Statistics/Data analysis

```
      name:  <unnamed>
       log:  C:/Users/yfkas/Documents/GitHub/ARE213_Fall2023/PSet 4/Stata/pset4_logfil
> e_q3.smcl
  log type:  smcl
 opened on:   4 Dec 2023, 22:52:06

1 .
2 . // analyze
3 . do "$do_loc/02_q3.do"

4 . /*
  > Title:          02_q3.do
  > Purpose:        Question 3, PSet 4
  >
  > */
5 . /*
  > 3. Simulating RDD
  > 3.1 Use the dataset to estimate mu-, mu+, sigma-, and sigma+
  > */
6 .
7 . pause on

8 . set seed 154

9 . use "$dta_loc/pset4_trim2.dta", clear

10.
11. gen y = logwage

12.
13. rdrobust y x, p(1) c(0.5) h(0.5) kernel(uniform) all // replicate 2a result

Sharp RD estimates using local polynomial regression.

     Cutoff c = .5 | Left of c  Right of c           Number of obs =      75784
-------------------+----------------------           BW type       =     Manual
     Number of obs |     41656       34128           Kernel        =    Uniform
Eff. Number of obs |     41656       34128           VCE method    =         NN
    Order est. (p) |         1           1
    Order bias (q) |         2           2
       BW est. (h) |     0.500       0.500
       BW bias (b) |     0.500       0.500
         rho (h/b) |     1.000       1.000

Outcome: y. Running variable: x.

------------------------------------------------------------------------------
            Method |      Coef.  Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------+----------------------------------------------------------
      Conventional |      .1552   .01161    13.3654  0.000     .132438     .177956
    Bias-corrected |     .15285   .01161    13.1630  0.000     .130088     .175606
            Robust |     .15285   .01737     8.7974  0.000     .118795       .1869
------------------------------------------------------------------------------

14. local tau_cl_true = e(tau_cl)

15. local tau_bc_true = e(tau_bc)

16. mat list e(beta_p_l)

e(beta_p_l)[2,1]
             c1
r1  11.342045
r2  .17144472
```

```
. mat list e(beta_p_r)

  e(beta_p_r)[2,1]
              c1
  r1  11.497242
  r2  .22796925

.
. // mu-
. mat coefsl = e(beta_p_l)

. local bl_1 = coefsl[1,1]

. local bl_2 = coefsl[2,1]

. // mu+
. mat coefsr = e(beta_p_r)

. local br_1 = coefsr[1,1]

. local br_2 = coefsr[2,1]

.
.         // plot reality check (compare with rdplot in 2a)
.         gen mul = `bl_1' + `bl_2'*x if x < 0.5
  (34,128 missing values generated)

.         gen mur = `br_1' + `br_2'*x if x > 0.5
  (41,656 missing values generated)

. //      twoway (scatter y x) ///
. //                  (line mul x) ///
. //                  (line mur x)
.
. // sigma- (residual variance from mu-)
. gen resl = mul - y if x < 0.5
  (34,128 missing values generated)

. qui sum resl

. local resl_sd = r(sd)

. // sigma+ (residual variance from mu+)
. gen resr = mur - y if x > 0.5
  (41,656 missing values generated)

. qui sum resr

. local resr_sd = r(sd)

.
. // simulate y
. local S 300 // simulations

. forval s = 1/`S' {
  2.         capture drop eps yl_s yr_s y_s
  3.
.         // generate std normal error terms
.         qui gen eps = rnormal()
  4.         // generate new outcomes
```

```
49.         qui gen yl_s = mul + `resl_sd'*eps if x < 0.5 //
    5.         qui gen yr_s = mur + `resr_sd'*eps if x > 0.5 //
    6.
50. /*
  >                 // plot reality check (compare with rdplot in 2a)
  >                 twoway (scatter yl_s x) ///
  >                           (scatter yr_s x) ///
  >                           (line mul x) ///
  >                           (line mur x)
  > */
51.
52.         // Simulate
53.         // 3.a Ignore bandwidth because local linear
54.         // 3.b Estimate conventional and bias-corrected ATE
55.         qui gen         y_s = yl_s if x < 0.5
    7.         qui replace y_s = yr_s if x > 0.5
    8.         rdrobust y_s x, p(4) c(0.5) h(0.5) kernel(uniform) all
    9.         dis "tau_cl = `e(tau_cl)' and tau_bc = `e(tau_bc)'"
   10. //      twoway (scatter y_s x) ///
56. //                           (line mul x) ///
57. //                           (line mur x)
58. //      twoway    (line mul x) ///
59. //                           (line mur x)
60. //      rdplot y_s x, ///
61. //              p(1) ///
62. //              c(0.5) ///
63. //              masspoints(adjust) ///
64. //              /// bwselect(mserd) ///
65. //              kernel(uniform) ///
66. //              binselect(espr) ///
67. //              graph_options(legend(position(6)) ///
68. //                                      xtitle("Running variable") ///
69. //                                      ytitle("Eligible voters")) ///
70. //              ci(95) ///
71. //              shade
72.
73.
74.         // collect locals
75.         // tau
76.         local tau_cl_`s' = e(tau_cl)
   11.         local tau_bc_`s' = e(tau_bc)
   12.         // se of tau
77.         local se_tau_cl_`s' = e(se_tau_cl)
   13.         local se_tau_bc_`s' = e(se_tau_rb)
   14.         // bias of conventional and bias-corrected ATEs relative to true effect
78.         local bias_cl_`s' = `tau_cl_`s'' - `tau_cl_true'
   15.         local bias_bc_`s' = `tau_bc_`s'' - `tau_cl_true'
   16.
79. }
```

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs	=	**75784**	
BW type	=	**Manual**	
Kernel	=	**Uniform**	
VCE method	=	**NN**	

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15961**	**.03075**	**5.1900**	**0.000**	**.099336**	**.21989**
Bias-corrected	**.17265**	**.03075**	**5.6139**	**0.000**	**.112372**	**.232926**
Robust	**.17265**	**.03886**	**4.4423**	**0.000**	**.096475**	**.248823**

tau_cl = .1596129269605626 and tau_bc = .1726490822006781

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs	=	**75784**	
BW type	=	**Manual**	
Kernel	=	**Uniform**	
VCE method	=	**NN**	

