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Supplementary Materials for Chapter 5, Part II: Matching Results

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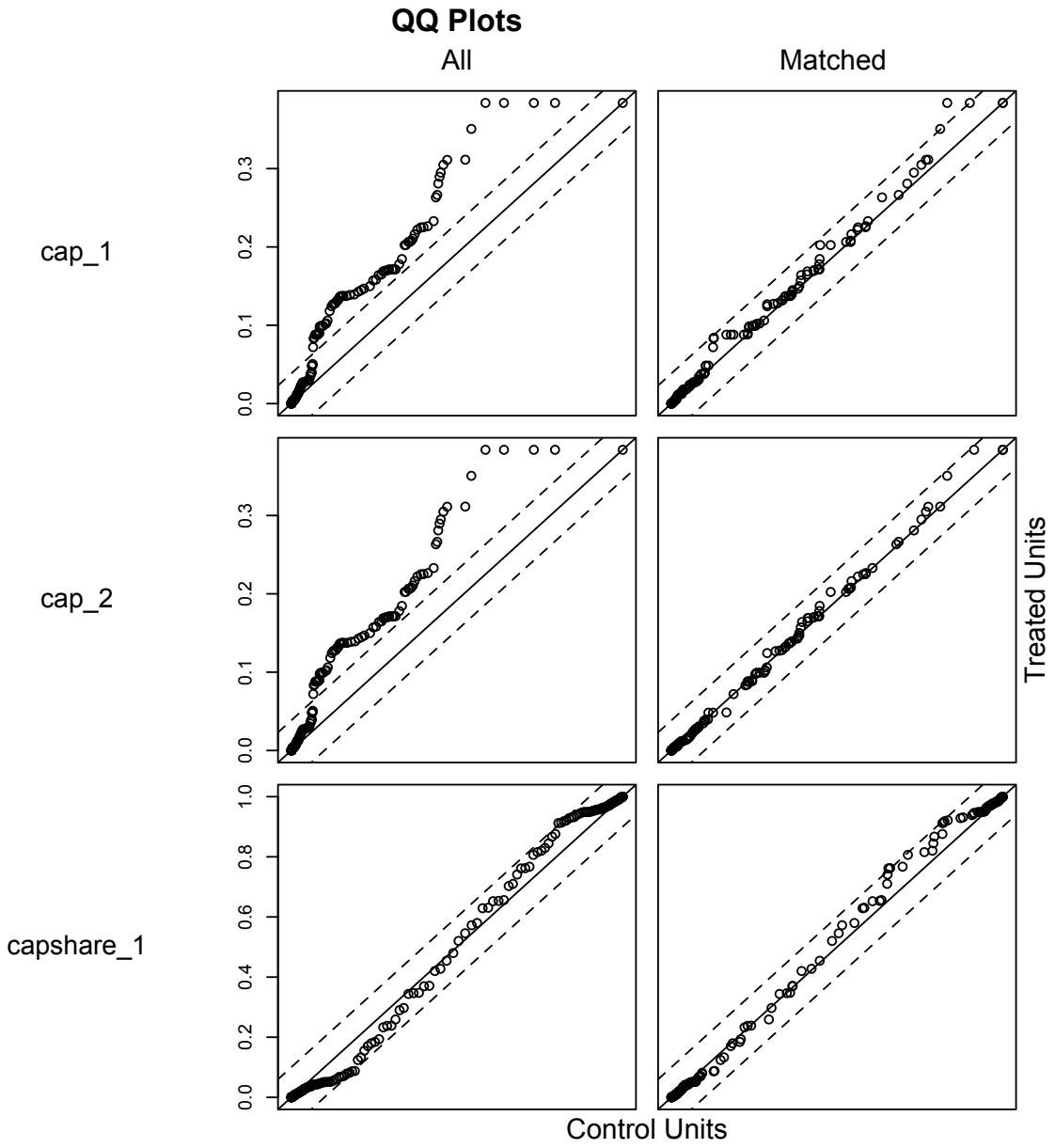
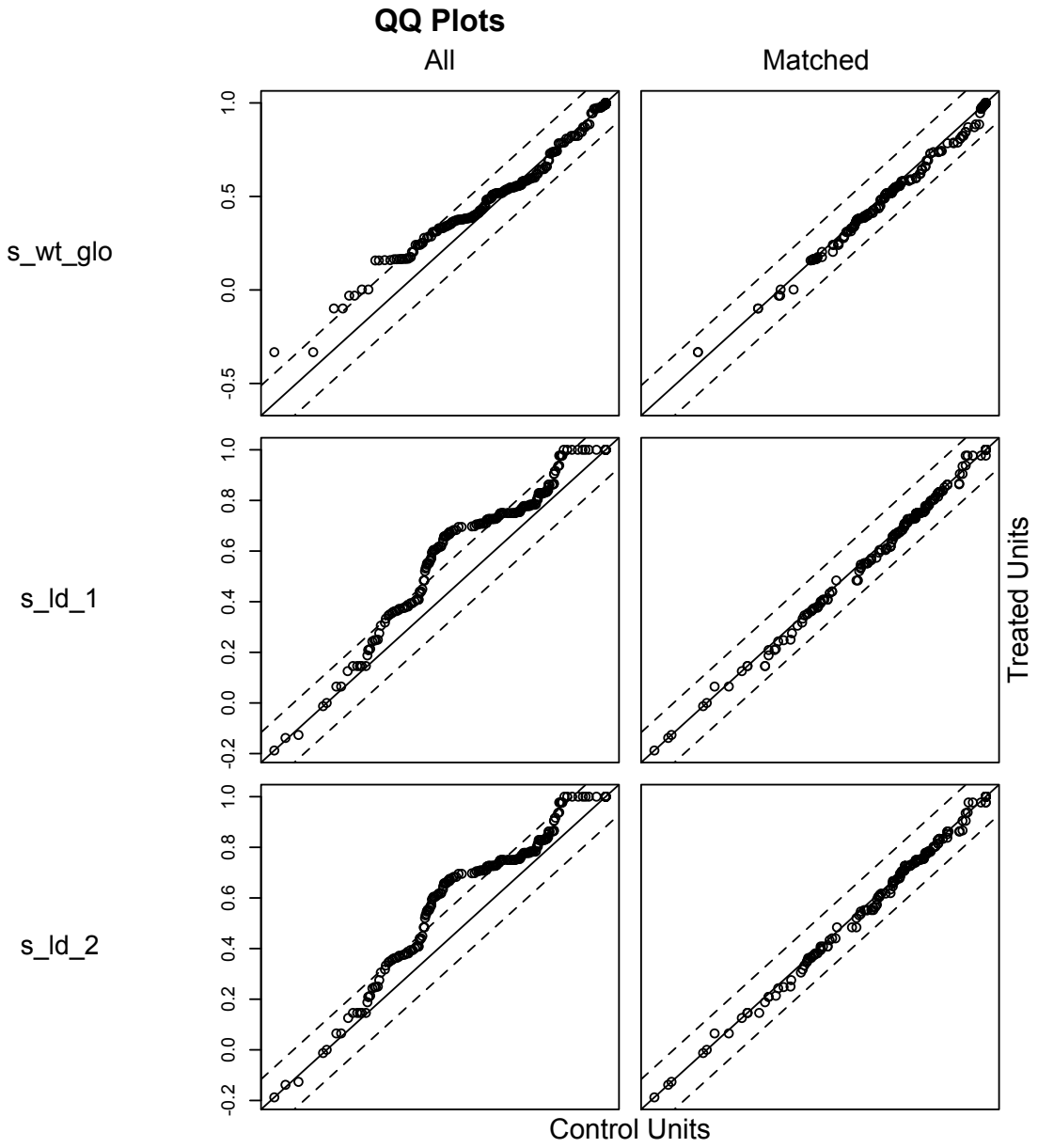
I. FOREIGN-IMPOSED REGIME CHANGE AND INITIATION OF MILITARIZED INTERSTATE DISPUTES (MIDS, GENETIC AND NEAREST NEIGHBOR MATCHING): FIGURE 5.6

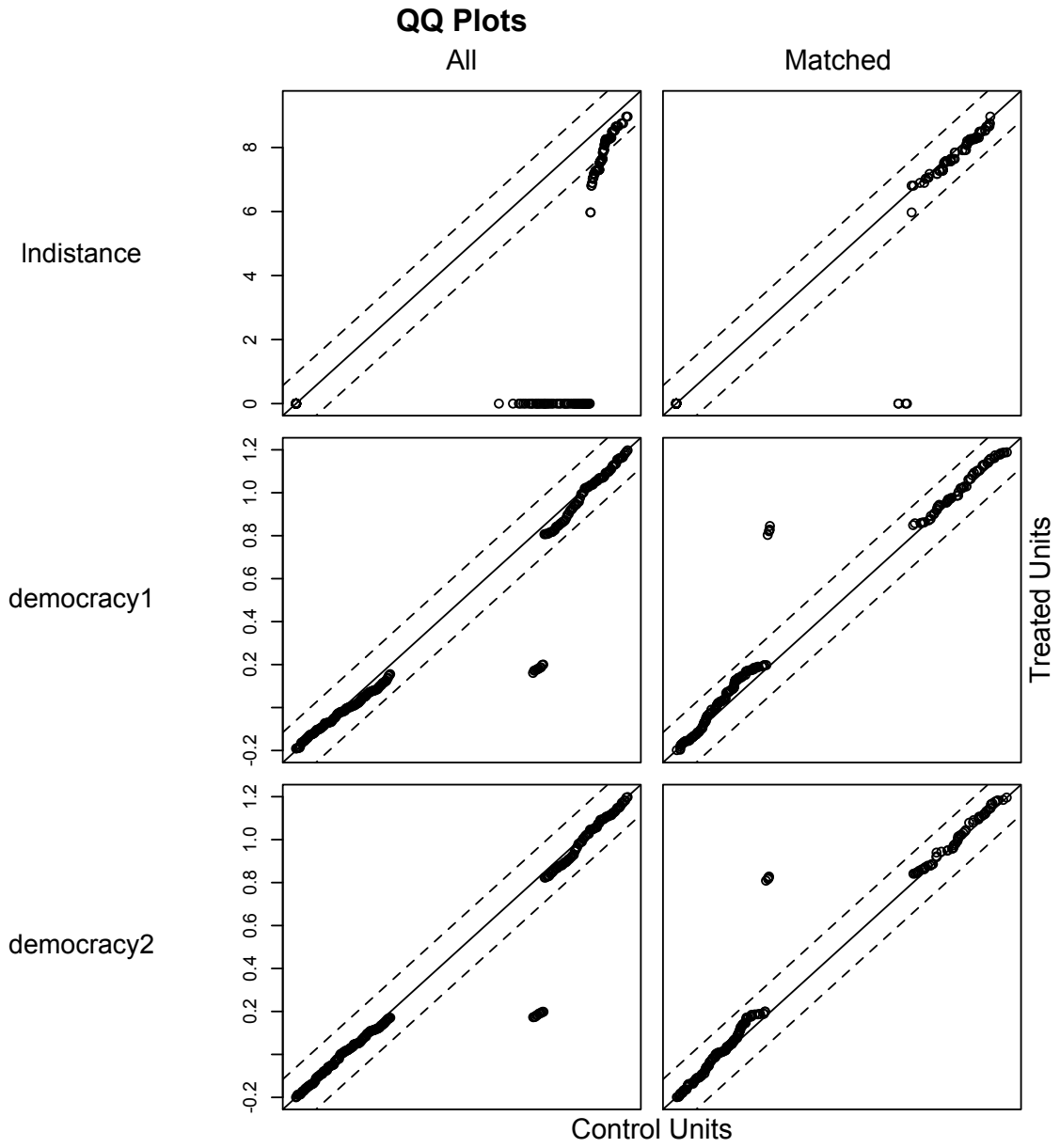
DV = INITIATION OF A MILITARIZED INTERSTATE DISPUTE (TEN YEAR TREATMENT EFFECT)

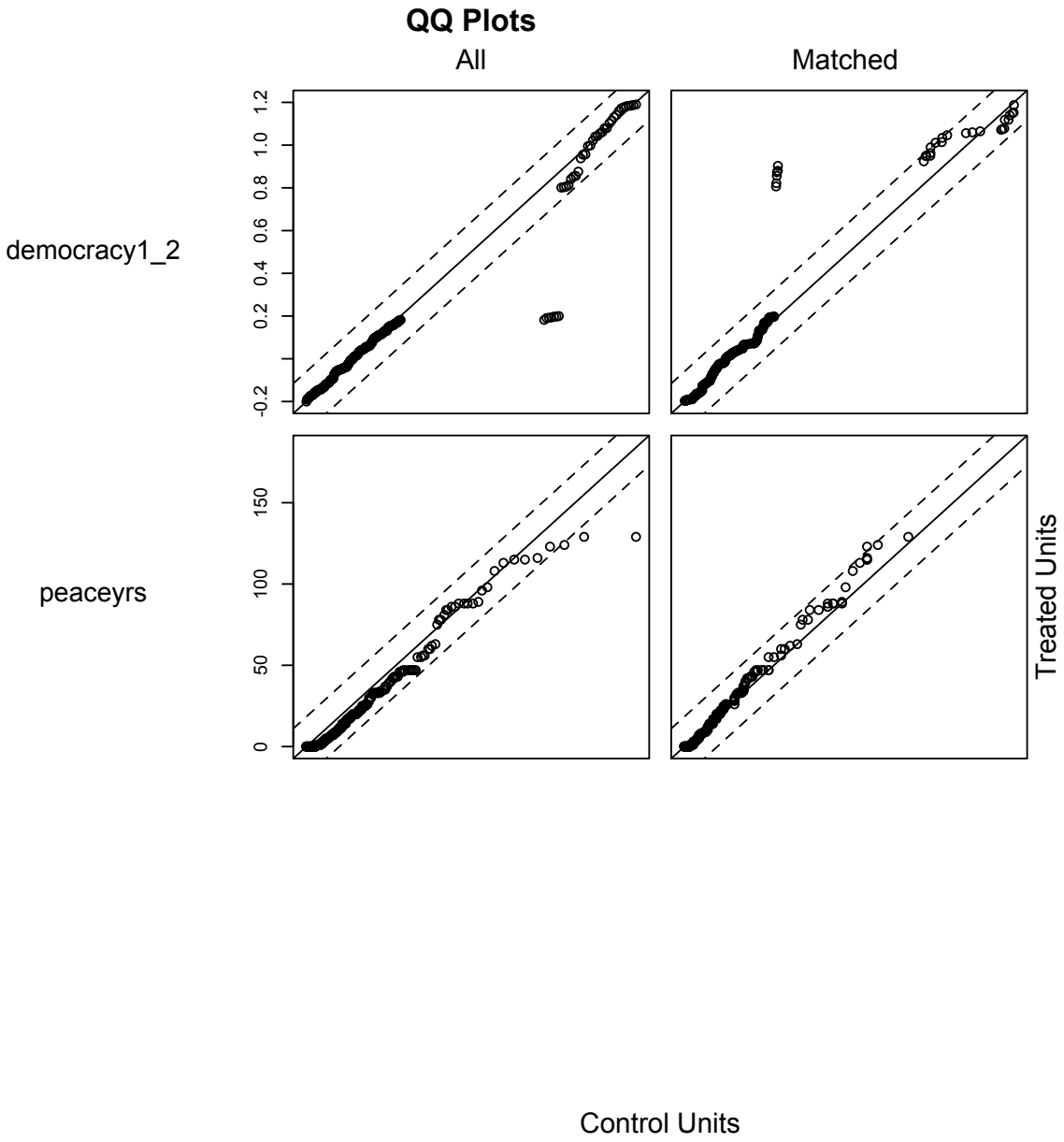
ALL SUCCESSFUL FIRC, GENETIC MATCHING

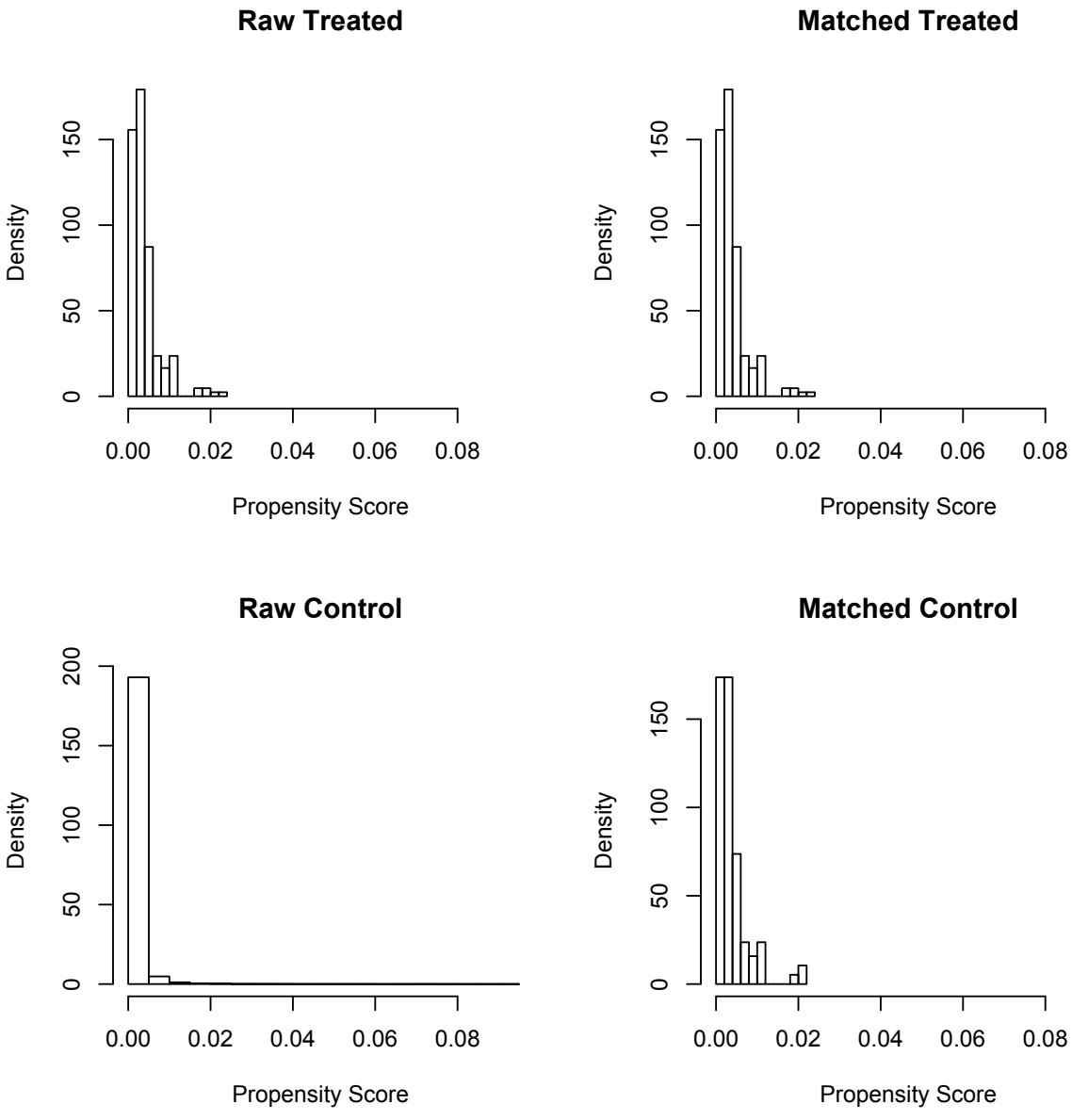
```
summary(fircmid.out1)

Call:
matchit(formula = abdfirc ~ cap_1 + cap_2 + capshare_1 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs, data = fircmid, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0040        0.0013     0.0027    0.0027  0.0026   0.0030  0.0711
cap_1               0.0704        0.0408     0.0626    0.0296  0.0047   0.0288  0.1589
cap_2               0.0704        0.0409     0.0627    0.0295  0.0046   0.0287  0.1589
capshare_1          0.5000        0.4993     0.4170    0.0007  0.0116   0.0259  0.1063
s_wt_glo            0.5554        0.5146     0.3434    0.0407  0.0338   0.0565  0.2754
s_ld_1              0.6518        0.5460     0.2626    0.1059  0.0999   0.1068  0.2371
s_ld_2              0.6518        0.5462     0.2626    0.1057  0.0993   0.1066  0.2371
lndistance          3.2359        5.6208     3.8712   -2.3849  0.7900   2.3839  8.3200
democracy1          0.3443        0.3893     0.4876   -0.0449  0.0000   0.0472  1.0000
democracy2          0.3443        0.3898     0.4877   -0.0454  0.0000   0.0472  1.0000
democracy1_2        0.1509        0.1848     0.3882   -0.0339  0.0000   0.0330  1.0000
peaceyrs           25.7358       31.3751    31.3148   -5.6392  7.0000   6.3396 55.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0040        0.0040     0.0038    0.0000  0.0002   0.0002  0.0073
cap_1               0.0704        0.0707     0.0971   -0.0003  0.0004   0.0039  0.0644
cap_2               0.0704        0.0699     0.0967    0.0005  0.0004   0.0020  0.0332
capshare_1          0.5000        0.5004     0.4350   -0.0004  0.0047   0.0140  0.1067
s_wt_glo            0.5554        0.5556     0.2899   -0.0002  0.0168   0.0217  0.0823
s_ld_1              0.6518        0.6524     0.2551   -0.0005  0.0101   0.0128  0.0633
s_ld_2              0.6518        0.6543     0.2535   -0.0025  0.0089   0.0115  0.0524
lndistance          3.2359        3.3143     3.9292   -0.0784  0.0000   0.2002  6.5352
democracy1          0.3443        0.3443     0.4764    0.0000  0.0000   0.0263  1.0000
democracy2          0.3443        0.3443     0.4764    0.0000  0.0000   0.0316  1.0000
democracy1_2        0.1509        0.1509     0.3589    0.0000  0.0000   0.0316  1.0000
peaceyrs           25.7358       25.3726    27.6754    0.3632  2.0000   2.9421 21.0000

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean eQQ Max
distance        99.5127  94.1595  92.4072 89.7871
cap_1           98.9828  91.7179  86.3960 59.5026
cap_2           98.2939  92.3801  92.8908 79.0972
capshare_1      37.5668  59.5806  45.9184 -0.3812
s_wt_glo        99.4500  50.3020  61.6752 70.1202
s_ld_1          99.5146  89.8815  88.0353 73.3082
s_ld_2          97.6743  91.0411  89.1723 77.9128
lndistance      96.7116 100.0000  91.6008 21.4511
democracy1     100.0000   0.0000  44.2105  0.0000
democracy2     100.0000   0.0000  33.0526  0.0000
democracy1_2   100.0000   0.0000   4.3609  0.0000
peaceyrs        93.5593  71.4286  53.5918 61.8182

Sample sizes:
          Control Treated
All        165009     212
Matched       190     212
Unmatched  164819       0
Discarded       0       0
```


QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0


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

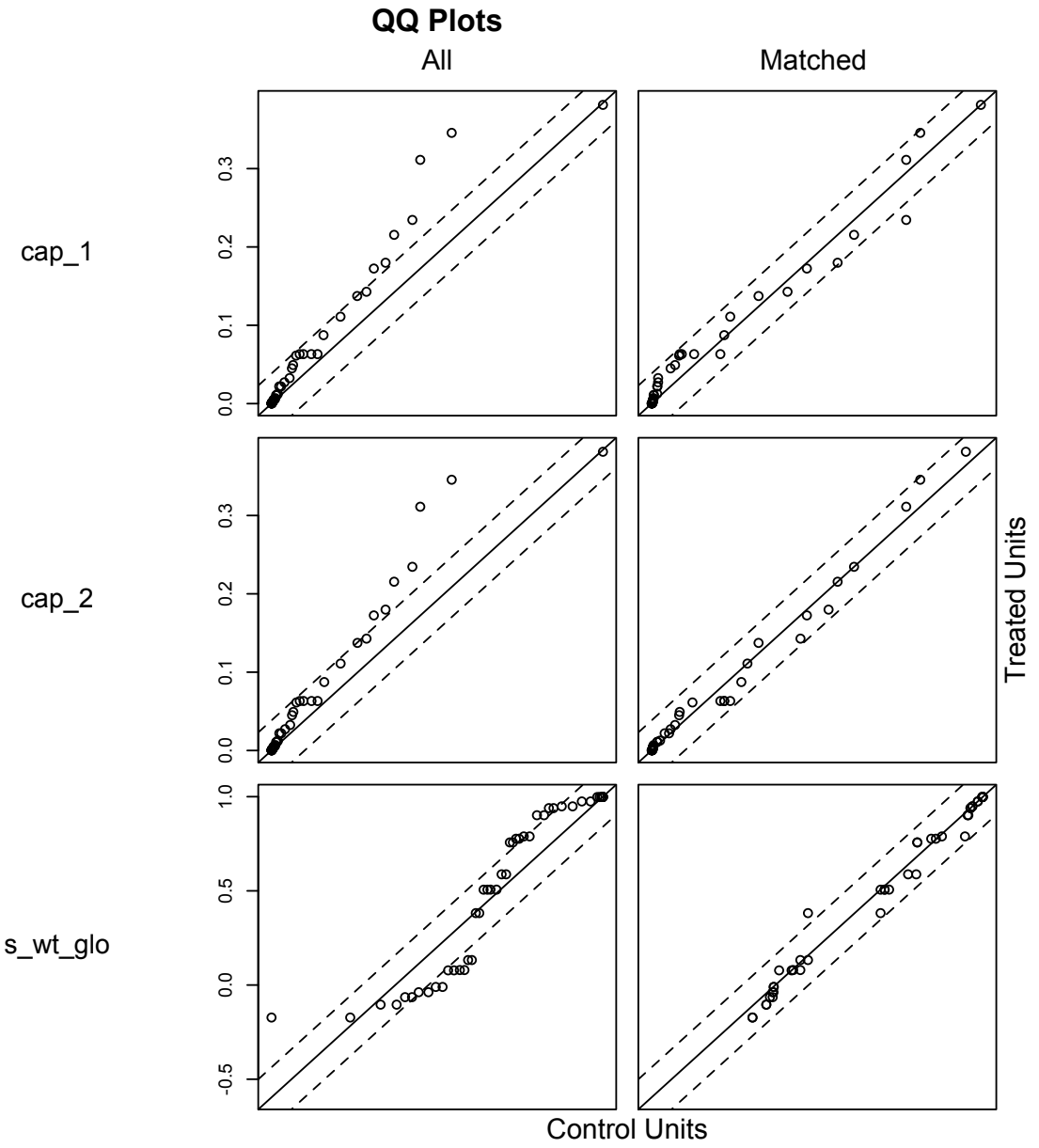

QQ Plots
All
Matched
democracy1_2
peaceyrs
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
Treated Units
Control Units

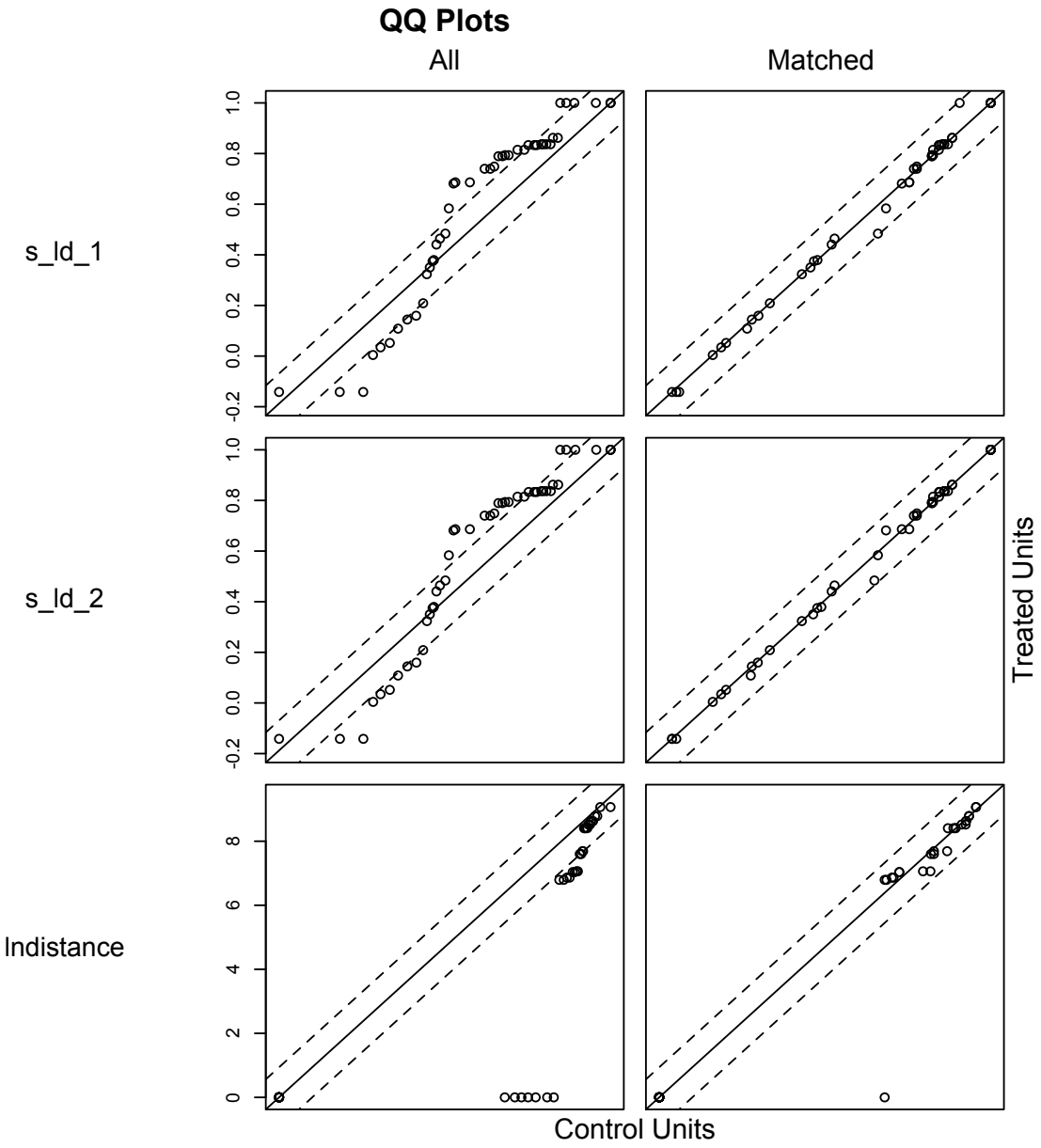

Raw Treated
Density
0
50
100
150
0.00
0.02
0.04
0.06
0.08
Propensity Score
Matched Treated
Density
0
50
100
150
0.00
0.02
0.04
0.06
0.08
Propensity Score
Raw Control
Density
0
50
100
150
200
0.00
0.02
0.04
0.06
0.08
Propensity Score
Matched Control
Density
0
50
100
150
0.00
0.02
0.04
0.06
0.08
Propensity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

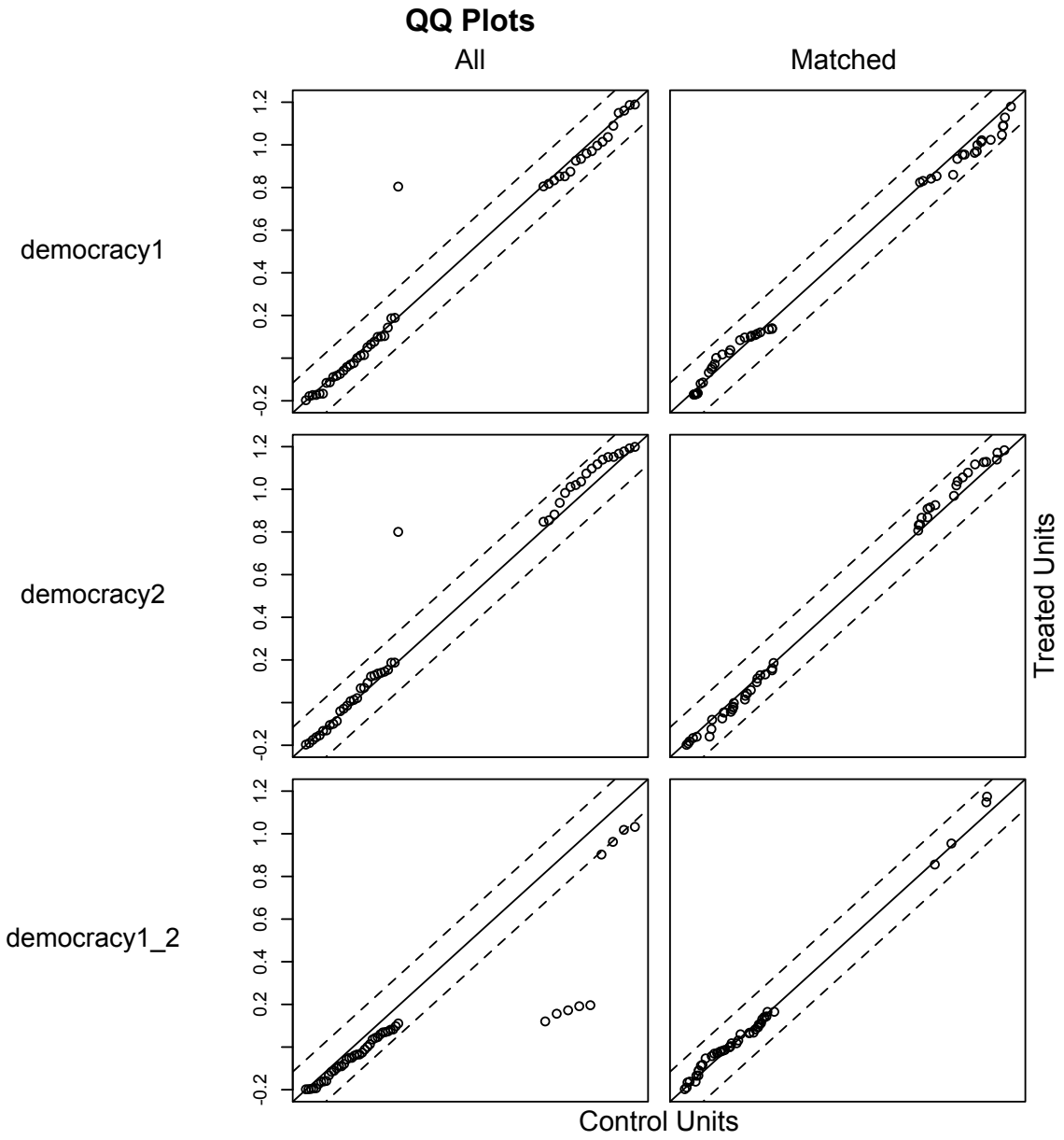
```
ttest cwinit10, by(abdfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     190    .1578947    .0265238    .3656057     .105574    .2102155
       1 |     212    .1509434    .0246453     .358841    .1023608     .199526
---------+--------------------------------------------------------------------
combined |     402    .1542289    .0180359     .361618    .1187722    .1896855
---------+--------------------------------------------------------------------
    diff |            .0069513    .0361693               -.0641544    .0780571
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.1922
Ho: diff = 0                     degrees of freedom =      400

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5762         Pr(|T| > |t|) = 0.8477          Pr(T > t) = 0.4238

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

Iteration 0:   log pseudolikelihood =  -172.8499
Iteration 1:   log pseudolikelihood = -157.16421
Iteration 2:   log pseudolikelihood = -156.62621
Iteration 3:   log pseudolikelihood = -156.62405
Iteration 4:   log pseudolikelihood = -156.62405

Probit regression                                 Number of obs     =        402
                                                  Wald chi2(11)     =      39.63
                                                  Prob > chi2       =     0.0000
Log pseudolikelihood = -156.62405                 Pseudo R2         =     0.0939

                              (Std. Err. adjusted for 322 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     abdfirc |  -.0516341   .1620618    -0.32   0.750    -.3692695    .2660013
       cap_1 |  -.3396576    1.31335    -0.26   0.796    -2.913777    2.234462
       cap_2 |   2.246006   1.524327     1.47   0.141    -.7416211    5.233632
  capshare_1 |   .7818797   .3587241     2.18   0.029     .0787933    1.484966
    s_wt_glo |  -.1347632   .2781558    -0.48   0.628    -.6799385    .4104121
      s_ld_1 |  -.2976805   .4034279    -0.74   0.461    -1.088385    .4930236
      s_ld_2 |   1.419651   .4174792     3.40   0.001      .601407    2.237895
  lndistance |  -.0583581   .0269549    -2.17   0.030    -.1111887   -.0055274
  democracy1 |    .007678   .2013136     0.04   0.970    -.3868895    .4022455
  democracy2 |  -.7233924   .2186701    -3.31   0.001    -1.151978    -.294807
    peaceyrs |  -.0032031   .0033855    -0.95   0.344    -.0098385    .0034323
       _cons |  -1.790056   .4220768    -4.24   0.000    -2.617311   -.9628002
------------------------------------------------------------------------------
```

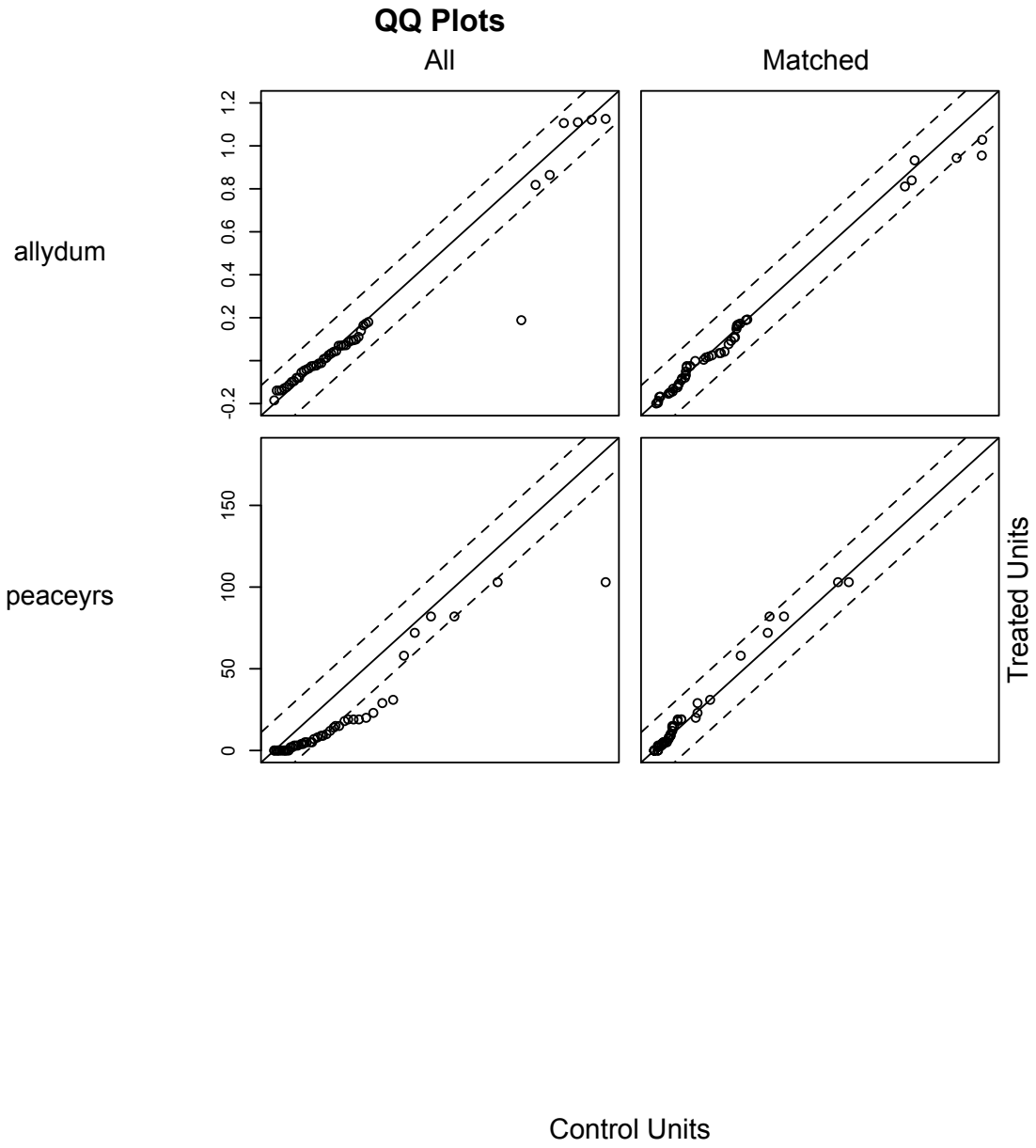
FAILED FIRC, GENETIC MATCHING

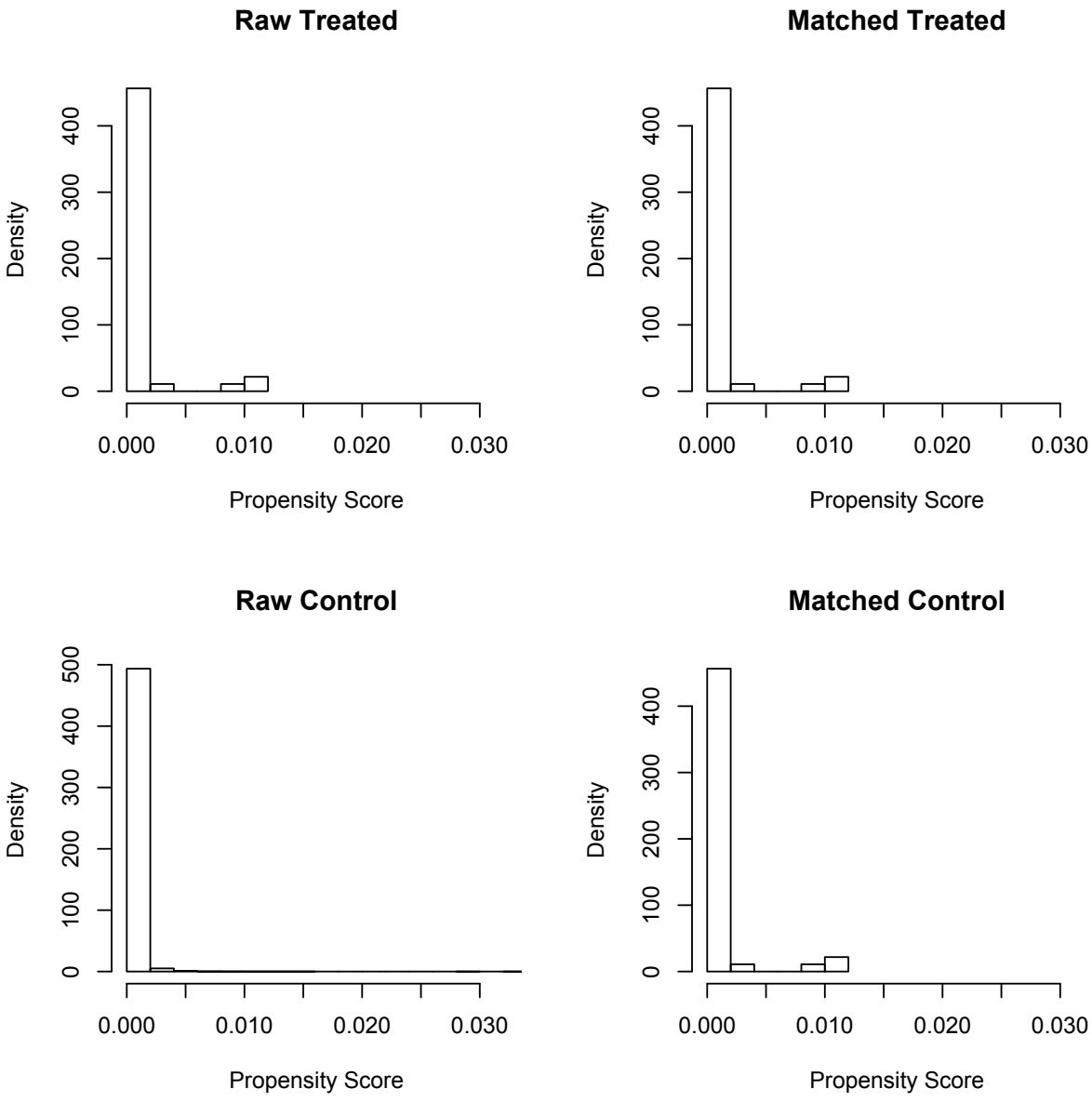
```
summary(failfirc.out1)

Call:
matchit(formula = abdfircfail ~ cap_1 + cap_2 + s_wt_glo + s_ld_1 +
    s_ld_2 + lndistance + democracy1 + democracy2 + democracy1_2 +
    allydum + peaceyrs, data = failfirc, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0013        0.0003     0.0005    0.0011  0.0005   0.0013  0.0207
cap_1               0.0632        0.0398     0.0618    0.0234  0.0049   0.0195  0.1389
cap_2               0.0632        0.0399     0.0618    0.0233  0.0049   0.0194  0.1389
s_wt_glo            0.5201        0.5177     0.3398    0.0024  0.1267   0.1221  0.4238
s_ld_1              0.5942        0.5446     0.2616    0.0497  0.1277   0.1150  0.2556
s_ld_2              0.5942        0.5447     0.2615    0.0495  0.1264   0.1149  0.2560
lndistance          4.1244        5.6333     3.8764   -1.5089  0.2789   1.4505  7.7841
democracy1          0.4130        0.3885     0.4874    0.0246  0.0000   0.0217  1.0000
democracy2          0.4130        0.3890     0.4875    0.0241  0.0000   0.0217  1.0000
democracy1_2        0.0870        0.1863     0.3893   -0.0993  0.0000   0.1087  1.0000
allydum             0.1304        0.1499     0.3570   -0.0195  0.0000   0.0217  1.0000
peaceyrs           17.7826       31.3930    31.3324  -13.6104 13.5000  15.1739 81.0000


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     0.0025    0.0000  0.0000   0.0001  0.0004
cap_1               0.0632        0.0588     0.1011    0.0044  0.0053   0.0111  0.0604
cap_2               0.0632        0.0630     0.0958    0.0003  0.0033   0.0075  0.0345
s_wt_glo            0.5201        0.5314     0.4239   -0.0113  0.0196   0.0322  0.2250
s_ld_1              0.5942        0.5942     0.3490    0.0000  0.0038   0.0123  0.1121
s_ld_2              0.5942        0.5946     0.3517   -0.0004  0.0034   0.0096  0.0995
lndistance          4.1244        4.2632     4.0053   -0.1388  0.0103   0.2359  6.3886
democracy1          0.4130        0.4130     0.4978    0.0000  0.0000   0.0000  0.0000
democracy2          0.4130        0.4130     0.4978    0.0000  0.0000   0.0000  0.0000
democracy1_2        0.0870        0.0870     0.2849    0.0000  0.0000   0.0000  0.0000
allydum             0.1304        0.1304     0.3405    0.0000  0.0000   0.0000  0.0000
peaceyrs           17.7826       16.3043    25.7508    1.4783  1.0000   2.3913 18.0000

Percent Balance Improvement:
             Mean Diff. eQQ Med eQQ Mean  eQQ Max
distance        97.6973 95.7688  95.5451  97.8518
cap_1           81.2729 -8.3519  43.1966  56.5072
cap_2           98.8524 32.7467  61.5095  75.1780
s_wt_glo      -367.7326 84.5108  73.5966  46.9146
s_ld_1          99.9121 97.0318  89.3485  56.1525
s_ld_2          99.1834 97.3085  91.6581  61.1448
lndistance      90.8028 96.3066  83.7374  17.9276
democracy1     100.0000  0.0000 100.0000 100.0000
democracy2     100.0000  0.0000 100.0000 100.0000
democracy1_2   100.0000  0.0000 100.0000 100.0000
allydum        100.0000  0.0000 100.0000 100.0000
peaceyrs        89.1388 92.5926  84.2407  77.7778

Sample sizes:
          Control Treated
All        161294      46
Matched        46      46
Unmatched  161248       0
Discarded       0       0
```


