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*****
Algorithm to estimate the propensity score
*****
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The treatment is treatment_region_strict

(mean) treatment_r egion_stric t	Freq.	Percent	Cum.
0	370	66.91	66.91
1	183	33.09	100.00
Total	553	100.00	

Estimation of the propensity score

```
Iteration 0: log likelihood = -351.0609
Iteration 1: log likelihood = -322.96768
Iteration 2: log likelihood = -321.38377
Iteration 3: log likelihood = -321.36052
Iteration 4: log likelihood = -321.36051
```

Logistic regression	Number of obs	=	553
	LR chi2(5)	=	59.40
	Prob > chi2	=	0.0000
Log likelihood = -321.36051	Pseudo R2	=	0.0846

treatment_~t	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
BPL	-2.69398	.5950242	-4.53	0.000	-3.860206	-1.527754
hv209	-.593826	.6741999	-0.88	0.378	-1.915233	.7275815
rural	-1.519721	.8252491	-1.84	0.066	-3.137179	.0977375
hindu	2.325217	.4420629	5.26	0.000	1.458789	3.191644
cooking_safe	-2.003762	.8962168	-2.24	0.025	-3.760315	-.2472093
_cons	.5290871	.9323099	0.57	0.570	-1.298207	2.356381

Note: the common support option has been selected
The region of common support is [.07766646, .59980696]

Description of the estimated propensity score
in region of common support

Estimated propensity score				

	Percentiles	Smallest		
1%	.0812692	.0776665		
5%	.1069417	.0778896		
10%	.147955	.0779127	Obs	524
25%	.220917	.0787485	Sum of Wgt.	524
50%	.3707097		Mean	.3430753
		Largest	Std. Dev.	.1356318
75%	.4463948	.5931672		
90%	.5123408	.5933359	Variance	.018396
95%	.5430235	.595574	Skewness	-.2443053
99%	.5862567	.599807	Kurtosis	2.016957

Step 1: Identification of the optimal number of blocks
Use option detail if you want more detailed output

Distribution of treated and controls across blocks

Blocks of the pscore for treatment	(mean)		
treatment_ region_str	treatment_region_stri	ct	
ict	0	1	Total

1	91	17	108
2	148	60	208
3	102	106	208

Total	341	183	524

Test that the mean propensity score is not different for treated and controls

Test in block 1

Observations in block 1

obs: 108, control: 91, treated: 17

Test for block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	91	.1417395	.0037434	.0357098	.1343026	.1491764
1	17	.1456852	.0087058	.0358949	.1272297	.1641407
combined	108	.1423606	.0034256	.0355997	.1355698	.1491514
diff		-.0039457	.0094427		-.0226667	.0147753
diff = mean(0) - mean(1)				t = -0.4179		
Ho: diff = 0				degrees of freedom = 106		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.3384		Pr(T > t) = 0.6769		Pr(T > t) = 0.6616		

The mean propensity score is not different for
treated and controls in block 1

Test in block 2

Observations in block 2

obs: 208, control: 148, treated: 60

Test for block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	148	.3146636	.0049374	.0600659	.3049061	.324421
1	60	.3180603	.0084451	.0654154	.3011617	.3349588
combined	208	.3156434	.0042654	.0615158	.3072343	.3240525
diff		-.0033967	.0094347		-.0219976	.0152042

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diff = mean(0) - mean(1)                                t = -0.3600
Ho: diff = 0                                             degrees of freedom = 206

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Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.3596          Pr(|T| > |t|) = 0.7192          Pr(T > t) = 0.6404

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The mean propensity score is not different for treated and controls in block 2

Test in block 3

Observations in block 3
obs: 208, control: 102, treated: 106

Test for block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	102	.4680888	.0049205	.0496942	.458328	.4778497
1	106	.4811099	.0054577	.0561906	.4702883	.4919316
combined	208	.4747246	.003701	.0533768	.4674281	.4820211
diff		-.0130211	.0073657		-.0275429	.0015007

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diff = mean(0) - mean(1)                                t = -1.7678
Ho: diff = 0                                             degrees of freedom = 206