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23133**	**.03071**	**7.5318**	**0.000**	**.171133**	**.29153**
Bias-corrected	**.2438**	**.03071**	**7.9378**	**0.000**	**.183603**	**.304**
Robust	**.2438**	**.03869**	**6.3009**	**0.000**	**.167964**	**.319639**

tau_cl = .2313315500155113 and tau_bc = .243801364407318

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs	=	**75784**	
BW type	=	**Manual**	
Kernel	=	**Uniform**	
VCE method	=	**NN**	

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22461**	**.03096**	**7.2545**	**0.000**	**.163924**	**.285289**
Bias-corrected	**.25121**	**.03096**	**8.1138**	**0.000**	**.190528**	**.311892**
Robust	**.25121**	**.03908**	**6.4275**	**0.000**	**.174607**	**.327812**

tau_cl = .2246065726235429 and tau_bc = .2512096221253159

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs	=	**75784**	
BW type	=	**Manual**	
Kernel	=	**Uniform**	
VCE method	=	**NN**	

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15642**	**.03117**	**5.0189**	**0.000**	**.095335**	**.217504**
Bias-corrected	**.16335**	**.03117**	**5.2413**	**0.000**	**.102267**	**.224436**
Robust	**.16335**	**.03923**	**4.1635**	**0.000**	**.086454**	**.240249**

tau_cl = .1564192702303444 and tau_bc = .1633515297089616

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16732**	**.03152**	**5.3079**	**0.000**	**.105539**	**.229109**
Bias-corrected	**.17885**	**.03152**	**5.6736**	**0.000**	**.117069**	**.240639**
Robust	**.17885**	**.0398**	**4.4941**	**0.000**	**.100852**	**.256856**

tau_cl = .1673242312731418 and tau_bc = .1788539478493476

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15312**	**.03088**	**4.9585**	**0.000**	**.092595**	**.213641**
Bias-corrected	**.1176**	**.03088**	**3.8082**	**0.000**	**.057073**	**.178119**
Robust	**.1176**	**.03884**	**3.0274**	**0.002**	**.041464**	**.193727**

tau_cl = .1531181977843517 and tau_bc = .1175957767109139

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19678**	**.03047**	**6.4572**	**0.000**	**.137048**	**.256503**
Bias-corrected	**.20404**	**.03047**	**6.6956**	**0.000**	**.144312**	**.263768**
Robust	**.20404**	**.03833**	**5.3234**	**0.000**	**.128917**	**.279163**

tau_cl = .1967754991042057 and tau_bc = .2040399234210781

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16682**	**.03054**	**5.4619**	**0.000**	**.106956**	**.226678**
Bias-corrected	**.17885**	**.03054**	**5.8558**	**0.000**	**.118987**	**.238709**
Robust	**.17885**	**.03841**	**4.6566**	**0.000**	**.103571**	**.254125**

tau_cl = .1668170136795197 and tau_bc = .1788480559898744

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21862**	**.03069**	**7.1241**	**0.000**	**.158474**	**.278767**
Bias-corrected	**.18644**	**.03069**	**6.0753**	**0.000**	**.126291**	**.246584**
Robust	**.18644**	**.03845**	**4.8491**	**0.000**	**.111081**	**.261794**

tau_cl = .2186206079422846 and tau_bc = .1864377051101656

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21389**	**.0309**	**6.9214**	**0.000**	**.153326**	**.274464**
Bias-corrected	**.20584**	**.0309**	**6.6606**	**0.000**	**.145266**	**.266405**
Robust	**.20584**	**.0388**	**5.3044**	**0.000**	**.12978**	**.281891**

tau_cl = .2138948624165096 and tau_bc = .2058354361706733

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21331**	**.03044**	**7.0072**	**0.000**	**.153648**	**.272979**
Bias-corrected	**.20169**	**.03044**	**6.6253**	**0.000**	**.142025**	**.261356**
Robust	**.20169**	**.03827**	**5.2708**	**0.000**	**.126691**	**.27669**

tau_cl = .2133137287437421 and tau_bc = .2016903130015635

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17817**	**.03071**	**5.8022**	**0.000**	**.117987**	**.238359**
Bias-corrected	**.1761**	**.03071**	**5.7347**	**0.000**	**.115914**	**.236286**
Robust	**.1761**	**.03886**	**4.5321**	**0.000**	**.099944**	**.252256**

tau_cl = .1781732405420371 and tau_bc = .1760998252980244

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22093**	**.03113**	**7.0967**	**0.000**	**.159914**	**.281948**
Bias-corrected	**.22279**	**.03113**	**7.1563**	**0.000**	**.161771**	**.283805**
Robust	**.22279**	**.03925**	**5.6768**	**0.000**	**.145868**	**.299709**

tau_cl = .2209311298120156 and tau_bc = .2227884583912783

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19129**	**.03114**	**6.1422**	**0.000**	**.130246**	**.252324**
Bias-corrected	**.17615**	**.03114**	**5.6560**	**0.000**	**.115107**	**.237185**
Robust	**.17615**	**.03956**	**4.4525**	**0.000**	**.098608**	**.253683**

tau_cl = .1912852032692172 and tau_bc = .1761456642616395

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1881**	**.03098**	**6.0724**	**0.000**	**.127389**	**.248815**
Bias-corrected	**.23479**	**.03098**	**7.5796**	**0.000**	**.174078**	**.295505**
Robust	**.23479**	**.0392**	**5.9894**	**0.000**	**.157958**	**.311625**

tau_cl = .1881019056518198 and tau_bc = .2347914541251157

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20663**	**.0307**	**6.7297**	**0.000**	**.146454**	**.266814**
Bias-corrected	**.18173**	**.0307**	**5.9187**	**0.000**	**.121552**	**.241912**
Robust	**.18173**	**.03871**	**4.6944**	**0.000**	**.105857**	**.257607**

tau_cl = .2066338450326839 and tau_bc = .1817317764098334

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14882**	**.03094**	**4.8102**	**0.000**	**.08818**	**.209453**
Bias-corrected	**.12875**	**.03094**	**4.1615**	**0.000**	**.06811**	**.189384**
Robust	**.12875**	**.03899**	**3.3020**	**0.001**	**.052326**	**.205168**

tau_cl = .1488166702570197 and tau_bc = .1287468364098459

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16052**	**.03066**	**5.2357**	**0.000**	**.100431**	**.220612**
Bias-corrected	**.2043**	**.03066**	**6.6635**	**0.000**	**.144206**	**.264387**
Robust	**.2043**	**.03845**	**5.3130**	**0.000**	**.128932**	**.279661**