QQ Plots
All
Matched
cap_1
cap_2
s_wt_glo
0.0
0.1
0.2
0.3
-0.5
0.0
0.5
1.0
Treated Units
Control Units


QQ Plots
All
Matched
s_ld_1
s_ld_2
ldistance
Treated Units
Control Units
-0.2
0.0
0.2
0.4
0.6
0.8
1.0
0
2
4
6
8


QQ Plots
All
Matched
democracy1
democracy2
democracy1_2
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
Treated Units
Control Units

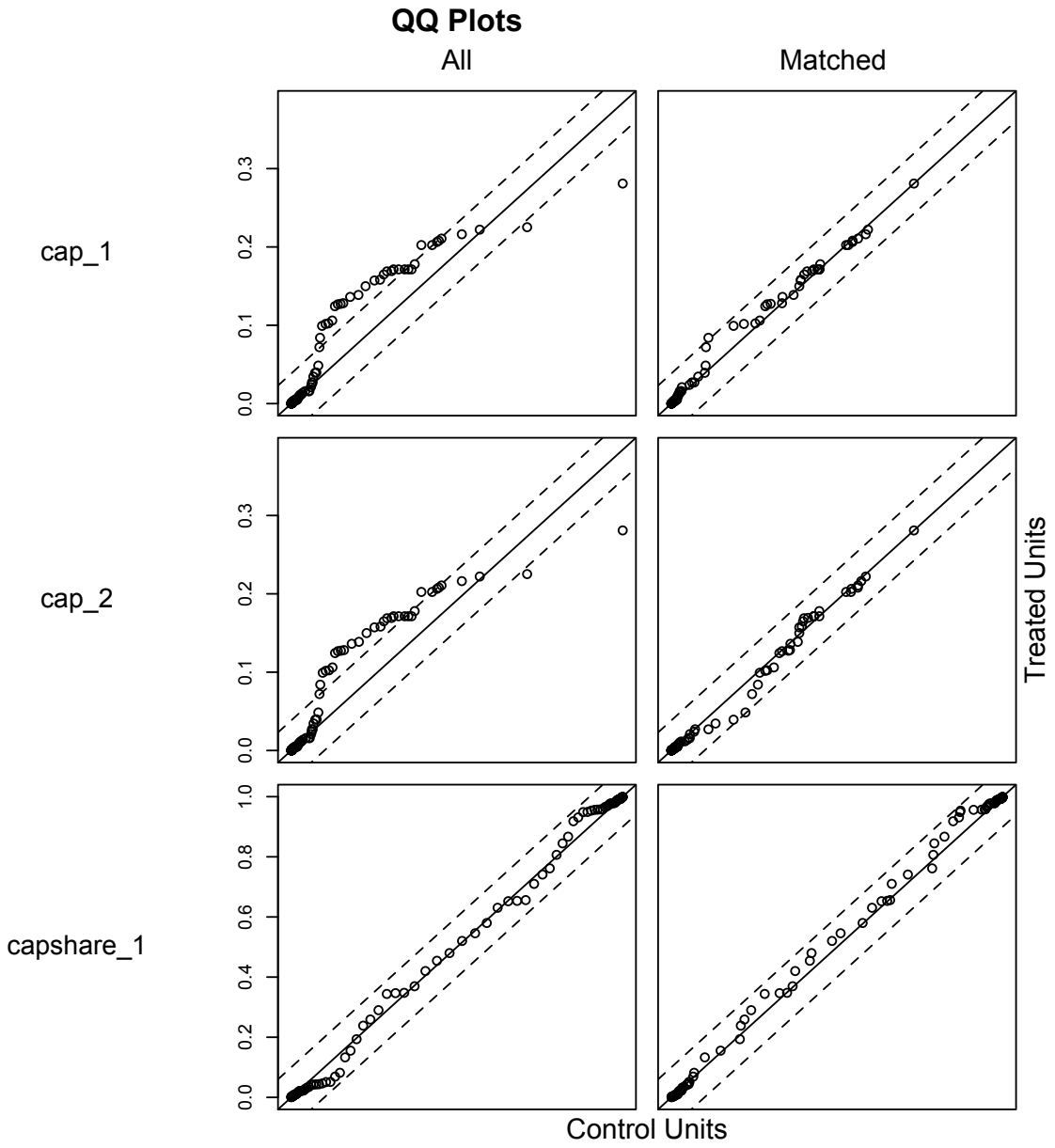

QQ Plots
All
Matched
allydum
peaceyrs
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
Treated Units
Control Units

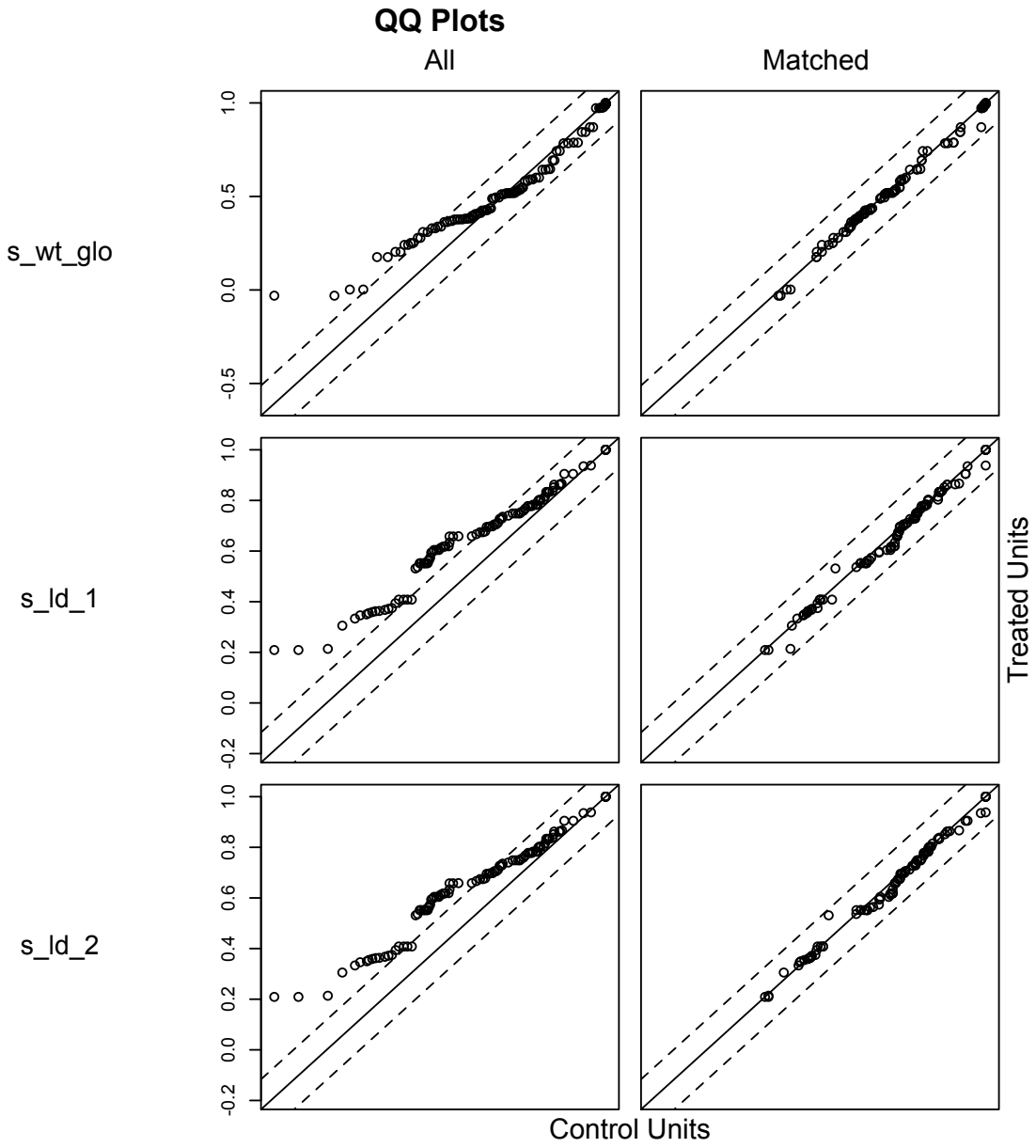

Raw Treated
Density
0
100
200
300
400
0.000
0.010
0.020
0.030
Propensity Score
Matched Treated
Density
0
100
200
300
400
0.000
0.010
0.020
0.030
Propensity Score
Raw Control
Density
0
100
200
300
400
500
0.000
0.010
0.020
0.030
Propensity Score
Matched Control
Density
0
100
200
300
400
0.000
0.010
0.020
0.030
Propensity Score

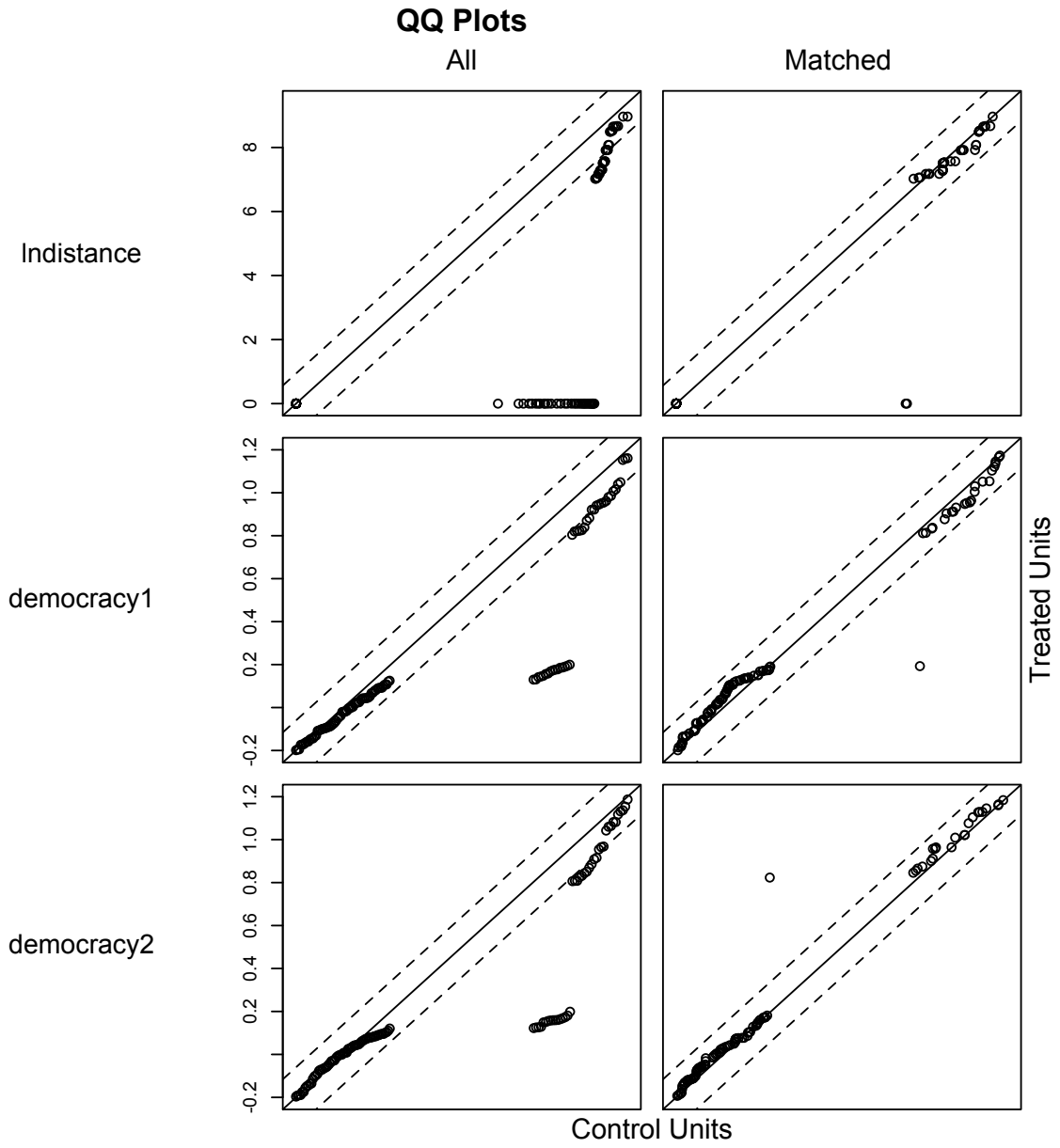
```
ttest cwinit10, by(abdfircfail)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      46    .1521739    .0535448    .3631584    .0443292    .2600187
       1 |      46     .326087    .0698815    .4739596    .1853383    .4668356
---------+--------------------------------------------------------------------
combined |      92    .2391304    .0447149    .4288898    .1503099     .327951
---------+--------------------------------------------------------------------
    diff |            -.173913    .0880368               -.3488134    .0009874
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.9755
Ho: diff = 0                                     degrees of freedom =       90

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0256         Pr(|T| > |t|) = 0.0513          Pr(T > t) = 0.9744

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

Iteration 0:   log pseudolikelihood = -50.606948
Iteration 1:   log pseudolikelihood = -33.036922
Iteration 2:   log pseudolikelihood = -30.826286
Iteration 3:   log pseudolikelihood = -30.591914
Iteration 4:   log pseudolikelihood = -30.587641
Iteration 5:   log pseudolikelihood = -30.587636
Iteration 6:   log pseudolikelihood = -30.587636

Probit regression                                 Number of obs     =         92
                                                  Wald chi2(11)     =      23.11
                                                  Prob > chi2       =     0.0170
Log pseudolikelihood = -30.587636                 Pseudo R2         =     0.3956

                               (Std. Err. adjusted for 83 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 abdfircfail |   1.084472   .4369472     2.48   0.013      .228071    1.940873
       cap_1 |   1.481878   2.842473     0.52   0.602    -4.089267    7.053022
       cap_2 |    18.7682   6.052595     3.10   0.002     6.905329    30.63106
  capshare_1 |   2.712376   1.001511     2.71   0.007     .7494501    4.675301
    s_wt_glo |   2.349707   1.213654     1.94   0.053     -.029011    4.728424
      s_ld_1 |   .3129888    .967627     0.32   0.746    -1.583525    2.209503
      s_ld_2 |   -2.74698   1.114485    -2.46   0.014    -4.931331   -.5626297
  lndistance |  -.0931417    .088069    -1.06   0.290    -.2657538    .0794705
  democracy1 |  -.3818986   .5566202    -0.69   0.493    -1.472854    .7090569
  democracy2 |   .2061786   .4908226     0.42   0.674    -.7558161    1.168173
    peaceyrs |  -.0581185   .0202702    -2.87   0.004    -.0978473   -.0183896
       _cons |   -2.96525   1.352732    -2.19   0.028    -5.616557   -.3139442
------------------------------------------------------------------------------
Note: 2 failures and 0 successes completely determined.
```

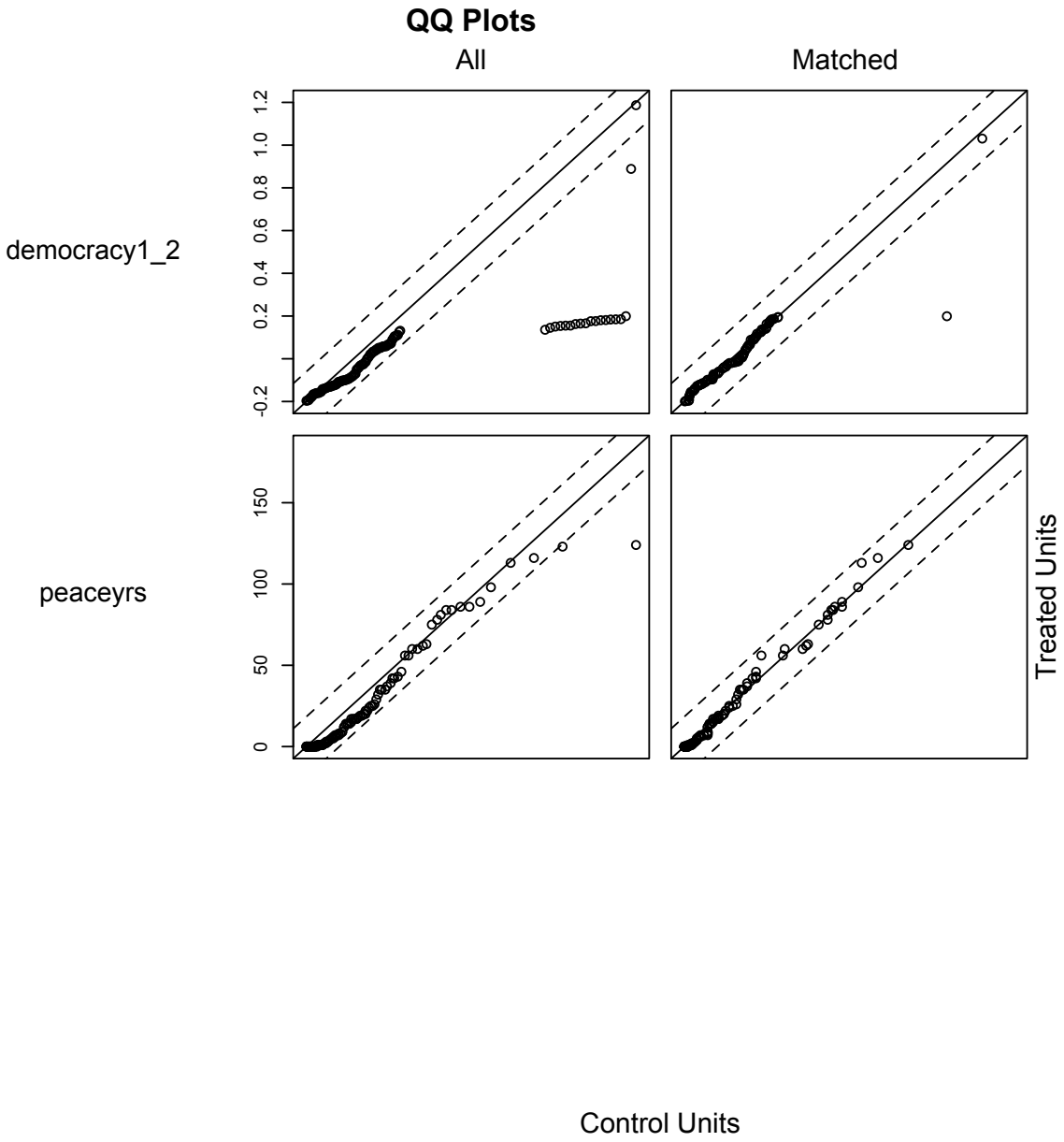
LEADERSHIP FIRC (Genetic Matching Run #1, as reported in Figure 5.6 in the book)

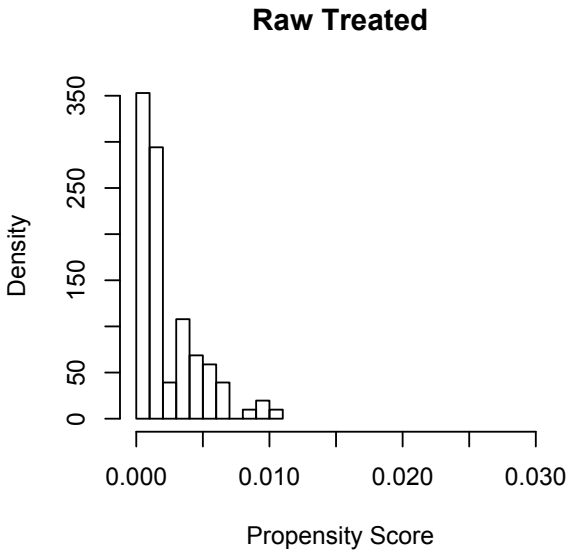
```
Call:
matchit(formula = abdleaderfirc ~ cap_1 + cap_2 + capshare_1 +
    s_wt_glo + s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs, data = lfirc, method = "genetic",
    pop.size = 200)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0006     0.0012    0.0017  0.0009   0.0018  0.0204
cap_1               0.0568        0.0408     0.0626    0.0161  0.0006   0.0176  0.1029
cap_2               0.0568        0.0409     0.0627    0.0159  0.0007   0.0176  0.1029
capshare_1          0.5000        0.4993     0.4170    0.0007  0.0062   0.0154  0.0682
s_wt_glo            0.5526        0.5147     0.3434    0.0380  0.0427   0.0735  0.5771
s_ld_1              0.6638        0.5460     0.2626    0.1179  0.1104   0.1196  0.3968
s_ld_2              0.6638        0.5462     0.2626    0.1177  0.1104   0.1195  0.3968
lndistance          2.7477        5.6208     3.8712   -2.8731  1.1824   2.8852  8.4502
democracy1          0.2353        0.3893     0.4876   -0.1540  0.0000   0.1569  1.0000
democracy2          0.2353        0.3898     0.4877   -0.1545  0.0000   0.1569  1.0000
democracy1_2        0.0196        0.1848     0.3882   -0.1652  0.0000   0.1667  1.0000
peaceyrs           24.9510       31.3748    31.3147   -6.4238  8.0000   7.5882 60.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0023     0.0022    0.0000  0.0000   0.0001  0.0024
cap_1               0.0568        0.0566     0.0776    0.0002  0.0006   0.0034  0.0411
cap_2               0.0568        0.0562     0.0760    0.0007  0.0006   0.0037  0.0373
capshare_1          0.5000        0.4990     0.4245    0.0010  0.0045   0.0139  0.0811
s_wt_glo            0.5526        0.5536     0.2716   -0.0010  0.0076   0.0137  0.1082
s_ld_1              0.6638        0.6645     0.1979   -0.0007  0.0065   0.0137  0.0865
s_ld_2              0.6638        0.6686     0.1989   -0.0047  0.0103   0.0145  0.0940
lndistance          2.7477        2.7624     3.7823   -0.0147  0.0000   0.1924  6.5352
democracy1          0.2353        0.2353     0.4263    0.0000  0.0000   0.0101  1.0000
democracy2          0.2353        0.2353     0.4263    0.0000  0.0000   0.0101  1.0000
democracy1_2        0.0196        0.0196     0.1394    0.0000  0.0000   0.0101  1.0000
peaceyrs           24.9510       24.4804    29.3419    0.4706  2.0000   2.2626 14.0000

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance        99.4700  94.9510  93.8065  88.1783
cap_1           98.9592   2.3772  80.4669  60.0676
cap_2           95.9028   4.8706  79.0489  63.7694
capshare_1     -59.9917  27.7388   9.8454 -18.9648
s_wt_glo        97.3932  82.1666  81.3139  81.2448
s_ld_1          99.4439  94.0860  88.5409  78.1952
s_ld_2          95.9767  90.6362  87.8864  76.3200
lndistance      99.4881 100.0000  93.3316  22.6617
democracy1     100.0000   0.0000  93.5606   0.0000
democracy2     100.0000   0.0000  93.5606   0.0000
democracy1_2   100.0000   0.0000  93.9394   0.0000
peaceyrs        92.6743  75.0000  70.1824  76.6667

Sample sizes:
          Control Treated
All        165012     102
Matched        99     102
Unmatched  164913       0
Discarded       0       0
```

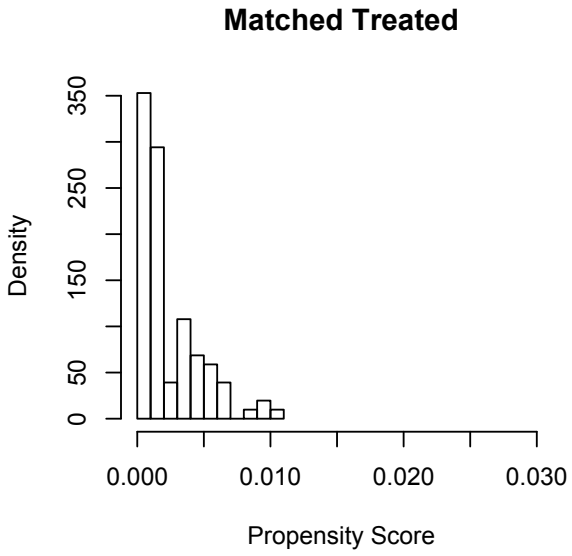

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

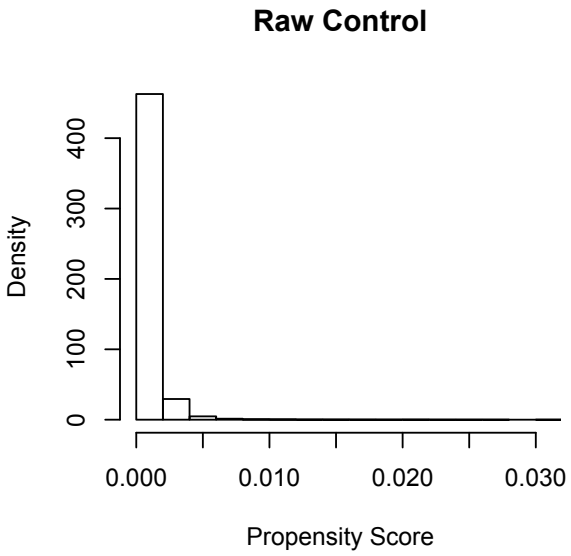

QQ Plots
All
Matched
s_wt_glo
s_ld_1
s_ld_2
Treated Units
Control Units
1.0
0.5
0.0
-0.5
0.8
0.6
0.4
0.2
0.0
-0.2

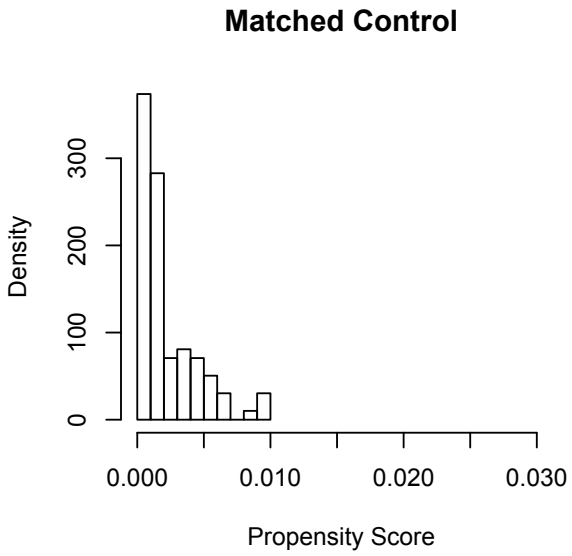

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2


QQ Plots
All
Matched
democracy1_2
peaceyrs
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
Treated Units
Control Units


Raw Treated
Density
0
50
150
250
350
0.000
0.010
0.020
0.030
Propensity Score


Matched Treated
Density
0
50
150
250
350
0.000
0.010
0.020
0.030
Propensity Score


Raw Control
Density
0
100
200
300
400
0.000
0.010
0.020
0.030
Propensity Score


Matched Control
Density
0
100
200
300
0.000
0.010
0.020
0.030
Propensity Score

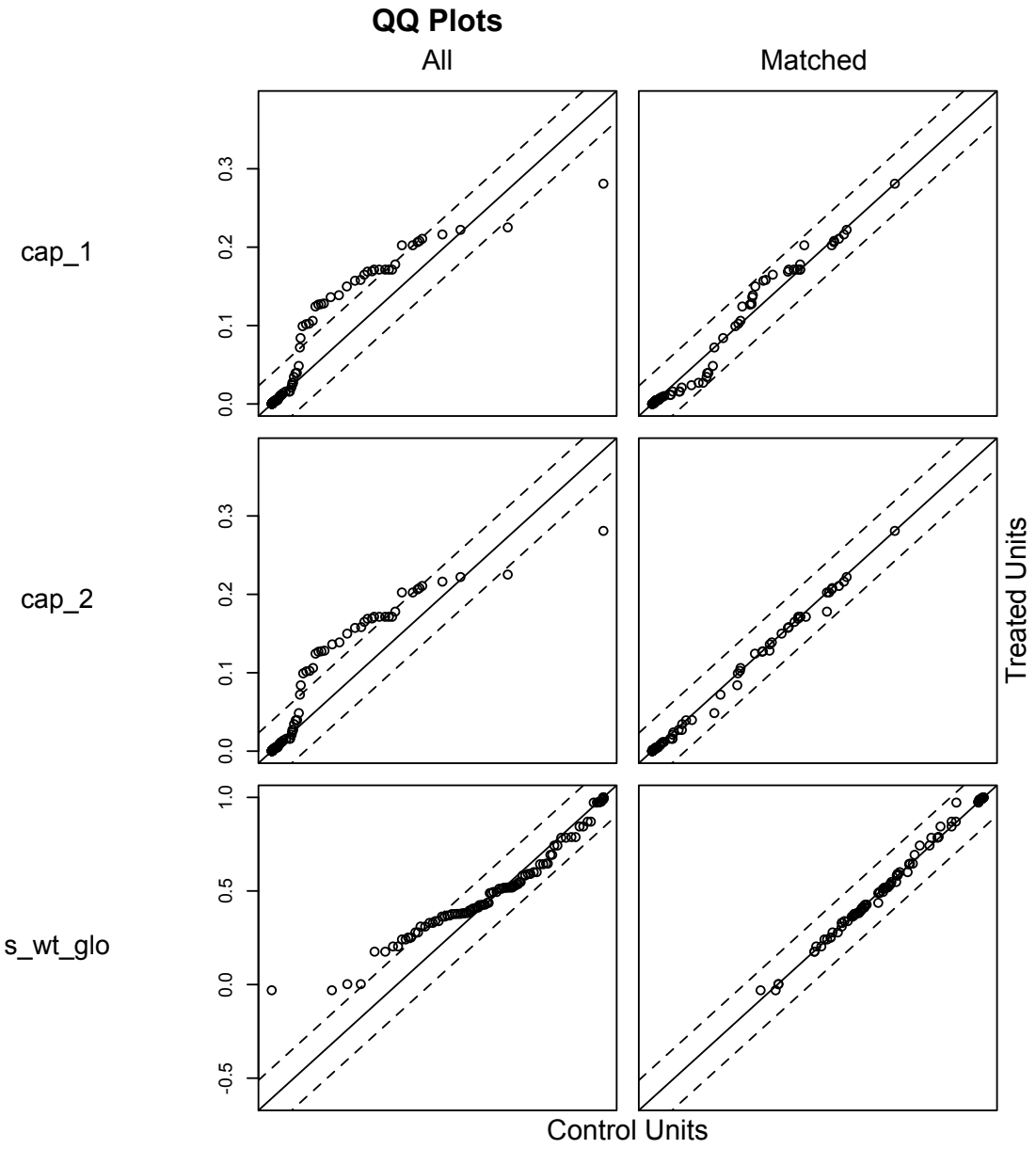
```
ttest cwinit10, by(abdleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      99    .1515152     .036219     .360375    .0796396    .2233907
       1 |     102     .245098    .0428011    .4322695    .1601923    .3300038
---------+--------------------------------------------------------------------
combined |     201     .199005    .0282314    .4002487    .1433357    .2546743
---------+--------------------------------------------------------------------
    diff |           -.0935829    .0562207               -.2044476    .0172819
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.6646
Ho: diff = 0                                     degrees of freedom =      199

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0488         Pr(|T| > |t|) = 0.0976          Pr(T > t) = 0.9512


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

Iteration 0:   log pseudolikelihood = -100.30301
Iteration 1:   log pseudolikelihood = -92.248646
Iteration 2:   log pseudolikelihood = -92.041634
Iteration 3:   log pseudolikelihood = -92.040809
Iteration 4:   log pseudolikelihood = -92.040809

Probit regression                                 Number of obs     =        201
                                                  Wald chi2(11)     =      15.20
                                                  Prob > chi2       =     0.1736
Log pseudolikelihood = -92.040809                 Pseudo R2         =     0.0824

                              (Std. Err. adjusted for 180 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
abdleaderfirc |   .3454087   .2116629     1.63   0.103    -.0694429    .7602603
        cap_1 |   .6679924   1.966041     0.34   0.734    -3.185377    4.521362
        cap_2 |   5.284774   2.730951     1.94   0.053    -.0677926    10.63734
   capshare_1 |    .981385   .5750354     1.71   0.088    -.1456637    2.108434
     s_wt_glo |   .2407963    .469201     0.51   0.608    -.6788208    1.160413
       s_ld_1 |   -.262527   .7428397    -0.35   0.724    -1.718466    1.193412
       s_ld_2 |   1.757044   .7951643     2.21   0.027     .1985506    3.315538
   lndistance |  -.0325189   .0319247    -1.02   0.308    -.0950902    .0300524
   democracy1 |    .138593   .3033818     0.46   0.648    -.4560244    .7332105
   democracy2 |    -.67731   .3407533    -1.99   0.047    -1.345174   -.0094458
     peaceyrs |  -.0031131   .0042531    -0.73   0.464    -.0114489    .0052228
        _cons |  -2.776683   .8264193    -3.36   0.001    -4.396435   -1.156931
------------------------------------------------------------------------------
```

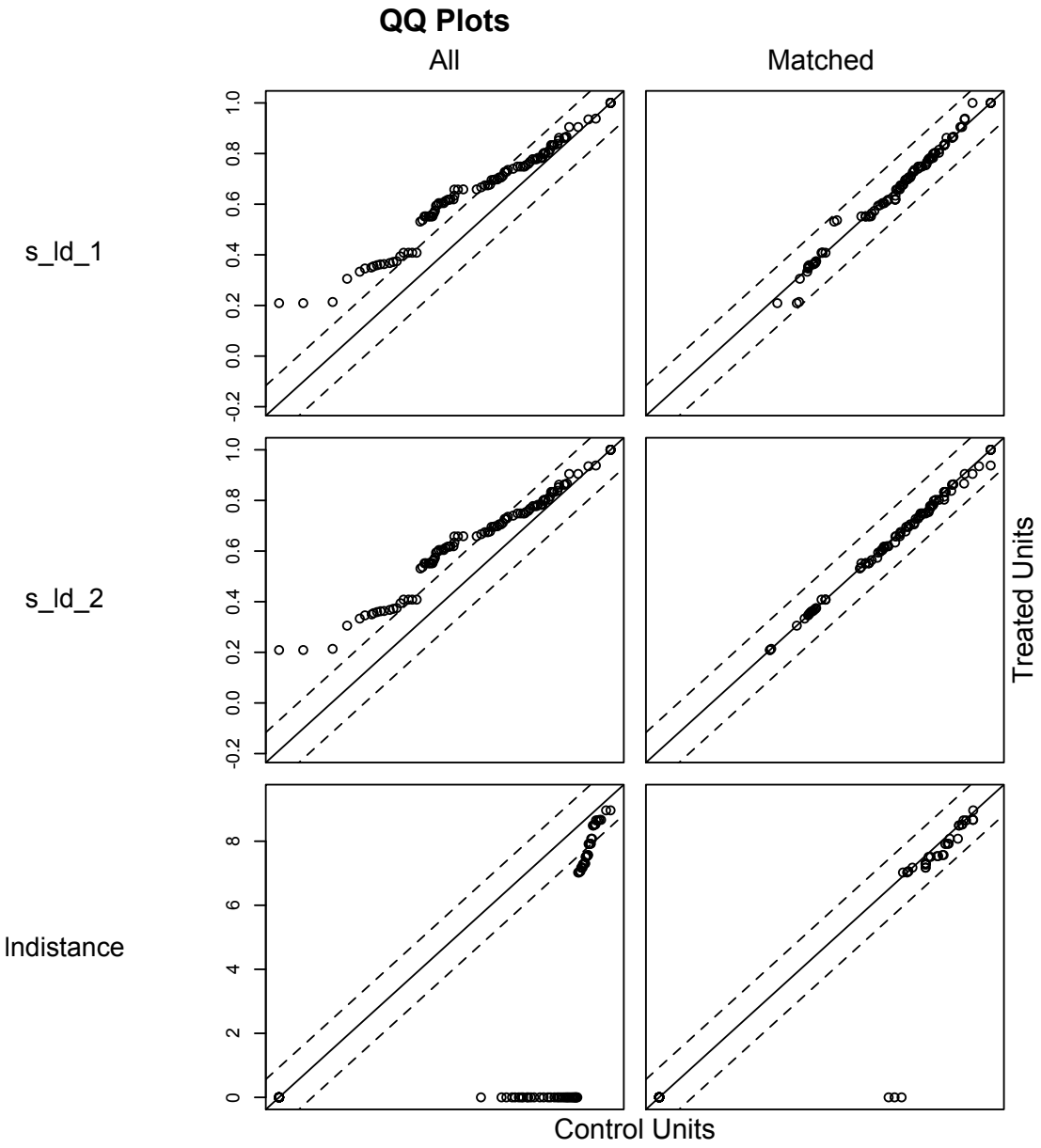
ROSENBAUM SENSITIVITY TEST

```
library(rbounds)
library(rgenoud)
library(foreign)

lfirc=read.dta("leaderfircdyadic_formatch12.dta")
attach(lfirc)
summary(lfirc)

Y <- lfirc$cwinit10
Tr <- lfirc$abdleaderfirc
X <- cbind(cap_1, cap_2, capshare_1, s_wt_glo, s_ld_1, s_ld_2, lndistance, democracy1,
democracy2, democracy1_2, peaceyrs)
BalanceMat <- cbind(cap_1, cap_2, capshare_1, s_wt_glo, s_ld_1, s_ld_2, lndistance, democracy1,
democracy2, democracy1_2, peaceyrs)
gen1 <- GenMatch(Tr=Tr, X=X, BalanceMat=BalanceMat, pop.size=50, data.type.int=FALSE,
replace=FALSE)

mgen1 <- Match(Y=Y, Tr=Tr, X=X, Weight.matrix=gen1, replace=FALSE)
summary(mgen1)

Estimate...  0.078431
SE.........  0.054913
T-stat.....  1.4283
p.val......  0.15321

Original number of observations..............  165114
Original number of treated obs...............  102
Matched number of observations...............  102
Matched number of observations  (unweighted).  102

psens(mgen1, Gamma=2.0, GammaInc=.1)

 Rosenbaum Sensitivity Test for Wilcoxon Signed Rank P-Value

Unconfounded estimate ....  0.0786

 Gamma Lower bound Upper bound
   1.0      0.0786      0.0786
   1.1      0.0459      0.1259
   1.2      0.0264      0.1831
   1.3      0.0150      0.2476
   1.4      0.0084      0.3163
   1.5      0.0047      0.3864
   1.6      0.0026      0.4555
   1.7      0.0014      0.5216
   1.8      0.0008      0.5835
   1.9      0.0004      0.6402
   2.0      0.0002      0.6915

 Note: Gamma is Odds of Differential Assignment To
 Treatment Due to Unobserved Factors
```

LEADERSHIP FIRC (Genetic Matching Run #2)

```
summary(fircmid.out2)

Call:
matchit(formula = abdleaderfirc ~ cap_1 + cap_2 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs, data = fircmid, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0006     0.0012    0.0017  0.0009   0.0018  0.0201
cap_1               0.0568        0.0408     0.0627    0.0160  0.0006   0.0176  0.1029
cap_2               0.0568        0.0409     0.0627    0.0159  0.0007   0.0176  0.1029
s_wt_glo            0.5526        0.5147     0.3434    0.0380  0.0427   0.0735  0.5771
s_ld_1              0.6638        0.5460     0.2627    0.1178  0.1104   0.1196  0.3968
s_ld_2              0.6638        0.5462     0.2627    0.1176  0.1104   0.1195  0.3968
lndistance          2.7477        5.6195     3.8715   -2.8718  1.1824   2.8850  8.4502
democracy1          0.2353        0.3893     0.4876   -0.1540  0.0000   0.1569  1.0000
democracy2          0.2353        0.3898     0.4877   -0.1545  0.0000   0.1569  1.0000
democracy1_2        0.0196        0.1849     0.3882   -0.1653  0.0000   0.1667  1.0000
peaceyrs           24.9510       31.3718    31.3143   -6.4208  8.0000   7.5784 60.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0023     0.0022    0.0000  0.0001   0.0001  0.0011
cap_1               0.0568        0.0554     0.0735    0.0014  0.0008   0.0064  0.0320
cap_2               0.0568        0.0567     0.0777    0.0001  0.0004   0.0019  0.0244
s_wt_glo            0.5526        0.5522     0.2718    0.0004  0.0057   0.0102  0.1049
s_ld_1              0.6638        0.6600     0.1869    0.0039  0.0058   0.0118  0.0996
s_ld_2              0.6638        0.6643     0.1964   -0.0004  0.0052   0.0078  0.0620
lndistance          2.7477        2.7660     3.7856   -0.0183  0.0000   0.2775  6.8680
democracy1          0.2353        0.2549     0.4381   -0.0196  0.0000   0.0211  1.0000
democracy2          0.2353        0.2353     0.4264    0.0000  0.0000   0.0000  0.0000
democracy1_2        0.0196        0.0196     0.1394    0.0000  0.0000   0.0105  1.0000
peaceyrs           24.9510       23.2255    25.9240    1.7255  3.0000   4.3474 23.0000

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance        98.6559  93.6361  92.8547  94.4819
cap_1           91.1513 -34.7101  63.9104  68.8829
cap_2           99.1778  46.0896  89.0317  76.2631
s_wt_glo        98.9909  86.7725  86.1421  81.8180
s_ld_1          96.7133  94.7890  90.0897  74.9003
s_ld_2          99.6250  95.3226  93.4516  84.3729
lndistance      99.3616 100.0000  90.3800  18.7241
democracy1      87.2702   0.0000  86.5789   0.0000
democracy2     100.0000   0.0000 100.0000 100.0000
democracy1_2   100.0000   0.0000  93.6842   0.0000
peaceyrs        73.1267  62.5000  42.6350  61.6667

Sample sizes:
          Control Treated
All        165119     102
Matched        95     102
Unmatched  165024       0
Discarded       0       0
```