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Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.0393          Pr(|T| > |t|) = 0.0786          Pr(T > t) = 0.9607

```

The mean propensity score is not different for treated and controls in block 3

Test in block 4

Observations in block 4
obs: 0, control: 0, treated: 0

Block 4 does not have observations

Move to next block

Test in block 5

Observations in block 5

obs: 0, control: 0, treated: 0

Block 5 does not have observations

Move to next block

The final number of blocks is 3

This number of blocks ensures that the mean propensity score is not different for treated and controls in each blocks

Step 2: Test of balancing property of the propensity score
Use option detail if you want more detailed output

Testing the balancing property in block 1

obs: 108, control: 91, treated: 17

Testing the balancing property for variable BPL in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
-----+						
0	91	.5324381	.0284687	.2715737	.4758801	.588996
1	17	.3845163	.0588852	.2427899	.2596852	.5093473
-----+						
combined	108	.5091541	.0261368	.2716216	.4573409	.5609673
-----+						
diff		.1479218	.0706599		.0078318	.2880119

diff = mean(0) - mean(1)				t =	2.0934	
Ho: diff = 0				degrees of freedom =	106	

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.9807	Pr(T > t) = 0.0387	Pr(T > t) = 0.0193

Variable BPL is balanced in block 1

Testing the balancing property for variable hv209 in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	91	.2609912	.0243369	.2321588	.2126418	.3093406
1	17	.3699192	.0921714	.3800324	.1745246	.5653139
combined	108	.2781373	.025188	.2617616	.228205	.3280696
diff		-.108928	.0686781		-.2450891	.027233
diff = mean(0) - mean(1)				t = -1.5861		
Ho: diff = 0				degrees of freedom = 106		

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.0579	Pr(T > t) = 0.1157	Pr(T > t) = 0.9421

Variable hv209 is balanced in block 1

Testing the balancing property for variable rural in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	91	.7320596	.0196584	.1875295	.6930047	.7711145
1	17	.7587247	.0357902	.1475669	.6828529	.8345966
combined	108	.7362569	.017462	.18147	.7016406	.7708732
diff		-.0266651	.0481041		-.1220361	.068706
diff = mean(0) - mean(1)				t = -0.5543		
Ho: diff = 0				degrees of freedom = 106		

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.2903	Pr(T > t) = 0.5805	Pr(T > t) = 0.7097

Variable rural is balanced in block 1

Testing the balancing property for variable hindu in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	91	.5121306	.0373563	.3563568	.4379157	.5863455
1	17	.3981742	.0460504	.1898708	.3005517	.4957968
combined	108	.4941931	.0324812	.337555	.4298028	.5585833
diff		.1139564	.0889225		-.0623411	.2902539

diff = mean(0) - mean(1) t = 1.2815
Ho: diff = 0 degrees of freedom = 106

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.8986 Pr(|T| > |t|) = 0.2028 Pr(T > t) = 0.1014

Variable hindu is balanced in block 1

Testing the balancing property for variable cooking_safe in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	91	.4254754	.0218158	.2081094	.3821345	.4688162
1	17	.4231892	.0562453	.2319053	.3039545	.5424239
combined	108	.4251155	.0202921	.2108819	.3848887	.4653423
diff		.0022861	.0559811		-.1087018	.1132741

diff = mean(0) - mean(1) t = 0.0408
Ho: diff = 0 degrees of freedom = 106

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.5162 Pr(|T| > |t|) = 0.9675 Pr(T > t) = 0.4838

Variable cooking_safe is balanced in block 1

Testing the balancing property in block 2

obs: 208, control: 148, treated: 60

Testing the balancing property for variable BPL in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	148	.4209325	.0144015	.1752018	.3924718	.4493933
1	60	.4844862	.0281163	.2177876	.4282257	.5407467
combined	208	.4392653	.0131833	.1901329	.4132745	.4652562
diff		-.0635536	.0288318		-.1203968	-.0067104

diff = mean(0) - mean(1) t = -2.2043
Ho: diff = 0 degrees of freedom = 206

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0143 Pr(|T| > |t|) = 0.0286 Pr(T > t) = 0.9857

Variable BPL is balanced in block 2

Testing the balancing property for variable hv209 in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	148	.2630491	.0195738	.2381256	.2243667	.3017315
1	60	.2395431	.0319247	.2472873	.1756621	.3034242
combined	208	.2562685	.0166715	.24044	.2234008	.2891362
diff		.0235059	.0368515		-.0491485	.0961604

diff = mean(0) - mean(1) t = 0.6379
Ho: diff = 0 degrees of freedom = 206

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.7379 Pr(|T| > |t|) = 0.5243 Pr(T > t) = 0.2621

Variable hv209 is balanced in block 2

Testing the balancing property for variable rural in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	148	.7478845	.0159264	.1937532	.7164102	.7793588
1	60	.7562854	.025308	.1960352	.7056441	.8069267
combined	208	.7503079	.0134499	.1939769	.7237916	.7768242
diff		-.0084009	.0297538		-.0670619	.0502602

diff = mean(0) - mean(1) t = -0.2823
Ho: diff = 0 degrees of freedom = 206

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.3890 Pr(|T| > |t|) = 0.7780 Pr(T > t) = 0.6110

Variable rural is balanced in block 2