tau_cl = .1605219796165329 and tau_bc = .2042963551257344

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22226**	**.03067**	**7.2458**	**0.000**	**.162137**	**.282376**
Bias-corrected	**.24256**	**.03067**	**7.9079**	**0.000**	**.182444**	**.302683**
Robust	**.24256**	**.0387**	**6.2683**	**0.000**	**.166718**	**.318408**

tau_cl = .2222563456844 and tau_bc = .2425633491002372

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22497**	**.03068**	**7.3320**	**0.000**	**.164829**	**.285104**
Bias-corrected	**.21322**	**.03068**	**6.9490**	**0.000**	**.153078**	**.273353**
Robust	**.21322**	**.03882**	**5.4925**	**0.000**	**.137131**	**.289301**

tau_cl = .2249667572100407 and tau_bc = .213215707357449

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12153**	**.03091**	**3.9318**	**0.000**	**.060949**	**.182115**
Bias-corrected	**.12439**	**.03091**	**4.0242**	**0.000**	**.063807**	**.184973**
Robust	**.12439**	**.03908**	**3.1831**	**0.001**	**.047799**	**.200982**

tau_cl = .1215317749820315 and tau_bc = .1243903232229968

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19178**	**.03104**	**6.1787**	**0.000**	**.130946**	**.252618**
Bias-corrected	**.17284**	**.03104**	**5.5684**	**0.000**	**.112003**	**.233676**
Robust	**.17284**	**.03919**	**4.4101**	**0.000**	**.096025**	**.249654**

tau_cl = .1917820340122489 and tau_bc = .1728393821636018

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21989**	**.03057**	**7.1920**	**0.000**	**.159962**	**.279809**
Bias-corrected	**.20043**	**.03057**	**6.5556**	**0.000**	**.140507**	**.260355**
Robust	**.20043**	**.03842**	**5.2169**	**0.000**	**.12513**	**.275732**

tau_cl = .2198856895624886 and tau_bc = .2004309973422096

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19872**	**.03086**	**6.4397**	**0.000**	**.138237**	**.2592**
Bias-corrected	**.22362**	**.03086**	**7.2466**	**0.000**	**.163138**	**.284101**
Robust	**.22362**	**.03889**	**5.7497**	**0.000**	**.147392**	**.299848**

tau_cl = .1987180631149386 and tau_bc = .2236199418211982

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20694**	**.0312**	**6.6335**	**0.000**	**.1458**	**.268089**
Bias-corrected	**.23333**	**.0312**	**7.4793**	**0.000**	**.172184**	**.294473**
Robust	**.23333**	**.03934**	**5.9312**	**0.000**	**.156226**	**.310432**

tau_cl = .2069442719657673 and tau_bc = .233328629693915

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13212**	**.03122**	**4.2319**	**0.000**	**.070928**	**.193304**
Bias-corrected	**.11942**	**.03122**	**3.8252**	**0.000**	**.058231**	**.180607**
Robust	**.11942**	**.03948**	**3.0249**	**0.002**	**.042042**	**.196796**

tau_cl = .1321158201103572 and tau_bc = .1194187607602544

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18211**	**.03083**	**5.9066**	**0.000**	**.121679**	**.242532**
Bias-corrected	**.19257**	**.03083**	**6.2462**	**0.000**	**.132148**	**.253001**
Robust	**.19257**	**.03879**	**4.9646**	**0.000**	**.116548**	**.268601**

tau_cl = .1821054892698157 and tau_bc = .1925744986519931

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20155**	**.03106**	**6.4900**	**0.000**	**.14068**	**.262413**
Bias-corrected	**.22034**	**.03106**	**7.0952**	**0.000**	**.159474**	**.281207**
Robust	**.22034**	**.03922**	**5.6184**	**0.000**	**.143476**	**.297205**

tau_cl = .2015466836146516 and tau_bc = .220340305544596

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1796**	**.03089**	**5.8137**	**0.000**	**.119054**	**.240153**
Bias-corrected	**.1578**	**.03089**	**5.1079**	**0.000**	**.097251**	**.21835**
Robust	**.1578**	**.03883**	**4.0639**	**0.000**	**.081695**	**.233906**

tau_cl = .1796036817627282 and tau_bc = .1578004955636061

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21177**	**.03069**	**6.8999**	**0.000**	**.151617**	**.271929**
Bias-corrected	**.20548**	**.03069**	**6.6949**	**0.000**	**.145325**	**.265637**
Robust	**.20548**	**.03857**	**5.3279**	**0.000**	**.129891**	**.281072**

tau_cl = .2117731221114809 and tau_bc = .2054811648731629

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19063**	**.03068**	**6.2127**	**0.000**	**.130489**	**.250767**
Bias-corrected	**.16469**	**.03068**	**5.3672**	**0.000**	**.104548**	**.224826**
Robust	**.16469**	**.03862**	**4.2641**	**0.000**	**.088989**	**.240385**

tau_cl = .1906280194730243 and tau_bc = .1646870158265301

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20559**	**.03104**	**6.6222**	**0.000**	**.144739**	**.266433**
Bias-corrected	**.20372**	**.03104**	**6.5621**	**0.000**	**.142873**	**.264567**
Robust	**.20372**	**.03906**	**5.2152**	**0.000**	**.127159**	**.280281**

tau_cl = .2055859051852167 and tau_bc = .2037201136222393

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15319**	**.03056**	**5.0129**	**0.000**	**.093293**	**.213082**
Bias-corrected	**.16727**	**.03056**	**5.4738**	**0.000**	**.10738**	**.227168**
Robust	**.16727**	**.0385**	**4.3443**	**0.000**	**.091808**	**.24274**

tau_cl = .1531877203419754 and tau_bc = .167273824714357

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19233**	**.03064**	**6.2774**	**0.000**	**.13228**	**.25238**
Bias-corrected	**.22959**	**.03064**	**7.4935**	**0.000**	**.169538**	**.289638**
Robust	**.22959**	**.03869**	**5.9334**	**0.000**	**.153748**	**.305428**

tau_cl = .1923299492709702 and tau_bc = .2295882004696068

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16278**	**.03079**	**5.2867**	**0.000**	**.102434**	**.223132**
Bias-corrected	**.16111**	**.03079**	**5.2322**	**0.000**	**.100756**	**.221455**
Robust	**.16111**	**.03871**	**4.1621**	**0.000**	**.08524**	**.236971**