QQ Plots
All
Matched
cap_1
cap_2
s_wt_glo
0.0
0.1
0.2
0.3
-0.5
0.0
0.5
1.0
Treated Units
Control Units


QQ Plots
All
Matched
s_ld_1
s_ld_2
lndistance
Treated Units
Control Units
-0.2
0.0
0.2
0.4
0.6
0.8
1.0
0
2
4
6
8

```
ttest cwinit10, by(abdleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      95    .1789474    .0395352    .3853417    .1004492    .2574455
       1 |     102     .245098    .0428011    .4322695    .1601923    .3300038
---------+--------------------------------------------------------------------
combined |     197     .213198    .0292547    .4106098    .1555035    .2708924
---------+--------------------------------------------------------------------
    diff |           -.0661507    .0585049               -.1815343    .0492329
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.1307
Ho: diff = 0                                     degrees of freedom =      195

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1298         Pr(|T| > |t|) = 0.2596          Pr(T > t) = 0.8702

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

Iteration 0:   log pseudolikelihood = -102.07812
Iteration 1:   log pseudolikelihood = -95.071847
Iteration 2:   log pseudolikelihood = -94.919808
Iteration 3:   log pseudolikelihood = -94.919419
Iteration 4:   log pseudolikelihood = -94.919419

Probit regression                                 Number of obs     =        197
                                                  Wald chi2(11)     =      15.56
                                                  Prob > chi2       =     0.1584
Log pseudolikelihood = -94.919419                 Pseudo R2         =     0.0701

                              (Std. Err. adjusted for 173 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
abdleaderfirc |   .2441031   .2089934     1.17   0.243    -.1655164    .6537227
        cap_1 |  -.0805823    1.92476    -0.04   0.967    -3.853043    3.691878
        cap_2 |   4.942947    2.56972     1.92   0.054    -.0936121    9.979506
   capshare_1 |   .8543346   .5522523     1.55   0.122    -.2280601    1.936729
     s_wt_glo |   .1251927   .4519142     0.28   0.782     -.760543    1.010928
       s_ld_1 |   .9717581   .7619463     1.28   0.202    -.5216293    2.465145
       s_ld_2 |   .1211851   .8004151     0.15   0.880      -1.4476     1.68997
   lndistance |  -.0107739   .0324068    -0.33   0.740    -.0742901    .0527423
   democracy1 |  -.2190276   .2829407    -0.77   0.439    -.7735811    .3355259
   democracy2 |  -.5502037   .3169252    -1.74   0.083    -1.171366    .0709583
     peaceyrs |  -.0070224   .0044408    -1.58   0.114    -.0157261    .0016814
        _cons |  -2.123423   .8059698    -2.63   0.008    -3.703095   -.5437512
------------------------------------------------------------------------------
```

LEADERSHIP FIRC (Genetic Matching Run #3)

```
summary(fircmid.out4)

Call:
matchit(formula = abdleaderfirc ~ cap_1 + cap_2 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs, data = fircmid, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0006     0.0012    0.0017  0.0009   0.0018  0.0201
cap_1               0.0568        0.0408     0.0627    0.0160  0.0006   0.0176  0.1029
cap_2               0.0568        0.0409     0.0627    0.0159  0.0007   0.0176  0.1029
s_wt_glo            0.5526        0.5147     0.3434    0.0380  0.0427   0.0735  0.5771
s_ld_1              0.6638        0.5460     0.2627    0.1178  0.1104   0.1196  0.3968
s_ld_2              0.6638        0.5462     0.2627    0.1176  0.1104   0.1195  0.3968
lndistance          2.7477        5.6195     3.8715   -2.8718  1.1824   2.8850  8.4502
democracy1          0.2353        0.3893     0.4876   -0.1540  0.0000   0.1569  1.0000
democracy2          0.2353        0.3898     0.4877   -0.1545  0.0000   0.1569  1.0000
democracy1_2        0.0196        0.1849     0.3882   -0.1653  0.0000   0.1667  1.0000
peaceyrs           24.9510       31.3718    31.3143   -6.4208  8.0000   7.5784 60.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0023     0.0023    0.0000  0.0000   0.0001  0.0027
cap_1               0.0568        0.0572     0.0772   -0.0004  0.0011   0.0035  0.0253
cap_2               0.0568        0.0563     0.0770    0.0005  0.0011   0.0023  0.0235
s_wt_glo            0.5526        0.5546     0.2736   -0.0019  0.0071   0.0123  0.0966
s_ld_1              0.6638        0.6656     0.1975   -0.0018  0.0103   0.0174  0.1335
s_ld_2              0.6638        0.6652     0.1987   -0.0014  0.0089   0.0152  0.1156
lndistance          2.7477        2.7597     3.7743   -0.0120  0.0000   0.2764  6.9048
democracy1          0.2353        0.2353     0.4265    0.0000  0.0000   0.0106  1.0000
democracy2          0.2353        0.2353     0.4265    0.0000  0.0000   0.0000  0.0000
democracy1_2        0.0196        0.0196     0.1394    0.0000  0.0000   0.0106  1.0000
peaceyrs           24.9510       24.0196    28.2815    0.9314  2.0000   2.9574 15.0000

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance        99.9154  96.2145  94.3209  86.7650
cap_1           97.2756 -69.1025  80.1210  75.4246
cap_2           96.6005 -70.3872  86.7796  77.1705
s_wt_glo        94.8945  83.4872  83.2423  83.2688
s_ld_1          98.5088  90.6719  85.4849  66.3683
s_ld_2          98.8158  91.9344  87.2549  70.8680
lndistance      99.5835 100.0000  90.4178  18.2889
democracy1     100.0000   0.0000  93.2181   0.0000
democracy2     100.0000   0.0000 100.0000 100.0000
democracy1_2   100.0000   0.0000  93.6170   0.0000
peaceyrs        85.4945  75.0000  60.9755  75.0000

Sample sizes:
          Control Treated
All        165119     102
Matched        94     102
Unmatched  165025       0
Discarded       0       0
```

```
use "/Users/alexanderdownes/Dropbox/Downes Hard Drive/FIRC/Book/FIRC Book Workshop/FIRC Book
Chapter 7/Chapter 7 Matching/leaderfircdyadic_aug2019_genmatchedv2.dta"
(Written by R.              )

ttest cwinit10, by(abdleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      94    .2446809    .0445783    .4322029    .1561571    .3332046
       1 |     102     .245098    .0428011    .4322695    .1601923    .3300038
---------+--------------------------------------------------------------------
combined |     196     .244898    .0307949    .4311279    .1841642    .3056317
---------+--------------------------------------------------------------------
    diff |           -.0004172    .0617997               -.1223028    .1214684
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.0068
Ho: diff = 0                                     degrees of freedom =      194

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.4973         Pr(|T| > |t|) = 0.9946          Pr(T > t) = 0.5027


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

Iteration 0:   log pseudolikelihood = -109.10541
Iteration 1:   log pseudolikelihood =  -103.1298
Iteration 2:   log pseudolikelihood = -103.00316
Iteration 3:   log pseudolikelihood = -103.00285
Iteration 4:   log pseudolikelihood = -103.00285

Probit regression                               Number of obs     =        196
                                                Wald chi2(11)     =      15.41
                                                Prob > chi2       =     0.1646
Log pseudolikelihood = -103.00285               Pseudo R2         =     0.0559

                              (Std. Err. adjusted for 174 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
abdleaderfirc |  -.0043263   .2070834    -0.02   0.983    -.4102024    .4015497
        cap_1 |  -.2794362   1.998147    -0.14   0.889    -4.195732    3.636859
        cap_2 |   5.376637   2.416121     2.23   0.026     .6411257    10.11215
   capshare_1 |   .9293257    .509277     1.82   0.068    -.0688389     1.92749
     s_wt_glo |   .1723398   .4548696     0.38   0.705    -.7191882    1.063868
       s_ld_1 |   .4457464   .7267819     0.61   0.540    -.9787201    1.870213
       s_ld_2 |   .6263572   .7920606     0.79   0.429    -.9260531    2.178768
   lndistance |  -.0317293   .0316937    -1.00   0.317    -.0938477    .0303891
   democracy1 |   .0458642   .2817132     0.16   0.871    -.5062836     .598012
   democracy2 |  -.6129819   .3344525    -1.83   0.067    -1.268497    .0425329
     peaceyrs |  -.0035376   .0038328    -0.92   0.356    -.0110498    .0039745
        _cons |  -2.009561   .7633581    -2.63   0.008    -3.505715   -.5134063
------------------------------------------------------------------------------
```

LEADERSHIP FIRC (Nearest Neighbor Matching Run #1)

```
summary(fircmid.out3)

Call:
matchit(formula = abdleaderfirc ~ cap_1 + cap_2 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + peaceyrs, data = fircmid, method = "nearest",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0006     0.0012    0.0017  0.0009   0.0018  0.0201
cap_1               0.0568        0.0408     0.0627    0.0160  0.0006   0.0176  0.1029
cap_2               0.0568        0.0409     0.0627    0.0159  0.0007   0.0176  0.1029
s_wt_glo            0.5526        0.5147     0.3434    0.0380  0.0427   0.0735  0.5771
s_ld_1              0.6638        0.5460     0.2627    0.1178  0.1104   0.1196  0.3968
s_ld_2              0.6638        0.5462     0.2627    0.1176  0.1104   0.1195  0.3968
lndistance          2.7477        5.6195     3.8715   -2.8718  1.1824   2.8850  8.4502
democracy1          0.2353        0.3893     0.4876   -0.1540  0.0000   0.1569  1.0000
democracy2          0.2353        0.3898     0.4877   -0.1545  0.0000   0.1569  1.0000
democracy1_2        0.0196        0.1849     0.3882   -0.1653  0.0000   0.1667  1.0000
peaceyrs           24.9510       31.3718    31.3143   -6.4208  8.0000   7.5784 60.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0023        0.0023     0.0023    0.0000  0.0000   0.0000  0.0000
cap_1               0.0568        0.0489     0.0662    0.0079  0.0046   0.0129  0.0470
cap_2               0.0568        0.0671     0.0819   -0.0103  0.0075   0.0165  0.0777
s_wt_glo            0.5526        0.5995     0.3488   -0.0469  0.1155   0.1123  0.4776
s_ld_1              0.6638        0.6294     0.2619    0.0344  0.0295   0.0564  0.3652
s_ld_2              0.6638        0.6817     0.2558   -0.0178  0.0613   0.0698  0.1772
lndistance          2.7477        2.7611     3.7178   -0.0134  0.0000   0.1729  6.3648
democracy1          0.2353        0.2157     0.4133    0.0196  0.0000   0.0196  1.0000
democracy2          0.2353        0.2549     0.4380   -0.0196  0.0000   0.0196  1.0000
democracy1_2        0.0196        0.0098     0.0990    0.0098  0.0000   0.0098  1.0000
peaceyrs           24.9510       26.3137    24.2818   -1.3627  7.0000   8.3039 35.0000

Percent Balance Improvement:
             Mean Diff.    eQQ Med eQQ Mean eQQ Max
distance         99.9937    99.9975  99.9726 99.9584
cap_1            50.8063  -629.2295  26.7100 54.2896
cap_2            35.4864 -1031.5110   6.0650 24.5142
s_wt_glo        -23.4813  -170.2995 -52.8070 17.2432
s_ld_1           70.8019    73.2570  52.8300  7.9680
s_ld_2           84.8308    44.4307  41.5755 55.3553
lndistance       99.5340   100.0000  94.0064 24.6793
democracy1       87.2702     0.0000  87.5000  0.0000
democracy2       87.3111     0.0000  87.5000  0.0000
democracy1_2     94.0686     0.0000  94.1176  0.0000
peaceyrs         78.7762    12.5000  -9.5731 41.6667

Sample sizes:
          Control Treated
All        165119     102
Matched       102     102
Unmatched  165017       0
Discarded       0       0
```

```
ttest cwinit10, by(abdleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     102    .1176471    .0320591    .3237808    .0540505    .1812436
       1 |     102     .245098    .0428011    .4322695    .1601923    .3300038
---------+--------------------------------------------------------------------
combined |     204    .1813725    .0270446    .3862745    .1280482    .2346969
---------+--------------------------------------------------------------------
    diff |            -.127451    .0534763               -.2328943   -.0220076
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -2.3833
Ho: diff = 0                                     degrees of freedom =      202

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0090         Pr(|T| > |t|) = 0.0181          Pr(T > t) = 0.9910

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

Iteration 0:   log pseudolikelihood = -96.587549
Iteration 1:   log pseudolikelihood = -86.123508
Iteration 2:   log pseudolikelihood = -85.868867
Iteration 3:   log pseudolikelihood =  -85.86823
Iteration 4:   log pseudolikelihood =  -85.86823

Probit regression                                 Number of obs     =        204
                                                  Wald chi2(11)     =      22.93
                                                  Prob > chi2       =     0.0181
Log pseudolikelihood =  -85.86823                 Pseudo R2         =     0.1110

                              (Std. Err. adjusted for 186 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
abdleaderfirc |   .4917495   .2256718     2.18   0.029     .0494409     .934058
        cap_1 |  -.4228822   1.869287    -0.23   0.821    -4.086618    3.240854
        cap_2 |   1.845628   2.362754     0.78   0.435    -2.785285     6.47654
   capshare_1 |   .5517701   .5179104     1.07   0.287    -.4633155    1.566856
     s_wt_glo |  -.2741199   .4053716    -0.68   0.499    -1.068634    .5203938
       s_ld_1 |   .2888363   .6765563     0.43   0.669     -1.03719    1.614862
       s_ld_2 |   .4042305   .7647661     0.53   0.597    -1.094684    1.903145
   lndistance |  -.0628196   .0334667    -1.88   0.061    -.1284131     .002774
   democracy1 |    .282191   .3034407     0.93   0.352    -.3125418    .8769239
   democracy2 |  -.4063732   .3413767    -1.19   0.234    -1.075459    .2627128
     peaceyrs |  -.0103969    .004851    -2.14   0.032    -.0199047   -.0008891
        _cons |  -1.468239      .7096    -2.07   0.039     -2.85903   -.0774487
------------------------------------------------------------------------------
```

LEADERSHIP FIRC (Nearest Neighbor Matching Run #2)

[Matching statistics were lost when R crashed]

```
ttest cwinit10, by(abdleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     102    .1372549    .0342408    .3458156    .0693303    .2051795
       1 |     102     .245098    .0428011    .4322695    .1601923    .3300038
---------+--------------------------------------------------------------------
combined |     204    .1911765    .0275992    .3941951    .1367587    .2455943
---------+--------------------------------------------------------------------
    diff |           -.1078431    .0548121               -.2159204    .0002341
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.9675
Ho: diff = 0                                     degrees of freedom =      202

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0252         Pr(|T| > |t|) = 0.0505          Pr(T > t) = 0.9748

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

Iteration 0:   log pseudolikelihood = -99.536571
Iteration 1:   log pseudolikelihood = -86.803366
Iteration 2:   log pseudolikelihood = -86.261813
Iteration 3:   log pseudolikelihood = -86.260451
Iteration 4:   log pseudolikelihood = -86.260451

Probit regression                               Number of obs     =        204
                                                Wald chi2(11)     =      28.02
                                                Prob > chi2       =     0.0032
Log pseudolikelihood = -86.260451               Pseudo R2         =     0.1334

                              (Std. Err. adjusted for 189 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
abdleaderfirc |   .5075793   .2257932     2.25   0.025     .0650327    .9501258
        cap_1 |    .441956   1.949324     0.23   0.821    -3.378648     4.26256
        cap_2 |    3.21878   2.216038     1.45   0.146    -1.124573    7.562134
   capshare_1 |   .8357859   .5078748     1.65   0.100    -.1596305    1.831202
     s_wt_glo |  -.1516828    .423041    -0.36   0.720    -.9808279    .6774623
       s_ld_1 |   1.863344   .7029175     2.65   0.008     .4856513    3.241037
       s_ld_2 |  -.0341839   .6153763    -0.06   0.956    -1.240299    1.171932
   lndistance |  -.0652075   .0344019    -1.90   0.058    -.1326339    .0022189
   democracy1 |  -.0877608   .2732261    -0.32   0.748    -.6232742    .4477526
   democracy2 |  -.1902479   .3059485    -0.62   0.534    -.7898959    .4094001
     peaceyrs |  -.0074119   .0042353    -1.75   0.080    -.0157128    .0008891
        _cons |  -2.632824   .6915144    -3.81   0.000    -3.988167    -1.27748
------------------------------------------------------------------------------
```

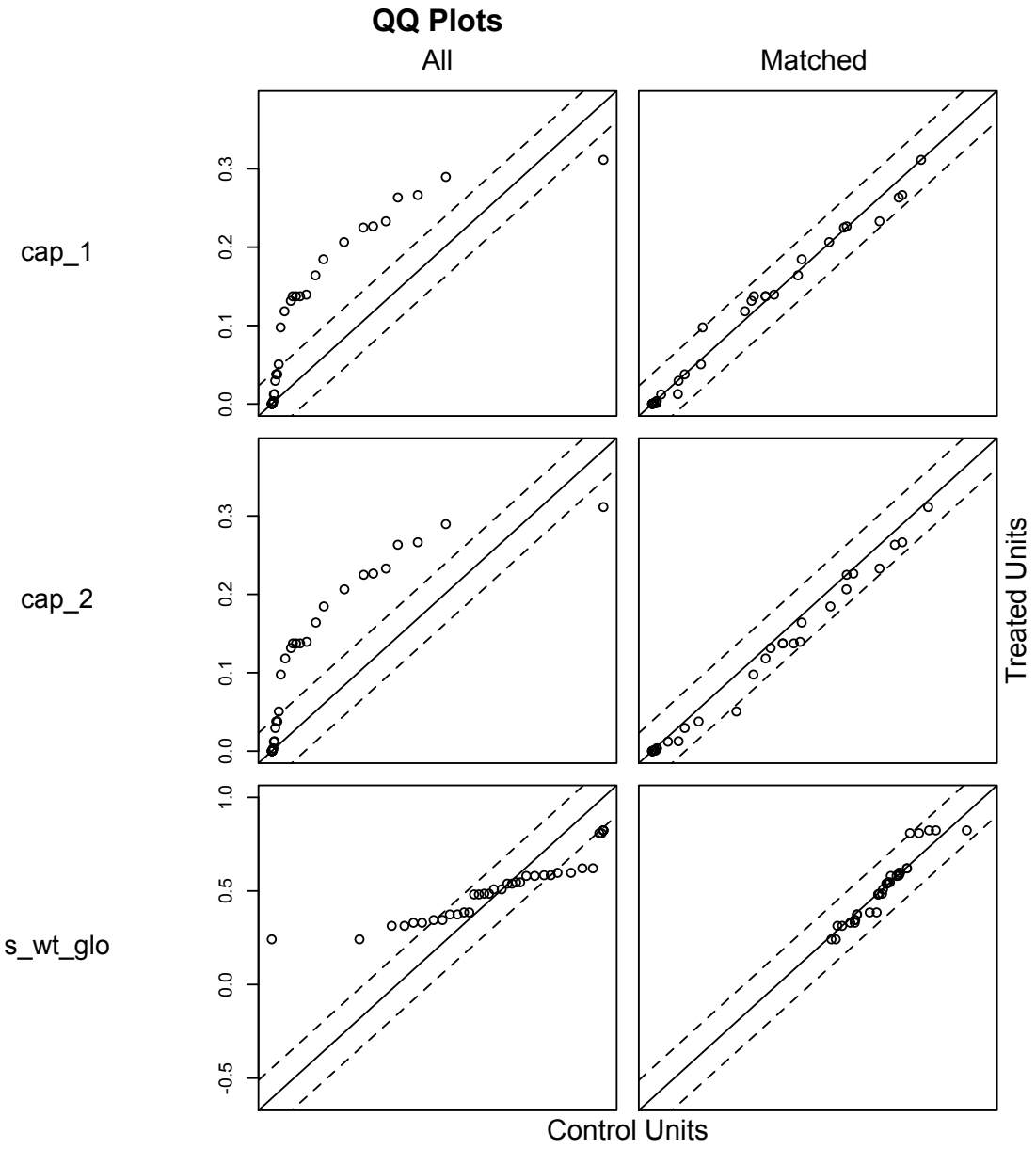
LEADERSHIP FIRC (Nearest Neighbor Matching Run #3)

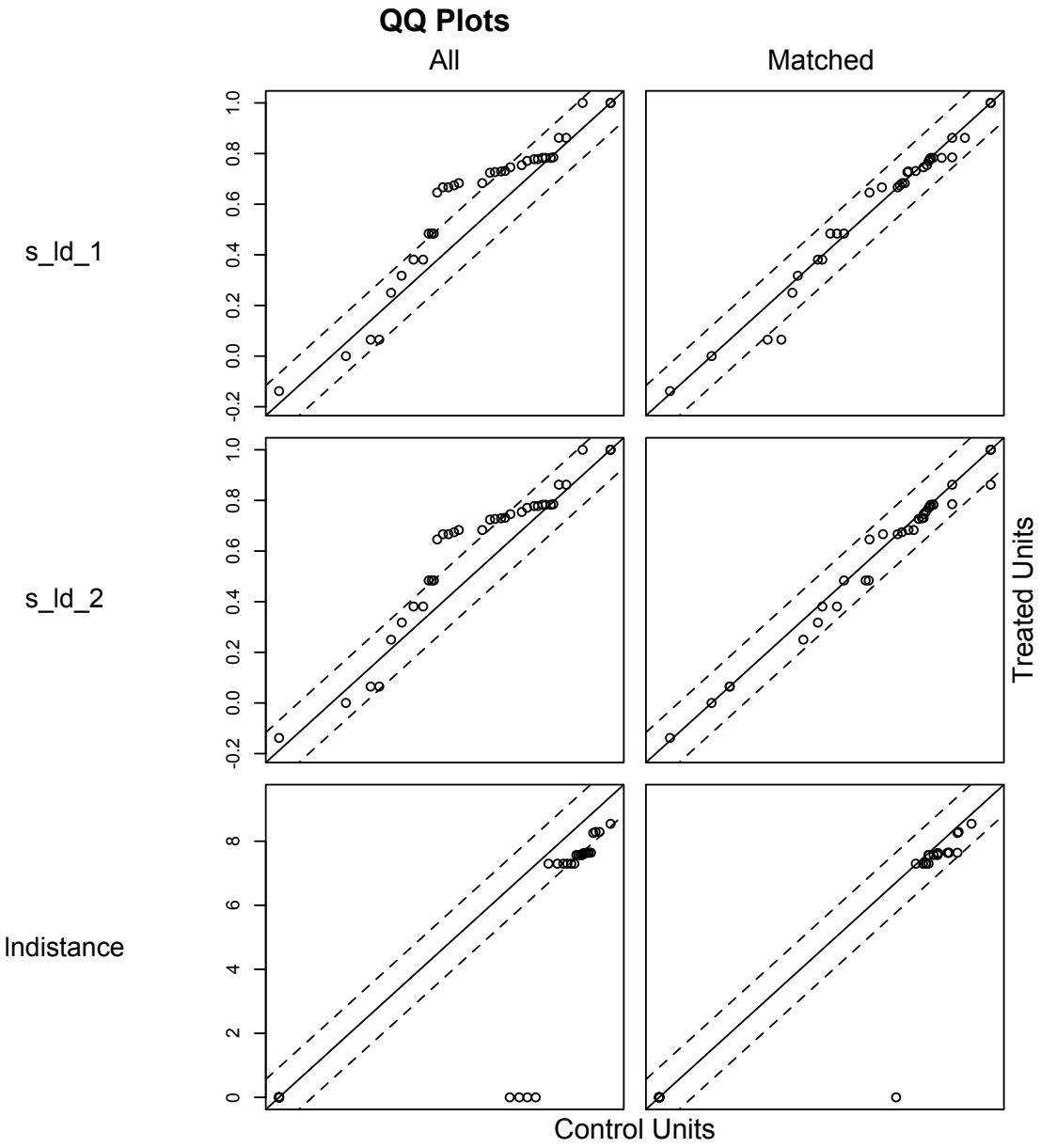
```
summary(fircmid.out2)

Call:
matchit(formula = abdleaderfirc ~ cap_1 + cap_2 + s_wt_glo +
    s_ld_1 + s_ld_2 + lndistance + democracy1 + democracy2 +
    democracy1_2 + allydum + peaceyrs, data = fircmid, method = "nearest",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0022        0.0006     0.0012    0.0016  0.0013   0.0018  0.0231
cap_1               0.0568        0.0408     0.0627    0.0160  0.0006   0.0176  0.1029
cap_2               0.0568        0.0409     0.0627    0.0159  0.0007   0.0176  0.1029
s_wt_glo            0.5526        0.5147     0.3434    0.0380  0.0427   0.0735  0.5771
s_ld_1              0.6638        0.5460     0.2627    0.1178  0.1104   0.1196  0.3968
s_ld_2              0.6638        0.5462     0.2627    0.1176  0.1104   0.1195  0.3968
lndistance          2.7477        5.6195     3.8715   -2.8718  1.1824   2.8850  8.4502
democracy1          0.2353        0.3893     0.4876   -0.1540  0.0000   0.1569  1.0000
democracy2          0.2353        0.3898     0.4877   -0.1545  0.0000   0.1569  1.0000
democracy1_2        0.0196        0.1849     0.3882   -0.1653  0.0000   0.1667  1.0000
allydum             0.2549        0.1522     0.3592    0.1027  0.0000   0.0980  1.0000
peaceyrs           24.9510       31.3718    31.3143   -6.4208  8.0000   7.5784 60.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0022        0.0022     0.0021    0.0000  0.0000   0.0000  0.0000
cap_1               0.0568        0.0590     0.0780   -0.0022  0.0034   0.0094  0.0705
cap_2               0.0568        0.0587     0.0885   -0.0019  0.0026   0.0131  0.1028
s_wt_glo            0.5526        0.5039     0.3988    0.0487  0.1011   0.1172  0.4348
s_ld_1              0.6638        0.6731     0.2550   -0.0092  0.0507   0.0586  0.3252
s_ld_2              0.6638        0.6776     0.2392   -0.0138  0.0438   0.0537  0.1503
lndistance          2.7477        2.9477     3.8756   -0.2000  0.0000   0.2268  6.1463
democracy1          0.2353        0.2941     0.4579   -0.0588  0.0000   0.0588  1.0000
democracy2          0.2353        0.1765     0.3831    0.0588  0.0000   0.0588  1.0000
democracy1_2        0.0196        0.0098     0.0990    0.0098  0.0000   0.0098  1.0000
allydum             0.2549        0.1961     0.3990    0.0588  0.0000   0.0588  1.0000
peaceyrs           24.9510       28.3039    27.5881   -3.3529  7.0000   7.6863 35.0000

Percent Balance Improvement:
             Mean Diff.   eQQ Med eQQ Mean eQQ Max
distance         99.9958   99.9986  99.9850 99.9773
cap_1            86.3396 -439.5552  46.5929 31.4980
cap_2            88.1698 -297.3424  25.5151  0.1282
s_wt_glo        -28.3311 -136.5659 -59.4764 24.6601
s_ld_1           92.1488   54.1085  51.0099 18.0507
s_ld_2           88.2975   60.2970  55.0555 62.1337
lndistance       93.0356  100.0000  92.1395 27.2641
democracy1       61.8106    0.0000  62.5000  0.0000
democracy2       61.9334    0.0000  62.5000  0.0000
democracy1_2     94.0686    0.0000  94.1176  0.0000
allydum          42.7413    0.0000  40.0000  0.0000
peaceyrs         47.7803   12.5000  -1.4230 41.6667

Sample sizes:
          Control Treated
All        165119     102
Matched       102     102
Unmatched  165017       0
Discarded       0       0
```

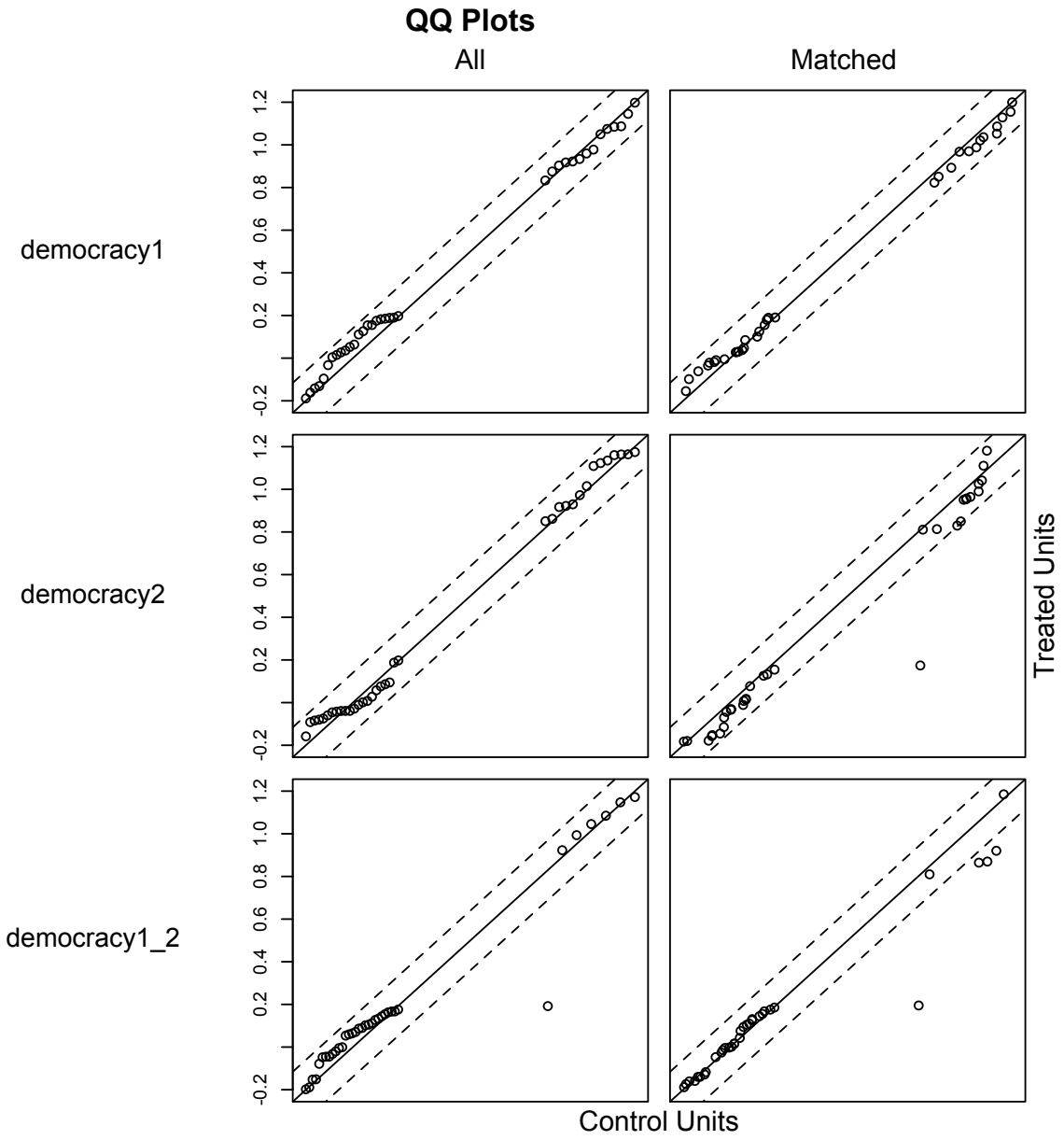
```
ttest cwinit10, by(abdleaderfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |     102     .127451    .0331822    .3351243    .0616263    .1932756
       1 |     102     .245098    .0428011    .4322695    .1601923    .3300038
---------+--------------------------------------------------------------------
combined |     204    .1862745    .0273255    .3902858    .1323964    .2401527
---------+--------------------------------------------------------------------
    diff |           -.1176471    .0541571               -.2244328   -.0108613
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -2.1723
Ho: diff = 0                                     degrees of freedom =      202

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0155         Pr(|T| > |t|) = 0.0310          Pr(T > t) = 0.9845


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

Iteration 0:   log pseudolikelihood = -98.078232
Iteration 1:   log pseudolikelihood =  -85.13408
Iteration 2:   log pseudolikelihood = -84.702307
Iteration 3:   log pseudolikelihood =  -84.70074
Iteration 4:   log pseudolikelihood =  -84.70074

Probit regression                               Number of obs     =        204
                                                Wald chi2(11)     =      28.36
                                                Prob > chi2       =     0.0029
Log pseudolikelihood =  -84.70074               Pseudo R2         =     0.1364

                              (Std. Err. adjusted for 186 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
     cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
abdleaderfirc |     .55936   .2329588     2.40   0.016     .1027693    1.015951
        cap_1 |   1.183615   1.913567     0.62   0.536    -2.566907    4.934138
        cap_2 |   4.651417   2.308271     2.02   0.044     .1272878    9.175545
   capshare_1 |   .9368232   .4944477     1.89   0.058    -.0322764    1.905923
     s_wt_glo |  -.4661203   .4371696    -1.07   0.286    -1.322957    .3907163
       s_ld_1 |   1.325545   .6130302     2.16   0.031     .1240284    2.527063
       s_ld_2 |  -.3090074   .6589591    -0.47   0.639    -1.600543    .9825286
   lndistance |  -.0537959   .0343187    -1.57   0.117    -.1210594    .0134675
   democracy1 |  -.4820539   .2639714    -1.83   0.068    -.9994285    .0353206
   democracy2 |  -.1861194   .3367242    -0.55   0.580    -.8460867    .4738478
     peaceyrs |  -.0065486    .004643    -1.41   0.158    -.0156488    .0025516
        _cons |  -2.082095   .7771489    -2.68   0.007    -3.605278   -.5589108
------------------------------------------------------------------------------
```

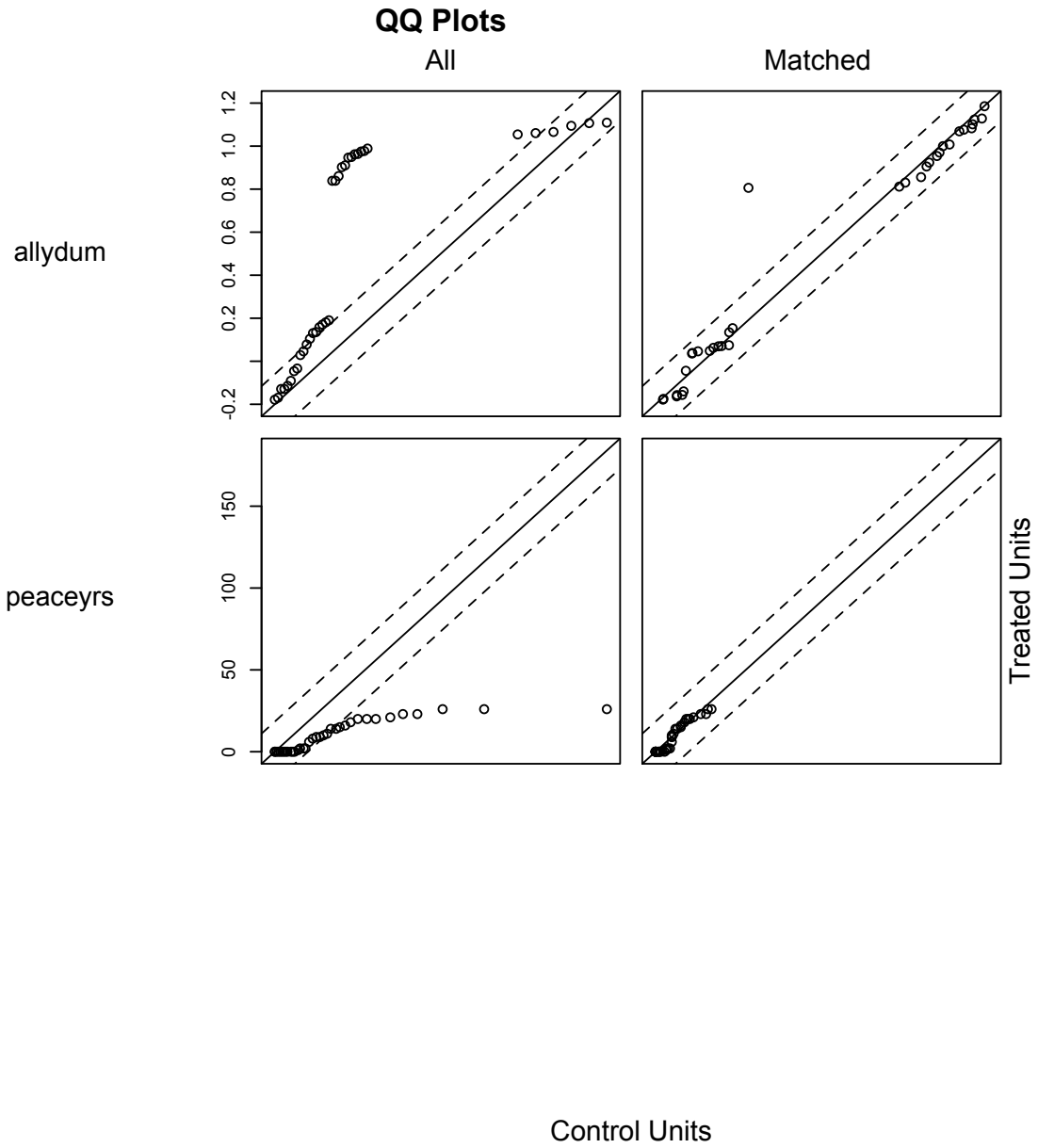
INSTITUTIONAL FIRC, GENETIC MATCHING

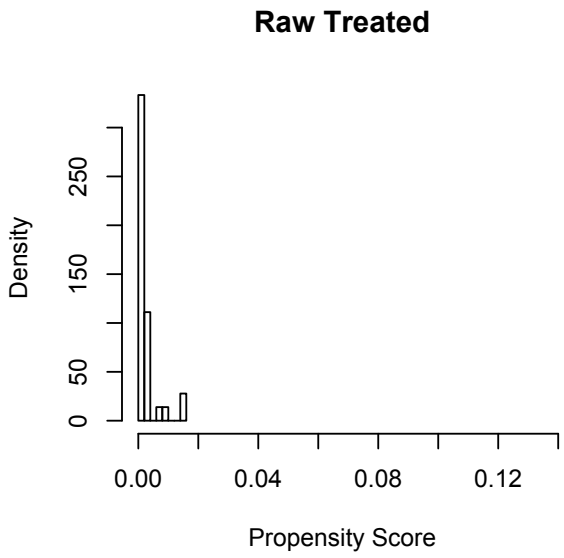
```
summary(fircmid.out1)

Call:
matchit(formula = abdinstfirc ~ cap_1 + cap_2 + s_wt_glo + s_ld_1 +
    s_ld_2 + lndistance + democracy1 + democracy2 + democracy1_2 +
    allydum + peaceyrs, data = fircmid, method = "genetic", pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean  eQQ Max
distance            0.0026        0.0002     0.0013    0.0023  0.0010   0.0054   0.1210
cap_1               0.0961        0.0408     0.0627    0.0553  0.0376   0.0541   0.1247
cap_2               0.0961        0.0409     0.0627    0.0552  0.0375   0.0540   0.1242
s_wt_glo            0.5216        0.5147     0.3433    0.0069  0.1446   0.1637   0.8493
s_ld_1              0.6219        0.5461     0.2626    0.0758  0.0741   0.0938   0.2671
s_ld_2              0.6219        0.5463     0.2626    0.0756  0.0739   0.0937   0.2671
lndistance          4.2573        5.6180     3.8721   -1.3608  0.8191   1.2638   7.2710
democracy1          0.3889        0.3892     0.4876   -0.0003  0.0000   0.0000   0.0000
democracy2          0.3889        0.3897     0.4877   -0.0008  0.0000   0.0000   0.0000
democracy1_2        0.1667        0.1848     0.3881   -0.0181  0.0000   0.0278   1.0000
allydum             0.5000        0.1522     0.3592    0.3478  0.0000   0.3333   1.0000
peaceyrs            9.5000       31.3726    31.3165  -21.8726 14.5000  23.9444 158.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0026        0.0025     0.0037    0.0000  0.0001   0.0004  0.0062
cap_1               0.0961        0.0972     0.1022   -0.0011  0.0019   0.0069  0.0391
cap_2               0.0961        0.0988     0.1044   -0.0027  0.0073   0.0109  0.0470
s_wt_glo            0.5216        0.5193     0.1473    0.0024  0.0113   0.0313  0.1665
s_ld_1              0.6219        0.6139     0.2744    0.0080  0.0101   0.0270  0.1851
s_ld_2              0.6219        0.6271     0.2847   -0.0052  0.0125   0.0279  0.1379
lndistance          4.2573        4.3615     3.9774   -0.1042  0.0630   0.3566  6.7117
democracy1          0.3889        0.3889     0.4948    0.0000  0.0000   0.0000  0.0000
democracy2          0.3889        0.3889     0.4948    0.0000  0.0000   0.0294  1.0000
democracy1_2        0.1667        0.1667     0.3783    0.0000  0.0000   0.0294  1.0000
allydum             0.5000        0.4722     0.5067    0.0278  0.0000   0.0294  1.0000
peaceyrs            9.5000        9.7778     9.0063   -0.2778  2.0000   2.0882  6.0000

Percent Balance Improvement:
             Mean Diff. eQQ Med eQQ Mean eQQ Max
distance        99.0683 92.3850  91.6610 94.8691
cap_1           98.0513 94.9819  87.2020 68.6637
cap_2           95.0777 80.5505  79.7801 62.1429
s_wt_glo        65.9899 92.1728  80.8639 80.3909
s_ld_1          89.4003 86.3495  71.1694 30.7236
s_ld_2          93.0703 83.1055  70.1801 48.3675
lndistance      92.3416 92.3060  71.7861  7.6918
democracy1     100.0000  0.0000   0.0000  0.0000
democracy2     100.0000  0.0000     -Inf    -Inf
democracy1_2   100.0000  0.0000  -5.8824  0.0000
allydum         92.0143  0.0000  91.1765  0.0000
peaceyrs        98.7300 86.2069  91.2788 96.2025

Sample sizes:
          Control Treated
All        165185      36
Matched        34      36
Unmatched  165151       0
Discarded       0       0
```

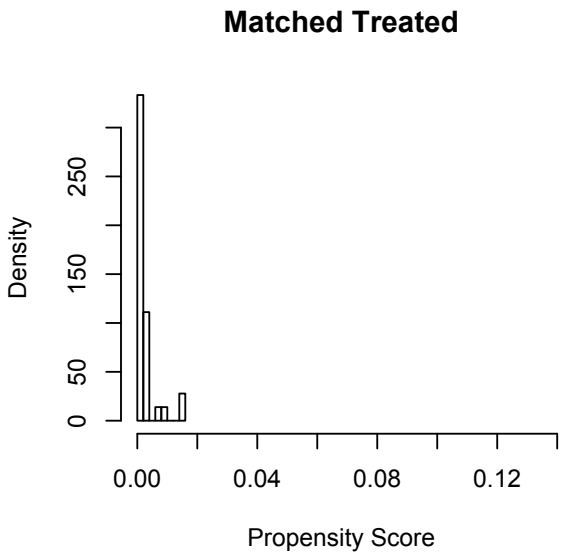

QQ Plots
All
Matched
cap_1
cap_2
s_wt_glo
0.0
0.1
0.2
0.3
-0.5
0.0
0.5
1.0
Treated Units
Control Units

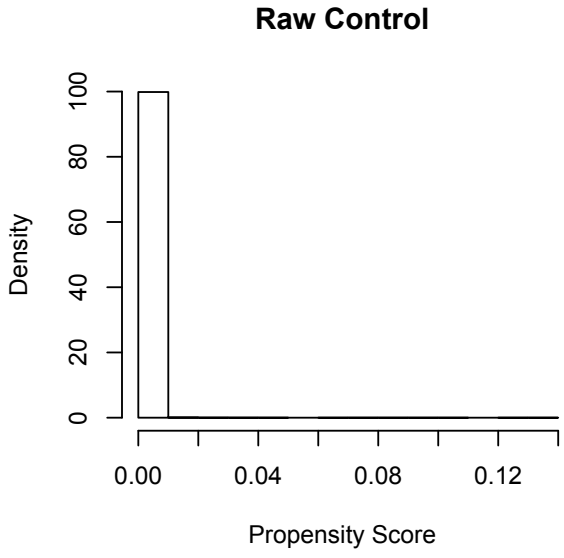

QQ Plots
All
Matched
s_ld_1
s_ld_2
ldistance
Treated Units
Control Units
-0.2
0.0
0.2
0.4
0.6
0.8
1.0
0
2
4
6
8