Testing the balancing property for variable hindu in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	148	.7726928	.014799	.1800376	.7434465	.8019391
1	60	.8032837	.0236904	.1835052	.7558793	.8506881
combined	208	.7815171	.0125593	.1811333	.7567565	.8062777
diff		-.0305909	.0277073		-.0852171	.0240353

diff = mean(0) - mean(1) t = -1.1041
Ho: diff = 0 degrees of freedom = 206

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.1354 Pr(|T| > |t|) = 0.2708 Pr(T > t) = 0.8646

Variable hindu is balanced in block 2

Testing the balancing property for variable cooking_safe in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	148	.3459714	.0177026	.2153613	.3109869	.3809558
1	60	.2900766	.0297637	.2305484	.2305196	.3496336
combined	208	.3298479	.0153063	.220751	.2996716	.3600241
diff		.0558948	.0336426		-.0104331	.1222226
diff = mean(0) - mean(1)				t =	1.6614	
Ho: diff = 0				degrees of freedom =	206	
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.9509		Pr(T > t) = 0.0981		Pr(T > t) = 0.0491		

Variable cooking_safe is balanced in block 2

 Testing the balancing property in block 3

 obs: 208, control: 102, treated: 106

Testing the balancing property for variable BPL in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	102	.2980999	.0126565	.1278242	.2729929	.323207
1	106	.2787683	.0138478	.1425717	.2513107	.3062259
combined	208	.2882482	.0093994	.1355606	.2697173	.3067791
diff		.0193316	.0187997		-.017733	.0563962
diff = mean(0) - mean(1)				t =	1.0283	
Ho: diff = 0				degrees of freedom =	206	
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.8475		Pr(T > t) = 0.3050		Pr(T > t) = 0.1525		

Variable BPL is balanced in block 3

Testing the balancing property for variable hv209 in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	102	.2848358	.0206202	.2082535	.243931	.3257407
1	106	.2660475	.018875	.19433	.2286218	.3034731
combined	208	.275261	.0139376	.2010108	.2477832	.3027388
diff		.0187884	.0279173		-.0362518	.0738285
diff = mean(0) - mean(1)				t = 0.6730		
Ho: diff = 0				degrees of freedom = 206		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.7491		Pr(T > t) = 0.5017		Pr(T > t) = 0.2509		

Variable hv209 is balanced in block 3

Testing the balancing property for variable rural in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	102	.7029097	.0230785	.233081	.6571282	.7486911
1	106	.687458	.0226113	.2327971	.642624	.7322919
combined	208	.6950352	.0161211	.232502	.6632526	.7268178
diff		.0154517	.0323084		-.0482459	.0791493
diff = mean(0) - mean(1)				t = 0.4783		
Ho: diff = 0				degrees of freedom = 206		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.6835		Pr(T > t) = 0.6330		Pr(T > t) = 0.3165		

Variable rural is balanced in block 3

Testing the balancing property for variable hindu in block 3

Two-sample t test with equal variances

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-----
  Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
      0 |      102   .8888772   .0080269   .0810679    .872954    .9048005
      1 |      106   .9093203   .0081307   .0837109    .8931986    .925442
-----+-----
combined |      208   .8992953   .0057454   .082862    .8879682    .9106224
-----+-----
  diff |           -.0204431   .0114325           -.0429828    .0020966
-----+-----
      diff = mean(0) - mean(1)                                t =  -1.7882
Ho: diff = 0                                           degrees of freedom =    206

      Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.0376          Pr(|T| > |t|) = 0.0752          Pr(T > t) = 0.9624

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Variable hindu is balanced in block 3

Testing the balancing property for variable cooking_safe in block 3

Two-sample t test with equal variances

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-----
  Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
      0 |      102   .3414142   .0207304   .2093672    .3002906    .3825379
      1 |      106   .3822596   .0242124   .2492817    .3342509    .4302682
-----+-----
combined |      208   .3622296   .016012    .2309282    .3306622    .3937971
-----+-----
  diff |           -.0408453   .0319812           -.1038977    .0222071
-----+-----
      diff = mean(0) - mean(1)                                t =  -1.2772
Ho: diff = 0                                           degrees of freedom =    206

      Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.1015          Pr(|T| > |t|) = 0.2030          Pr(T > t) = 0.8985

```

Variable cooking_safe is balanced in block 3

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*****
Testing the balancing property in block 4
*****
obs: 0, control: 0, treated: 0

```

Block 4 does not have observations
Move to next block

Testing the balancing property in block 5

obs: 0, control: 0, treated: 0

Block 5 does not have observations

Move to next block

The balancing property is satisfied

This table shows the inferior bound, the number of treated and the number of controls for each block

Inferior of block of pscore	(mean) treatment_region_stri ct		Total
	0	1	
.0776665	91	17	108
.2	148	60	208
.4	102	106	208
Total	341	183	524

Note: the common support option has been selected

End of the algorithm to estimate the pscore