tau_cl = .1627830851293766 and tau_bc = .1611054712629993

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13922**	**.03085**	**4.5123**	**0.000**	**.078747**	**.19969**
Bias-corrected	**.11589**	**.03085**	**3.7560**	**0.000**	**.055414**	**.176356**
Robust	**.11589**	**.03897**	**2.9733**	**0.003**	**.039496**	**.192274**

tau_cl = .1392188292356877 and tau_bc = .1158850142005576

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22026**	**.03066**	**7.1851**	**0.000**	**.160179**	**.280347**
Bias-corrected	**.18094**	**.03066**	**5.9022**	**0.000**	**.120853**	**.24102**
Robust	**.18094**	**.03863**	**4.6838**	**0.000**	**.105223**	**.25665**

tau_cl = .2202632534281292 and tau_bc = .180936476928764

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21554**	**.03058**	**7.0477**	**0.000**	**.155597**	**.27548**
Bias-corrected	**.20975**	**.03058**	**6.8584**	**0.000**	**.149808**	**.269691**
Robust	**.20975**	**.03842**	**5.4587**	**0.000**	**.134438**	**.285061**

tau_cl = .2155385790101718 and tau_bc = .2097495123148292

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12395**	**.03073**	**4.0333**	**0.000**	**.063717**	**.184185**
Bias-corrected	**.13469**	**.03073**	**4.3828**	**0.000**	**.07446**	**.194928**
Robust	**.13469**	**.03867**	**3.4835**	**0.000**	**.05891**	**.210477**

tau_cl = .1239511751773534 and tau_bc = .1346938172655427

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18477**	**.03036**	**6.0864**	**0.000**	**.125271**	**.244274**
Bias-corrected	**.19538**	**.03036**	**6.4359**	**0.000**	**.135883**	**.254886**
Robust	**.19538**	**.03814**	**5.1229**	**0.000**	**.120632**	**.270136**

tau_cl = .1847727423673859 and tau_bc = .1953842212360541

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18577**	**.03128**	**5.9393**	**0.000**	**.124466**	**.247073**
Bias-corrected	**.1533**	**.03128**	**4.9012**	**0.000**	**.091997**	**.214604**
Robust	**.1533**	**.03959**	**3.8723**	**0.000**	**.075708**	**.230893**

tau_cl = .1857695768017038 and tau_bc = .1533001853945279

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.24372**	**.03066**	**7.9491**	**0.000**	**.183626**	**.303811**
Bias-corrected	**.24115**	**.03066**	**7.8652**	**0.000**	**.181053**	**.301238**
Robust	**.24115**	**.03871**	**6.2299**	**0.000**	**.16528**	**.317012**

tau_cl = .2437186506549551 and tau_bc = .2411459491286223

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18737**	**.03092**	**6.0593**	**0.000**	**.126764**	**.247981**
Bias-corrected	**.1948**	**.03092**	**6.2995**	**0.000**	**.134192**	**.255409**
Robust	**.1948**	**.03908**	**4.9851**	**0.000**	**.118212**	**.27139**

tau_cl = .187372144002893 and tau_bc = .1948008435347219

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14854**	**.03072**	**4.8359**	**0.000**	**.088339**	**.208748**
Bias-corrected	**.18224**	**.03072**	**5.9328**	**0.000**	**.122033**	**.242441**
Robust	**.18224**	**.03861**	**4.7195**	**0.000**	**.106555**	**.257919**

tau_cl = .1485436693187694 and tau_bc = .1822367380273135

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22352**	**.03085**	**7.2442**	**0.000**	**.163044**	**.283992**
Bias-corrected	**.25203**	**.03085**	**8.1683**	**0.000**	**.191557**	**.312506**
Robust	**.25203**	**.0389**	**6.4786**	**0.000**	**.175785**	**.328278**

tau_cl = .2235180416118965 and tau_bc = .2520316948898653

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20829**	**.03047**	**6.8367**	**0.000**	**.148575**	**.268**
Bias-corrected	**.20401**	**.03047**	**6.6965**	**0.000**	**.144302**	**.263726**
Robust	**.20401**	**.03841**	**5.3122**	**0.000**	**.128741**	**.279287**

tau_cl = .208287641712559 and tau_bc = .2040142906776055

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17832**	**.03095**	**5.7610**	**0.000**	**.117655**	**.238989**
Bias-corrected	**.14547**	**.03095**	**4.6997**	**0.000**	**.084803**	**.206137**
Robust	**.14547**	**.03908**	**3.7222**	**0.000**	**.068872**	**.222068**

tau_cl = .1783222179551558 and tau_bc = .1454696349801452

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16608**	**.0308**	**5.3919**	**0.000**	**.105711**	**.226455**
Bias-corrected	**.20076**	**.0308**	**6.5176**	**0.000**	**.140387**	**.261131**
Robust	**.20076**	**.03874**	**5.1829**	**0.000**	**.12484**	**.276678**

tau_cl = .166083264480676 and tau_bc = .2007589139961965

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20548**	**.03042**	**6.7554**	**0.000**	**.145864**	**.265098**
Bias-corrected	**.217**	**.03042**	**7.1339**	**0.000**	**.157379**	**.276613**
Robust	**.217**	**.03834**	**5.6602**	**0.000**	**.141856**	**.292136**

tau_cl = .2054807177455586 and tau_bc = .2169959744637708

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20755**	**.03125**	**6.6413**	**0.000**	**.1463**	**.268805**
Bias-corrected	**.19745**	**.03125**	**6.3182**	**0.000**	**.136201**	**.258705**
Robust	**.19745**	**.03952**	**4.9966**	**0.000**	**.12**	**.274906**

tau_cl = .2075525729796937 and tau_bc = .1974532513813756

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20957**	**.03079**	**6.8053**	**0.000**	**.149211**	**.269925**
Bias-corrected	**.18501**	**.03079**	**6.0077**	**0.000**	**.124649**	**.245363**
Robust	**.18501**	**.03878**	**4.7713**	**0.000**	**.109009**	**.261004**

tau_cl = .20956835685638 and tau_bc = .185006210989286

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15911**	**.03079**	**5.1685**	**0.000**	**.098776**	**.219453**
Bias-corrected	**.17202**	**.03079**	**5.5878**	**0.000**	**.111686**	**.232363**
Robust	**.17202**	**.03887**	**4.4255**	**0.000**	**.095838**	**.248211**

tau_cl = .1591144502963289 and tau_bc = .1720246728718848

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1292**	**.03082**	**4.1928**	**0.000**	**.068807**	**.189603**
Bias-corrected	**.07568**	**.03082**	**2.4558**	**0.014**	**.015278**	**.136075**
Robust	**.07568**	**.03887**	**1.9471**	**0.052**	**-.000501**	**.151854**