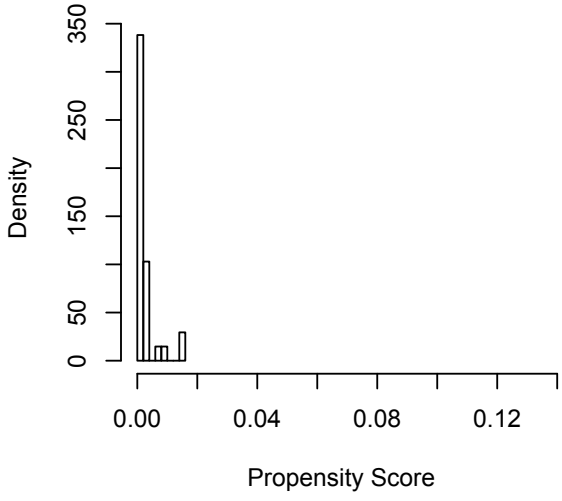

QQ Plots
All
Matched
democracy1
democracy2
democracy1_2
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
Treated Units
Control Units


QQ Plots
All
Matched
allydum
peaceyrs
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
Treated Units
Control Units


Raw Treated
Density
0
50
150
250
0.00
0.04
0.08
0.12
Propensity Score


Matched Treated
Density
0
50
150
250
0.00
0.04
0.08
0.12
Propensity Score

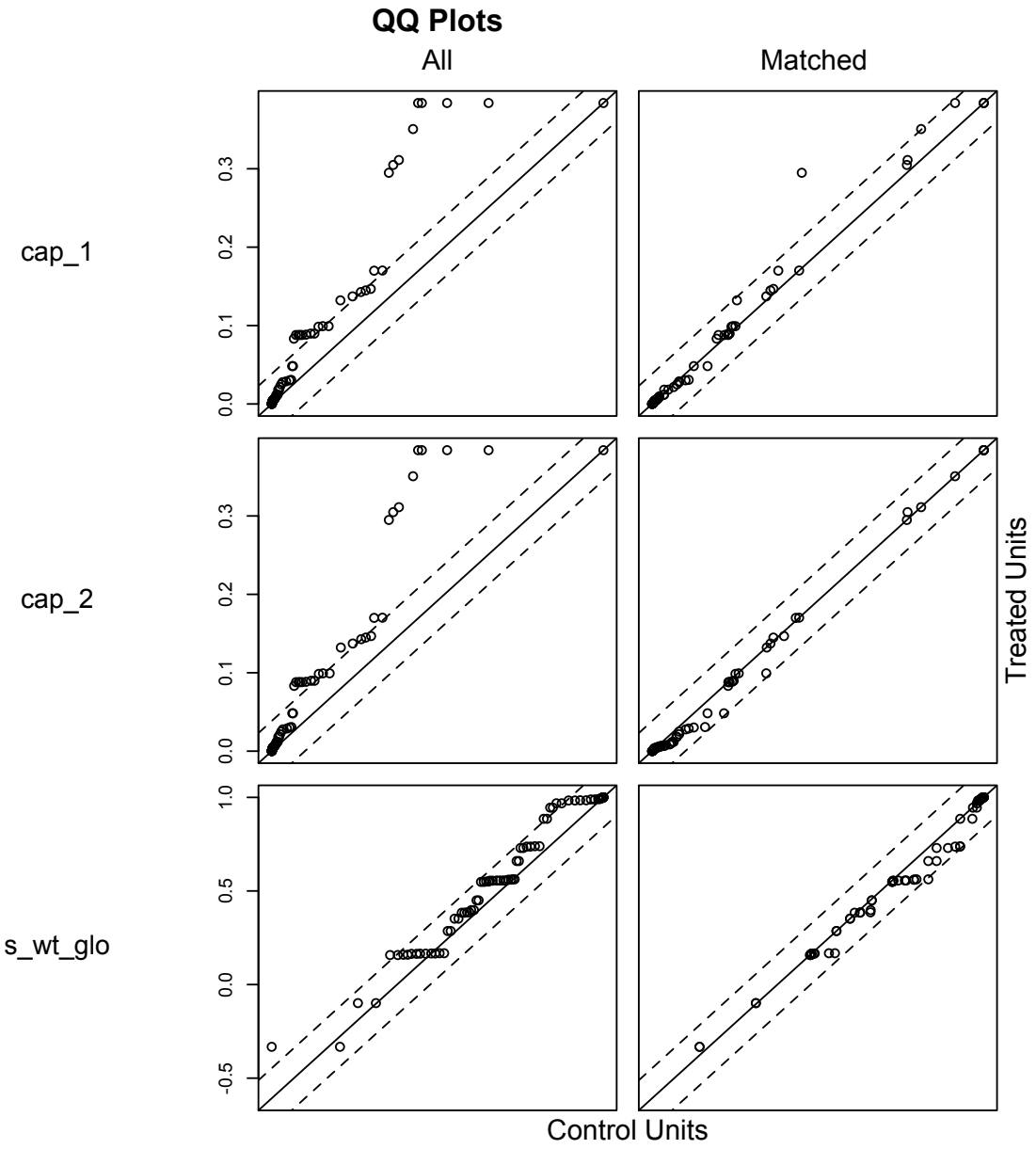

Raw Control
Density
0
20
40
60
80
100
0.00
0.04
0.08
0.12
Propensity Score

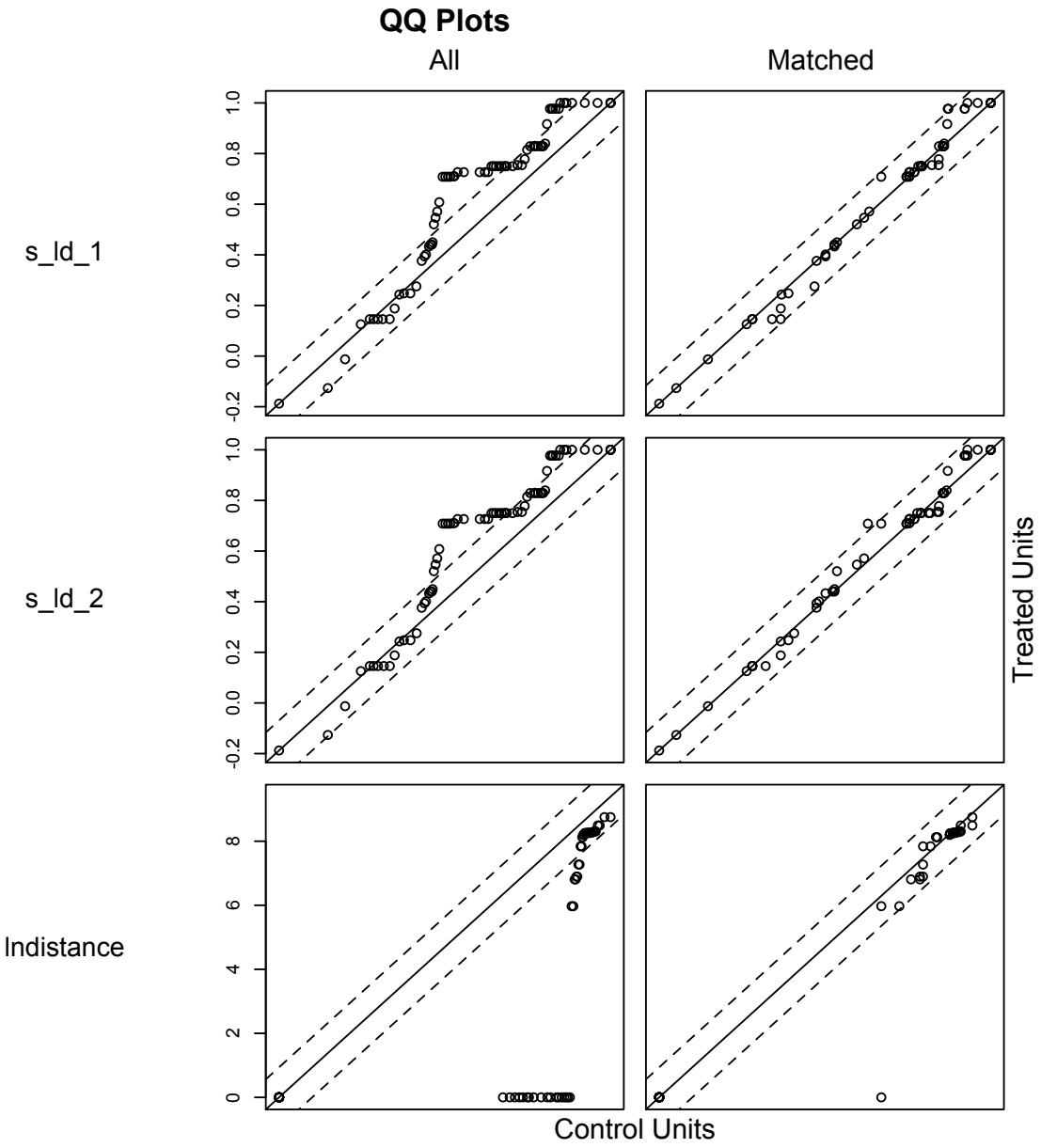

Matched Control
Density
0
50
150
250
350
0.00
0.04
0.08
0.12
Propensity Score

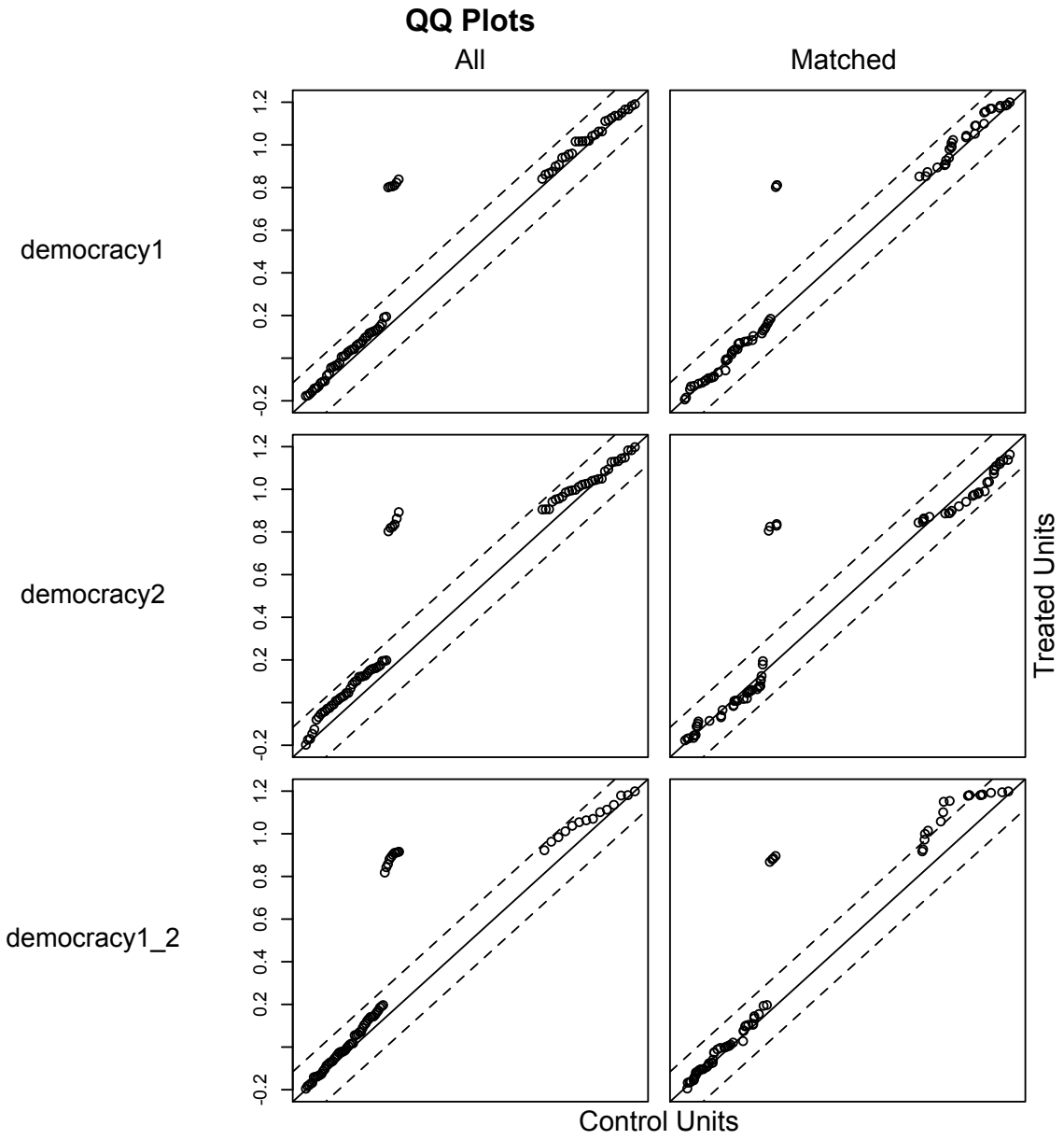
```
ttest cwinit10, by(abdinstfirc)

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

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

Iteration 0:   log pseudolikelihood = -28.708142
Iteration 1:   log pseudolikelihood = -20.422069
Iteration 2:   log pseudolikelihood = -19.380233
Iteration 3:   log pseudolikelihood = -19.247309
Iteration 4:   log pseudolikelihood = -19.235609
Iteration 5:   log pseudolikelihood = -19.235504
Iteration 6:   log pseudolikelihood = -19.235504

Probit regression                               Number of obs     =         70
                                                Wald chi2(11)     =      29.26
                                                Prob > chi2       =     0.0021
Log pseudolikelihood = -19.235504               Pseudo R2         =     0.3300

                              (Std. Err. adjusted for 60 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 abdinstfirc |    .072673   .4372113     0.17   0.868    -.7842453    .9295913
       cap_1 |  -10.45285    5.68445    -1.84   0.066    -21.59417      .68847
       cap_2 |  -1.653072     5.7404    -0.29   0.773    -12.90405    9.597906
  capshare_1 |   2.223831   1.363484     1.63   0.103    -.4485486    4.896211
    s_wt_glo |  -1.198668   1.156793    -1.04   0.300    -3.465942    1.068605
      s_ld_1 |  -2.709787   1.204768    -2.25   0.024    -5.071089   -.3484854
      s_ld_2 |   3.319669   1.550919     2.14   0.032     .2799239    6.359414
  lndistance |   .1151854   .1227479     0.94   0.348     -.125396    .3557668
  democracy1 |  -1.253739   .8359053    -1.50   0.134    -2.892083    .3846056
  democracy2 |  -2.024214   1.162023    -1.74   0.082    -4.301736    .2533093
    peaceyrs |  -.0263748   .0229206    -1.15   0.250    -.0712984    .0185489
       _cons |  -.4354364    1.60849    -0.27   0.787    -3.588019    2.717146
------------------------------------------------------------------------------
Note: 3 failures and 0 successes completely determined.
```

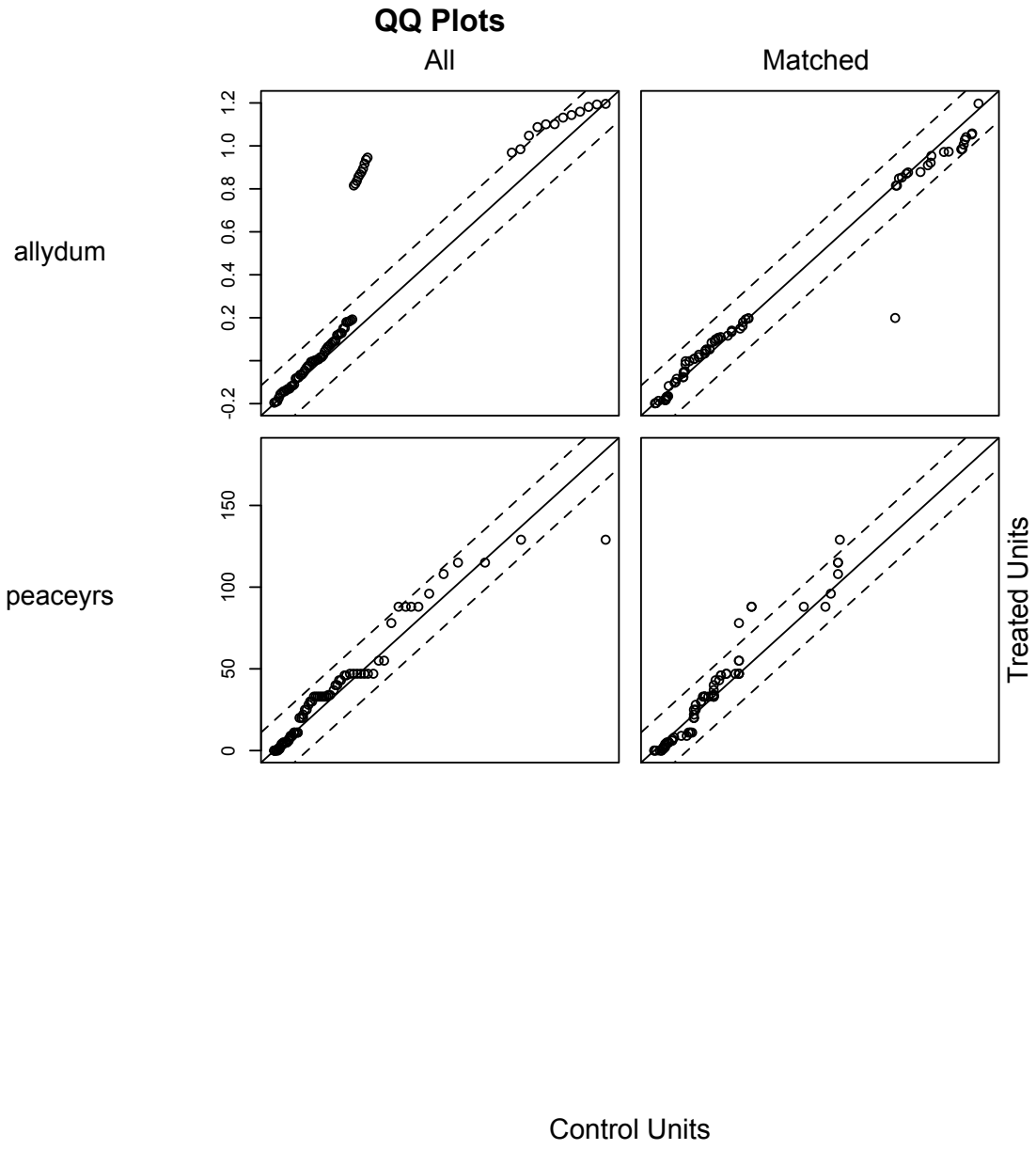
RESTORATION FIRC, GENETIC MATCHING

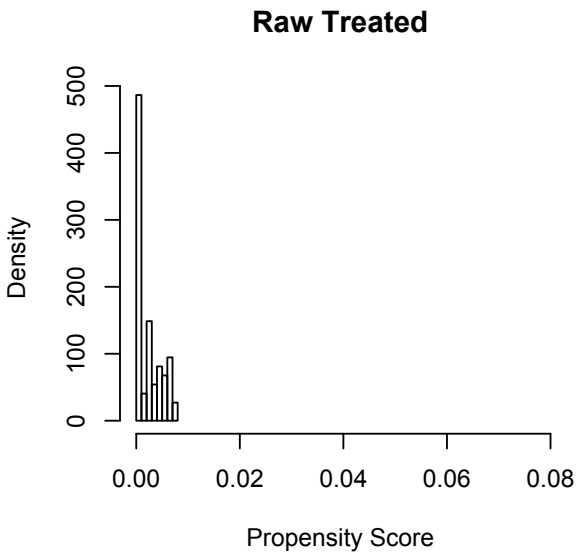
```
summary(restfircmid.out1)

Call:
matchit(formula = abdrestfirc ~ cap_1 + cap_2 + s_wt_glo + s_ld_1 +
    s_ld_2 + lndistance + democracy1 + democracy2 + democracy1_2 +
    allydum + peaceyrs, data = restfircmid, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0024        0.0004     0.0013    0.0019  0.0014   0.0029  0.0715
cap_1               0.0766        0.0408     0.0626    0.0359  0.0059   0.0334  0.2144
cap_2               0.0766        0.0409     0.0627    0.0357  0.0058   0.0333  0.2144
s_wt_glo            0.5756        0.5146     0.3434    0.0610  0.0572   0.0710  0.2751
s_ld_1              0.6499        0.5460     0.2626    0.1039  0.1025   0.1170  0.3100
s_ld_2              0.6499        0.5462     0.2626    0.1037  0.1022   0.1170  0.3100
lndistance          3.4119        5.6208     3.8712   -2.2088  0.5325   2.1616  8.2396
democracy1          0.4730        0.3893     0.4876    0.0837  0.0000   0.0811  1.0000
democracy2          0.4730        0.3898     0.4877    0.0832  0.0000   0.0811  1.0000
democracy1_2        0.3243        0.1848     0.3882    0.1395  0.0000   0.1351  1.0000
allydum             0.2973        0.1520     0.3590    0.1453  0.0000   0.1351  1.0000
peaceyrs           34.7162       31.3747    31.3149    3.3415  4.0000   5.5676 55.0000


Summary of balance for matched data:
             Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance            0.0024        0.0024     0.0023    0.0000  0.0001   0.0002  0.0012
cap_1               0.0766        0.0770     0.1138   -0.0004  0.0008   0.0060  0.1216
cap_2               0.0766        0.0780     0.1137   -0.0014  0.0011   0.0048  0.0349
s_wt_glo            0.5756        0.5803     0.3620   -0.0047  0.0075   0.0306  0.1690
s_ld_1              0.6499        0.6471     0.3047    0.0028  0.0011   0.0198  0.1309
s_ld_2              0.6499        0.6447     0.3015    0.0052  0.0045   0.0208  0.1483
lndistance          3.4119        3.5655     4.0276   -0.1536  0.0000   0.1883  6.2934
democracy1          0.4730        0.4730     0.5030    0.0000  0.0000   0.0441  1.0000
democracy2          0.4730        0.4595     0.5021    0.0135  0.0000   0.0588  1.0000
democracy1_2        0.3243        0.3243     0.4716    0.0000  0.0000   0.0588  1.0000
allydum             0.2973        0.2973     0.4605    0.0000  0.0000   0.0147  1.0000
peaceyrs           34.7162       32.8378    27.3526    1.8784  4.0000   5.9118 34.0000

Percent Balance Improvement:
             Mean Diff.  eQQ Med eQQ Mean eQQ Max
distance        98.3400  92.1672  92.2370 98.2726
cap_1           98.8650  85.7700  81.9708 43.2963
cap_2           96.1378  81.8423  85.4270 83.7053
s_wt_glo        92.2502  86.9295  56.9169 38.5683
s_ld_1          97.2743  98.9560  83.0842 57.7822
s_ld_2          95.0351  95.6287  82.2001 52.1443
lndistance      93.0481 100.0000  91.2905 23.6198
democracy1     100.0000   0.0000  45.5882  0.0000
democracy2      83.7559   0.0000  27.4510  0.0000
democracy1_2   100.0000   0.0000  56.4706  0.0000
allydum        100.0000   0.0000  89.1176  0.0000
peaceyrs        43.7860   0.0000  -6.1822 38.1818

Sample sizes:
          Control Treated
All        165015      74
Matched        68      74
Unmatched  164947       0
Discarded       0       0
```

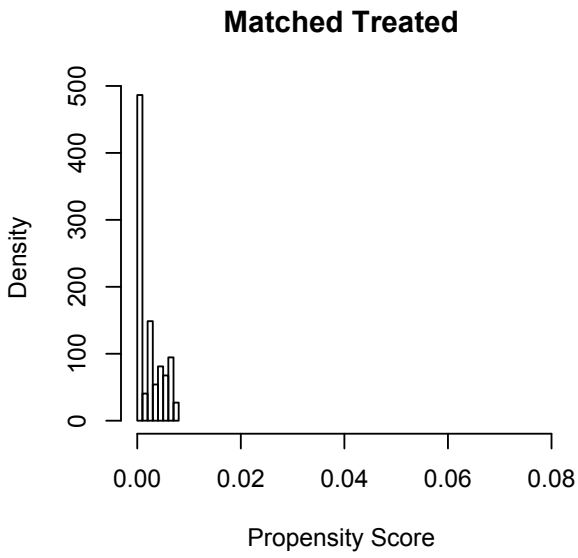

QQ Plots
All
Matched
cap_1
cap_2
s_wt_glo
0.0
0.1
0.2
0.3
-0.5
0.0
0.5
1.0
Treated Units
Control Units

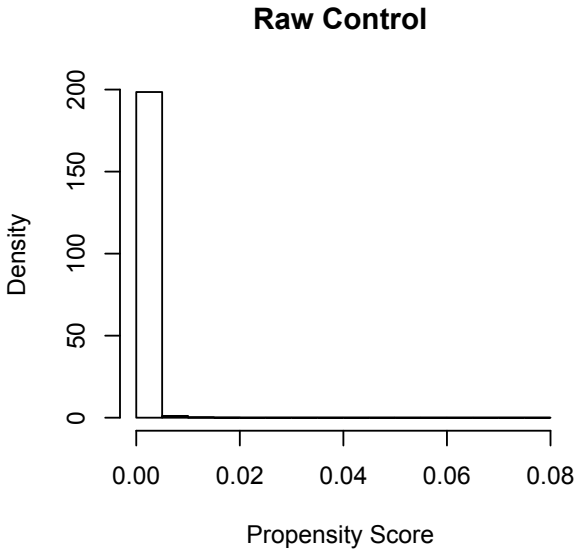

QQ Plots
All
Matched
s_ld_1
s_ld_2
ldistance
Treated Units
Control Units
-0.2
0.0
0.2
0.4
0.6
0.8
1.0
0
2
4
6
8

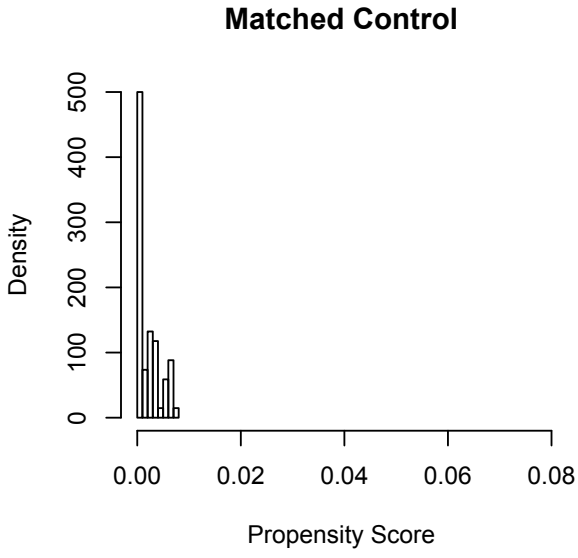

QQ Plots
All
Matched
democracy1
democracy2
democracy1_2
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2


QQ Plots
All
Matched
allydum
peaceyrs
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
Treated Units
Control Units


Raw Treated
Density
0
100
200
300
400
500
0.00
0.02
0.04
0.06
0.08
Propensity Score


Matched Treated
Density
0
100
200
300
400
500
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
500
0.00
0.02
0.04
0.06
0.08
Propensity Score

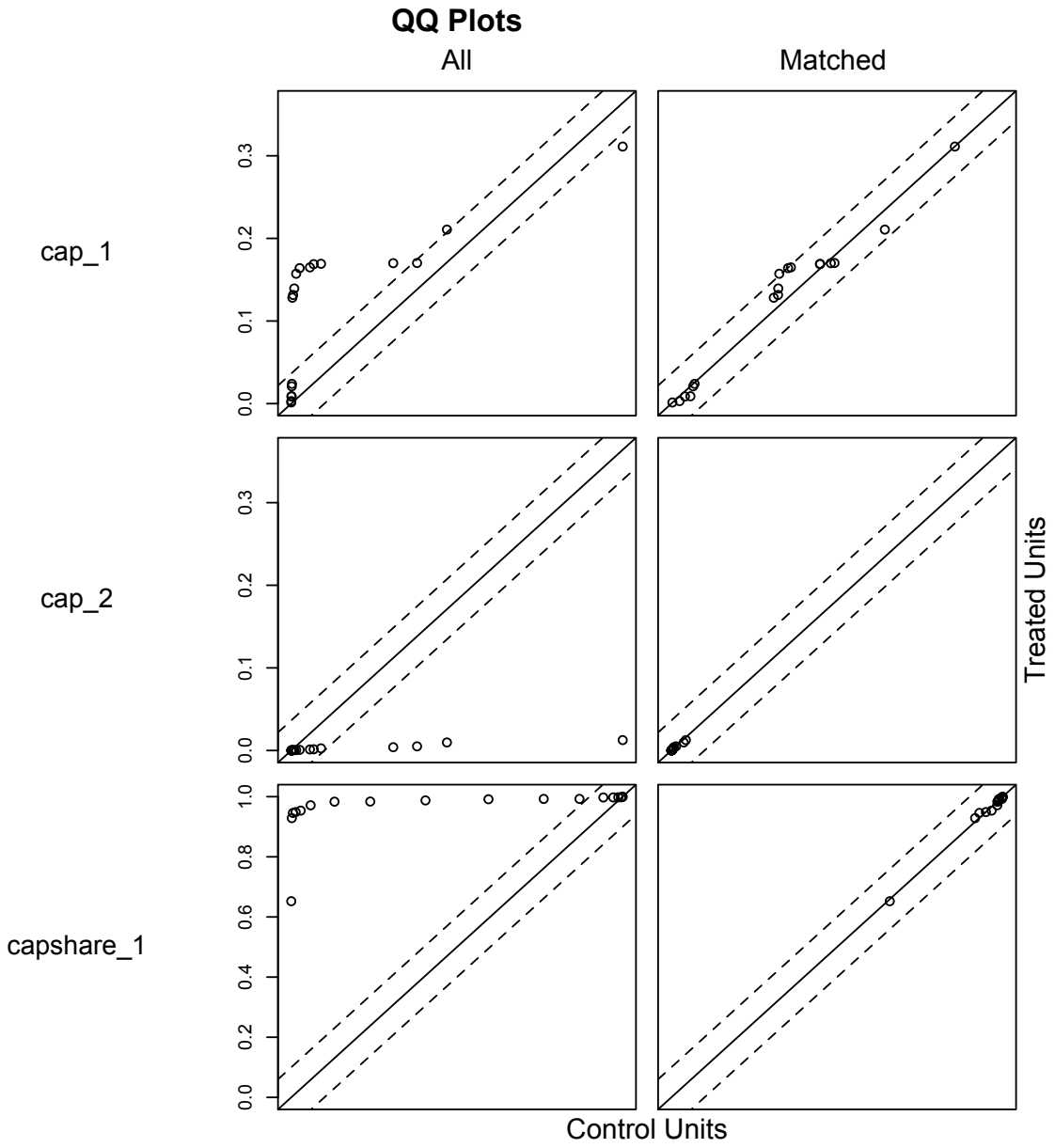
```
ttest cwinit10, by(abdrestfirc)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      68    .1029412    .0371251    .3061414    .0288392    .1770432
       1 |      74    .0135135    .0135135    .1162476   -.0134189    .0404459
---------+--------------------------------------------------------------------
combined |     142     .056338    .0194178    .2313895    .0179504    .0947256
---------+--------------------------------------------------------------------
    diff |            .0894277    .0382697                .0137665    .1650888
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   2.3368
Ho: diff = 0                     degrees of freedom =      140

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9896         Pr(|T| > |t|) = 0.0209          Pr(T > t) = 0.0104

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

Iteration 0:   log pseudolikelihood = -30.781377
Iteration 1:   log pseudolikelihood = -22.550476
Iteration 2:   log pseudolikelihood = -19.945993
Iteration 3:   log pseudolikelihood = -19.441511
Iteration 4:   log pseudolikelihood = -19.379003
Iteration 5:   log pseudolikelihood = -19.375978
Iteration 6:   log pseudolikelihood = -19.375973
Iteration 7:   log pseudolikelihood = -19.375973

Probit regression                               Number of obs     =        142
                                                Wald chi2(11)     =      33.51
                                                Prob > chi2       =     0.0004
Log pseudolikelihood = -19.375973               Pseudo R2         =     0.3705

                              (Std. Err. adjusted for 126 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
    cwinit10 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
 abdrestfirc |  -1.361431   .4940809    -2.76   0.006    -2.329812   -.3930504
       cap_1 |  -.4744742   2.245105    -0.21   0.833      -4.8748    3.925851
       cap_2 |  -7.692977   7.173578    -1.07   0.284    -21.75293    6.366978
  capshare_1 |   1.646083   .7410819     2.22   0.026     .1935894    3.098577
    s_wt_glo |   .5964414   .7846202     0.76   0.447    -.9413859    2.134269
      s_ld_1 |    -2.4287   1.248086    -1.95   0.052    -4.874903    .0175041
      s_ld_2 |   2.991887   1.570571     1.90   0.057    -.0863752    6.070149
  lndistance |  -.0778133    .071812    -1.08   0.279    -.2185621    .0629356
  democracy1 |  -.1681526   .5364635    -0.31   0.754    -1.219602    .8832966
  democracy2 |  -.3141034   .3852739    -0.82   0.415    -1.069226    .4410195
    peaceyrs |   -.025451   .0141382    -1.80   0.072    -.0531614    .0022595
       _cons |  -2.114229   .9489513    -2.23   0.026    -3.974139   -.2543182
------------------------------------------------------------------------------
Note: 16 failures and 0 successes completely determined.
```

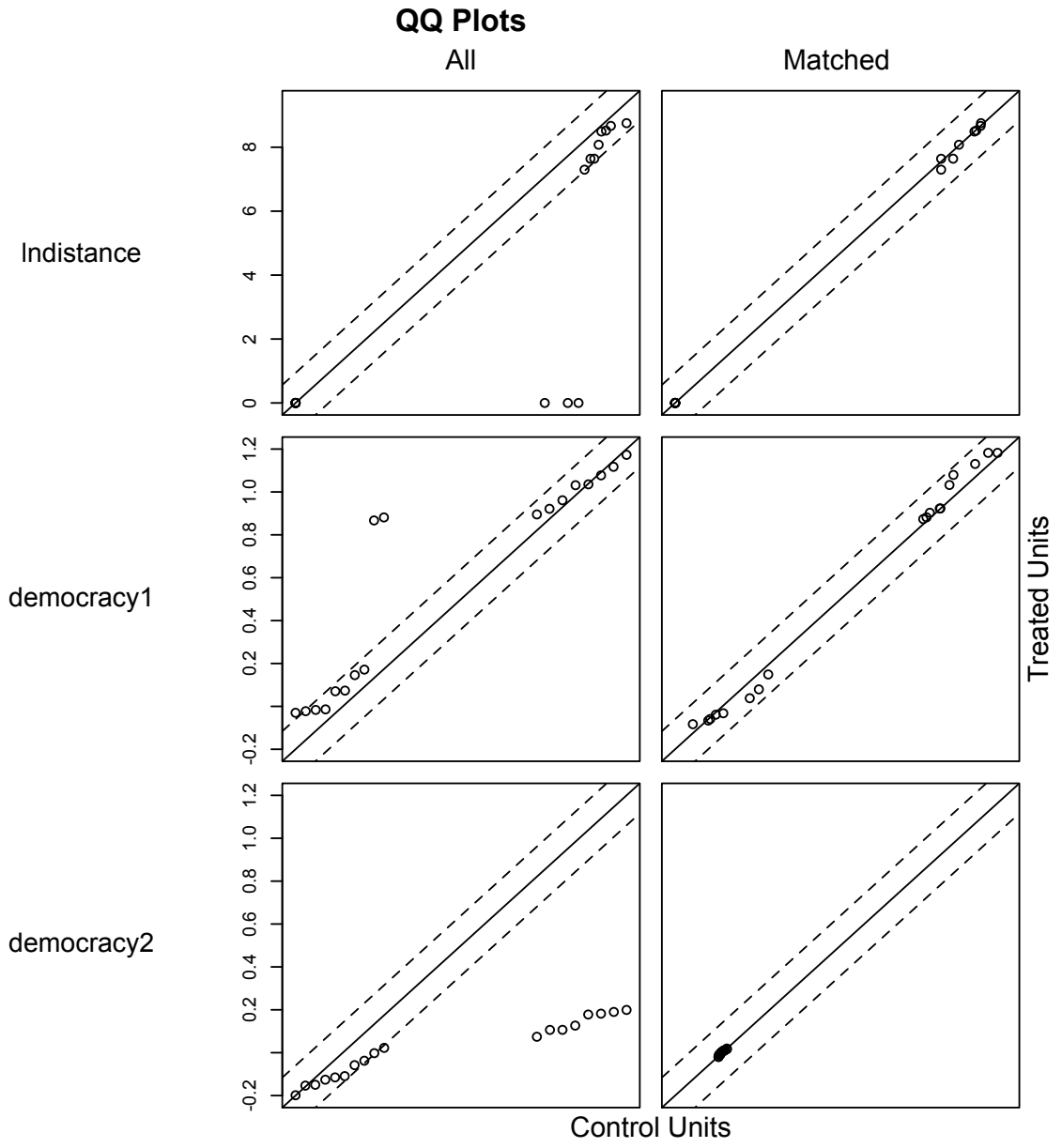
II. FOREIGN-IMPOSED REGIME CHANGE AND UNITED NATIONS GENERAL ASSEMBLY (UNGA) DYADIC AFFINITY SCORES (GENETIC MATCHING, TWO CATEGORY VOTE DATA): FIGURE 5.7

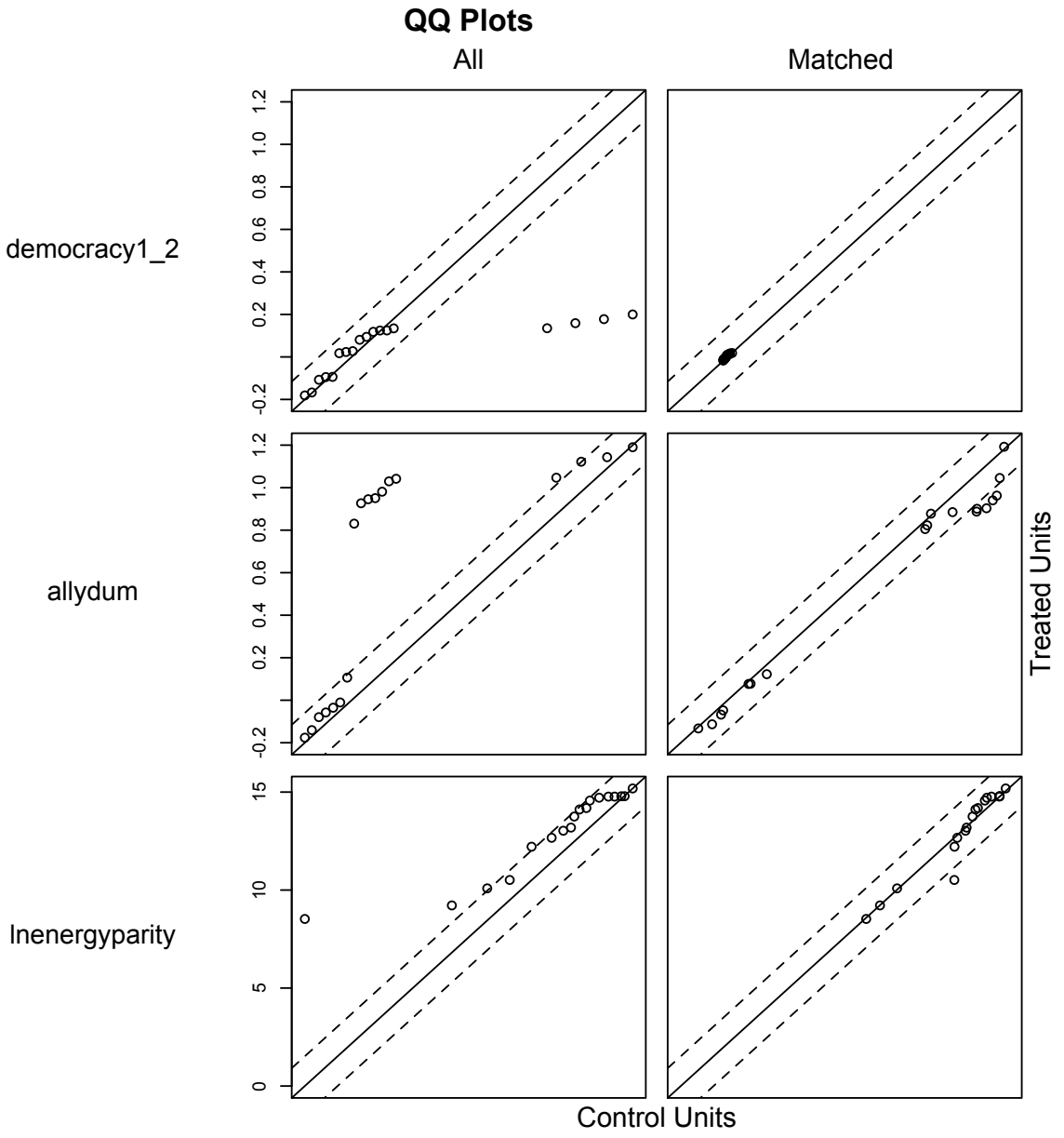
DV = DIFFERENCE IN UNGA DYADIC AFFINITY SCORE FROM YEAR OF FIRC TO TEN YEARS LATER

