
Honduras*	Nicaragua	1894	L	Domingo Vasquez
Honduras	Nicaragua	1907	L	Manuel Bonilla
Honduras	U.S.	1911	L	Miguel Davila
Hungary	Romania	1919	L	Bela Kun
Hungary	Germany	1944	L	Miklós Horthy
Hungary	Soviet Union	1945	I	Ferenc Szalasi
Hungary	Soviet Union	1956	R	Imre Nagy
Indonesia*	Netherlands	1948	L	Sukarno
Iran	UK, Soviet Union	1941	L	Reza Khan
Iraq	UK	1941	R	Rashid Ali
Japan#	U.S.	1945	I	Suzuki Kantaro
Korea#	Japan	1907[2]	L	Yi Hyong
Latvia	Germany	1919	L	Karlis Ulmanis
Latvia#	Soviet Union	1940	I	Karlis Ulmanis
Lesotho	South Africa	1994	R	King Letsie III
Lithuania#	Soviet Union	1940	I	Antanas Smetona Antanas Merkys
Luxembourg#	Germany	1940	L	Pierre Dupong
Luxembourg	UK, U.S.	1944	R	Gustav Simon
Mexico	France	1863	L	Benito Juarez
Mexico	U.S.	1914	L	Victoriano Huerta
Modena	Austria	1831	R	Pellegrino Nobili
Modena	Piedmont, France	1859	L	Francesco V
Mongolia	Soviet Union	1925	L	Elbek-Dorzhi Rinchino
Mongolia	Soviet Union	1984	L	Yumzhagiin Tsedenbal
Montenegro*	Austria	1916	L	Nikola I
The Netherlands#	Germany	1940	L	Dirk Jan De Geer
The Netherlands	UK, U.S.	1945	R	Arthur Seyss-Inquart
Nicaragua	U.S.	1909	L	José Santos Zelaya
Nicaragua	U.S.	1910	L	José Madriz
Nicaragua	U.S.	1926	I	Emiliano Chamorro
Norway#	Germany	1940	L	Johan Nygaardsvold
Norway	UK, U.S.	1945	R	Vidkun Quisling
Panama	U.S.	1990	I	Manuel Noriega
Paraguay	Brazil	1869	L	Francisco Solano Lopez
Parma*	Austria	1831	R	Conte Filippo Linati
Portugal	France, Spain, UK	1834	R	Miguel I
Peru*	Chile	1881	L	Nicolas Pierola
Peru*	Chile	1881	L	Francisco Garcia Calderon
Peru*	Chile	1882	L	Lizardo Montero
Roman Republic	France, Austria, Sicily	1849	R	Triumvirate
Romania*	Soviet Union	1945	I	King Michael
Saxony	Prussia	1849	R	Gustav Friedrich Held
Serbia*	Austria	1915	L	King Alexander
Sierra Leone	Guinea[3]	1998	R	Jonny Koroma
Spain	France	1823	R	Provisional Regency
Tuscany	Austria	1849	R	Francesco Domenico Guerrazzi
Two Sicilies	Austria	1821	R	Revolutionaries
Uganda	Tanzania	1979	L	Idi Amin
Yugoslavia#	Germany	1941	L	King Peter II

NOTE: The dataset is coded on a country-year basis, so if an intervener removes multiple leaders in the same year, this will only appear as a single FIRC in the dataset.

* These cases are omitted from the dataset, usually because one of the datasets in EUGene does not code the state in question as being a member of the international system in the year FIRC occurred.

+ The German regime was overthrown in 1945, but in the dataset these cases are coded as occurring in the years that the Federal Republic of Germany and the German Democratic Republic reentered the international system—1955 and 1954, respectively.

COW codes these states as exiting the international system in the year FIRC occurred.

[2] Coded as 1905 in the dataset because COW codes Korea as exiting the international system in that year.

[3] Nigeria and Ghana are dropped as interveners because they are not territorially contiguous to Sierra Leone.

Table Q2: Cases of Covert Foreign-Imposed Regime Change by the United States during the Cold War