tau_cl = .1292049133926412 and tau_bc = .0756763667845917

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16957**	**.03081**	**5.5031**	**0.000**	**.109179**	**.229967**
Bias-corrected	**.13201**	**.03081**	**4.2839**	**0.000**	**.071611**	**.1924**
Robust	**.13201**	**.03881**	**3.4013**	**0.001**	**.055939**	**.208072**

tau_cl = .1695731667309701 and tau_bc = .1320054403472568

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17818**	**.0312**	**5.7106**	**0.000**	**.117029**	**.239339**
Bias-corrected	**.20312**	**.0312**	**6.5099**	**0.000**	**.141967**	**.264277**
Robust	**.20312**	**.03932**	**5.1657**	**0.000**	**.126054**	**.28019**

tau_cl = .1781843233361542 and tau_bc = .2031219382920426

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17554**	**.03035**	**5.7830**	**0.000**	**.116049**	**.235038**
Bias-corrected	**.15665**	**.03035**	**5.1606**	**0.000**	**.097155**	**.216144**
Robust	**.15665**	**.0382**	**4.1012**	**0.000**	**.081787**	**.231513**

tau_cl = .1755439097728413 and tau_bc = .1566499230516456

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.26316**	**.03072**	**8.5664**	**0.000**	**.20295**	**.32337**
Bias-corrected	**.28267**	**.03072**	**9.2014**	**0.000**	**.222456**	**.342876**
Robust	**.28267**	**.03855**	**7.3326**	**0.000**	**.207111**	**.358222**

tau_cl = .2631601591097024 and tau_bc = .2826663000032568

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15972**	**.03049**	**5.2381**	**0.000**	**.099959**	**.219487**
Bias-corrected	**.14208**	**.03049**	**4.6596**	**0.000**	**.082318**	**.201846**
Robust	**.14208**	**.0382**	**3.7190**	**0.000**	**.067203**	**.216961**

tau_cl = .1597232183307824 and tau_bc = .1420820195235137

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.25443**	**.03086**	**8.2460**	**0.000**	**.193956**	**.314907**
Bias-corrected	**.28689**	**.03086**	**9.2980**	**0.000**	**.226416**	**.347367**
Robust	**.28689**	**.039**	**7.3567**	**0.000**	**.210458**	**.363325**

tau_cl = .2544314879664853 and tau_bc = .2868916047837047

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12578**	**.03112**	**4.0422**	**0.000**	**.064795**	**.186775**
Bias-corrected	**.1196**	**.03112**	**3.8434**	**0.000**	**.058609**	**.180589**
Robust	**.1196**	**.03932**	**3.0417**	**0.002**	**.042533**	**.196666**

tau_cl = .125784804371051 and tau_bc = .1195993810406435

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17264**	**.03064**	**5.6350**	**0.000**	**.112589**	**.232683**
Bias-corrected	**.1426**	**.03064**	**4.6545**	**0.000**	**.082551**	**.202644**
Robust	**.1426**	**.03859**	**3.6956**	**0.000**	**.066971**	**.218223**

tau_cl = .1726358973005517 and tau_bc = .1425972302358787

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1339**	**.0308**	**4.3473**	**0.000**	**.073531**	**.194265**
Bias-corrected	**.14606**	**.0308**	**4.7421**	**0.000**	**.08569**	**.206423**
Robust	**.14606**	**.03895**	**3.7501**	**0.000**	**.069722**	**.222391**

tau_cl = .1338979118713723 and tau_bc = .1460565371085067

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23386**	**.03091**	**7.5647**	**0.000**	**.17327**	**.294454**
Bias-corrected	**.2213**	**.03091**	**7.1584**	**0.000**	**.160709**	**.281894**
Robust	**.2213**	**.03898**	**5.6770**	**0.000**	**.144899**	**.297704**

tau_cl = .2338615873295566 and tau_bc = .2213015244064991

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17322**	**.03114**	**5.5632**	**0.000**	**.112196**	**.234252**
Bias-corrected	**.19922**	**.03114**	**6.3980**	**0.000**	**.13819**	**.260247**
Robust	**.19922**	**.03936**	**5.0615**	**0.000**	**.122075**	**.276362**

tau_cl = .1732238934473571 and tau_bc = .1992184757846189

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21995**	**.03075**	**7.1541**	**0.000**	**.159695**	**.280213**
Bias-corrected	**.21081**	**.03075**	**6.8566**	**0.000**	**.150547**	**.271065**
Robust	**.21081**	**.0387**	**5.4474**	**0.000**	**.134958**	**.286654**

tau_cl = .2199539806279063 and tau_bc = .2108060102191303

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1589**	**.03057**	**5.1981**	**0.000**	**.098984**	**.21881**
Bias-corrected	**.16284**	**.03057**	**5.3271**	**0.000**	**.102928**	**.222754**
Robust	**.16284**	**.03841**	**4.2401**	**0.000**	**.087569**	**.238114**

tau_cl = .1588971506398593 and tau_bc = .1628413989947148

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15891**	**.03064**	**5.1873**	**0.000**	**.09887**	**.218959**
Bias-corrected	**.18609**	**.03064**	**6.0744**	**0.000**	**.126048**	**.246137**
Robust	**.18609**	**.03857**	**4.8249**	**0.000**	**.110499**	**.261687**

tau_cl = .1589146813566913 and tau_bc = .186092973248833

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14126**	**.03102**	**4.5544**	**0.000**	**.080469**	**.202052**
Bias-corrected	**.15242**	**.03102**	**4.9140**	**0.000**	**.091624**	**.213207**
Robust	**.15242**	**.03921**	**3.8867**	**0.000**	**.075555**	**.229275**

tau_cl = .1412606726307786 and tau_bc = .1524152466872692

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18345**	**.03076**	**5.9644**	**0.000**	**.123166**	**.243733**
Bias-corrected	**.2093**	**.03076**	**6.8050**	**0.000**	**.149021**	**.269588**
Robust	**.2093**	**.03882**	**5.3910**	**0.000**	**.13321**	**.2854**

tau_cl = .1834491257832269 and tau_bc = .2093048220749552

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16699**	**.03092**	**5.4000**	**0.000**	**.106382**	**.227605**
Bias-corrected	**.12771**	**.03092**	**4.1297**	**0.000**	**.067099**	**.188322**
Robust	**.12771**	**.0389**	**3.2827**	**0.001**	**.05146**	**.203962**