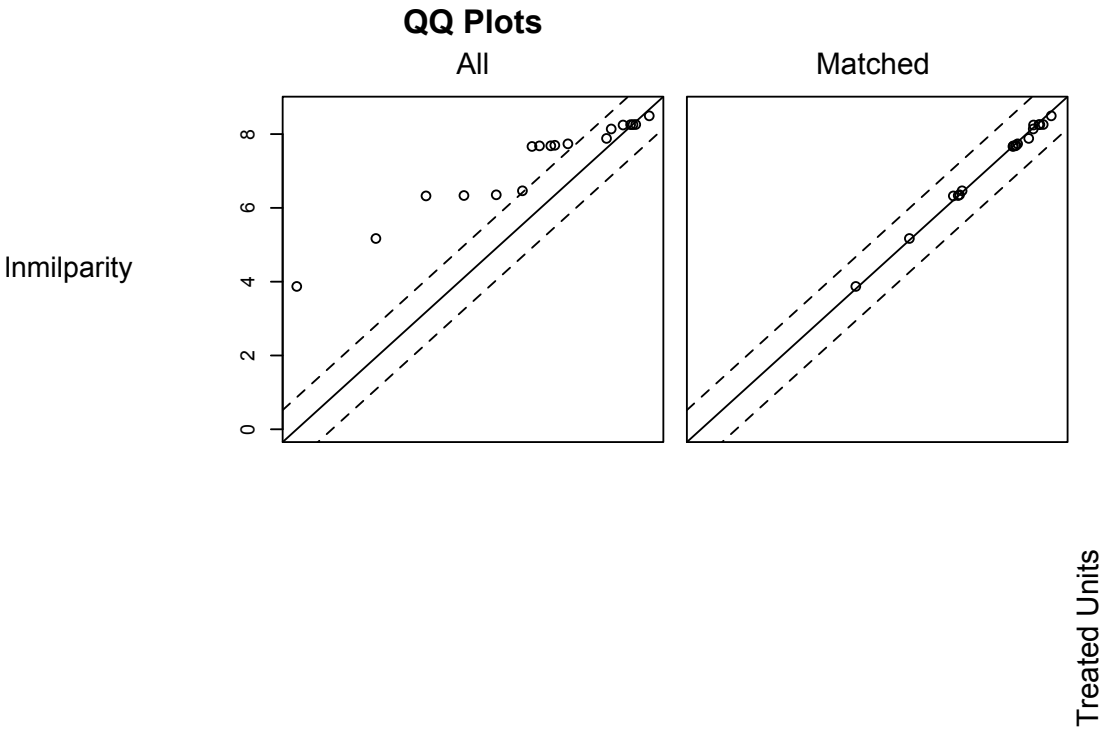
ALL SUCCESSFUL FIRCS

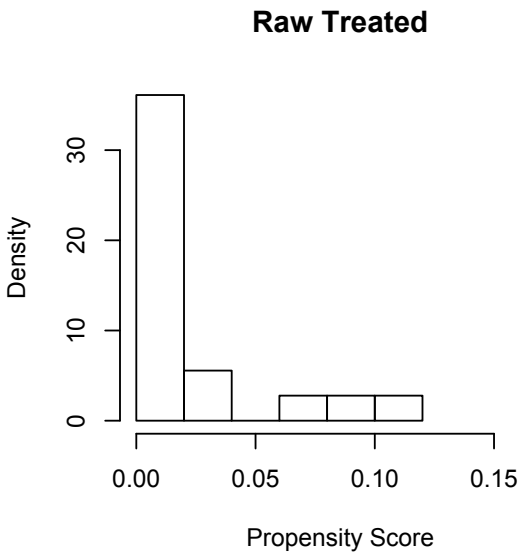
```
summary(firc.out1)

Call:
matchit(formula = abdfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = firc, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
              Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance             0.0244        0.0003     0.0025    0.0241  0.0111   0.0218  0.0948
cap_1                0.1196        0.0371     0.0626    0.0824  0.0554   0.0762  0.1548
cap_2                0.0022        0.0371     0.0626   -0.0349  0.0038   0.0470  0.3514
capshare_1           0.9623        0.5000     0.4183    0.4623  0.4894   0.4623  0.9409
lndistance           3.6162        5.3275     3.9908   -1.7113  0.2825   1.5112  8.0288
democracy1           0.5556        0.4347     0.4957    0.1209  0.0000   0.1111  1.0000
democracy2           0.0000        0.4347     0.4957   -0.4347  0.0000   0.4444  1.0000
democracy1_2         0.0000        0.1930     0.3946   -0.1930  0.0000   0.2222  1.0000
allydum              0.6111        0.2161     0.4116    0.3950  0.0000   0.3889  1.0000
lnenergyparity      13.0591       11.9153     2.7737    1.1438  1.1109   1.4434  8.5251
lnmilparity          7.2507        6.0792     2.0878    1.1715  1.2100   1.3045  3.8712


Summary of balance for matched data:
              Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance             0.0244        0.0245     0.0347    0.0000  0.0001   0.0005  0.0021
cap_1                0.1196        0.1137     0.0858    0.0058  0.0076   0.0133  0.0387
cap_2                0.0022        0.0026     0.0046   -0.0003  0.0001   0.0006  0.0039
capshare_1           0.9623        0.9626     0.0797   -0.0003  0.0011   0.0043  0.0165
lndistance           3.6162        3.6345     4.1927   -0.0183  0.0000   0.0395  0.2496
democracy1           0.5556        0.5556     0.5113    0.0000  0.0000   0.0000  0.0000
democracy2           0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
democracy1_2         0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
allydum              0.6111        0.6111     0.5016    0.0000  0.0000   0.0000  0.0000
lnenergyparity      13.0591       13.0731     1.9114   -0.0140  0.1489   0.3240  2.1546
lnmilparity          7.2507        7.2736     1.3014   -0.0229  0.0502   0.0622  0.1756

Percent Balance Improvement:
              Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance         99.9311  99.0711  97.9037  97.8190
cap_1            92.9345  86.2338  82.5808  75.0213
cap_2            99.0358  97.6153  98.7575  98.8930
capshare_1       99.9275  99.7743  99.0804  98.2452
lndistance       98.9295 100.0000  97.3879  96.8914
democracy1      100.0000   0.0000 100.0000 100.0000
democracy2      100.0000   0.0000 100.0000 100.0000
democracy1_2    100.0000   0.0000 100.0000 100.0000
allydum         100.0000   0.0000 100.0000 100.0000
lnenergyparity   98.7780  86.6004  77.5544  74.7262
lnmilparity      98.0474  95.8526  95.2303  95.4630

Sample sizes:
          Control Treated
All         57918      18
Matched        18      18
Unmatched   57900       0
Discarded       0       0
```

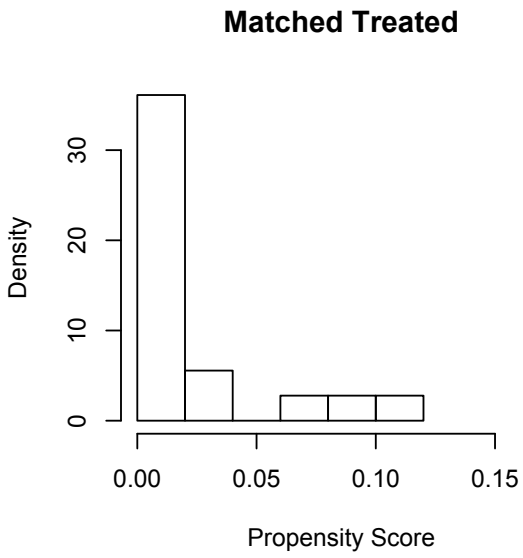

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

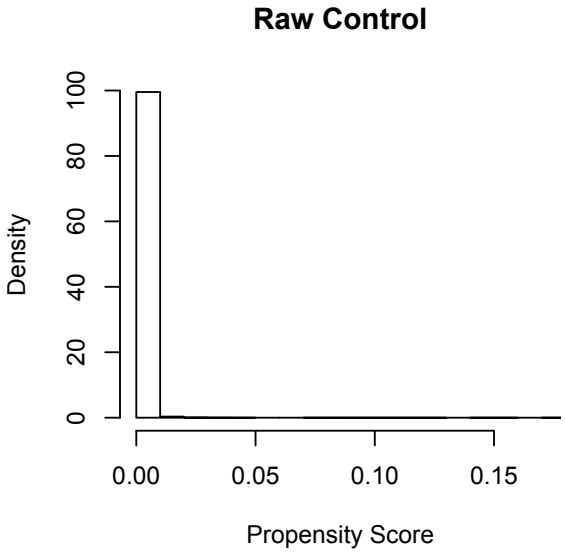

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

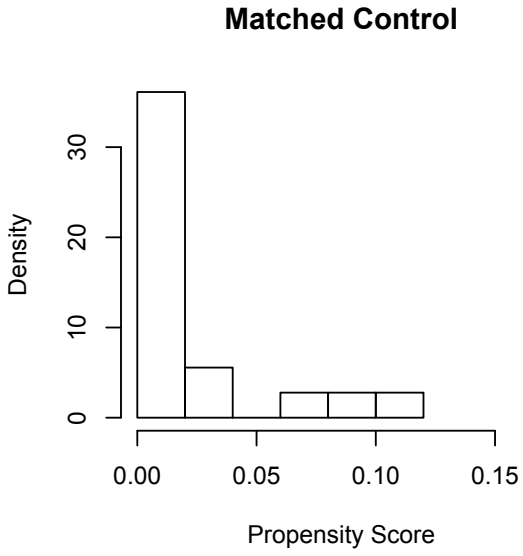

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
10
20
30
0.00
0.05
0.10
0.15
Propensity Score


Matched Treated
Density
0
10
20
30
0.00
0.05
0.10
0.15
Propensity Score

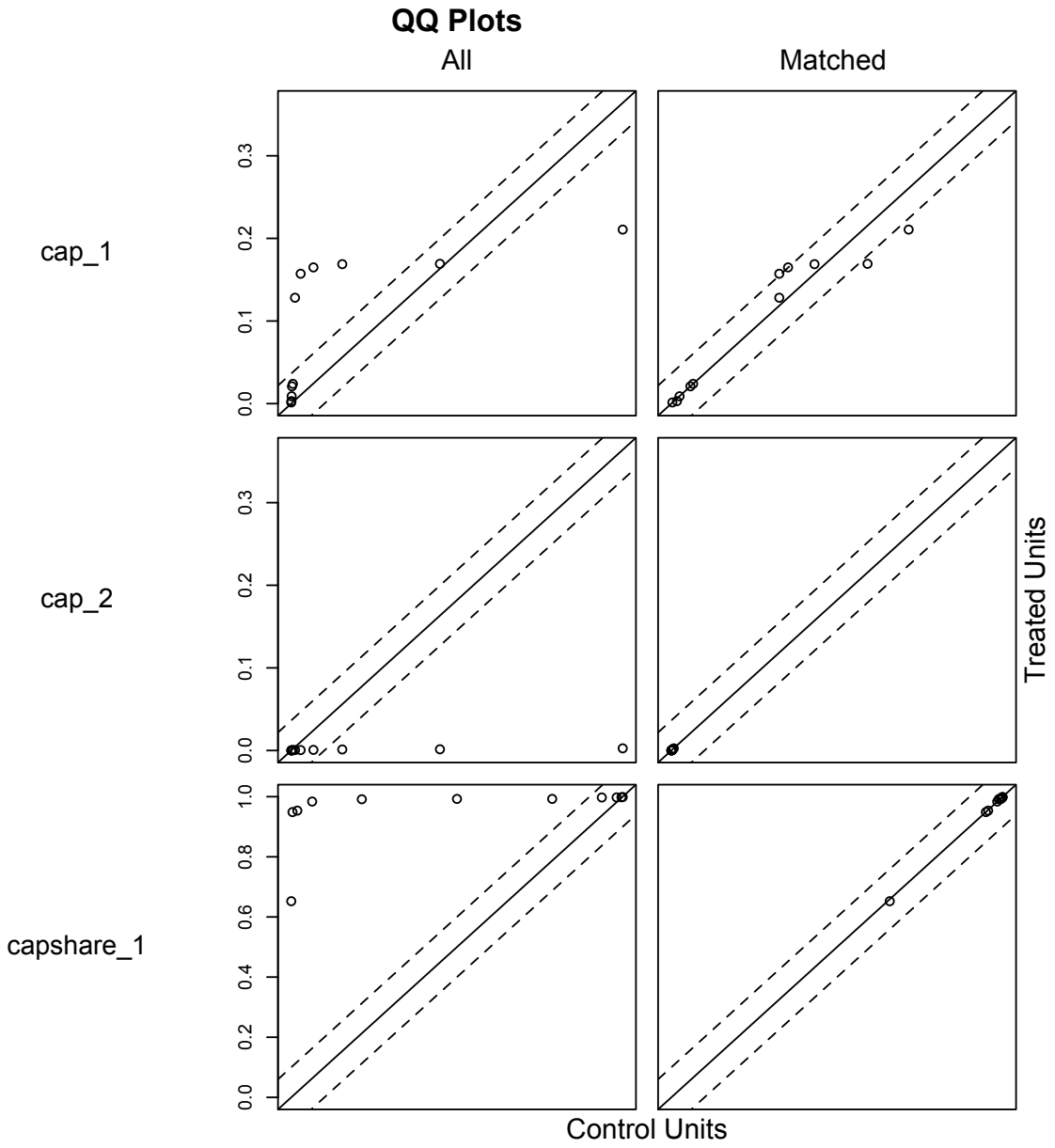

Raw Control
Density
0
20
40
60
80
100
0.00
0.05
0.10
0.15
Propensity Score

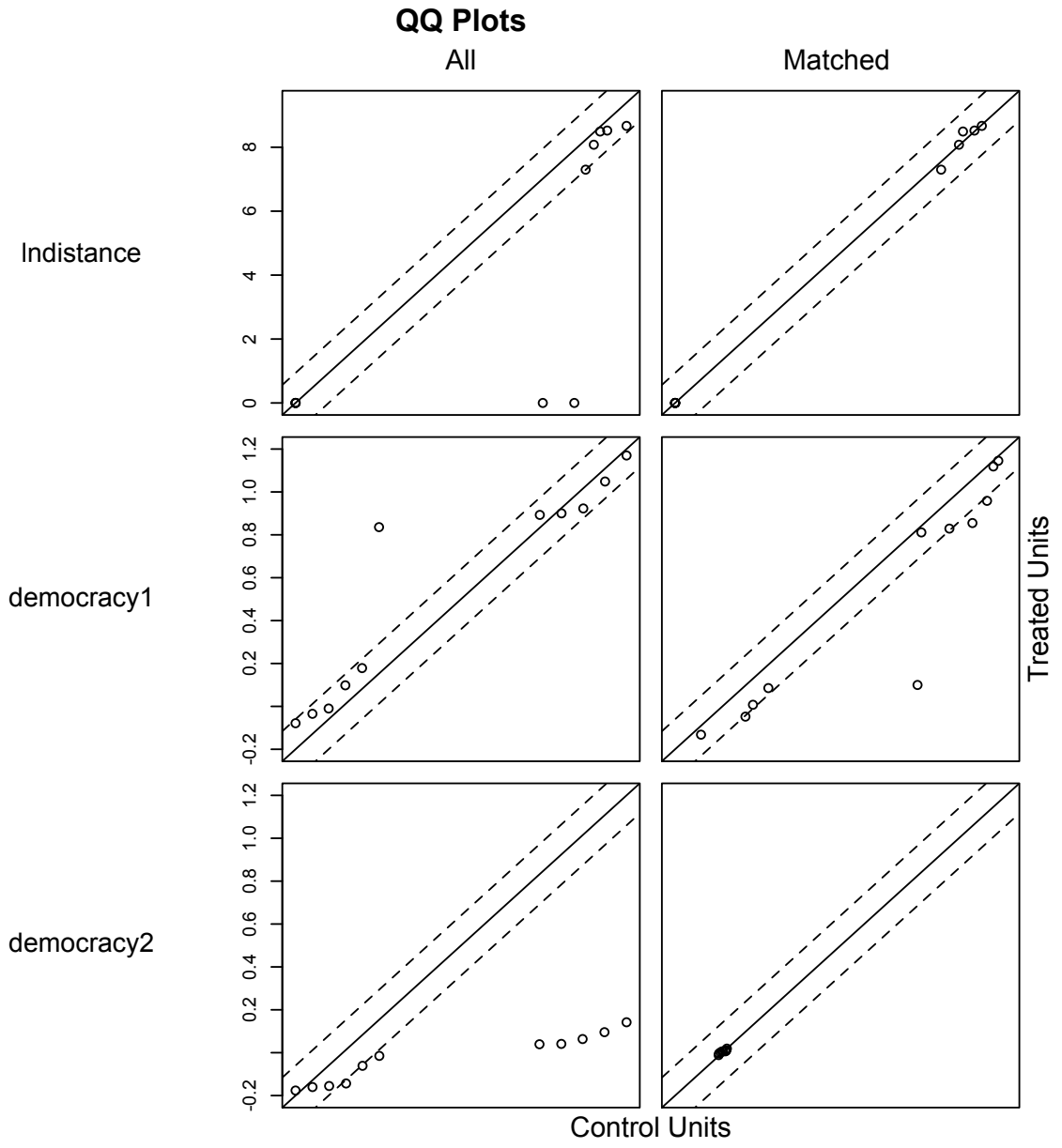

Matched Control
Density
0
10
20
30
0.00
0.05
0.10
0.15
Propensity Score

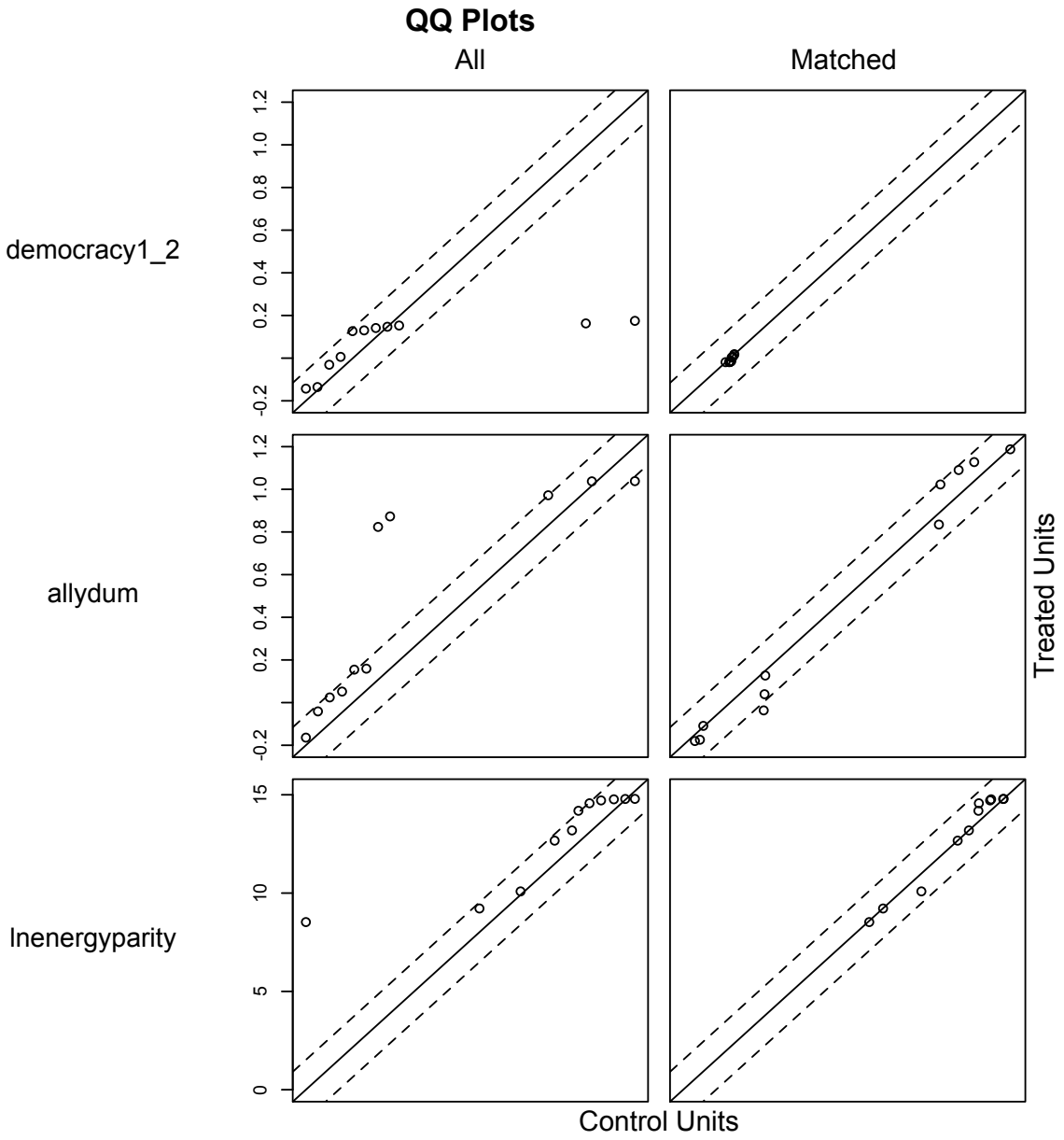
```
ttest s2un_diff10, by(abdfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      18   -.1203839    .1002547    .4253447   -.3319028     .091135
       1 |      18   -.0386317    .0595642    .2527094   -.1643011    .0870377
---------+--------------------------------------------------------------------
combined |      36   -.0795078     .057882    .3472921   -.1970145     .037999
---------+--------------------------------------------------------------------
    diff |           -.0817522    .1166143               -.318741    .1552365
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.7010
Ho: diff = 0                     degrees of freedom =       34

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2440         Pr(|T| > |t|) = 0.4880          Pr(T > t) = 0.7560

reg s2un_diff10 abdfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2 democracy1_2
allydum lnenergyparity lnmilparity, robust cluster(dyad_id)
note: democracy2 omitted because of collinearity
note: democracy1_2 omitted because of collinearity

Linear regression                               Number of obs     =         36
                                                F(9, 28)          =       0.90
                                                Prob > F          =     0.5413
                                                R-squared         =     0.2408
                                                Root MSE          =     .35109

                                (Std. Err. adjusted for 29 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
  s2un_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  abdfircinit |   .0965848   .1202588     0.80   0.429    -.1497542    .3429239
        cap_1 |   -1.54673   1.856283    -0.83   0.412    -5.349155    2.255694
        cap_2 |   13.37574   12.56373     1.06   0.296     -12.3599    39.11137
   capshare_1 |   .0567149    1.56231     0.04   0.971    -3.143532    3.256962
   lndistance |  -.0270622   .0421497    -0.64   0.526     -.113402    .0592777
   democracy1 |   .0520033   .3527572     0.15   0.884     -.670587    .7745936
   democracy2 |          0  (omitted)
 democracy1_2 |          0  (omitted)
      allydum |  -.3230478   .2499641    -1.29   0.207     -.835076    .1889805
lnenergyparity |   .0317784   .0540535     0.59   0.561    -.0789453    .1425021
  lnmilparity |   .0592007   .1661026     0.36   0.724    -.2810451    .3994464
        _cons |  -.6123477   .5941108    -1.03   0.312    -1.829328     .604633
------------------------------------------------------------------------------
```

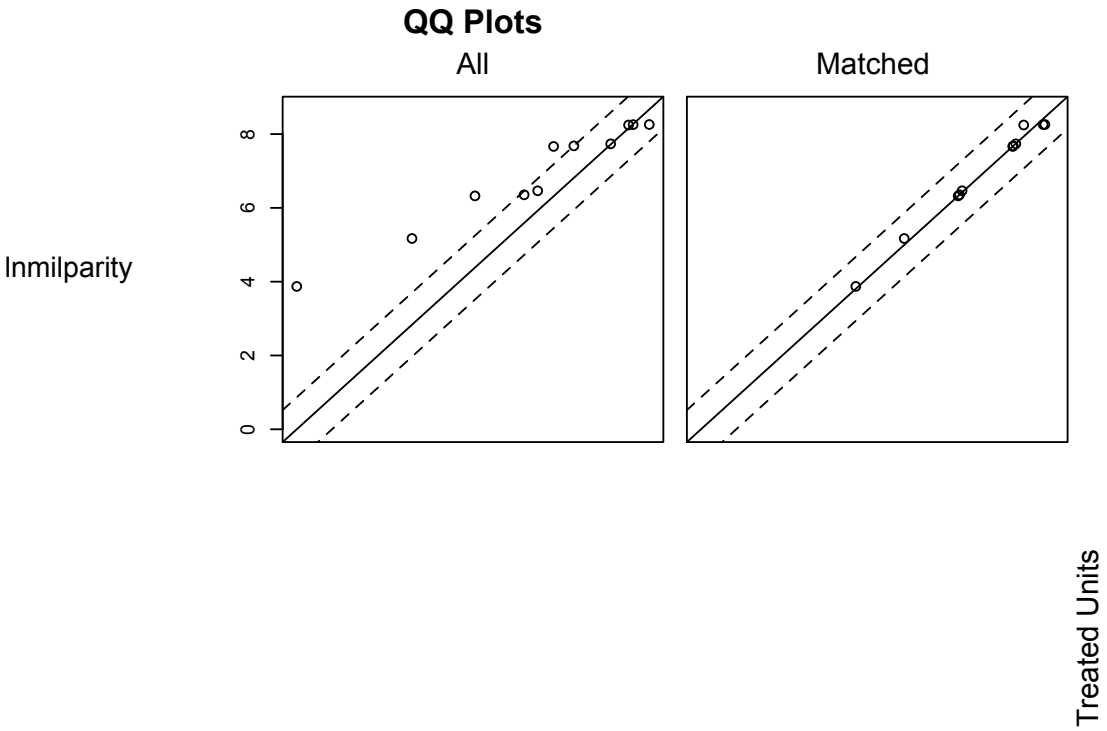
LEADERSHIP FIRC

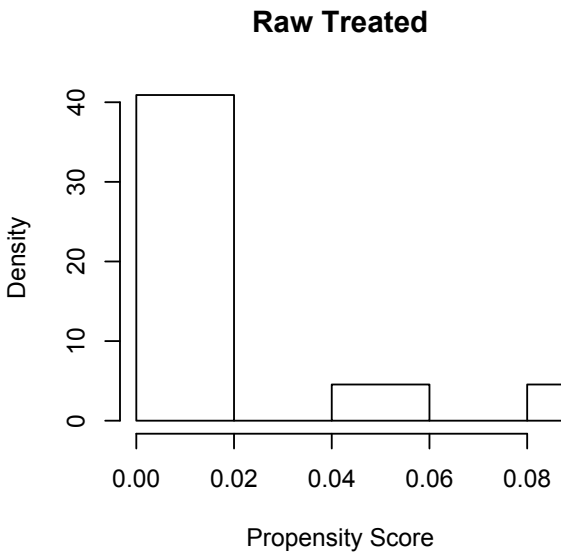
```
summary(firc.out2)

Call:
matchit(formula = abdleadfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = firc, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0136        0.0002     0.0011    0.0134  0.0015   0.0085  0.0425
cap_1                 0.0961        0.0372     0.0626    0.0589  0.0221   0.0671  0.1533
cap_2                 0.0007        0.0371     0.0626   -0.0364  0.0036   0.0561  0.3614
capshare_1            0.9551        0.5001     0.4183    0.4551  0.4925   0.4553  0.9449
lndistance            3.7325        5.3273     3.9908   -1.5947  0.3220   1.5854  7.9099
democracy1            0.5455        0.4347     0.4957    0.1108  0.0000   0.0909  1.0000
democracy2            0.0000        0.4346     0.4957   -0.4346  0.0000   0.4545  1.0000
democracy1_2          0.0000        0.1929     0.3946   -0.1929  0.0000   0.1818  1.0000
allydum               0.4545        0.2161     0.4116    0.2384  0.0000   0.1818  1.0000
lnenergyparity       12.8628       11.9155     2.7736    0.9473  1.0885   1.5604  8.5251
lnmilparity           6.9115        6.0794     2.0878    0.8321  0.7634   1.1088  3.8712


Summary of balance for matched data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0136        0.0110     0.0191    0.0026  0.0000   0.0026  0.0281
cap_1                 0.0961        0.0963     0.0909   -0.0002  0.0096   0.0179  0.0500
cap_2                 0.0007        0.0008     0.0008    0.0000  0.0001   0.0001  0.0005
capshare_1            0.9551        0.9558     0.1000   -0.0007  0.0010   0.0019  0.0066
lndistance            3.7325        3.7241     4.2879    0.0084  0.0000   0.0602  0.3240
democracy1            0.5455        0.6364     0.5045   -0.0909  0.0000   0.0909  1.0000
democracy2            0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
democracy1_2          0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
allydum               0.4545        0.4545     0.5222    0.0000  0.0000   0.0000  0.0000
lnenergyparity       12.8628       12.7167     2.1675    0.1461  0.0631   0.3255  0.9191
lnmilparity           6.9115        6.8906     1.4741    0.0209  0.0430   0.0870  0.3107

Percent Balance Improvement:
               Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance          80.8518  98.3697  69.0222  33.8565
cap_1             99.6110  56.4144  73.4106  67.4180
cap_2             99.8826  98.3769  99.8415  99.8680
capshare_1        99.8527  99.7917  99.5766  99.3003
lndistance        99.4746 100.0000  96.2059  95.9044
democracy1        17.9184   0.0000   0.0000   0.0000
democracy2       100.0000   0.0000 100.0000 100.0000
democracy1_2     100.0000   0.0000 100.0000 100.0000
allydum          100.0000   0.0000 100.0000 100.0000
lnenergyparity    84.5726  94.2024  79.1373  89.2186
lnmilparity       97.4864  94.3627  92.1563  91.9746

Sample sizes:
          Control Treated
All         57925      11
Matched        11      11
Unmatched   57914       0
Discarded       0       0
```

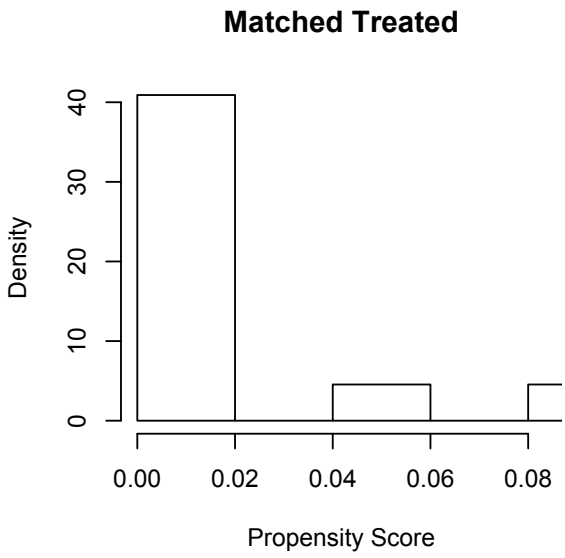

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

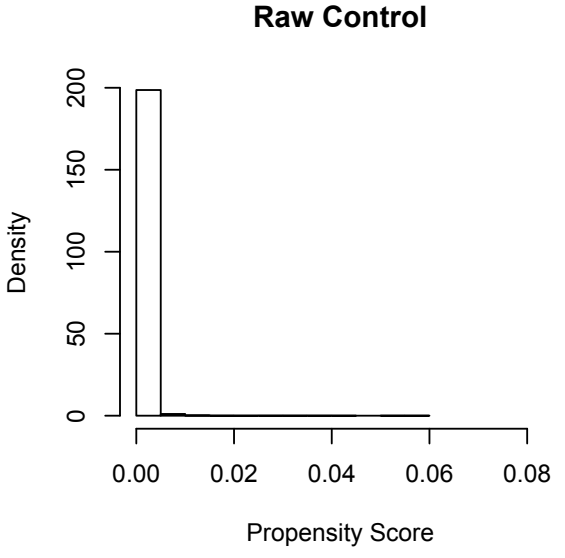

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

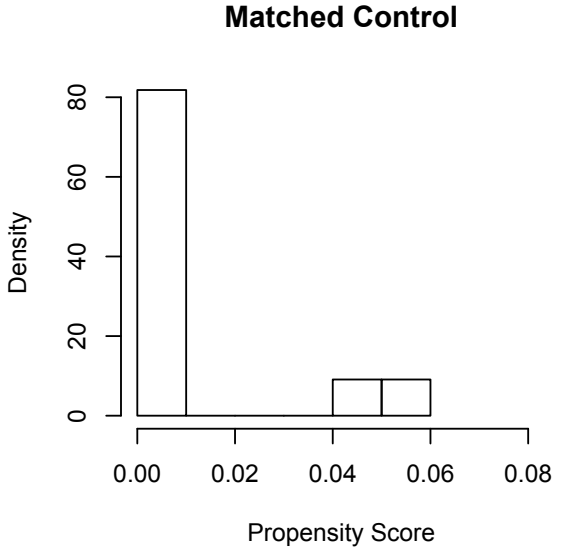

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
10
20
30
40
0.00
0.02
0.04
0.06
0.08
Propensity Score


Matched Treated
Density
0
10
20
30
40
0.00
0.02
0.04
0.06
0.08
Propensity Score

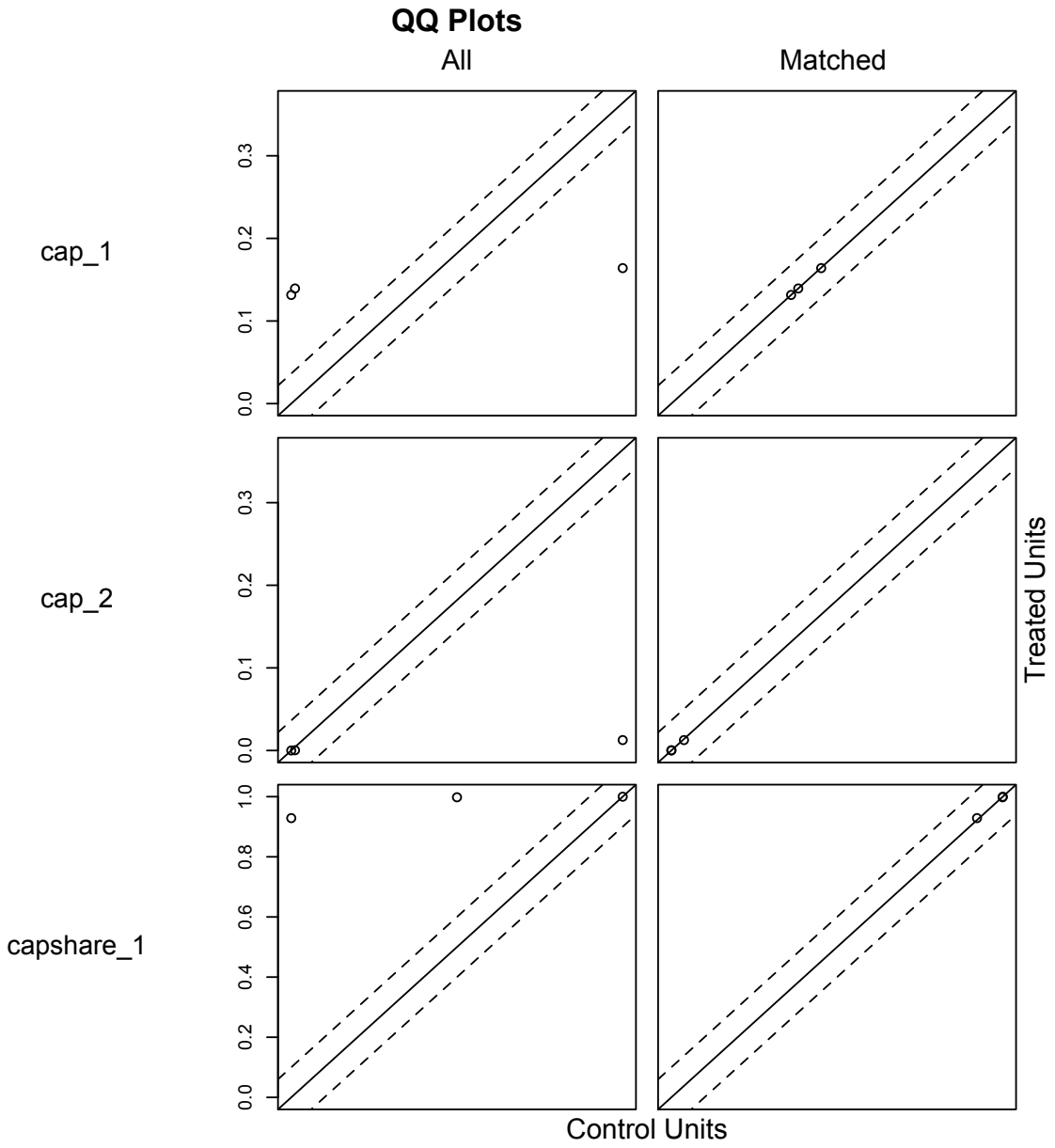

Raw Control
Density
0
50
100
150
200
0.00
0.02
0.04
0.06
0.08
Propensity Score

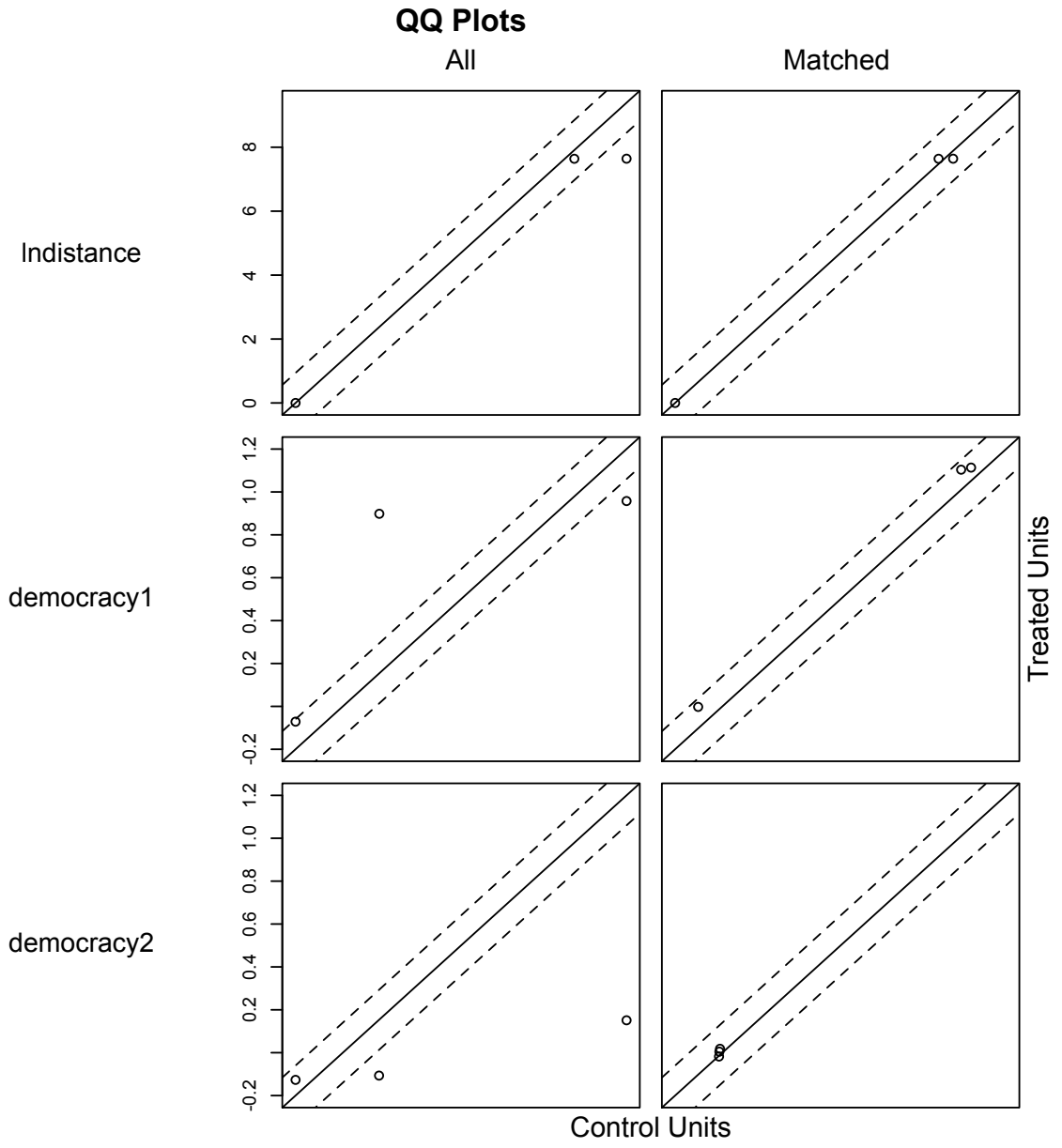

Matched Control
Density
0
20
40
60
80
0.00
0.02
0.04
0.06
0.08
Propensity Score

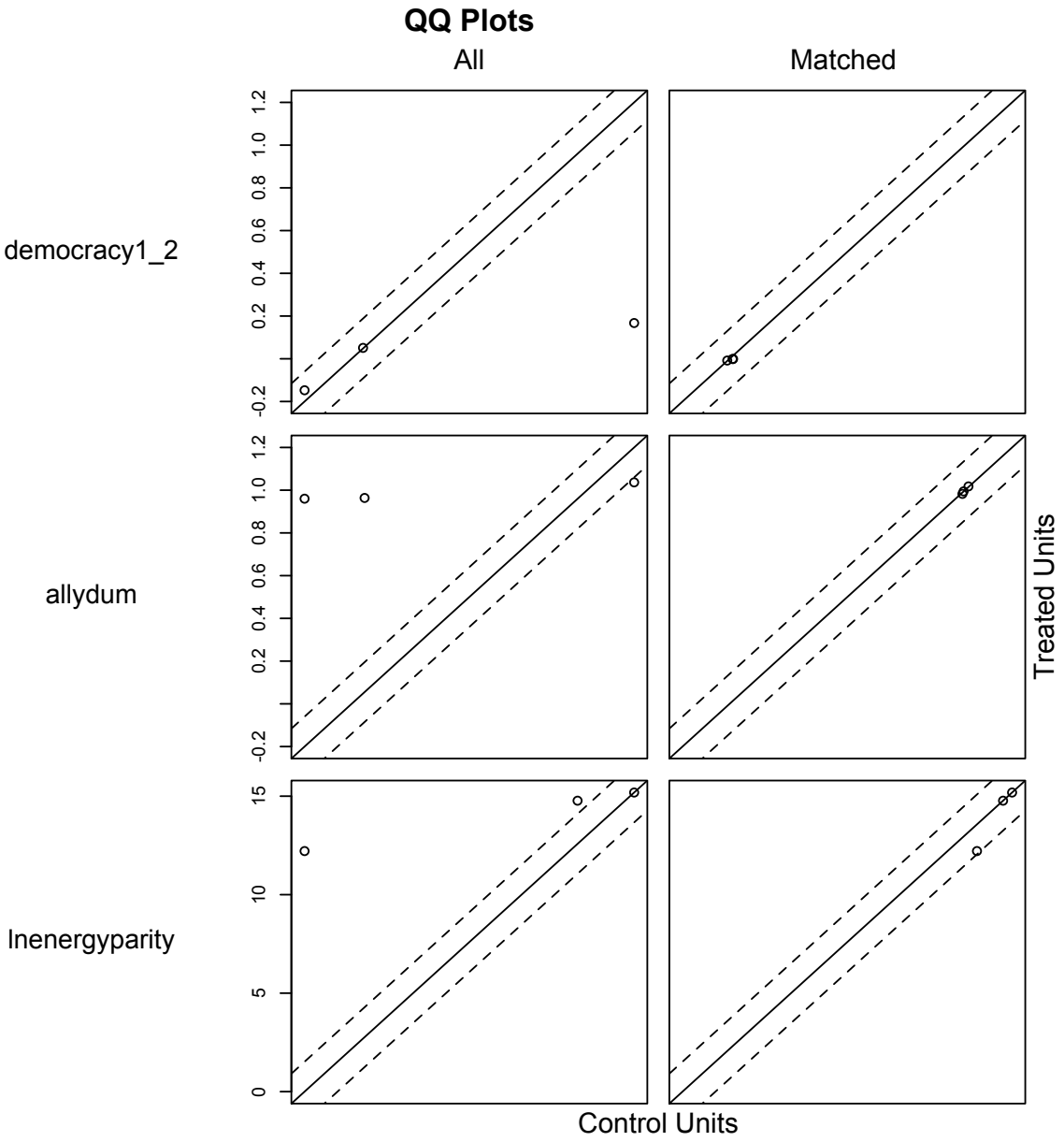
```
ttest s2un_diff10, by(abdleadfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      11   -.1587945    .1601584    .5311855   -.5156498    .1980607
       1 |      11   -.0974355     .067361    .2234111   -.2475251    .0526542
---------+--------------------------------------------------------------------
combined |      22    -.128115    .0850441    .3988921   -.3049738    .0487438
---------+--------------------------------------------------------------------
    diff |           -.0613591    .1737476               -.4237902    .3010721
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.3532
Ho: diff = 0                                     degrees of freedom =       20

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3638         Pr(|T| > |t|) = 0.7277          Pr(T > t) = 0.6362

reg s2un_diff10 abdleadfircinit cap_1 cap_2 capshare_1 lndistance democracy1 allydum
lnenergyparity lnmilparity, robust cluster(dyad_id)

Linear regression                               Number of obs     =         22
                                                F(9, 19)          =       6.57
                                                Prob > F          =     0.0003
                                                R-squared         =     0.7870
                                                Root MSE          =     .24355

                                  (Std. Err. adjusted for 20 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
  s2un_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
abdleadfircinit |   -.026461    .074942    -0.35   0.728    -.1833163    .1303944
        cap_1 |  -5.386404   1.924812    -2.80   0.011    -9.415082   -1.357725
        cap_2 |  -280.6896   103.2637    -2.72   0.014    -496.8231   -64.55609
   capshare_1 |   -.908845   1.923374    -0.47   0.642    -4.934513    3.116823
   lndistance |   .0520695   .0354636     1.47   0.158    -.0221566    .1262956
   democracy1 |  -.6386451   .5048604    -1.26   0.221     -1.69533    .4180397
      allydum |   .3210314   .2137476     1.50   0.150    -.1263475    .7684104
lnenergyparity |   .0908016   .0755695     1.20   0.244    -.0673671    .2489704
  lnmilparity |   .1060393   .2286489     0.46   0.648    -.3725284     .584607
        _cons |  -.3705184   .8510586    -0.44   0.668    -2.151805    1.410768
------------------------------------------------------------------------------
```