Years	Country	Type	Regime Objective Achieved?
1979-1989	Afghanistan	Leadership	Yes
1949-1954	Albania	Leadership	No
1975-1976	Angola	Leadership	No
1986-1988	Angola	Leadership	No
1963-1965	Bolivia	Leadership	Yes
1971	Bolivia	Leadership	Yes
1964	Brazil	Leadership	Yes
1949-1954	Bulgaria	Leadership	No
1982-1989	Cambodia	Leadership	No
1981-1982	Chad	Leadership	Yes
1962-1973	Chile	Leadership	Yes
1984-1989	Chile	Institutional	Yes
1949-1968	China	Leadership	No
1960	Congo	Leadership	Yes
1960-1961	Cuba	Leadership	No
1962-1968	Cuba	Leadership	No
1949-1954	Czechoslovakia	Leadership	No
1960-1962	Dominican Republic	Leadership	Yes
1965-1968	Dominican Republic	Institutional	Yes
1949-1954	East Germany*	Leadership	No
1981-1983	Ethiopia	Leadership	No
1947-1952	France	Leadership	Yes
1979	Grenada	Not coded	No
1952-1954	Guatemala	Leadership	Yes
1966-1971	Guyana	Not coded	Yes
1963	Haiti	Leadership	No
1966-1969	Haiti	Leadership	No
1986-1988	Haiti	Institutional	No
1949-1956	Hungary	Leadership	No
1954-1958	Indonesia	Leadership	No
1952-1953	Iran	Leadership	Yes
1959-1963	Iraq	Leadership	Yes
1972-1975	Iraq	Leadership	No
1947-1952	Italy	Leadership	Yes
1965-1968	Italy	Leadership	Yes
1952-1968	Japan	Leadership	Yes
1961-1973	Laos	Leadership	No
1957-1958	Lebanon	Leadership	Yes
1983-1989	Liberia	Institutional	No
1982-1989	Libya	Leadership	No
1979-1980	Nicaragua#	Institutional	No
1979-1989	Nicaragua	Institutional	Yes
1950-1955	North Korea	Leadership	No
1961-1964	North Vietnam	Leadership	No
1987-1989	Panama	Leadership	No
1986-1989	Philippines	Institutional	Yes
1949-1954	Poland	Leadership	No
1981-1989	Poland	Institutional	Yes
1949-1954	Romania	Leadership	No
1964-1967	Somalia	Leadership	No
1963	South Vietnam	Leadership	Yes
1967	South Vietnam	Leadership	Yes

1979-1983	South Yemen	Leadership	No
1949-1954	Soviet Union+	Leadership	No
1982-1985	Suriname	Institutional	No
1955-1957	Syria	Leadership	No
1965	Thailand	Institutional	No

* East Germany is not coded as an independent state until 1954.
+ Multiple covert operations were directed at different Soviet republics during this period, including the Belorussian, Estonian, Latvian, Lithuanian, Russian, and Ukrainian SSRs.
# Nicaragua is coded as two cases because the operation changed type—from hegemonic to offensive—in 1980. The first is coded as a failure, ending in 1980, whereas the second is coded as a success, ending in 1989. On these types of covert FIRC, see Lindsey O'Rourke, "Secrecy and Security: U.S.-Backed Regime Change during the Cold War" (Unpublished Manuscript, 2016).

APPENDIX R. INSTANCES OF FIRC FOLLOWED BY MIDS

Table R1. MIDs between Interveners and Targets within Ten Years of Overt Leadership FIRC, 1816-2000

Perpetrator of FIRC	Target of FIRC	Year of MID
United States (i)	Mexico	1915
United States (i)	Mexico	1916
United States	Mexico (i)	1918
United States (i)	Mexico	1919
United States (i)	Nicaragua	1910
Guatemala (i)	El Salvador	1885
United Kingdom (i)	Greece	1922
United Kingdom (i)	Iran	1946
United Kingdom (i)	Iran	1951
France (i)	Greece	1922
Germany (i)	France (i)	1871
Italy (i)	Albania	1918
Italy (i)	Albania	1920
Italy (i)	Albania	1952
Romania (i)	Hungary	1922
Russia (i)	Iran	1945
Russia	Iran (i)	1951
Russia (i)	Afghanistan	1993
Russia (i)	Afghanistan	1994
Rwanda	DRC (i)	1998
Japan (i)	China	1931
Japan (i)	China	1933
Japan	China (i)	1934
Japan (i)	China	1935
Japan	China (i)	1936
Japan (i)	China	1937

Countries followed by (i) indicate that the country initiated the dispute (in 1871, Germany and France are each coded as initiating a MID against the other).

Table R2. MIDs between Interveners and Targets within Ten Years of Overt Institutional FIRC, 1816-2000

Intervener	Target	Year of MID
United States (i)	Dominican Republic	1914
United States (i)	Dominican Republic	1916

Countries followed by (i) indicate that the country initiated the dispute.

Table R3. MIDs between Interveners and Targets within Ten Years of Overt Restoration FIRC, 1816-2000

Intervener	Target	Year of MID
Spain (i)	Portugal	1840

Countries followed by (i) indicate that the country initiated the dispute.

Table R4. MIDs between the United States and Targets within Ten Years of Covert Leadership FIRC

Target of FIRC	Year of MID
Cuba (t)	1962
Cuba *	1971
Cuba (i)	1974
Cuba (t)	1975
Cuba (t)	1976
Cuba (i)	1977
German Democratic Republic (t)	1958
Czechoslovakia (t)	1957
Russia (i)	1958
Russia (t)	1960
Russia *	1961
Russia (t)	1962
Russia (i)	1963
Russia *	1964
Libya (t)	1996
Afghanistan (t)	1998
China (t)	1969
China (t)	1971
China (t)	1972
DPRK (i)	1958
DPRK (i)	1962
DPRK (i)	1963
DPRK (t)	1964
DPRK (i)	1965
Guatemala (i)	1958
Albania (i)	1958

Countries followed by (i) indicate that the country initiated the dispute.
Countries followed by (t) indicate that the country was targeted in the dispute.
Cases marked with an asterisk (*) indicate that both countries initiated a MID against the other in the same year.

Table R5. MIDs between the United States and Targets within Ten Years of Covert Institutional FIRC

Target of FIRC	Year of MID
Haiti (t)	1993
Liberia (t)	1998

Countries followed by (i) indicate that the country initiated the dispute.
Countries followed by (t) indicate that the country was targeted in the dispute.