tau_cl = .166993529753654 and tau_bc = .1277107079690722

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2203**	**.03121**	**7.0597**	**0.000**	**.15914**	**.281465**
Bias-corrected	**.20209**	**.03121**	**6.4760**	**0.000**	**.140928**	**.263253**
Robust	**.20209**	**.0395**	**5.1158**	**0.000**	**.124666**	**.279515**

tau_cl = .2203024924847341 and tau_bc = .2020904718142447

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17727**	**.03064**	**5.7854**	**0.000**	**.117216**	**.237328**
Bias-corrected	**.18202**	**.03064**	**5.9403**	**0.000**	**.121962**	**.242074**
Robust	**.18202**	**.03869**	**4.7041**	**0.000**	**.10618**	**.257856**

tau_cl = .1772723189051248 and tau_bc = .1820183208760682

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18349**	**.03088**	**5.9423**	**0.000**	**.122968**	**.244011**
Bias-corrected	**.16709**	**.03088**	**5.4113**	**0.000**	**.106572**	**.227615**
Robust	**.16709**	**.0389**	**4.2959**	**0.000**	**.090858**	**.243329**

tau_cl = .1834894470821382 and tau_bc = .1670935374663713

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22541**	**.03073**	**7.3341**	**0.000**	**.16517**	**.285646**
Bias-corrected	**.21888**	**.03073**	**7.1218**	**0.000**	**.158643**	**.279119**
Robust	**.21888**	**.03874**	**5.6505**	**0.000**	**.14296**	**.294803**

tau_cl = .2254083086045284 and tau_bc = .2188812631575274

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20544**	**.03067**	**6.6982**	**0.000**	**.145324**	**.265551**
Bias-corrected	**.23364**	**.03067**	**7.6175**	**0.000**	**.173522**	**.293749**
Robust	**.23364**	**.03859**	**6.0539**	**0.000**	**.157995**	**.309275**

tau_cl = .2054371709909901 and tau_bc = .2336351499006923

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18937**	**.0307**	**6.1678**	**0.000**	**.12919**	**.249541**
Bias-corrected	**.23897**	**.0307**	**7.7834**	**0.000**	**.178792**	**.299143**
Robust	**.23897**	**.03861**	**6.1891**	**0.000**	**.163292**	**.314644**

tau_cl = .1893659089555513 and tau_bc = .2389679257471471

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19563**	**.03118**	**6.2740**	**0.000**	**.134519**	**.256749**
Bias-corrected	**.19914**	**.03118**	**6.3864**	**0.000**	**.138022**	**.260252**
Robust	**.19914**	**.03935**	**5.0608**	**0.000**	**.122015**	**.27626**

tau_cl = .1956340001697754 and tau_bc = .1991372911120379

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.25227**	**.03094**	**8.1532**	**0.000**	**.191626**	**.312914**
Bias-corrected	**.24971**	**.03094**	**8.0704**	**0.000**	**.189064**	**.310352**
Robust	**.24971**	**.03913**	**6.3807**	**0.000**	**.173005**	**.326411**

tau_cl = .252270405825584 and tau_bc = .249708015489432

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16448**	**.03086**	**5.3301**	**0.000**	**.104**	**.224965**
Bias-corrected	**.12055**	**.03086**	**3.9065**	**0.000**	**.060068**	**.181033**
Robust	**.12055**	**.03896**	**3.0945**	**0.002**	**.044198**	**.196903**

tau_cl = .1644822691255285 and tau_bc = .1205505870443631

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1783**	**.03057**	**5.8321**	**0.000**	**.118379**	**.23822**
Bias-corrected	**.21992**	**.03057**	**7.1934**	**0.000**	**.159999**	**.27984**
Robust	**.21992**	**.03844**	**5.7211**	**0.000**	**.144579**	**.29526**

tau_cl = .1782995731791743 and tau_bc = .2199191481649905

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17166**	**.03074**	**5.5839**	**0.000**	**.111407**	**.231912**
Bias-corrected	**.11972**	**.03074**	**3.8945**	**0.000**	**.05947**	**.179975**
Robust	**.11972**	**.03863**	**3.0994**	**0.002**	**.044015**	**.19543**

tau_cl = .1716592460470565 and tau_bc = .1197225915029776

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1659**	**.03148**	**5.2695**	**0.000**	**.104197**	**.227613**
Bias-corrected	**.16591**	**.03148**	**5.2696**	**0.000**	**.1042**	**.227615**
Robust	**.16591**	**.03987**	**4.1614**	**0.000**	**.087767**	**.244048**

tau_cl = .1659049505456096 and tau_bc = .1659073202745276

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17278**	**.03099**	**5.5746**	**0.000**	**.112033**	**.233528**
Bias-corrected	**.17152**	**.03099**	**5.5339**	**0.000**	**.110771**	**.232266**
Robust	**.17152**	**.03898**	**4.4001**	**0.000**	**.095118**	**.247919**

tau_cl = .1727804479537554 and tau_bc = .1715186395049386

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22151**	**.0312**	**7.0989**	**0.000**	**.160352**	**.282668**
Bias-corrected	**.22599**	**.0312**	**7.2425**	**0.000**	**.164835**	**.28715**
Robust	**.22599**	**.0394**	**5.7364**	**0.000**	**.148777**	**.303208**

tau_cl = .2215103675334831 and tau_bc = .2259924756931468

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21342**	**.03078**	**6.9346**	**0.000**	**.153102**	**.273743**
Bias-corrected	**.24317**	**.03078**	**7.9013**	**0.000**	**.182852**	**.303492**
Robust	**.24317**	**.0389**	**6.2507**	**0.000**	**.166924**	**.31942**

tau_cl = .2134226213447619 and tau_bc = .2431719284072642

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14395**	**.03069**	**4.6906**	**0.000**	**.083798**	**.204094**
Bias-corrected	**.1564**	**.03069**	**5.0965**	**0.000**	**.096255**	**.216551**
Robust	**.1564**	**.03866**	**4.0458**	**0.000**	**.080634**	**.232172**

tau_cl = .1439461544869118 and tau_bc = .156403271148065

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17864**	**.03049**	**5.8579**	**0.000**	**.118867**	**.238404**
Bias-corrected	**.23029**	**.03049**	**7.5518**	**0.000**	**.170522**	**.290059**
Robust	**.23029**	**.03839**	**5.9990**	**0.000**	**.155052**	**.30553**