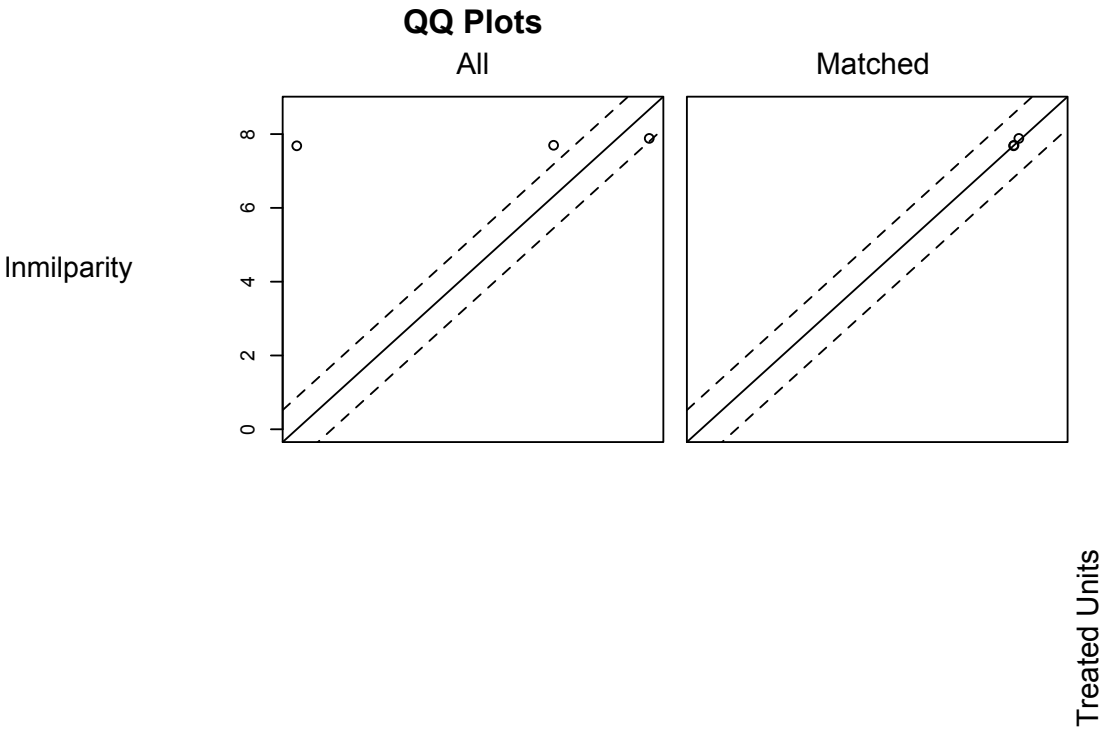
INSTITUTIONAL FIRC

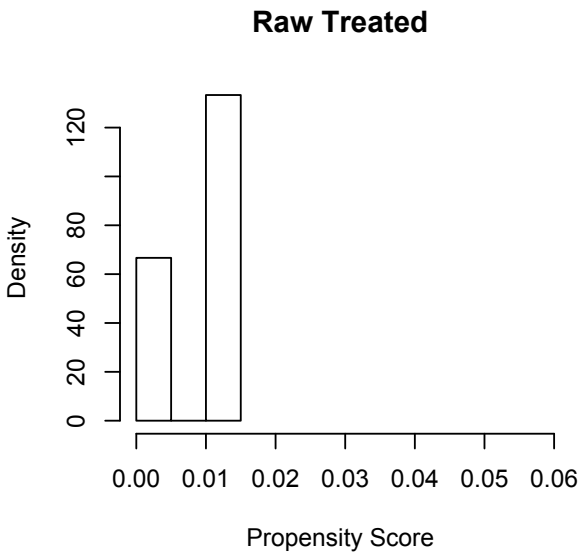
```
summary(firc.out4)

Call:
matchit(formula = abdinstfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = firc, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0089        0.0001     0.0008    0.0088  0.0110   0.0198  0.0457
cap_1                 0.1450        0.0372     0.0626    0.1078  0.1353   0.1556  0.2000
cap_2                 0.0043        0.0371     0.0626   -0.0328  0.0038   0.1184  0.3514
capshare_1            0.9755        0.5001     0.4183    0.4754  0.4980   0.4756  0.9286
lndistance            5.0936        5.3270     3.9909   -0.2334  0.2707   0.6737  1.7503
democracy1            0.6667        0.4347     0.4957    0.2320  0.0000   0.3333  1.0000
democracy2            0.0000        0.4346     0.4957   -0.4346  0.0000   0.3333  1.0000
democracy1_2          0.0000        0.1929     0.3946   -0.1929  0.0000   0.3333  1.0000
allydum               1.0000        0.2161     0.4116    0.7839  1.0000   0.6667  1.0000
lnenergyparity       14.0558       11.9156     2.7736    2.1402  2.1912   4.8015 12.2125
lnmilparity           7.7539        6.0795     2.0878    1.6745  1.3813   3.2828  7.6825


Summary of balance for matched data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0089        0.0089     0.0056   -0.0001  0.0003   0.0003  0.0006
cap_1                 0.1450        0.1451     0.0173   -0.0002  0.0000   0.0002  0.0005
cap_2                 0.0043        0.0047     0.0080   -0.0004  0.0002   0.0005  0.0013
capshare_1            0.9755        0.9739     0.0447    0.0017  0.0014   0.0026  0.0064
lndistance            5.0936        5.1214     4.4401   -0.0278  0.1633   0.1367  0.2468
democracy1            0.6667        0.6667     0.5774    0.0000  0.0000   0.0000  0.0000
democracy2            0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
democracy1_2          0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
allydum               1.0000        1.0000     0.0000    0.0000  0.0000   0.0000  0.0000
lnenergyparity       14.0558       14.5076     0.8403   -0.4518  0.0006   0.4519  1.3550
lnmilparity           7.7539        7.7328     0.0719    0.0211  0.0032   0.0236  0.0671

Percent Balance Improvement:
               Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance          99.2722  97.3061  98.3491  98.7151
cap_1             99.8309 100.0000  99.8828  99.7265
cap_2             98.9089  94.8838  99.5836  99.6366
capshare_1        99.6509  99.7183  99.4480  99.3078
lndistance        88.0729  39.6905  79.7114  85.9010
democracy1       100.0000   0.0000 100.0000 100.0000
democracy2       100.0000   0.0000 100.0000 100.0000
democracy1_2     100.0000   0.0000 100.0000 100.0000
allydum          100.0000 100.0000 100.0000 100.0000
lnenergyparity    78.8875  99.9722  90.5891  88.9052
lnmilparity       98.7378  99.7668  99.2815  99.1268

Sample sizes:
          Control Treated
All         57933       3
Matched         3       3
Unmatched   57930       0
Discarded       0       0
```

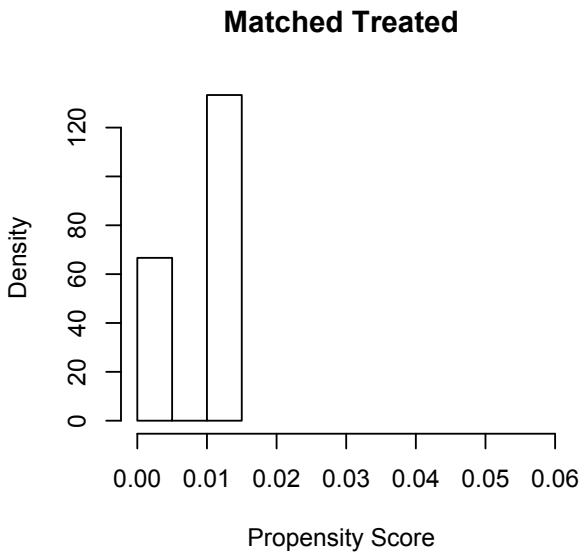

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0
Treated Units
Control Units

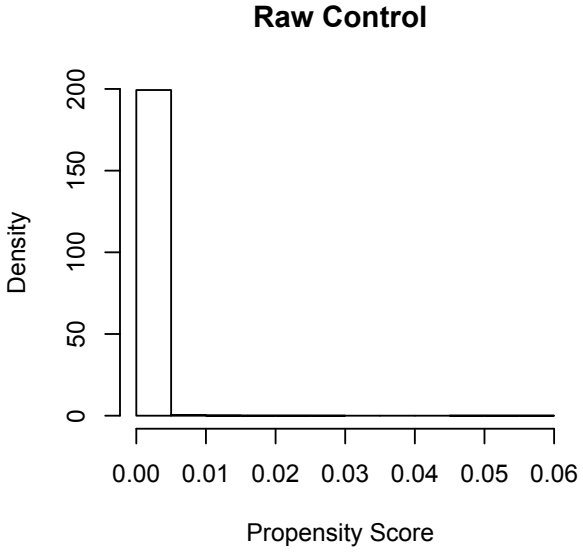

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

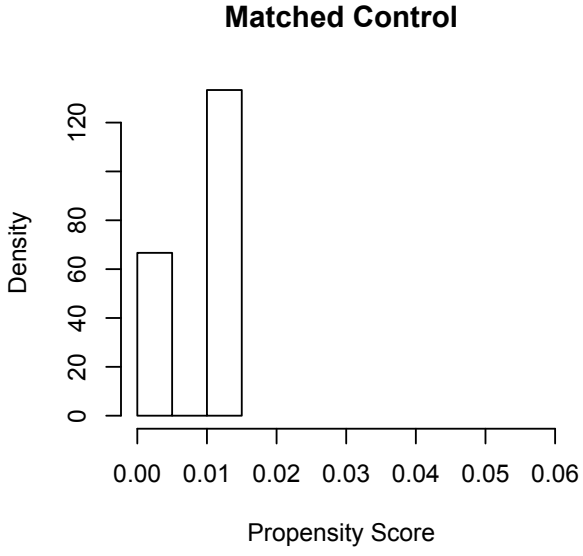

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
20
40
60
80
120
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Propensity Score


Matched Treated
Density
0
20
40
60
80
120
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Propensity Score

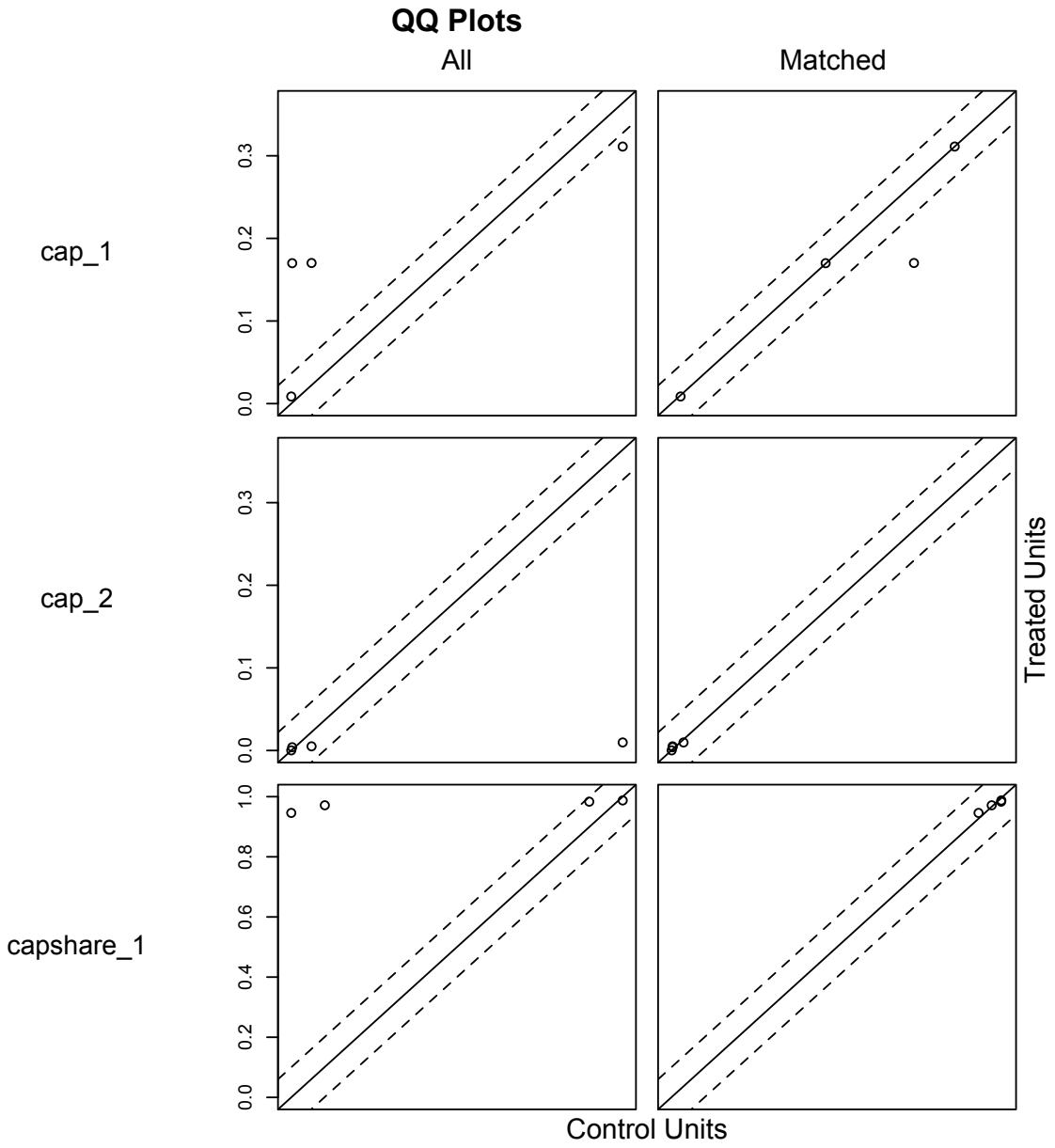

Raw Control
Density
0
50
100
150
200
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Propensity Score

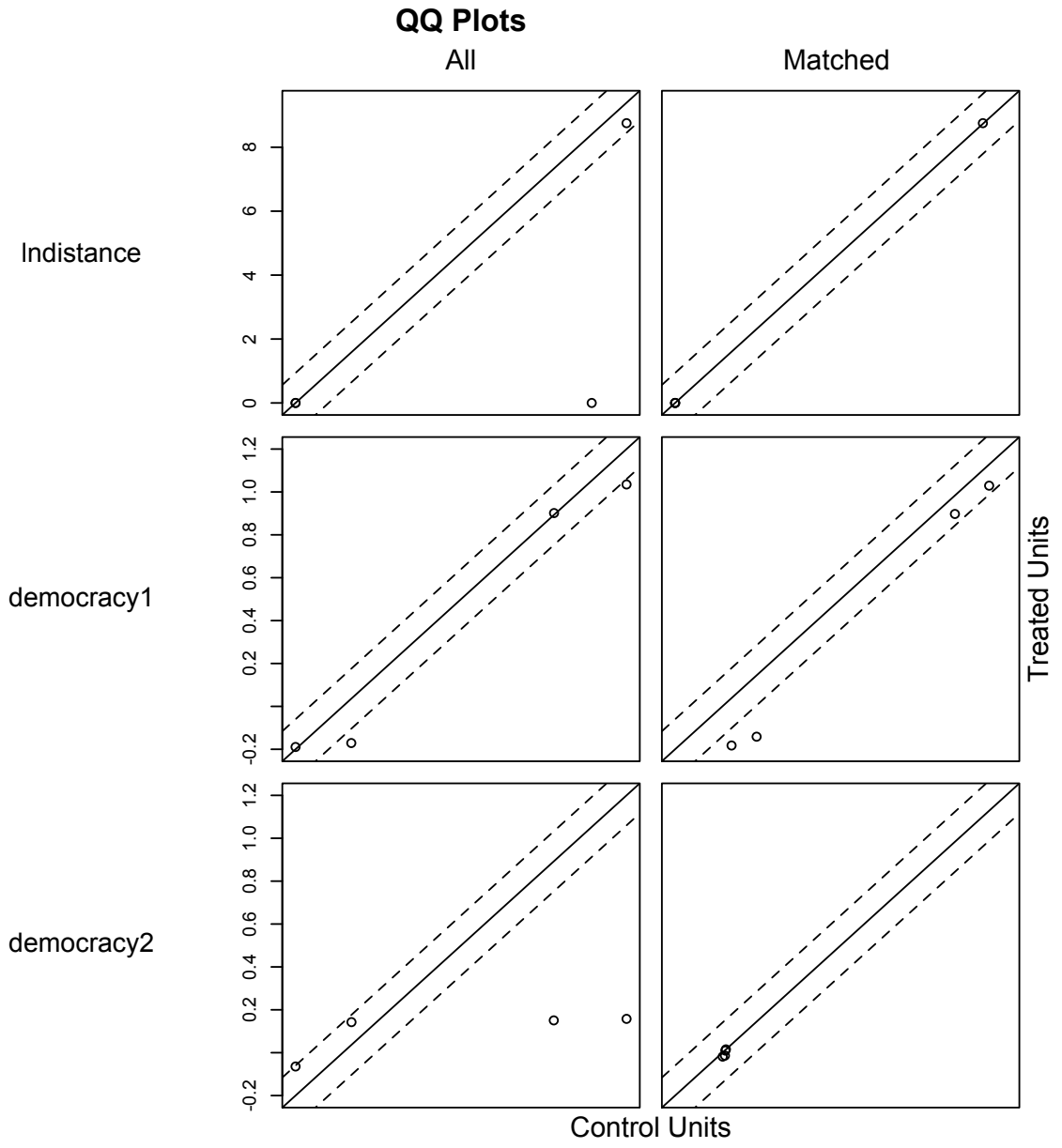

Matched Control
Density
0
20
40
60
80
120
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Propensity Score

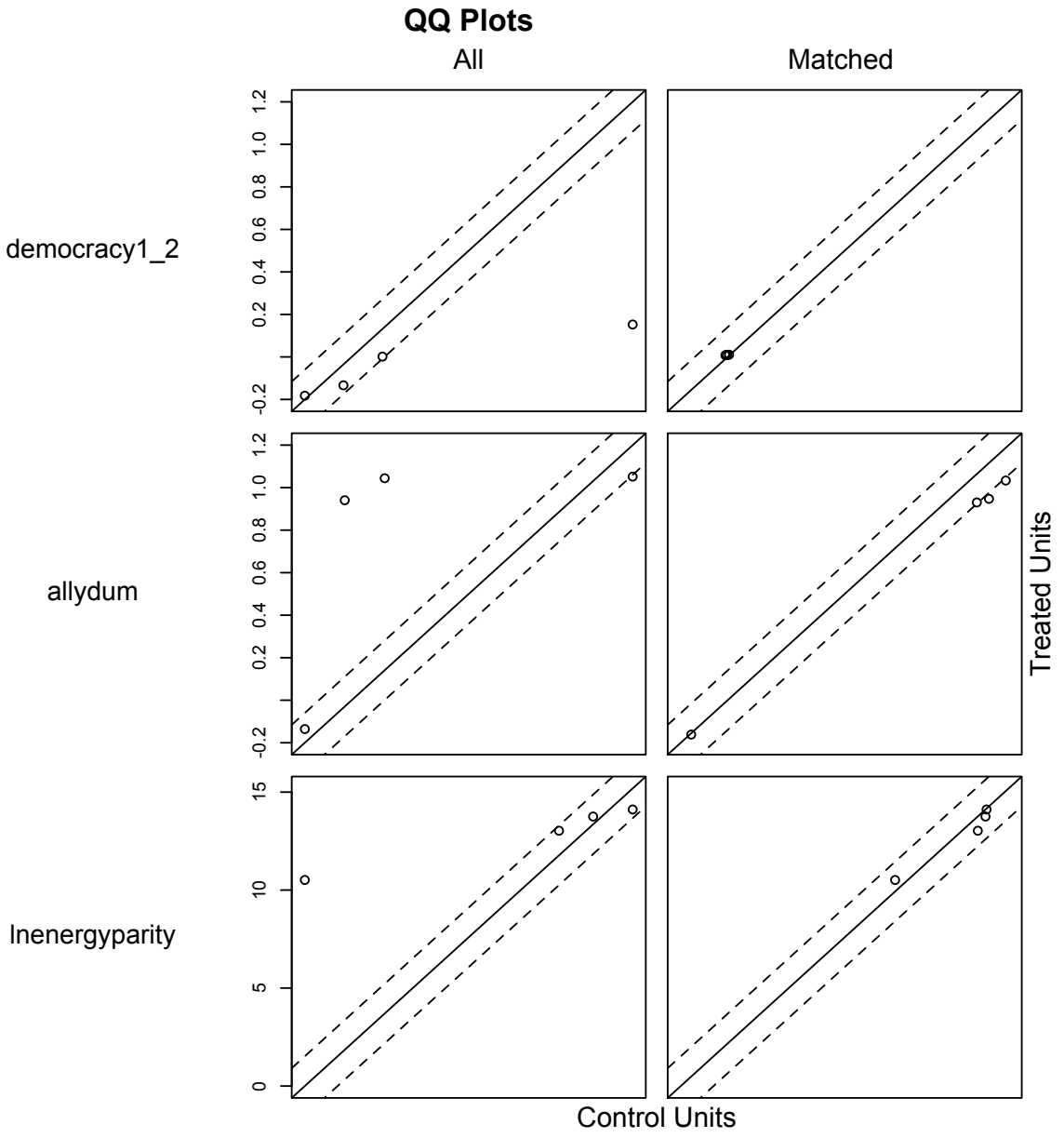
```
ttest s2un_diff10, by(abdinstfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |       3      .17783    .1962085    .3398431   -.6663869    1.022047
       1 |       3    .0272767    .1243005    .2152948   -.5075454    .5620987
---------+--------------------------------------------------------------------
combined |       6    .1025533    .1091925    .2674658   -.1781348    .3832415
---------+--------------------------------------------------------------------
    diff |            .1505533    .2322679               -.4943258    .7954325
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.6482
Ho: diff = 0                                     degrees of freedom =        4

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.7239         Pr(|T| > |t|) = 0.5522          Pr(T > t) = 0.2761
```

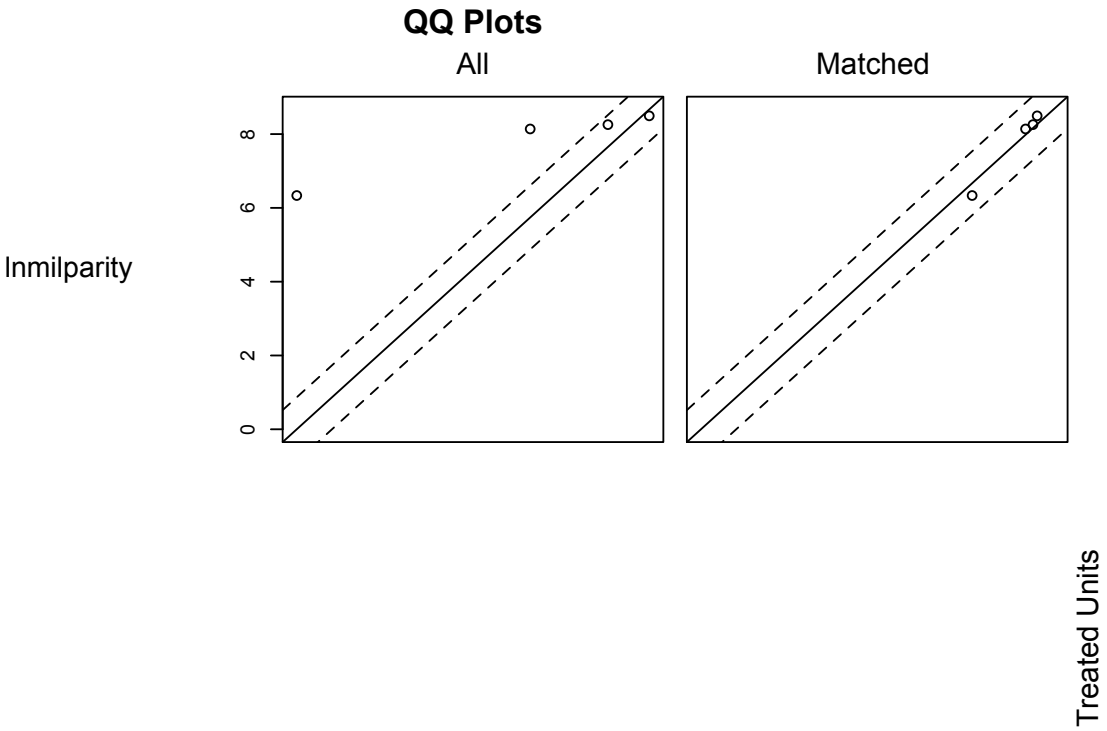
RESTORATION FIRC

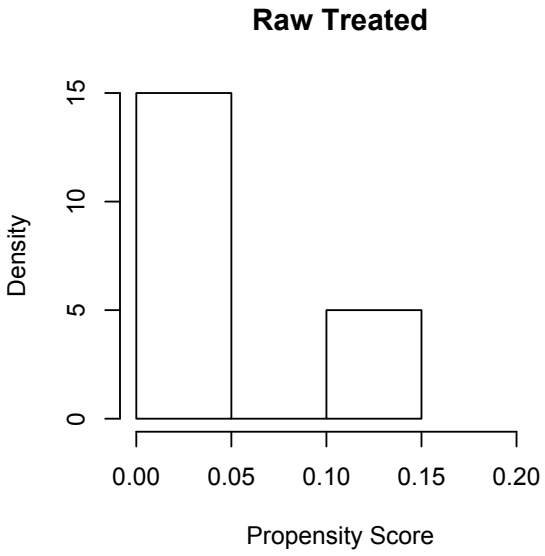
```
summary(firc.out3)

Call:
matchit(formula = abdrestfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = firc, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
              Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance             0.0361        0.0001     0.0016    0.0360  0.0185   0.0362  0.1074
cap_1                0.1650        0.0372     0.0626    0.1278  0.1004   0.0946  0.1689
cap_2                0.0047        0.0371     0.0626   -0.0324  0.0101   0.0936  0.3543
capshare_1           0.9720        0.5001     0.4183    0.4719  0.4772   0.4782  0.9459
lndistance           2.1883        5.3272     3.9909   -3.1389  0.3193   2.2605  8.4036
democracy1           0.5000        0.4347     0.4957    0.0653  0.0000   0.0000  0.0000
democracy2           0.0000        0.4346     0.4957   -0.4346  0.5000   0.5000  1.0000
democracy1_2         0.0000        0.1929     0.3946   -0.1929  0.0000   0.2500  1.0000
allydum              0.7500        0.2161     0.4116    0.5339  0.5000   0.5000  1.0000
lnenergyparity      12.8514       11.9156     2.7737    0.9358  1.1630   3.3099 10.5144
lnmilparity          7.8060        6.0794     2.0877    1.7265  1.5021   2.3781  6.3351


Summary of balance for matched data:
              Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance             0.0361        0.0336     0.0551    0.0025  0.0074   0.0070  0.0130
cap_1                0.1650        0.1893     0.1333   -0.0243  0.0010   0.0246  0.0962
cap_2                0.0047        0.0041     0.0062    0.0006  0.0031   0.0025  0.0037
capshare_1           0.9720        0.9710     0.0324    0.0011  0.0098   0.0109  0.0191
lndistance           2.1883        2.1831     4.3662    0.0052  0.0000   0.0052  0.0209
democracy1           0.5000        0.5000     0.5774    0.0000  0.0000   0.0000  0.0000
democracy2           0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
democracy1_2         0.0000        0.0000     0.0000    0.0000  0.0000   0.0000  0.0000
allydum              0.7500        0.7500     0.5000    0.0000  0.0000   0.0000  0.0000
lnenergyparity      12.8514       12.9901     2.0502   -0.1387  0.4742   0.4325  0.7310
lnmilparity          7.8060        7.7692     0.7442    0.0368  0.1932   0.2028  0.3319

Percent Balance Improvement:
              Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance         93.1787  59.9359  80.7375  87.8906
cap_1            80.9936  98.9793  74.0230  43.0446
cap_2            98.1745  69.0996  97.3047  98.9672
capshare_1       99.7762  97.9376  97.7211  97.9815
lndistance       99.8335 100.0000  99.7688  99.7512
democracy1      100.0000   0.0000   0.0000   0.0000
democracy2      100.0000 100.0000 100.0000 100.0000
democracy1_2    100.0000   0.0000 100.0000 100.0000
allydum         100.0000 100.0000 100.0000 100.0000
lnenergyparity   85.1827  59.2232  86.9343  93.0479
lnmilparity      97.8680  87.1374  91.4739  94.7609

Sample sizes:
          Control Treated
All         57932       4
Matched         4       4
Unmatched   57928       0
Discarded       0       0
```

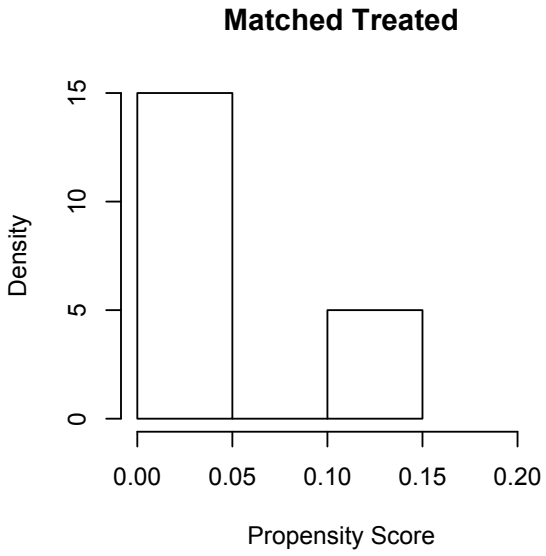

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

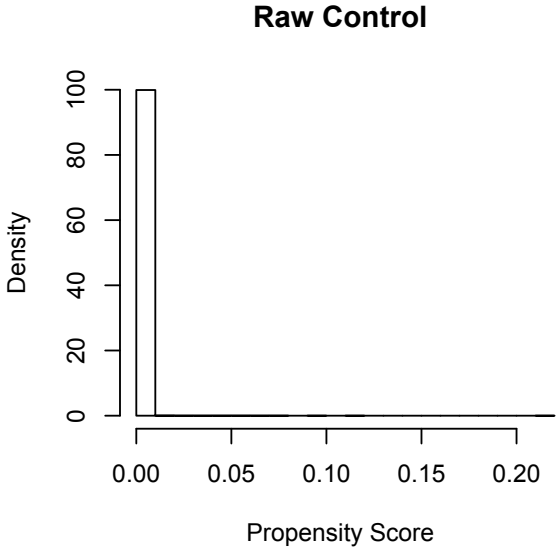

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

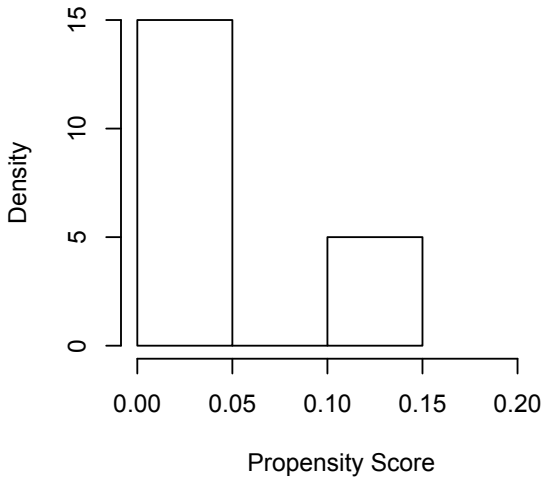

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
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

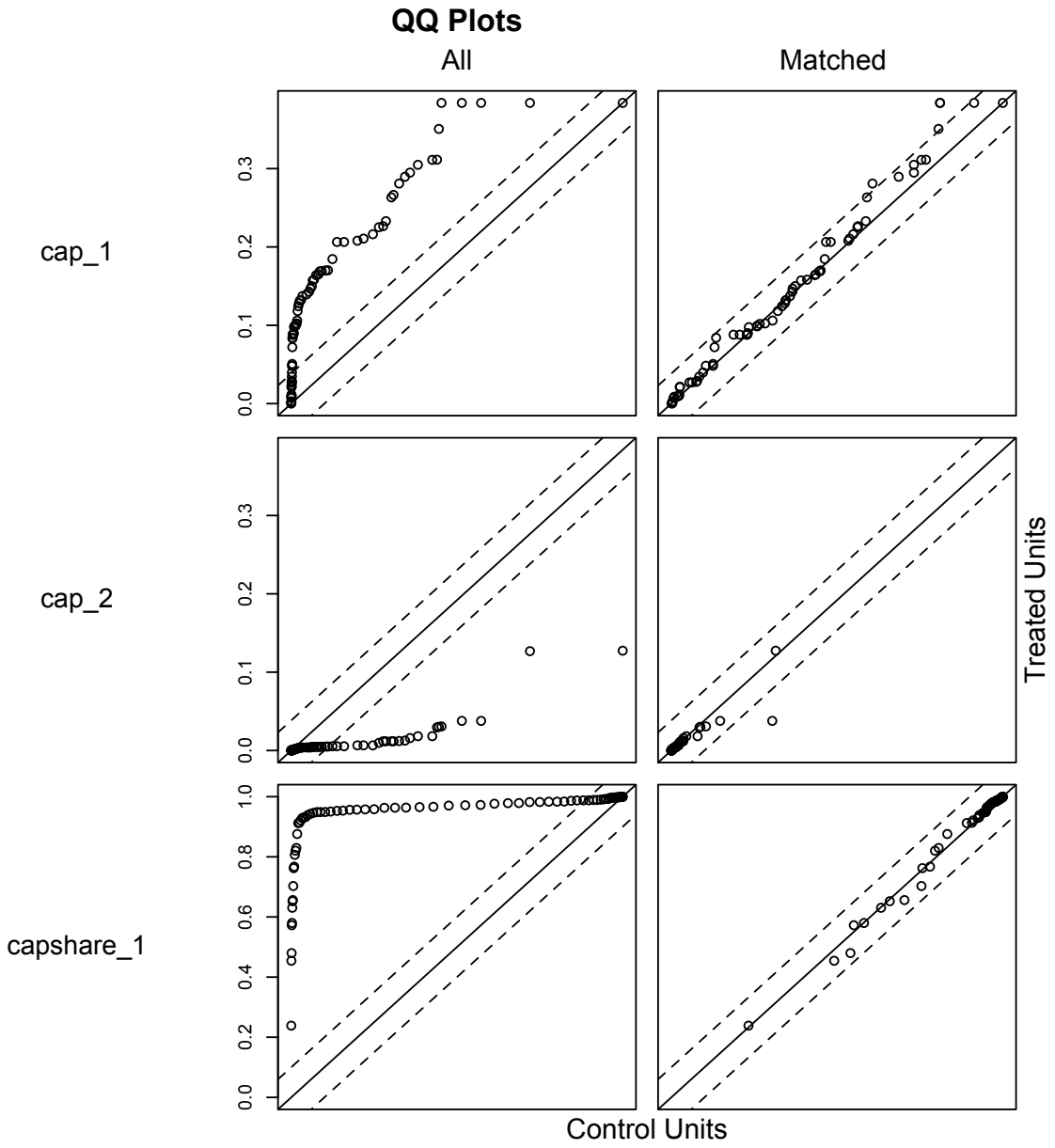
```
ttest s2un_diff10, by(abdrestfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |       4     -.38602    .3087565    .6175131   -1.368621    .5965811
       1 |       4    .0736475    .1808154    .3616308   -.5017878    .6490828
---------+--------------------------------------------------------------------
combined |       8   -.1561863    .1870297    .5289999   -.5984412    .2860687
---------+--------------------------------------------------------------------
    diff |           -.4596675    .3578055               -1.335186    .4158511
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.2847
Ho: diff = 0                                     degrees of freedom =        6

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1231         Pr(|T| > |t|) = 0.2463          Pr(T > t) = 0.8769
```

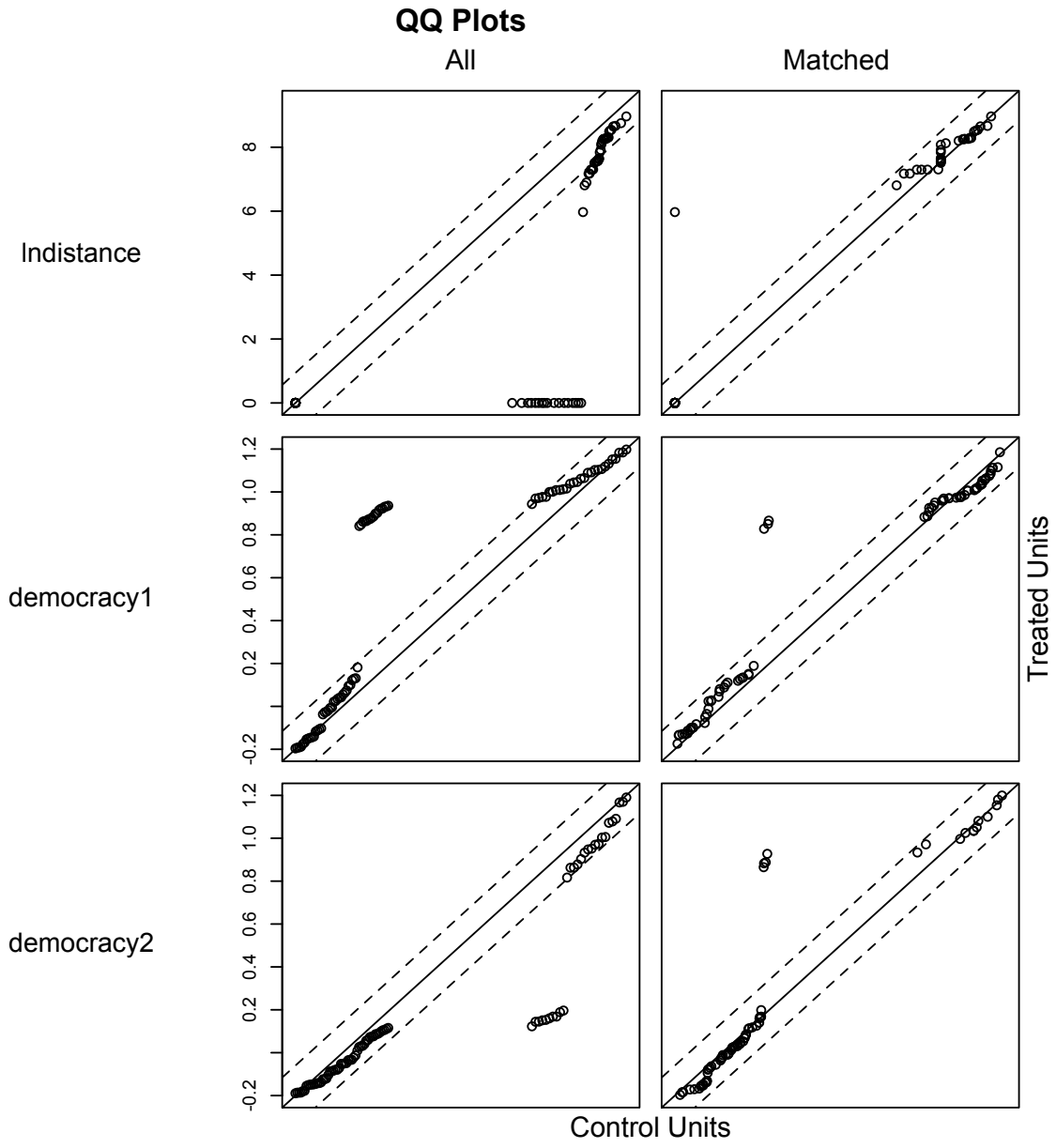
III. FOREIGN-IMPOSED REGIME CHANGE AND ALLIANCE PORTFOLIO SIMILARITY
(*S* AND TAU-B, GENETIC MATCHING)

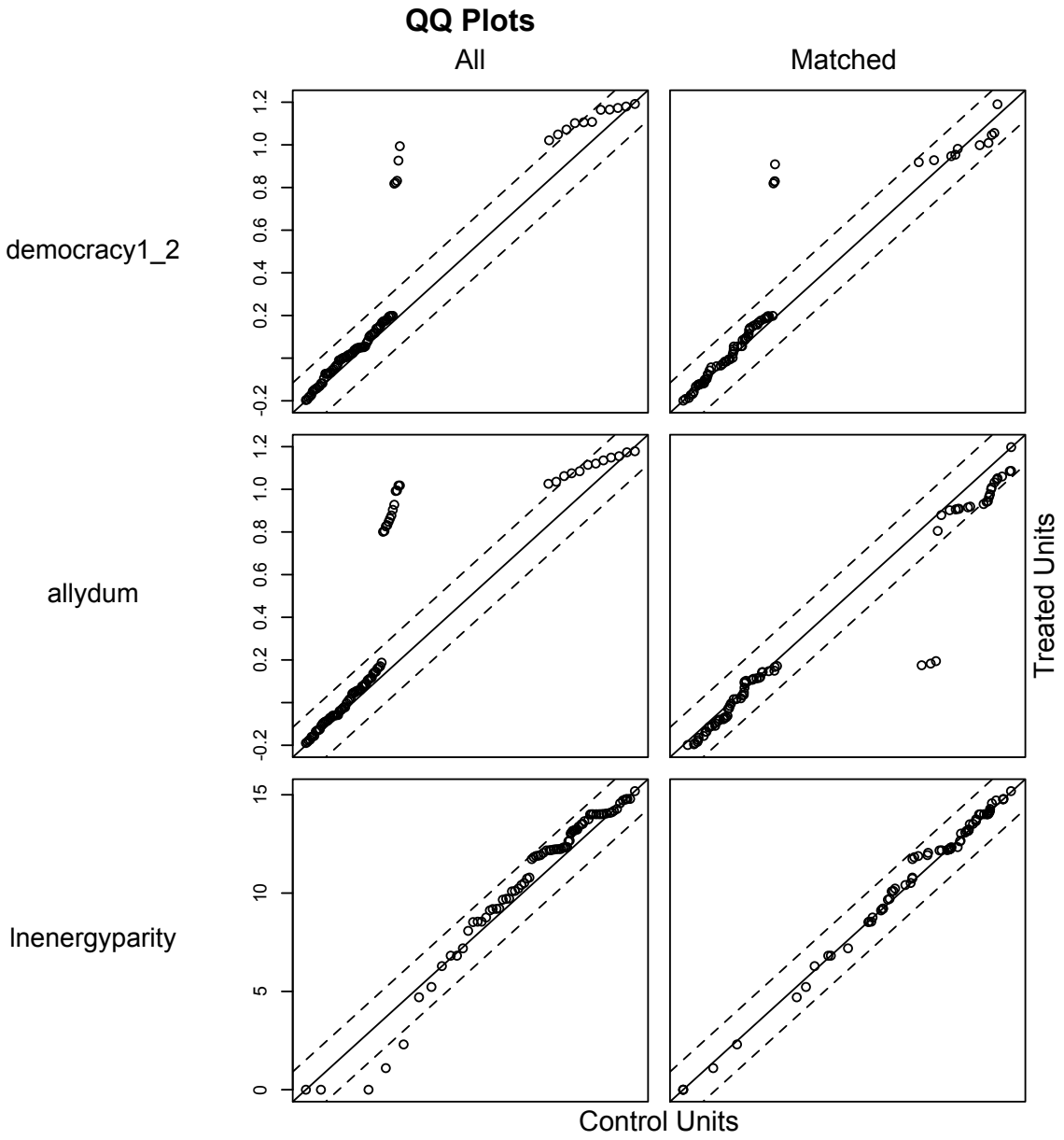
DV = DIFFERENCE IN S AND TAU-B SCORES FROM YEAR OF FIRC TO TEN YEARS LATER

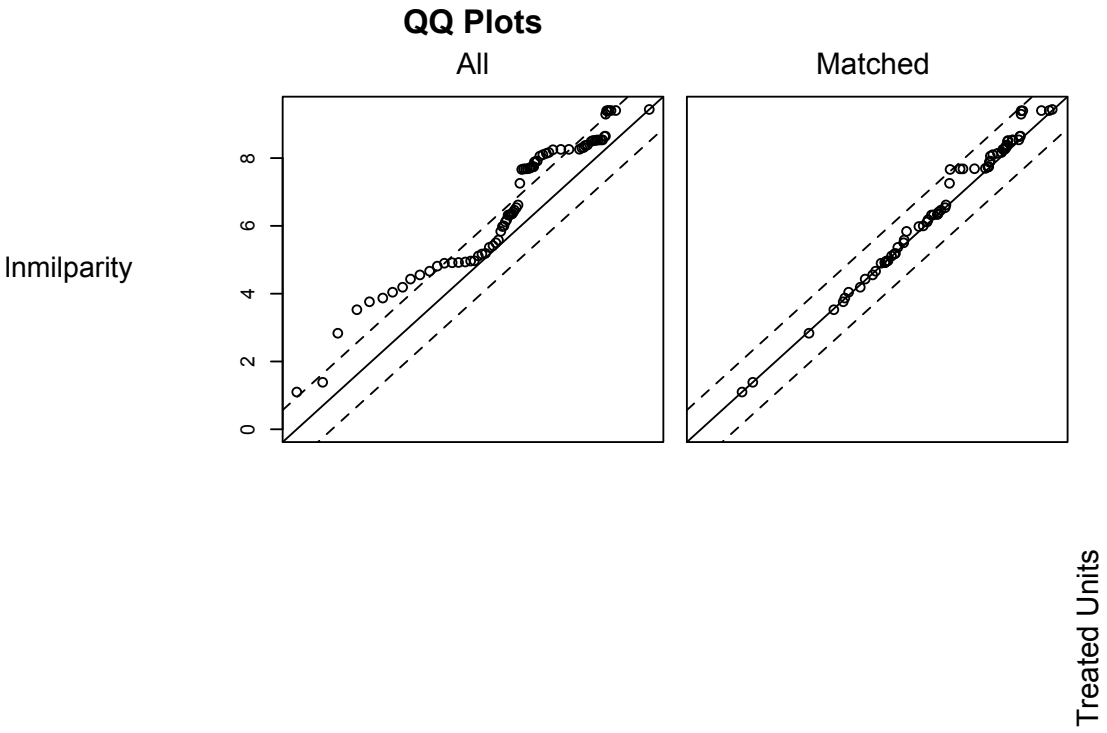
ALL SUCCESSFUL FIRC

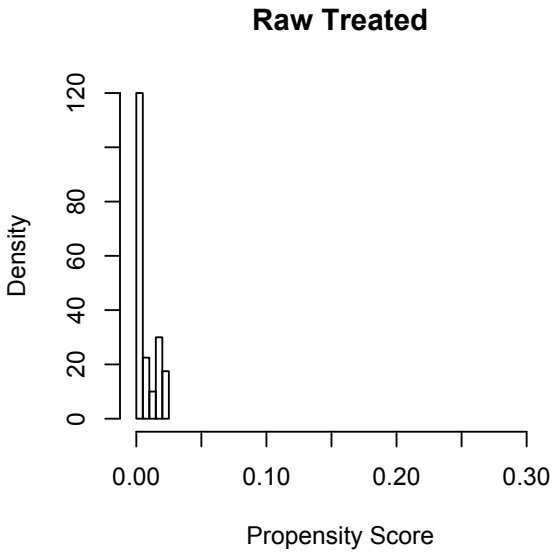
```
summary(fircs.out1)

Call:
matchit(formula = abdfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = fircs, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
              Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance             0.0071        0.0006     0.0028    0.0065  0.0032   0.0100  0.2906
cap_1                0.1412        0.0446     0.0670    0.0966  0.1033   0.0945  0.2098
cap_2                0.0086        0.0446     0.0670   -0.0359  0.0050   0.0381  0.2565
capshare_1           0.9146        0.5000     0.4148    0.4146  0.4239   0.4146  0.8956
lndistance           3.6352        5.5624     3.8866   -1.9273  0.5557   1.9124  8.1092
democracy1           0.5625        0.3422     0.4745    0.2203  0.0000   0.2125  1.0000
democracy2           0.2250        0.3422     0.4745   -0.1172  0.0000   0.1250  1.0000
democracy1_2         0.2000        0.1384     0.3453    0.0616  0.0000   0.0625  1.0000
allydum              0.3125        0.1517     0.3588    0.1608  0.0000   0.1625  1.0000
lnenergyparity      11.0650       10.7477     3.1023    0.3173  0.5460   0.6098  2.8904
lnmilparity          6.7472        5.8628     1.9142    0.8843  0.6946   0.8946  1.9169


Summary of balance for matched data:
              Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance             0.0071        0.0071     0.0074    0.0000  0.0003   0.0009  0.0049
cap_1                0.1412        0.1413     0.1095   -0.0001  0.0038   0.0100  0.0727
cap_2                0.0086        0.0085     0.0203    0.0002  0.0003   0.0022  0.0791
capshare_1           0.9146        0.9159     0.1417   -0.0012  0.0049   0.0085  0.0606
lndistance           3.6352        3.6391     3.9759   -0.0040  0.0000   0.1598  5.9713
democracy1           0.5625        0.5625     0.4995    0.0000  0.0000   0.0411  1.0000
democracy2           0.2250        0.2250     0.4205    0.0000  0.0000   0.0548  1.0000
democracy1_2         0.2000        0.2000     0.4028    0.0000  0.0000   0.0548  1.0000
allydum              0.3125        0.3125     0.4667    0.0000  0.0000   0.0411  1.0000
lnenergyparity      11.0650       11.0810     3.5731   -0.0160  0.1120   0.1917  1.1579
lnmilparity          6.7472        6.7465     1.8858    0.0007  0.0965   0.1698  0.9979

Percent Balance Improvement:
              Mean Diff.  eQQ Med eQQ Mean eQQ Max
distance          99.8405  91.5594  91.2079 98.3030
cap_1             99.8740  96.3010  89.3793 65.3525
cap_2             99.5433  94.0763  94.2877 69.1600
capshare_1        99.7010  98.8493  97.9432 93.2356
lndistance        99.7948 100.0000  91.6457 26.3646
democracy1       100.0000   0.0000  80.6608  0.0000
democracy2       100.0000   0.0000  56.1644  0.0000
democracy1_2     100.0000   0.0000  12.3288  0.0000
allydum          100.0000   0.0000  74.7102  0.0000
lnenergyparity    94.9623  79.4974  68.5679 59.9384
lnmilparity       99.9228  86.1042  81.0200 47.9447

Sample sizes:
          Control Treated
All        122206      80
Matched        73      80
Unmatched  122133       0
Discarded       0       0
```