tau_cl = .1786357380224217 and tau_bc = .2302907612720446

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17418**	**.03092**	**5.6332**	**0.000**	**.11358**	**.234788**
Bias-corrected	**.19798**	**.03092**	**6.4027**	**0.000**	**.137373**	**.258581**
Robust	**.19798**	**.03896**	**5.0813**	**0.000**	**.121613**	**.27434**

tau_cl = .1741836249311746 and tau_bc = .1979765972387213

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1683**	**.0311**	**5.4123**	**0.000**	**.107356**	**.229253**
Bias-corrected	**.15819**	**.0311**	**5.0871**	**0.000**	**.097244**	**.21914**
Robust	**.15819**	**.03918**	**4.0378**	**0.000**	**.081404**	**.23498**

tau_cl = .1683047033425282 and tau_bc = .1581920637618168

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14943**	**.03084**	**4.8449**	**0.000**	**.088978**	**.209874**
Bias-corrected	**.1727**	**.03084**	**5.5994**	**0.000**	**.112247**	**.233144**
Robust	**.1727**	**.03891**	**4.4378**	**0.000**	**.096425**	**.248967**

tau_cl = .1494260505082821 and tau_bc = .1726958525318878

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20274**	**.03088**	**6.5644**	**0.000**	**.142207**	**.263272**
Bias-corrected	**.17672**	**.03088**	**5.7220**	**0.000**	**.116188**	**.237253**
Robust	**.17672**	**.03898**	**4.5341**	**0.000**	**.100329**	**.253113**

tau_cl = .202739490856402 and tau_bc = .1767206151807841

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13233**	**.03111**	**4.2541**	**0.000**	**.071362**	**.193298**
Bias-corrected	**.12606**	**.03111**	**4.0524**	**0.000**	**.06509**	**.187026**
Robust	**.12606**	**.03946**	**3.1945**	**0.001**	**.048717**	**.203399**

tau_cl = .1323304118413944 and tau_bc = .1260578210421954

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21044**	**.03082**	**6.8274**	**0.000**	**.15003**	**.270854**
Bias-corrected	**.20853**	**.03082**	**6.7655**	**0.000**	**.148122**	**.268946**
Robust	**.20853**	**.03886**	**5.3663**	**0.000**	**.13237**	**.284698**

tau_cl = .2104423690780095 and tau_bc = .2085340657772576

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15212**	**.03083**	**4.9345**	**0.000**	**.091701**	**.212547**
Bias-corrected	**.16523**	**.03083**	**5.3597**	**0.000**	**.104809**	**.225654**
Robust	**.16523**	**.03893**	**4.2447**	**0.000**	**.088937**	**.241526**

tau_cl = .1521237185916107 and tau_bc = .1652316074932969

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14746**	**.03106**	**4.7484**	**0.000**	**.086594**	**.208328**
Bias-corrected	**.14219**	**.03106**	**4.5787**	**0.000**	**.081324**	**.203058**
Robust	**.14219**	**.03929**	**3.6189**	**0.000**	**.065181**	**.219201**

tau_cl = .1474610216791916 and tau_bc = .1421911601828469

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12524**	**.03085**	**4.0598**	**0.000**	**.064777**	**.185698**
Bias-corrected	**.12984**	**.03085**	**4.2090**	**0.000**	**.069377**	**.190298**
Robust	**.12984**	**.03902**	**3.3271**	**0.001**	**.053351**	**.206324**

tau_cl = .1252375864260102 and tau_bc = .1298375499241047

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22505**	**.03115**	**7.2236**	**0.000**	**.163986**	**.286109**
Bias-corrected	**.21635**	**.03115**	**6.9445**	**0.000**	**.15529**	**.277414**
Robust	**.21635**	**.03926**	**5.5113**	**0.000**	**.139411**	**.293292**

tau_cl = .225047393503246 and tau_bc = .2163517611793395

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2068**	**.03083**	**6.7082**	**0.000**	**.146379**	**.267222**
Bias-corrected	**.21177**	**.03083**	**6.8693**	**0.000**	**.151345**	**.272189**
Robust	**.21177**	**.03896**	**5.4349**	**0.000**	**.135398**	**.288135**

tau_cl = .2068005353953595 and tau_bc = .2117669655922327

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16737**	**.03092**	**5.4136**	**0.000**	**.106776**	**.227969**
Bias-corrected	**.09896**	**.03092**	**3.2007**	**0.001**	**.038359**	**.159552**
Robust	**.09896**	**.03883**	**2.5485**	**0.011**	**.022852**	**.17506**

tau_cl = .1673722631221608 and tau_bc = .0989558459846194

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19206**	**.03101**	**6.1934**	**0.000**	**.13128**	**.252839**
Bias-corrected	**.20964**	**.03101**	**6.7603**	**0.000**	**.148859**	**.270418**
Robust	**.20964**	**.03922**	**5.3445**	**0.000**	**.132759**	**.286517**

tau_cl = .1920596484383168 and tau_bc = .2096383647053699

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2263**	**.03079**	**7.3497**	**0.000**	**.165951**	**.286647**
Bias-corrected	**.2321**	**.03079**	**7.5380**	**0.000**	**.171749**	**.292444**
Robust	**.2321**	**.03882**	**5.9782**	**0.000**	**.156003**	**.30819**

tau_cl = .2262989819755603 and tau_bc = .2320964222949442

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18784**	**.03057**	**6.1449**	**0.000**	**.127928**	**.247756**
Bias-corrected	**.20181**	**.03057**	**6.6018**	**0.000**	**.141898**	**.261726**
Robust	**.20181**	**.03851**	**5.2401**	**0.000**	**.126328**	**.277295**

tau_cl = .1878424093183639 and tau_bc = .2018116594445019

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19224**	**.0309**	**6.2217**	**0.000**	**.131679**	**.252795**
Bias-corrected	**.21175**	**.0309**	**6.8532**	**0.000**	**.151189**	**.272306**
Robust	**.21175**	**.03894**	**5.4377**	**0.000**	**.135425**	**.28807**

tau_cl = .1922368710952469 and tau_bc = .2117472060967884

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18558**	**.03098**	**5.9907**	**0.000**	**.124866**	**.2463**
Bias-corrected	**.17135**	**.03098**	**5.5314**	**0.000**	**.110638**	**.232072**
Robust	**.17135**	**.03897**	**4.3966**	**0.000**	**.094967**	**.247743**