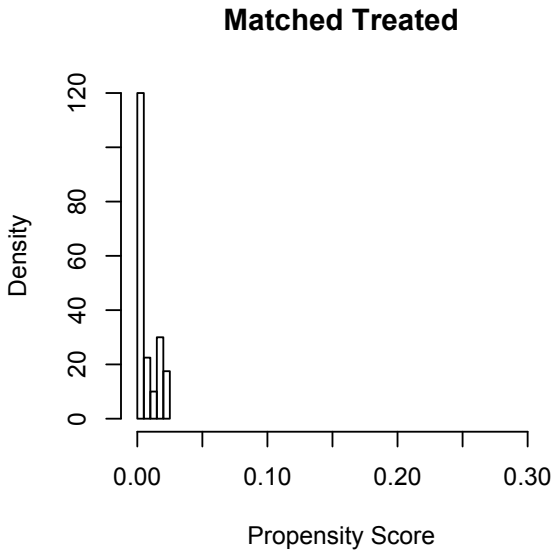

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

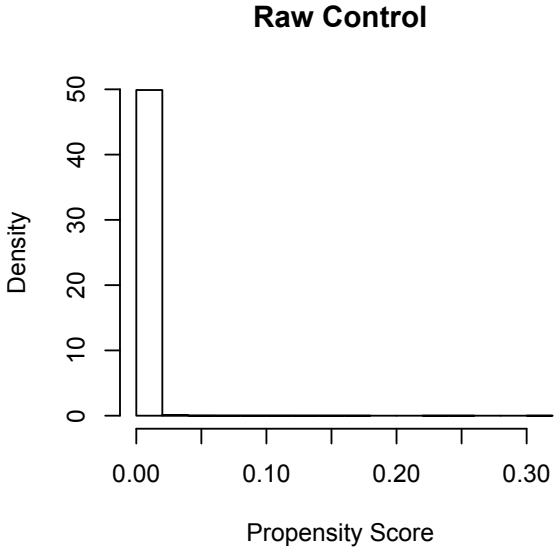

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

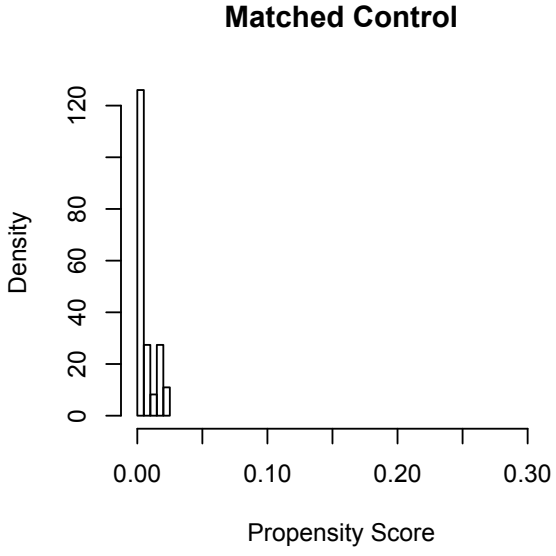

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
20
40
60
80
120
0.00
0.10
0.20
0.30
Propensity Score


Matched Treated
Density
0
20
40
60
80
120
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
20
40
60
80
120
0.00
0.10
0.20
0.30
Propensity Score

***S* SCORE**

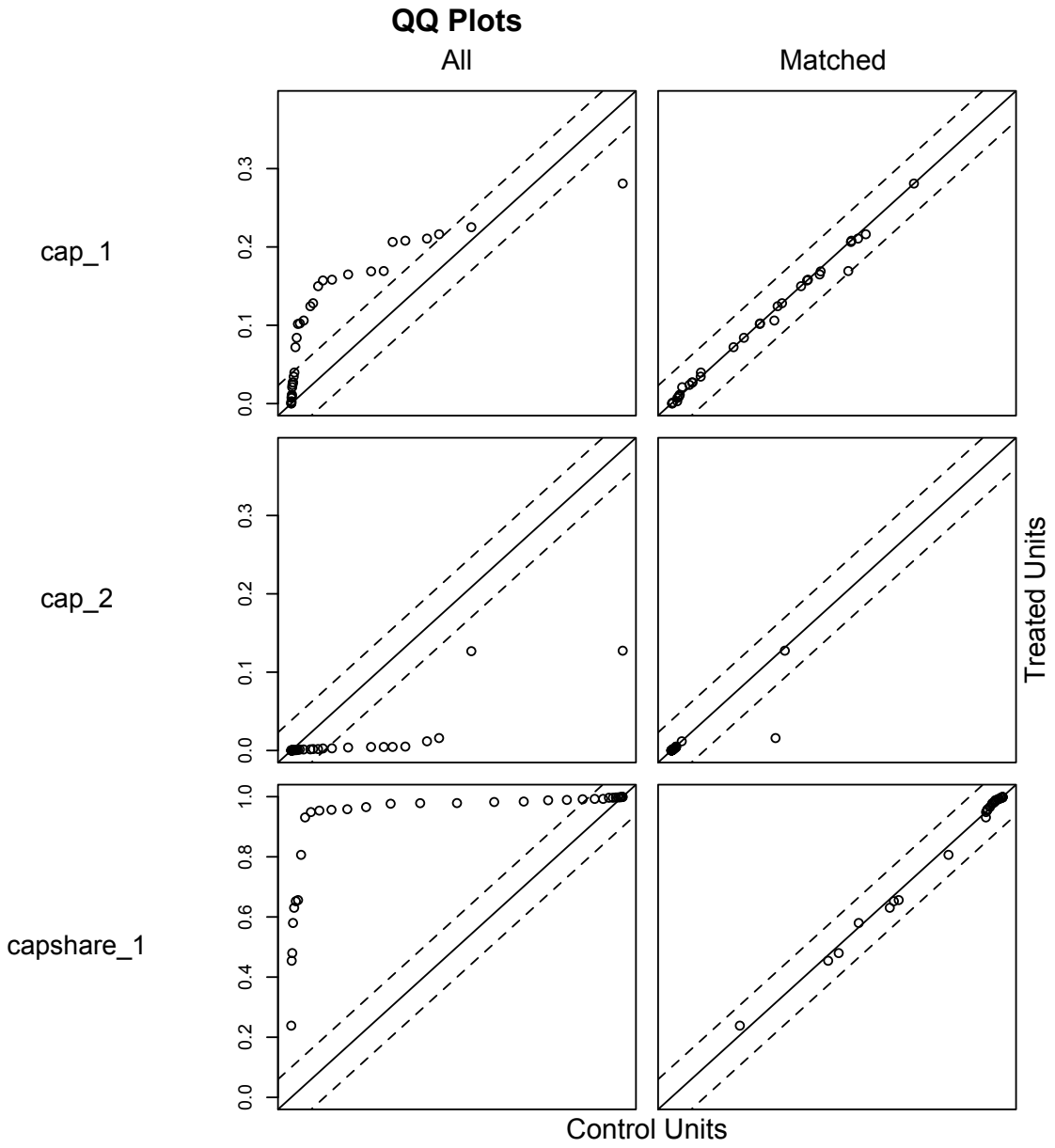
```
ttest s_wt_glo_diff10, by(abdfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      73   -.0814351    .0399254    .3411224   -.1610248   -.0018453
       1 |      80   -.0289445    .0468663     .419185   -.1222296    .0643405
---------+--------------------------------------------------------------------
combined |     153    -.053989    .0310111    .3835857   -.1152574    .0072793
---------+--------------------------------------------------------------------
    diff |           -.0524905    .0621458               -.1752781     .070297
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -0.8446
Ho: diff = 0                                     degrees of freedom =      151

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1998         Pr(|T| > |t|) = 0.3997          Pr(T > t) = 0.8002

reg s_wt_glo_diff10 abdfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)

Linear regression                               Number of obs     =        153
                                                F(11, 121)        =       5.93
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1797
                                                Root MSE          =     .36072

                                (Std. Err. adjusted for 122 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
s_wt_glo_di~10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
---------------+--------------------------------------------------------------
   abdfircinit |   .0411593   .0624332     0.66   0.511    -.0824436    .1647622
         cap_1 |   1.091933   .4632704     2.36   0.020     .1747667    2.009098
         cap_2 |  -4.156519   2.232385    -1.86   0.065    -8.576114    .2630755
    capshare_1 |  -1.324259   .3672518    -3.61   0.000    -2.051331   -.5971873
    lndistance |  -.0125298   .0132805    -0.94   0.347    -.0388221    .0137625
    democracy1 |  -.1123582   .1132244    -0.99   0.323    -.3365158    .1117995
    democracy2 |   .1638534   .1140904     1.44   0.154    -.0620187    .3897254
  democracy1_2 |   -.221908   .1514379    -1.47   0.145    -.5217193    .0779033
       allydum |  -.0811324    .064029    -1.27   0.208    -.2078947    .0456298
lnenergyparity |   .0188643    .017958     1.05   0.296    -.0166882    .0544168
   lnmilparity |   .0510079   .0240003     2.13   0.036      .003493    .0985228
         _cons |   .6114902   .2373833     2.58   0.011     .1415272    1.081453
------------------------------------------------------------------------------
```

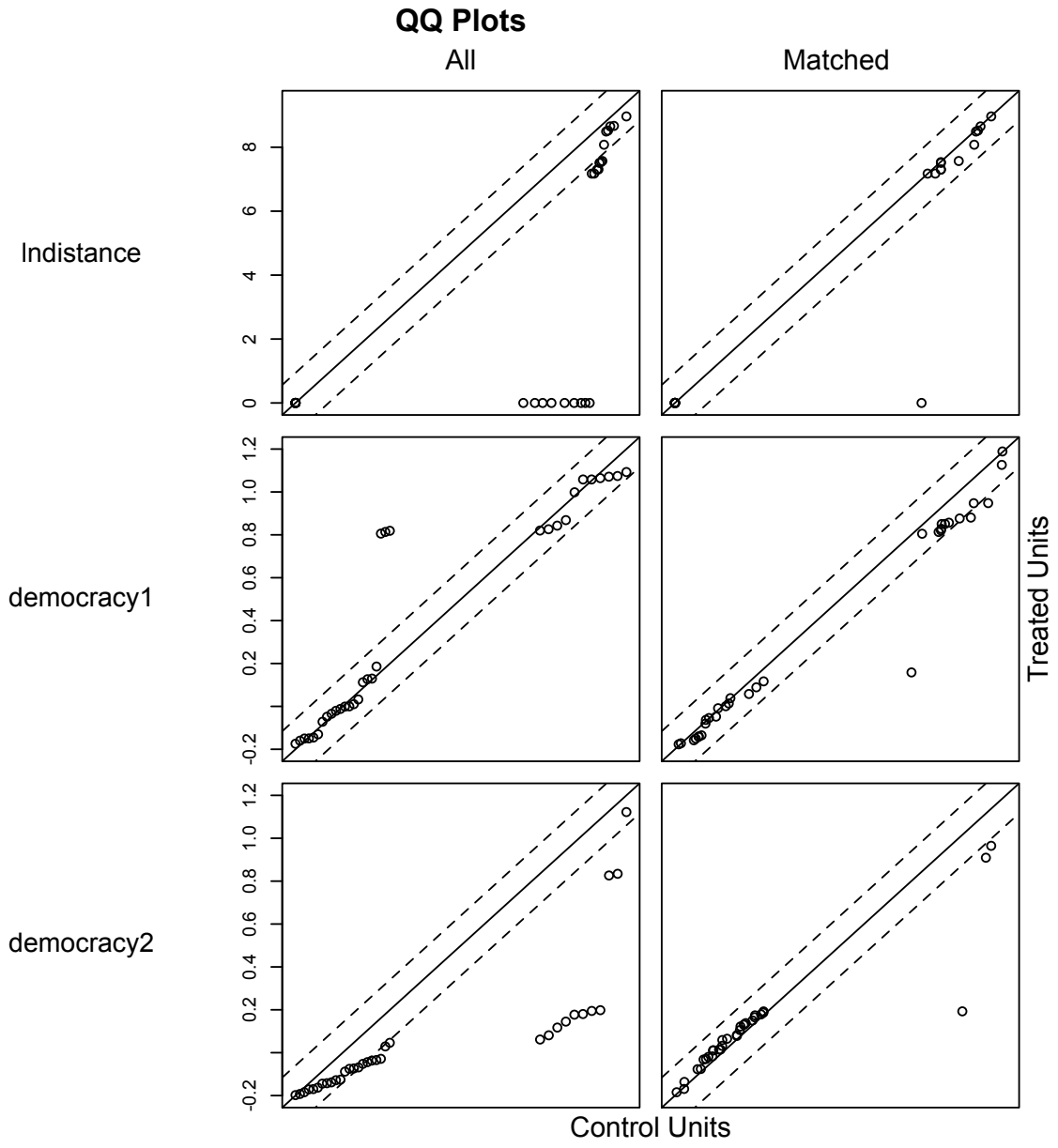
TAU-B

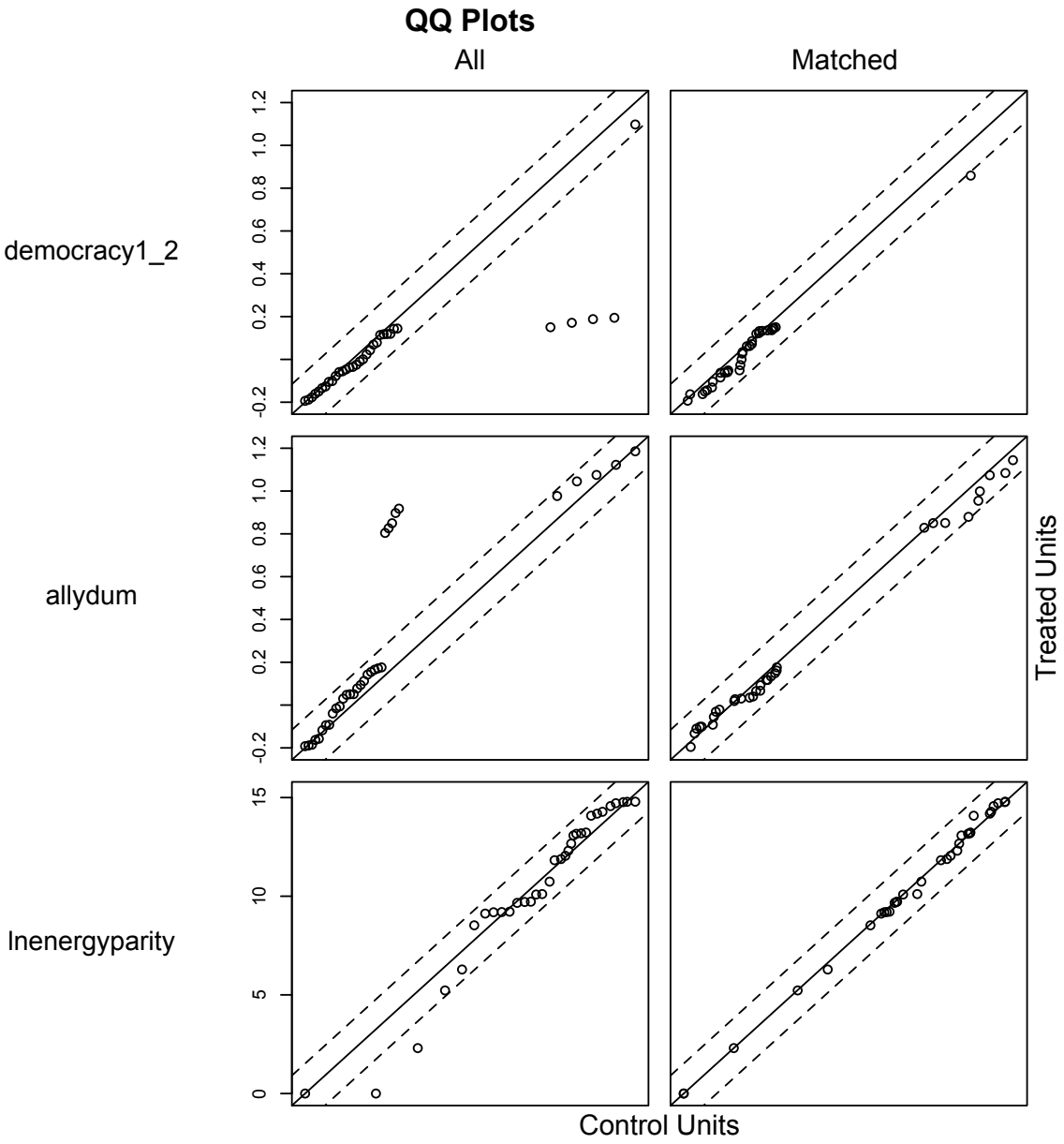
```
ttest tau_glob_diff10, by(abdfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      73    .0468589    .0322516    .2755578   -.0174335    .1111513
       1 |      80    .1268908    .0475398    .4252085    .0322653    .2215163
---------+--------------------------------------------------------------------
combined |     153    .0887056     .029322    .3626925    .0307744    .1466368
---------+--------------------------------------------------------------------
    diff |           -.0800319    .0585383               -.1956917     .035628
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.3672
Ho: diff = 0                                     degrees of freedom =      151

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0868         Pr(|T| > |t|) = 0.1736          Pr(T > t) = 0.9132


reg tau_glob_diff10 abdfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)

Linear regression                               Number of obs     =        153
                                                F(11, 121)        =       5.10
                                                Prob > F          =     0.0000
                                                R-squared         =     0.2945
                                                Root MSE          =     .31631

                                (Std. Err. adjusted for 122 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
tau_glob_di~10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
---------------+--------------------------------------------------------------
   abdfircinit |   .0530832   .0552527     0.96   0.339    -.0563041    .1624705
         cap_1 |   .4556225   .3288123     1.39   0.168    -.1953482    1.106593
         cap_2 |  -2.046881   1.686395    -1.21   0.227    -5.385545    1.291783
    capshare_1 |  -.2844958    .339617    -0.84   0.404    -.9568573    .3878657
    lndistance |  -.0199586    .009202    -2.17   0.032    -.0381764   -.0017409
    democracy1 |   .0570477    .091222     0.63   0.533    -.1235502    .2376456
    democracy2 |  -.1262719   .0967178    -1.31   0.194    -.3177503    .0652065
  democracy1_2 |   .2174332   .1376786     1.58   0.117     -.055138    .4900044
       allydum |  -.3155394    .059065    -5.34   0.000    -.4324741   -.1986047
lnenergyparity |   .0001019   .0162663     0.01   0.995    -.0321014    .0323053
   lnmilparity |   .0436014   .0242361     1.80   0.075    -.0043804    .0915833
         _cons |   .1160134   .2149549     0.54   0.590    -.3095466    .5415734
------------------------------------------------------------------------------
```

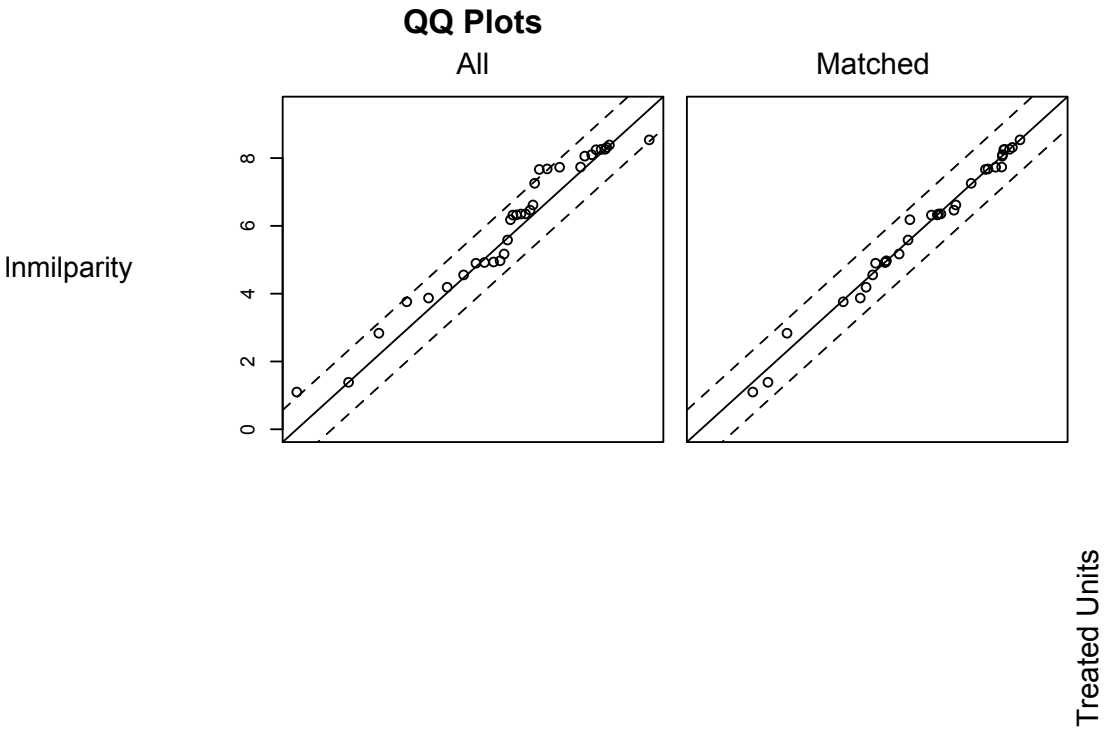
LEADERSHIP FIRC

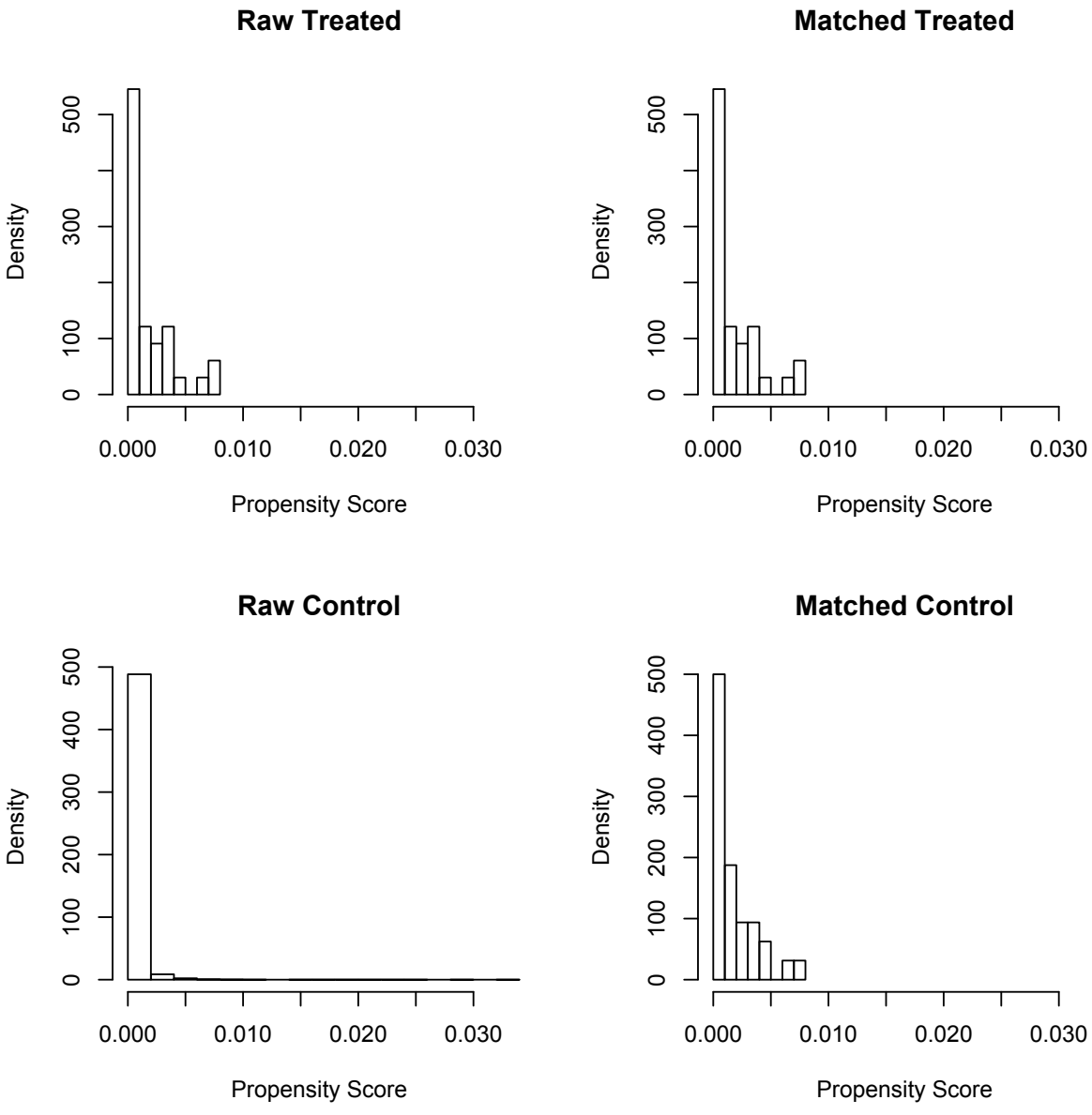
```
summary(fircs.out2)

Call:
matchit(formula = abdleadfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = fircs, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0018        0.0003     0.0007    0.0016  0.0008   0.0022  0.0258
cap_1                 0.0985        0.0446     0.0670    0.0539  0.0535   0.0545  0.1205
cap_2                 0.0098        0.0445     0.0670   -0.0348  0.0070   0.0404  0.2565
capshare_1            0.8801        0.5002     0.4148    0.3800  0.3699   0.3800  0.8894
lndistance            3.1195        5.5618     3.8868   -2.4423  0.6781   2.3844  8.3490
democracy1            0.4242        0.3424     0.4745    0.0819  0.0000   0.0909  1.0000
democracy2            0.0909        0.3422     0.4745   -0.2513  0.0000   0.2424  1.0000
democracy1_2          0.0303        0.1385     0.3454   -0.1082  0.0000   0.1212  1.0000
allydum               0.3030        0.1518     0.3588    0.1512  0.0000   0.1515  1.0000
lnenergyparity       10.5649       10.7479     3.1024   -0.1831  0.5070   0.6326  3.2581
lnmilparity           6.0911        5.8634     1.9143    0.2278  0.3334   0.3895  1.1741


Summary of balance for matched data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0018        0.0018     0.0021    0.0000  0.0000   0.0000  0.0003
cap_1                 0.0985        0.0986     0.0847   -0.0001  0.0010   0.0035  0.0357
cap_2                 0.0098        0.0098     0.0301    0.0000  0.0003   0.0038  0.1048
capshare_1            0.8801        0.8805     0.1969   -0.0003  0.0064   0.0097  0.0318
lndistance            3.1195        3.1239     3.9570   -0.0044  0.0000   0.2756  6.9985
democracy1            0.4242        0.4242     0.5021    0.0000  0.0000   0.0312  1.0000
democracy2            0.0909        0.0909     0.2921    0.0000  0.0000   0.0312  1.0000
democracy1_2          0.0303        0.0303     0.1742    0.0000  0.0000   0.0000  0.0000
allydum               0.3030        0.3030     0.4669    0.0000  0.0000   0.0000  0.0000
lnenergyparity       10.5649       10.5626     3.9485    0.0022  0.0793   0.1455  0.7413
lnmilparity           6.0911        6.1083     1.9894   -0.0172  0.0591   0.1423  0.5911

Percent Balance Improvement:
               Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance          99.1976  97.6476  97.8672  98.8264
cap_1             99.7669  98.2135  93.6561  70.3703
cap_2             99.9945  95.4565  90.6073  59.1264
capshare_1        99.9091  98.2603  97.4555  96.4232
lndistance        99.8207 100.0000  88.4407  16.1756
democracy1       100.0000   0.0000  65.6250   0.0000
democracy2       100.0000   0.0000  87.1094   0.0000
democracy1_2     100.0000   0.0000 100.0000 100.0000
allydum          100.0000   0.0000 100.0000 100.0000
lnenergyparity    98.7903  84.3659  77.0010  77.2487
lnmilparity       92.4562  82.2871  63.4743  49.6549

Sample sizes:
          Control Treated
All        122253      33
Matched        32      33
Unmatched  122221       0
Discarded       0       0
```


QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0


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
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
100
300
500
0.000
0.010
0.020
0.030
Propensity Score
Matched Treated
Density
0
100
300
500
0.000
0.010
0.020
0.030
Propensity Score
Raw Control
Density
0
100
200
300
400
500
0.000
0.010
0.020
0.030
Propensity Score
Matched Control
Density
0
100
200
300
400
500
0.000
0.010
0.020
0.030
Propensity Score

***S* SCORE**

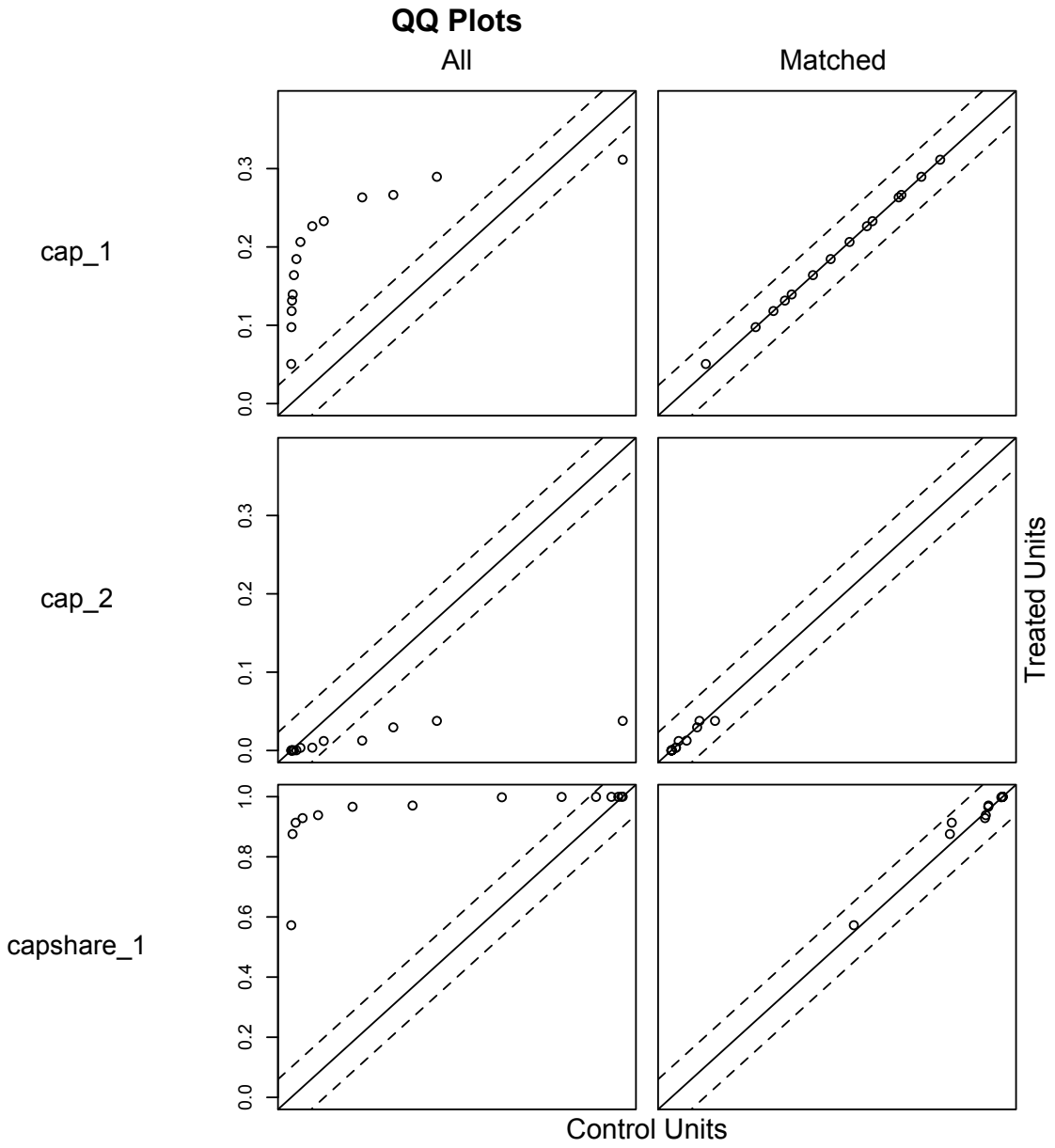
```
ttest s_wt_glo_diff10, by(abdleadfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      32     .010675    .0303314    .1715802   -.0511863    .0725362
       1 |      33   -.0704018    .0356846    .2049924   -.1430889    .0022854
---------+--------------------------------------------------------------------
combined |      65   -.0304871     .023839    .1921965    -.078111    .0171369
---------+--------------------------------------------------------------------
    diff |            .0810768    .0469626               -.0127706    .1749241
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   1.7264
Ho: diff = 0                                     degrees of freedom =       63

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9554         Pr(|T| > |t|) = 0.0892          Pr(T > t) = 0.0446

reg s_wt_glo_diff10 abdleadfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)

Linear regression                               Number of obs     =         65
                                                F(11, 57)         =      15.88
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3967
                                                Root MSE          =     .16404

                                 (Std. Err. adjusted for 58 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
s_wt_glo_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
abdleadfircinit |  -.0816661   .0404922    -2.02   0.048    -.1627503   -.0005819
          cap_1 |  -.1344734   .2944013    -0.46   0.650    -.7240019    .4550551
          cap_2 |  -1.597203    1.71272    -0.93   0.355    -5.026866     1.83246
     capshare_1 |  -.3340759   .2803047    -1.19   0.238    -.8953765    .2272246
     lndistance |  -.0004097   .0070605    -0.06   0.954    -.0145481    .0137287
     democracy1 |  -.0477606   .0800268    -0.60   0.553    -.2080116    .1124903
     democracy2 |   .1990423   .1332125     1.49   0.141    -.0677112    .4657957
   democracy1_2 |  -.5021949   .1445017    -3.48   0.001    -.7915545   -.2128352
        allydum |  -.0363132   .0540581    -0.67   0.504    -.1445626    .0719363
 lnenergyparity |  -.0086056   .0145719    -0.59   0.557    -.0377853     .020574
    lnmilparity |   .0533946   .0269348     1.98   0.052    -.0005415    .1073306
          _cons |   .1294996    .172834     0.75   0.457    -.2165946    .4755937
------------------------------------------------------------------------------
```

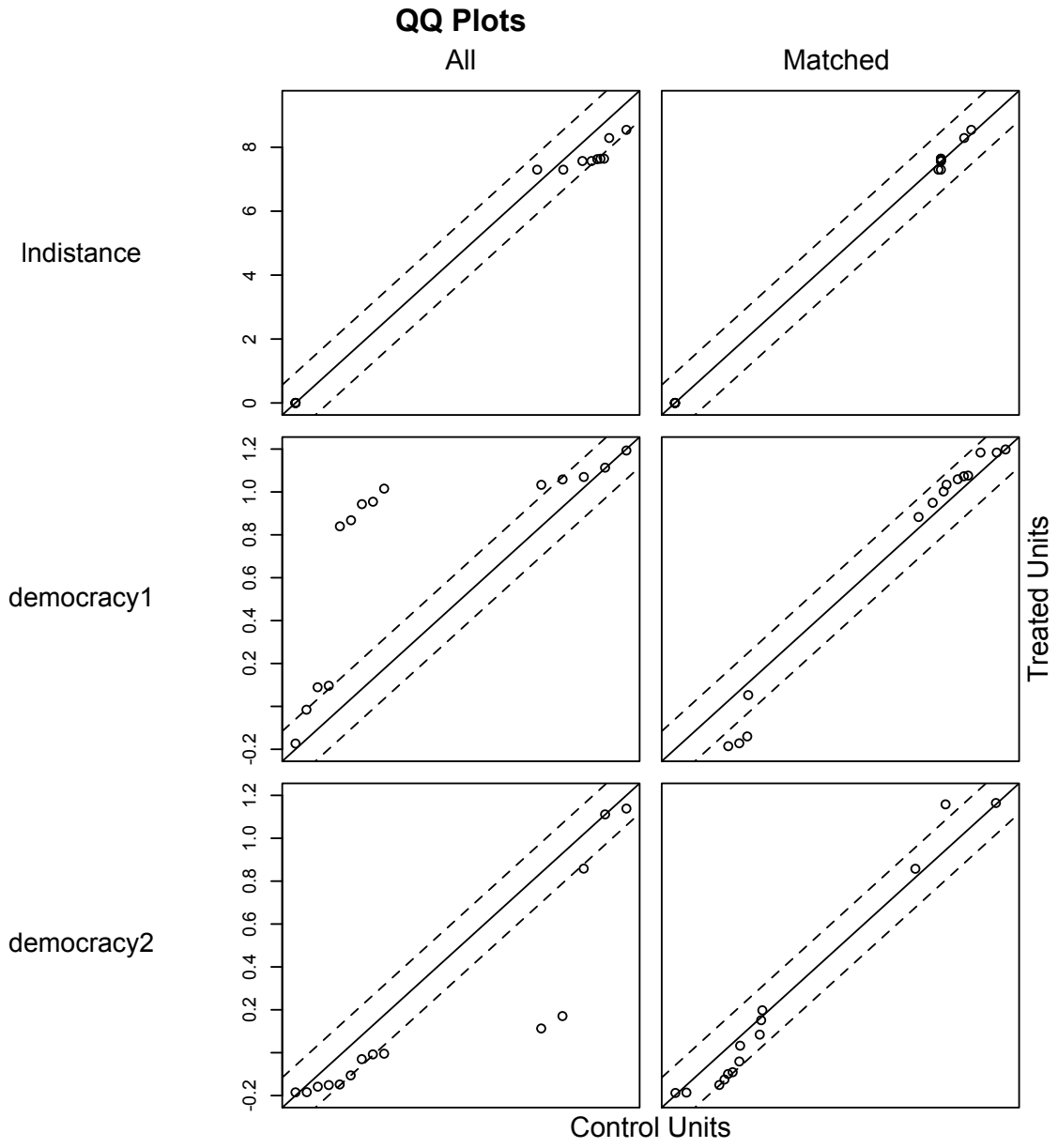
TAU-B

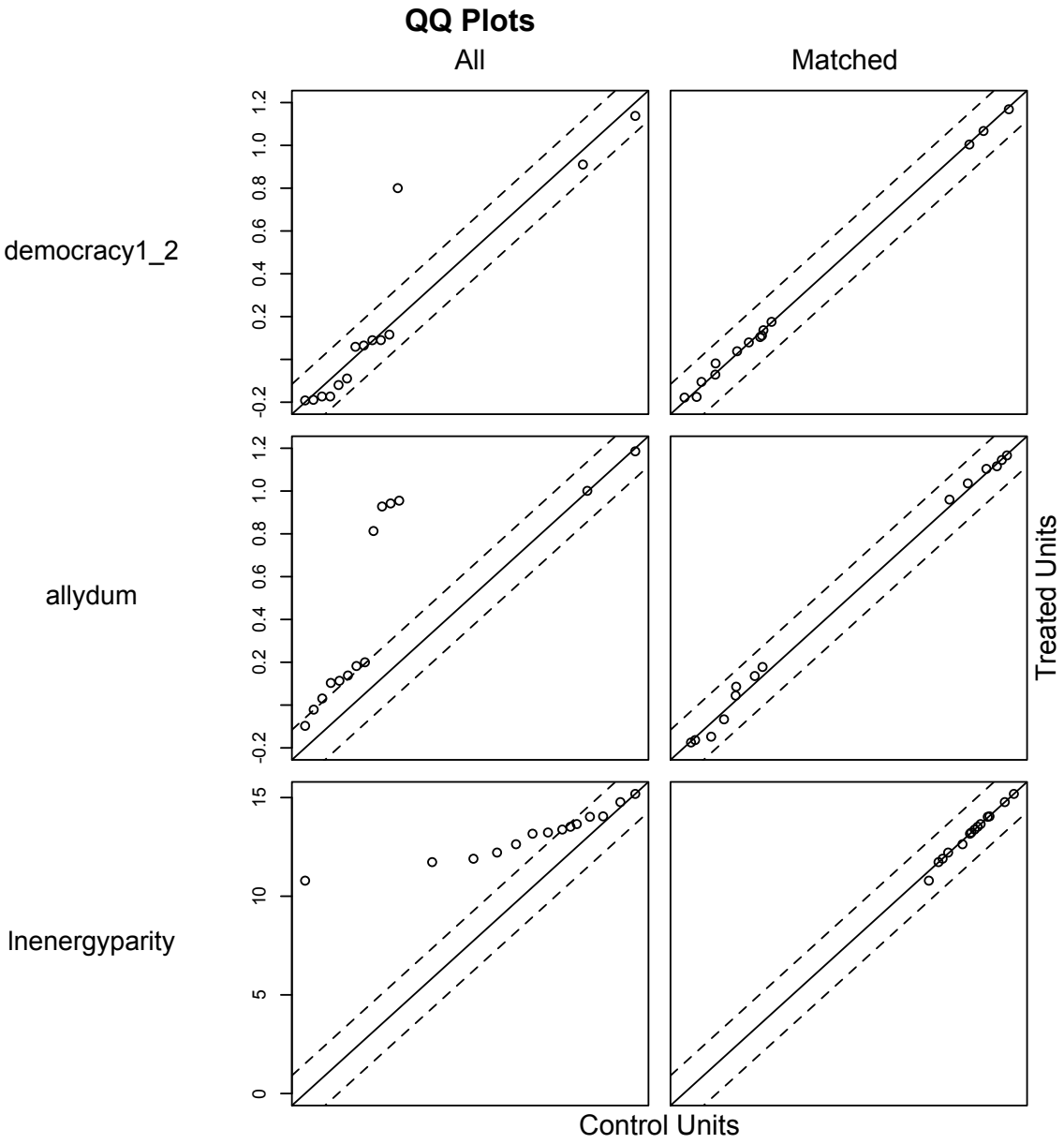
```
ttest tau_glob_diff10, by(abdleadfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      32    .0007872    .0222362    .1257871   -.0445639    .0461383
       1 |      33   -.0343319    .0436958    .2510133   -.1233374    .0546735
---------+--------------------------------------------------------------------
combined |      65   -.0170425    .0246454     .198698   -.0662775    .0321924
---------+--------------------------------------------------------------------
    diff |            .0351192     .049489               -.0637768    .1340151
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =   0.7096
Ho: diff = 0                                     degrees of freedom =       63

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.7597         Pr(|T| > |t|) = 0.4805          Pr(T > t) = 0.2403


reg tau_glob_diff10 abdleadfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)

Linear regression                               Number of obs     =         65
                                                F(11, 57)         =       2.41
                                                Prob > F          =     0.0155
                                                R-squared         =     0.2510
                                                Root MSE          =     .18896

                                (Std. Err. adjusted for 58 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
tau_glob_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
abdleadfircinit |  -.0308333   .0439406    -0.70   0.486    -.1188229    .0571563
          cap_1 |   .5450667   .3324171     1.64   0.107     -.120587     1.21072
          cap_2 |   .6182355   1.531219     0.40   0.688    -2.447978    3.684449
     capshare_1 |   .2016734   .3273577     0.62   0.540    -.4538491    .8571959
     lndistance |   .0010103   .0079833     0.13   0.900     -.014976    .0169966
     democracy1 |   .0119414   .0773064     0.15   0.878    -.1428619    .1667448
     democracy2 |  -.0302217    .070364    -0.43   0.669    -.1711232    .1106797
   democracy1_2 |   .0075821   .0787015     0.10   0.924    -.1500149    .1651791
        allydum |  -.1928057   .0725536    -2.66   0.010    -.3380917   -.0475197
 lnenergyparity |   -.022436   .0197995    -1.13   0.262    -.0620839    .0172119
    lnmilparity |   .0209628   .0231847     0.90   0.370    -.0254638    .0673894
          _cons |  -.0786463   .1659516    -0.47   0.637    -.4109587    .2536662
------------------------------------------------------------------------------
```

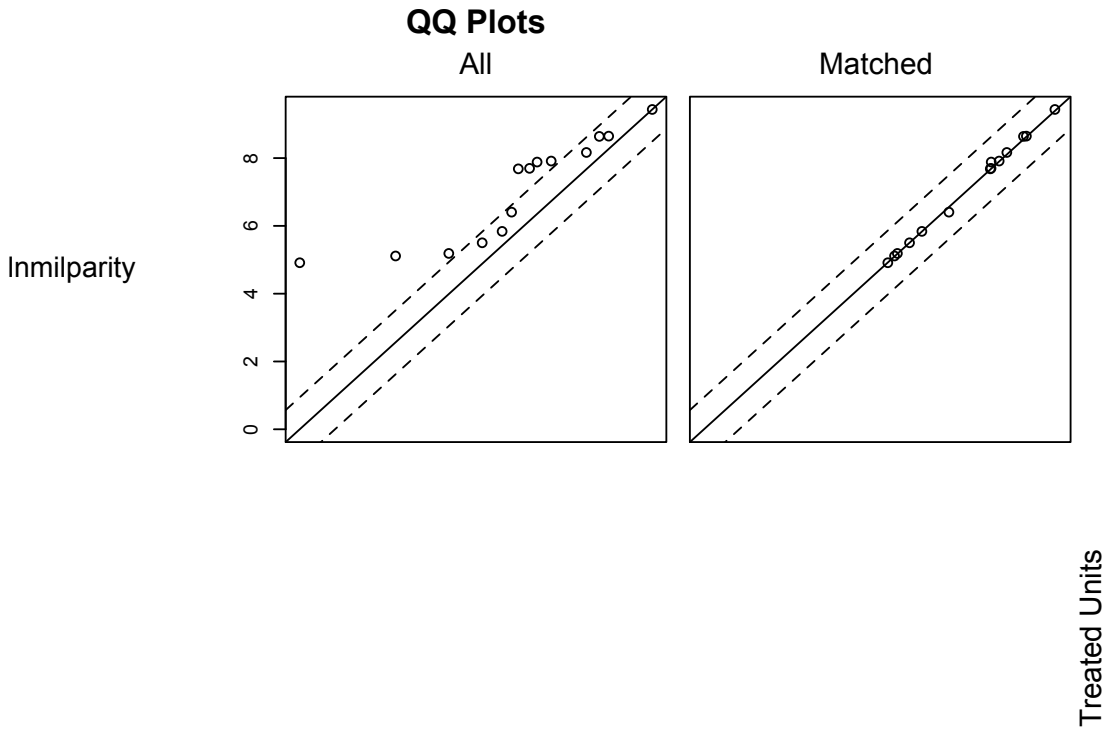
INSTITUTIONAL FIRC

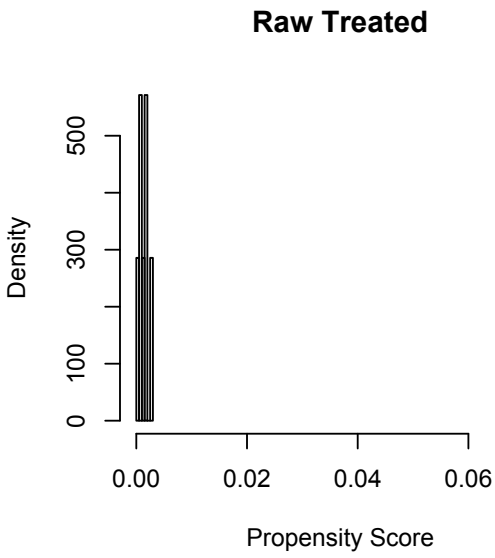
```
summary(fircs.out3)

Call:
matchit(formula = abdinstfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = fircs, method = "genetic",
    pop.size = 150)

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     0.0007    0.0012  0.0014   0.0061  0.0710
cap_1                 0.1916        0.0446     0.0670    0.1470  0.1430   0.1421  0.2021
cap_2                 0.0098        0.0445     0.0670   -0.0347  0.0064   0.0500  0.3461
capshare_1            0.9400        0.5002     0.4148    0.4398  0.4675   0.4398  0.9000
lndistance            4.9625        5.5612     3.8870   -0.5987  0.5066   0.4772  1.1157
democracy1            0.7143        0.3423     0.4745    0.3720  0.0000   0.3571  1.0000
democracy2            0.2143        0.3422     0.4744   -0.1279  0.0000   0.1429  1.0000
democracy1_2          0.2143        0.1384     0.3454    0.0758  0.0000   0.0714  1.0000
allydum               0.4286        0.1518     0.3588    0.2768  0.0000   0.2857  1.0000
lnenergyparity       13.1601       10.7476     3.1027    2.4125  1.8047   2.6764 10.7880
lnmilparity           7.0727        5.8633     1.9143    1.2094  0.9590   1.2872  4.9127


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                 0.1916        0.1908     0.0795    0.0008  0.0000   0.0008  0.0107
cap_2                 0.0098        0.0108     0.0160   -0.0010  0.0003   0.0022  0.0128
capshare_1            0.9400        0.9311     0.1222    0.0089  0.0063   0.0129  0.0673
lndistance            4.9625        4.9558     3.8428    0.0068  0.0499   0.0678  0.2496
democracy1            0.7143        0.7143     0.4688    0.0000  0.0000   0.0000  0.0000
democracy2            0.2143        0.2143     0.4258    0.0000  0.0000   0.0000  0.0000
democracy1_2          0.2143        0.2143     0.4258    0.0000  0.0000   0.0000  0.0000
allydum               0.4286        0.4286     0.5136    0.0000  0.0000   0.0000  0.0000
lnenergyparity       13.1601       13.2032     1.1399   -0.0431  0.0046   0.0573  0.4873
lnmilparity           7.0727        7.0495     1.4993    0.0232  0.0166   0.0457  0.1952

Percent Balance Improvement:
               Mean Diff.  eQQ Med eQQ Mean  eQQ Max
distance          98.4587  97.0639  98.4365  99.2753
cap_1             99.4813 100.0000  99.4635  94.7199
cap_2             97.1635  95.1763  95.5058  96.2991
capshare_1        97.9698  98.6485  97.0648  92.5170
lndistance        98.8712  90.1402  85.7981  77.6308
democracy1       100.0000   0.0000 100.0000 100.0000
democracy2       100.0000   0.0000 100.0000 100.0000
democracy1_2     100.0000   0.0000 100.0000 100.0000
allydum          100.0000   0.0000 100.0000 100.0000
lnenergyparity    98.2126  99.7431  97.8593  95.4827
lnmilparity       98.0840  98.2715  96.4523  96.0275

Sample sizes:
          Control Treated
All        122272      14
Matched        14      14
Unmatched  122258       0
Discarded       0       0
```

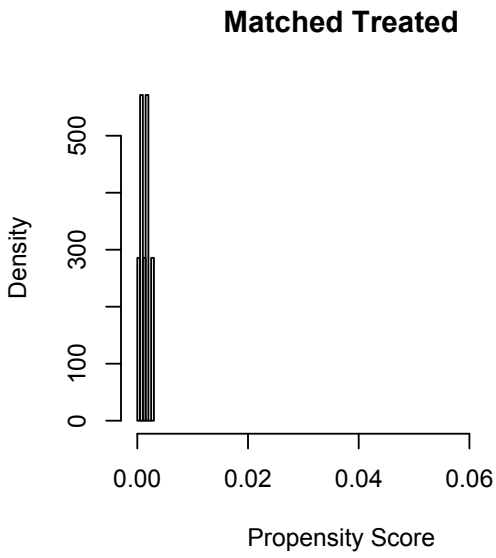

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

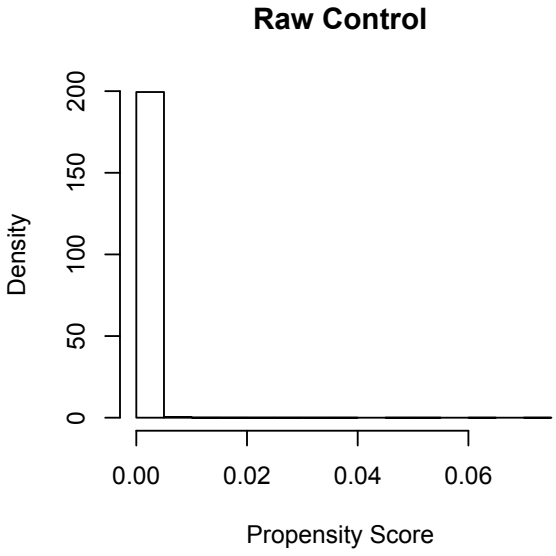

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

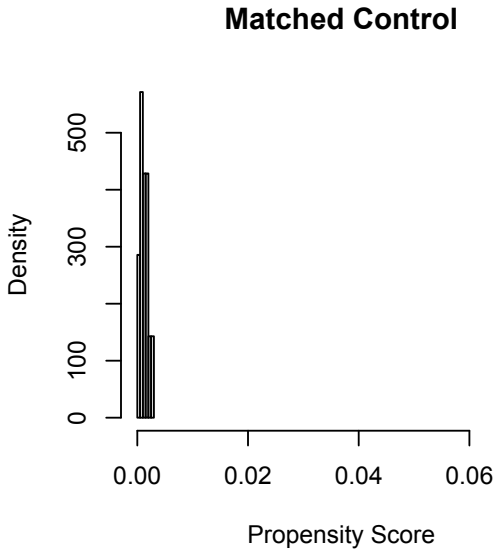

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
100
300
500
0.00
0.02
0.04
0.06
Propensity Score


Matched Treated
Density
0
100
300
500
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
100
300
500
0.00
0.02
0.04
0.06
Propensity Score

***S* SCORE**

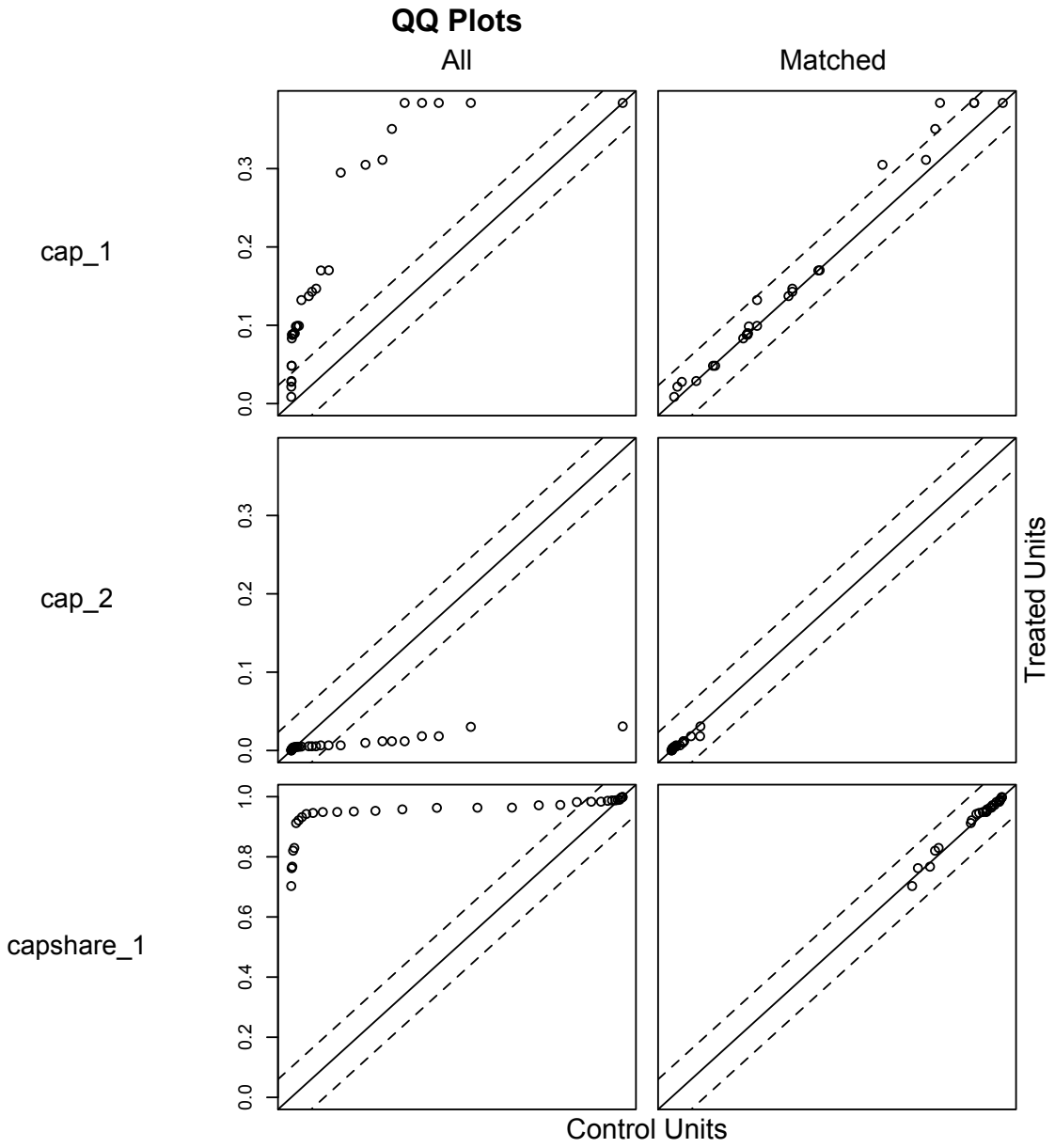
```
ttest s_wt_glo_diff10, by(abdinstfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      14   -.0049871    .0810508    .3032643   -.1800867    .1701125
       1 |      14    .1705953    .0797254     .298305   -.0016409    .3428315
---------+--------------------------------------------------------------------
combined |      28    .0828041    .0582848    .3084142   -.0367864    .2023946
---------+--------------------------------------------------------------------
    diff |           -.1755824    .1136898               -.4092751    .0581104
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.5444
Ho: diff = 0                                     degrees of freedom =       26

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0673         Pr(|T| > |t|) = 0.1346          Pr(T > t) = 0.9327

reg s_wt_glo_diff10 abdinstfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)
note: democracy1_2 omitted because of collinearity

Linear regression                               Number of obs     =         28
                                                F(10, 19)         =       4.12
                                                Prob > F          =     0.0039
                                                R-squared         =     0.5021
                                                Root MSE          =     .27425

                                   (Std. Err. adjusted for 20 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
s_wt_glo_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
abdinstfircinit |   .1591256   .1191831     1.34   0.198    -.0903276    .4085787
          cap_1 |    2.40965   1.558268     1.55   0.139    -.8518435    5.671143
          cap_2 |   35.19909   15.31018     2.30   0.033      3.15452    67.24366
     capshare_1 |   7.142773   4.335644     1.65   0.116    -1.931834    16.21738
     lndistance |  -.4467605   .1975706    -2.26   0.036    -.8602805   -.0332405
     democracy1 |   2.368243   1.181143     2.01   0.059    -.1039171    4.840403
     democracy2 |  -.2938265   .5401414    -0.54   0.593    -1.424356    .8367025
   democracy1_2 |          0  (omitted)
        allydum |   .1450139   .1508954     0.96   0.349    -.1708139    .4608417
 lnenergyparity |   .2459183   .2400975     1.02   0.319    -.2566115    .7484481
    lnmilparity |  -.0384284   .1850693    -0.21   0.838     -.425783    .3489261
          _cons |  -9.949336   4.821063    -2.06   0.053    -20.03994     .141266
------------------------------------------------------------------------------
```

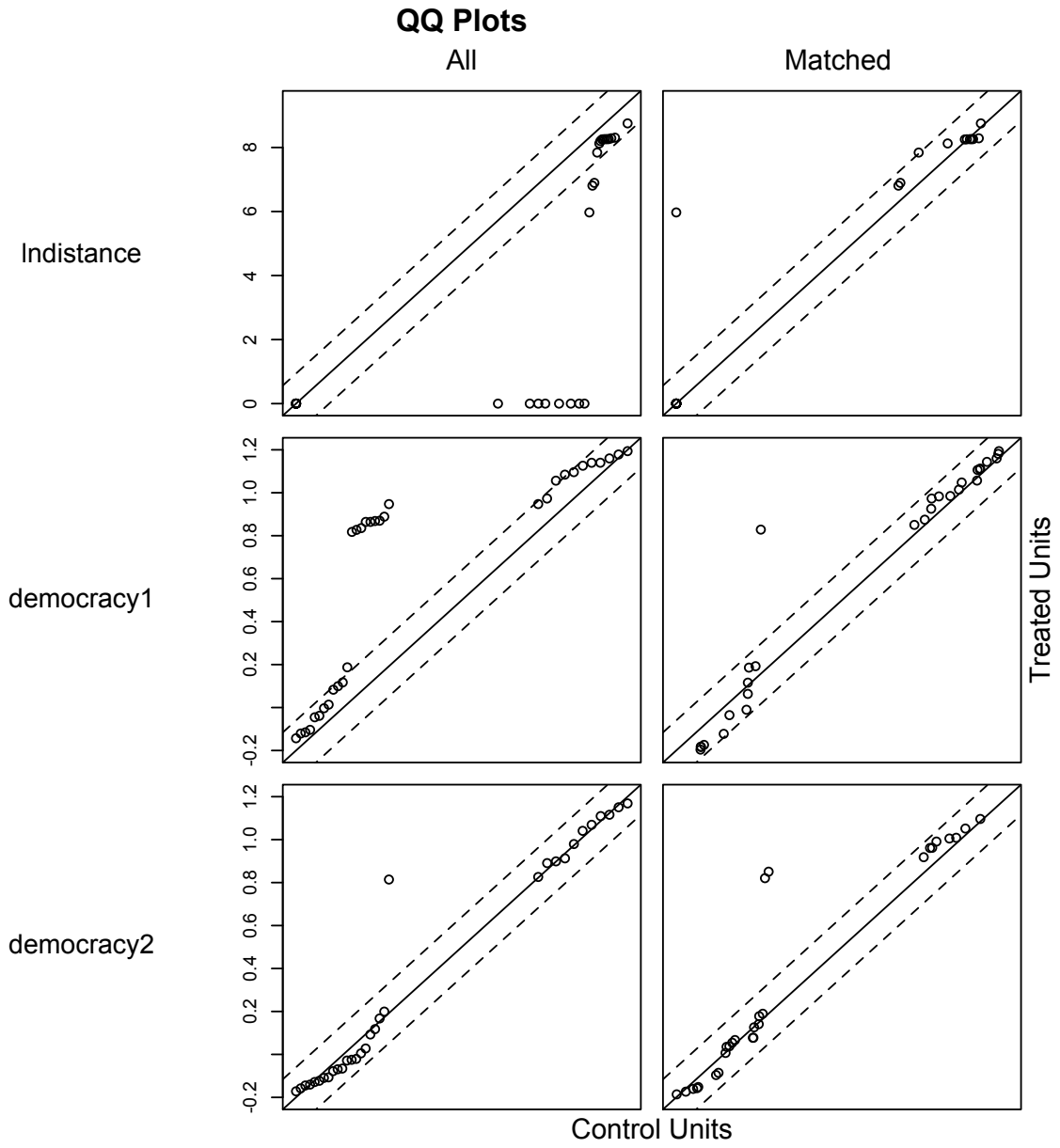
TAU-B

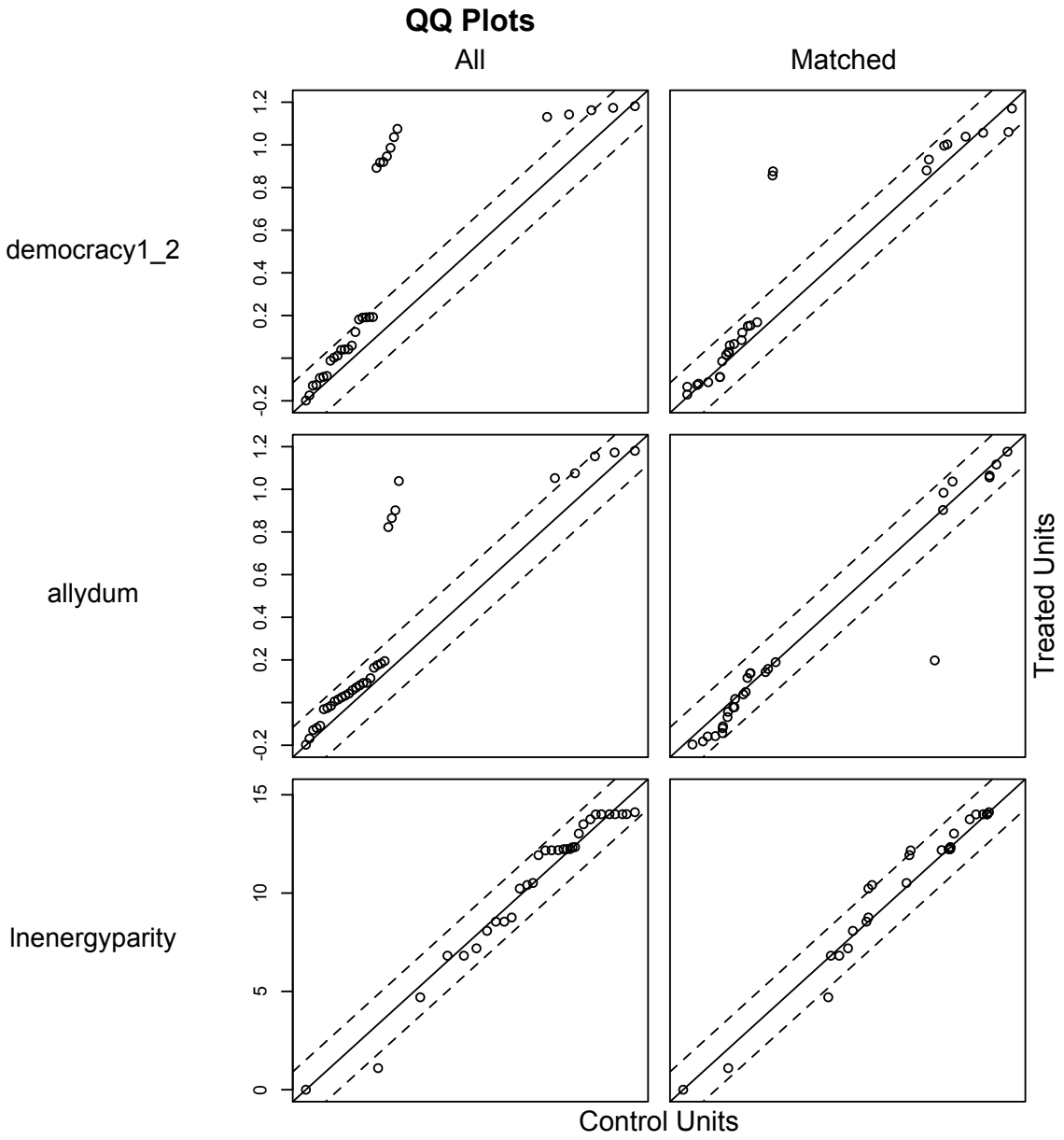
```
ttest tau_glob_diff10, by(abdinstfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      14    .0690079    .0809745    .3029787   -.1059268    .2439426
       1 |      14    .2742972    .1037404    .3881609    .0501798    .4984146
---------+--------------------------------------------------------------------
combined |      28    .1716525    .0675247    .3573073    .0331032    .3102019
---------+--------------------------------------------------------------------
    diff |           -.2052894    .1316014               -.4757999    .0652212
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.5599
Ho: diff = 0                                     degrees of freedom =       26

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0654         Pr(|T| > |t|) = 0.1309          Pr(T > t) = 0.9346


reg tau_glob_diff10 abdinstfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)
note: democracy1_2 omitted because of collinearity

Linear regression                               Number of obs     =         28
                                                F(10, 19)         =       2.75
                                                Prob > F          =     0.0279
                                                R-squared         =     0.2399
                                                Root MSE          =     .39258

                                  (Std. Err. adjusted for 20 clusters in dyad_id)
------------------------------------------------------------------------------
                |               Robust
tau_glob_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
abdinstfircinit |   .2200982   .1548217     1.42   0.171    -.1039473    .5441437
          cap_1 |   1.605171   2.438782     0.66   0.518    -3.499259    6.709601
          cap_2 |   6.179936   19.40835     0.32   0.754    -34.44222    46.80209
     capshare_1 |  -.3602465   6.136371    -0.06   0.954    -13.20382    12.48333
     lndistance |  -.0823006   .2664422    -0.31   0.761    -.6399705    .4753693
     democracy1 |   .2847849   1.397439     0.20   0.841    -2.640088    3.209658
     democracy2 |  -.2691565   .7823508    -0.34   0.735    -1.906636    1.368323
   democracy1_2 |          0  (omitted)
        allydum |  -.2966672   .2048873    -1.45   0.164    -.7255013    .1321669
 lnenergyparity |   .1596991   .3138773     0.51   0.617    -.4972537    .8166519
    lnmilparity |   .0305767   .2204525     0.14   0.891    -.4308356    .4919891
          _cons |  -1.903656   6.728386    -0.28   0.780    -15.98633    12.17902
------------------------------------------------------------------------------
```

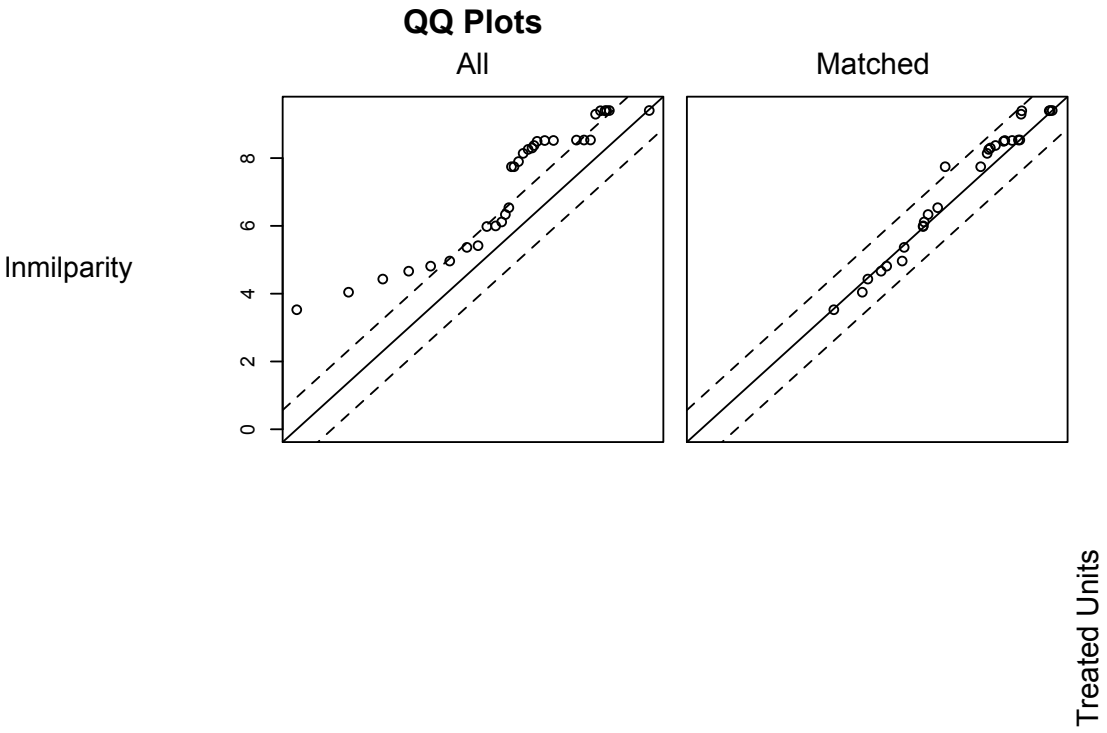
RESTORATION FIRC

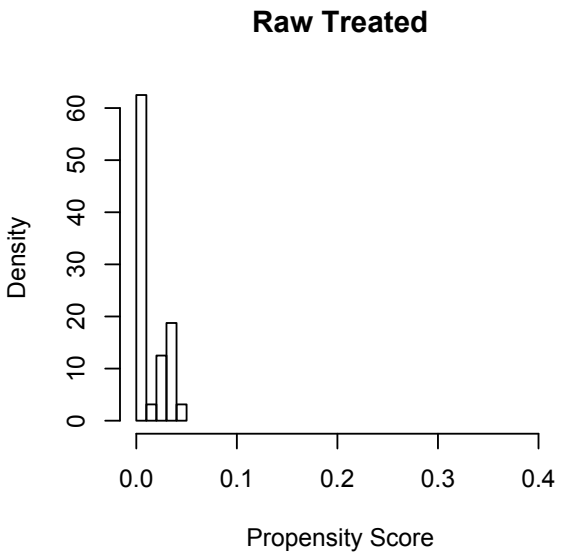
```
summary(fircs.out4)

Call:
matchit(formula = abdrestfircinit ~ cap_1 + cap_2 + capshare_1 +
    lndistance + democracy1 + democracy2 + democracy1_2 + allydum +
    lnenergyparity + lnmilparity, data = fircs, method = "genetic",
    pop.size = 150)

Summary of balance for all data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0129        0.0003     0.0026    0.0126  0.0043   0.0227  0.3615
cap_1                 0.1645        0.0446     0.0670    0.1199  0.0914   0.1141  0.2525
cap_2                 0.0070        0.0446     0.0670   -0.0375  0.0031   0.0440  0.3531
capshare_1            0.9378        0.5002     0.4148    0.4376  0.4626   0.4377  0.8997
lndistance            3.4525        5.5617     3.8868   -2.1093  0.5712   2.1642  8.1705
democracy1            0.6250        0.3423     0.4745    0.2827  0.0000   0.2812  1.0000
democracy2            0.3750        0.3421     0.4744    0.0329  0.0000   0.0312  1.0000
democracy1_2          0.3750        0.1384     0.3453    0.2366  0.0000   0.2188  1.0000
allydum               0.2812        0.1518     0.3588    0.1295  0.0000   0.1250  1.0000
lnenergyparity       10.6246       10.7479     3.1025   -0.1233  0.4532   0.5164  2.2336
lnmilparity           7.2520        5.8631     1.9142    1.3889  1.2485   1.4177  3.5264


Summary of balance for matched data:
               Means Treated Means Control SD Control Mean Diff eQQ Med eQQ Mean eQQ Max
distance              0.0129        0.0128     0.0153    0.0001  0.0008   0.0025  0.0151
cap_1                 0.1645        0.1653     0.1285   -0.0008  0.0020   0.0127  0.0727
cap_2                 0.0070        0.0066     0.0089    0.0004  0.0009   0.0018  0.0151
capshare_1            0.9378        0.9382     0.0793   -0.0005  0.0029   0.0078  0.0248
lndistance            3.4525        3.4690     4.0402   -0.0166  0.0000   0.3309  5.9713
democracy1            0.6250        0.6250     0.4930    0.0000  0.0000   0.0357  1.0000
democracy2            0.3750        0.3750     0.4930    0.0000  0.0000   0.0714  1.0000
democracy1_2          0.3750        0.3750     0.4930    0.0000  0.0000   0.0714  1.0000
allydum               0.2812        0.2500     0.4410    0.0312  0.0000   0.0357  1.0000
lnenergyparity       10.6246       10.6511     3.5577   -0.0264  0.2095   0.4741  1.9953
lnmilparity           7.2520        7.2432     1.7536    0.0088  0.1968   0.2879  1.2098

Percent Balance Improvement:
               Mean Diff.  eQQ Med  eQQ Mean eQQ Max
distance          99.5303  82.4873   88.7564 95.8139
cap_1             99.3466  97.8053   88.8278 71.2083
cap_2             98.8741  72.6223   95.9429 95.7336
capshare_1        99.8917  99.3832   98.2294 97.2428
lndistance        99.2145 100.0000   84.7095 26.9165
democracy1       100.0000   0.0000   87.3016  0.0000
democracy2       100.0000   0.0000 -128.5714  0.0000
democracy1_2     100.0000   0.0000   67.3469  0.0000
allydum           75.8596   0.0000   71.4286  0.0000
lnenergyparity    78.5633  53.7615    8.1987 10.6677
lnmilparity       99.3670  84.2393   79.6902 65.6938

Sample sizes:
          Control Treated
All        122254      32
Matched        28      32
Unmatched  122226       0
Discarded       0       0
```

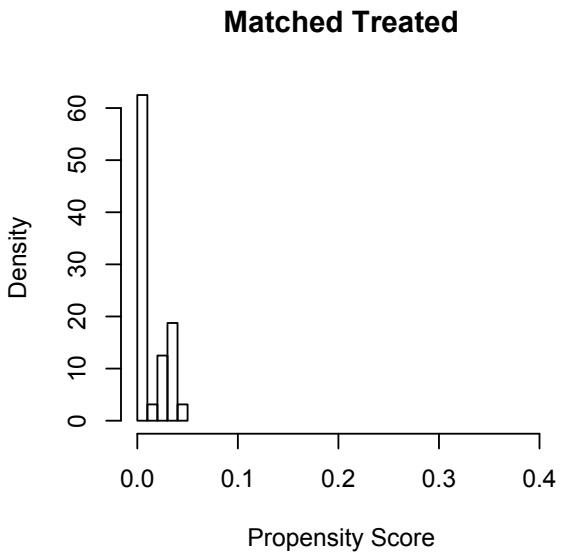

QQ Plots
All
Matched
cap_1
cap_2
capshare_1
Treated Units
Control Units
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0

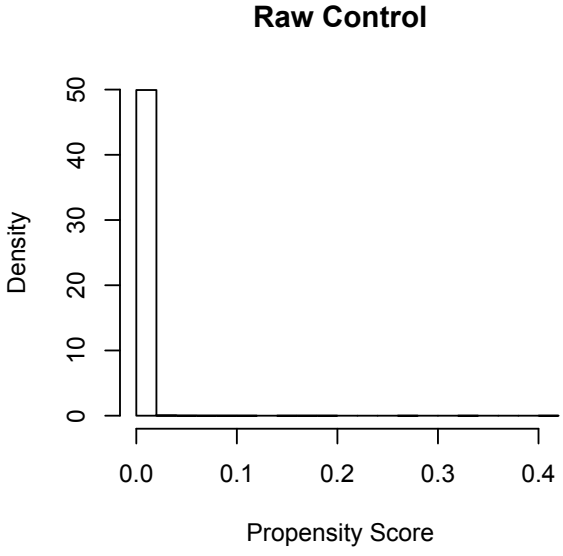

QQ Plots
All
Matched
lndistance
democracy1
democracy2
Treated Units
Control Units
0
2
4
6
8
-0.2
0.2
0.4
0.6
0.8
1.0
1.2

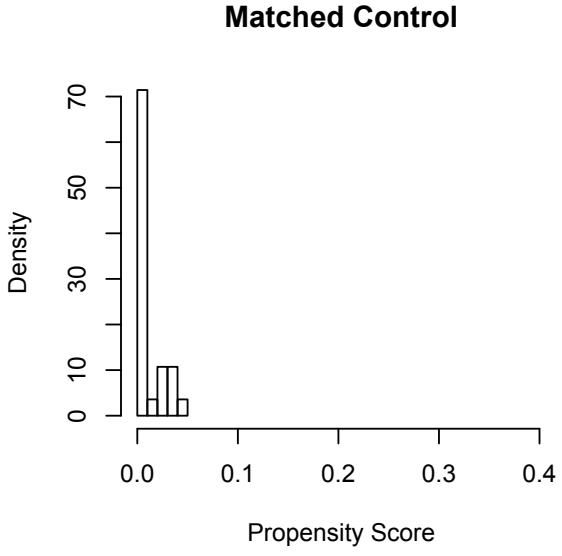

QQ Plots
All
Matched
democracy1_2
allydum
lnenergyparity
Treated Units
Control Units
-0.2
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15


QQ Plots
All
Matched
lnmilparity
0
2
4
6
8
Treated Units
Control Units


Raw Treated
Density
0
10
20
30
40
50
60
0.0
0.1
0.2
0.3
0.4
Propensity Score


Matched Treated
Density
0
10
20
30
40
50
60
0.0
0.1
0.2
0.3
0.4
Propensity Score


Raw Control
Density
0
10
20
30
40
50
0.0
0.1
0.2
0.3
0.4
Propensity Score


Matched Control
Density
0
10
30
50
70
0.0
0.1
0.2
0.3
0.4
Propensity Score

***S* SCORE**

```
ttest s_wt_glo_diff10, by(abdrestfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      28   -.2548058     .082924    .4387926   -.4249518   -.0846598
       1 |      32   -.0413556     .098903    .5594798   -.2430696    .1603584
---------+--------------------------------------------------------------------
combined |      60   -.1409657    .0663463    .5139161   -.2737243   -.0082071
---------+--------------------------------------------------------------------
    diff |           -.2134502     .131169               -.4760136    .0491132
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.6273
Ho: diff = 0                                     degrees of freedom =       58

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0545         Pr(|T| > |t|) = 0.1091          Pr(T > t) = 0.9455

reg s_wt_glo_diff10 abdrestfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)
note: democracy1_2 omitted because of collinearity

Linear regression                               Number of obs     =         60
                                                F(10, 53)         =       1.66
                                                Prob > F          =     0.1163
                                                R-squared         =     0.2367
                                                Root MSE          =     .49269

                                   (Std. Err. adjusted for 54 clusters in dyad_id)
------------------------------------------------------------------------------
             |               Robust
s_wt_glo_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
abdrestfircinit |   .1918415   .1435569     1.34   0.187    -.0960971    .4797801
          cap_1 |   2.105012   1.215162     1.73   0.089    -.3322937    4.542318
          cap_2 |  -13.70622   15.21485    -0.90   0.372    -44.22334     16.8109
     capshare_1 |  -3.189316   2.014226    -1.58   0.119    -7.229342    .8507096
     lndistance |  -.0281303   .0311517    -0.90   0.371    -.0906127    .0343522
     democracy1 |  -.1452581   .2248284    -0.65   0.521    -.5962067    .3056905
     democracy2 |   .0397842   .2414597     0.16   0.870    -.4445226     .524091
   democracy1_2 |          0  (omitted)
        allydum |  -.1008576   .1718518    -0.59   0.560    -.4455487    .2438335
 lnenergyparity |    .056263   .0592991     0.95   0.347    -.0626759    .1752018
    lnmilparity |  -.0286998   .0731387    -0.39   0.696    -.1753975    .1179979
          _cons |    2.3194   1.730028     1.34   0.186    -1.150597    5.789397
------------------------------------------------------------------------------
```

TAU-B

```
ttest tau_glob_diff10, by(abdrestfircinit)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
       0 |      28    .0412712    .0619245    .3276739   -.0857875    .1683298
       1 |      32    .2402553    .0930963    .5266321    .0503841    .4301264
---------+--------------------------------------------------------------------
combined |      60     .147396     .058435    .4526356    .0304679    .2643242
---------+--------------------------------------------------------------------
    diff |           -.1989841    .1152105               -.4296029    .0316347
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t =  -1.7271
Ho: diff = 0                                     degrees of freedom =       58

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0447         Pr(|T| > |t|) = 0.0895          Pr(T > t) = 0.9553


reg tau_glob_diff10 abdrestfircinit cap_1 cap_2 capshare_1 lndistance democracy1 democracy2
democracy1_2 allydum lnenergyparity lnmilparity, robust cluster(dyad_id)
note: democracy1_2 omitted because of collinearity

Linear regression                               Number of obs     =         60
                                                F(10, 53)         =       6.48
                                                Prob > F          =     0.0000
                                                R-squared         =     0.5585
                                                Root MSE          =     .33004

                                  (Std. Err. adjusted for 54 clusters in dyad_id)
------------------------------------------------------------------------------
                |               Robust
tau_glob_diff10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
abdrestfircinit |   .2038534   .0986799     2.07   0.044     .0059267    .4017801
          cap_1 |  -.6091551   .7702416    -0.79   0.433    -2.154064    .9357538
          cap_2 |  -16.30683   8.725429    -1.87   0.067    -33.80783    1.194161
     capshare_1 |  -2.168004   1.622731    -1.34   0.187    -5.422791    1.086782
     lndistance |  -.0206758    .019547    -1.06   0.295    -.0598821    .0185305
     democracy1 |  -.2734124   .1331552    -2.05   0.045    -.5404878    -.006337
     democracy2 |   .0047466   .1672842     0.03   0.977     -.330783    .3402761
   democracy1_2 |           0  (omitted)
        allydum |  -.7554165   .1304946    -5.79   0.000    -1.017156   -.4936775
 lnenergyparity |   .1392204    .050861     2.74   0.008      .037206    .2412347
    lnmilparity |  -.0624895   .0620763    -1.01   0.319    -.1869988    .0620198
          _cons |    1.71123   1.412385     1.21   0.231    -1.121656    4.544116
------------------------------------------------------------------------------
```