tau_cl = .1855831778907486 and tau_bc = .1713547376311908

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20354**	**.03106**	**6.5539**	**0.000**	**.14267**	**.264407**
Bias-corrected	**.20012**	**.03106**	**6.4437**	**0.000**	**.139247**	**.260984**
Robust	**.20012**	**.0392**	**5.1049**	**0.000**	**.123284**	**.276947**

tau_cl = .2035382718672736 and tau_bc = .200115390776773

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19759**	**.03095**	**6.3838**	**0.000**	**.136923**	**.258251**
Bias-corrected	**.22932**	**.03095**	**7.4090**	**0.000**	**.168656**	**.289984**
Robust	**.22932**	**.0391**	**5.8647**	**0.000**	**.152682**	**.305957**

tau_cl = .1975869029902242 and tau_bc = .2293198385868891

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18069**	**.03079**	**5.8685**	**0.000**	**.120344**	**.241039**
Bias-corrected	**.17656**	**.03079**	**5.7345**	**0.000**	**.116217**	**.236911**
Robust	**.17656**	**.03864**	**4.5696**	**0.000**	**.100833**	**.252295**

tau_cl = .1806914953695014 and tau_bc = .1765638836313883

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20266**	**.03136**	**6.4615**	**0.000**	**.141186**	**.264131**
Bias-corrected	**.20501**	**.03136**	**6.5366**	**0.000**	**.143541**	**.266485**
Robust	**.20501**	**.03964**	**5.1719**	**0.000**	**.127321**	**.282706**

tau_cl = .202658396937295 and tau_bc = .2050131059349951

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16741**	**.03109**	**5.3853**	**0.000**	**.106481**	**.228335**
Bias-corrected	**.21216**	**.03109**	**6.8251**	**0.000**	**.151236**	**.273091**
Robust	**.21216**	**.03915**	**5.4190**	**0.000**	**.135428**	**.288899**

tau_cl = .1674080124689681 and tau_bc = .2121636424617463

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20324**	**.03075**	**6.6106**	**0.000**	**.142984**	**.263502**
Bias-corrected	**.18694**	**.03075**	**6.0805**	**0.000**	**.126685**	**.247204**
Robust	**.18694**	**.03866**	**4.8351**	**0.000**	**.111165**	**.262724**

tau_cl = .2032431397446999 and tau_bc = .1869444404155729

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23843**	**.031**	**7.6906**	**0.000**	**.177665**	**.299194**
Bias-corrected	**.23264**	**.031**	**7.5038**	**0.000**	**.171873**	**.293402**
Robust	**.23264**	**.03905**	**5.9575**	**0.000**	**.156102**	**.309173**

tau_cl = .2384296578702561 and tau_bc = .2326377432873414

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15218**	**.03084**	**4.9348**	**0.000**	**.091739**	**.212623**
Bias-corrected	**.15538**	**.03084**	**5.0386**	**0.000**	**.094941**	**.215825**
Robust	**.15538**	**.03877**	**4.0080**	**0.000**	**.079398**	**.231368**

tau_cl = .152180757311271 and tau_bc = .1553831535225072

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17544**	**.03078**	**5.6999**	**0.000**	**.115116**	**.235772**
Bias-corrected	**.19778**	**.03078**	**6.4255**	**0.000**	**.137449**	**.258105**
Robust	**.19778**	**.03877**	**5.1016**	**0.000**	**.121795**	**.27376**

tau_cl = .1754439993997039 and tau_bc = .1977771623510307

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13158**	**.0306**	**4.3002**	**0.000**	**.071611**	**.191557**
Bias-corrected	**.12397**	**.0306**	**4.0513**	**0.000**	**.063992**	**.183939**
Robust	**.12397**	**.03836**	**3.2313**	**0.001**	**.048774**	**.199156**

tau_cl = .1315839725357364 and tau_bc = .1239653603129227

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18987**	**.03097**	**6.1314**	**0.000**	**.129176**	**.250565**
Bias-corrected	**.2067**	**.03097**	**6.6748**	**0.000**	**.146003**	**.267392**
Robust	**.2067**	**.03903**	**5.2954**	**0.000**	**.130193**	**.283202**

tau_cl = .1898708140279268 and tau_bc = .2066976359392356

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20079**	**.03084**	**6.5112**	**0.000**	**.140347**	**.261227**
Bias-corrected	**.20766**	**.03084**	**6.7339**	**0.000**	**.147216**	**.268096**
Robust	**.20766**	**.03903**	**5.3211**	**0.000**	**.131168**	**.284144**

tau_cl = .2007868546211284 and tau_bc = .2076560096820685

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21523**	**.03039**	**7.0830**	**0.000**	**.155673**	**.274788**
Bias-corrected	**.22416**	**.03039**	**7.3769**	**0.000**	**.164604**	**.283719**
Robust	**.22416**	**.03818**	**5.8705**	**0.000**	**.149321**	**.299001**

tau_cl = .2152304082169394 and tau_bc = .2241613120536385

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17932**	**.03065**	**5.8505**	**0.000**	**.119247**	**.239395**
Bias-corrected	**.20109**	**.03065**	**6.5606**	**0.000**	**.141012**	**.261159**
Robust	**.20109**	**.03869**	**5.1972**	**0.000**	**.125253**	**.276918**

tau_cl = .1793210183291194 and tau_bc = .2010857204290915

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18256**	**.0307**	**5.9457**	**0.000**	**.122381**	**.24274**
Bias-corrected	**.1733**	**.0307**	**5.6440**	**0.000**	**.113117**	**.233477**
Robust	**.1733**	**.03869**	**4.4790**	**0.000**	**.097464**	**.24913**

tau_cl = .1825605582475873 and tau_bc = .1732968878977772

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15402**	**.03092**	**4.9809**	**0.000**	**.093412**	**.214623**
Bias-corrected	**.16559**	**.03092**	**5.3550**	**0.000**	**.10498**	**.226191**
Robust	**.16559**	**.03898**	**4.2477**	**0.000**	**.089181**	**.241989**

tau_cl = .1540179101984904 and tau_bc = .1655851556397465

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22419**	**.03091**	**7.2533**	**0.000**	**.163608**	**.284766**
Bias-corrected	**.25241**	**.03091**	**8.1665**	**0.000**	**.191834**	**.312992**
Robust	**.25241**	**.0391**	**6.4563**	**0.000**	**.175787**	**.329039**

tau_cl = .2241872866652557 and tau_bc = .2524129354446814

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19621**	**.03094**	**6.3416**	**0.000**	**.135565**	**.256847**
Bias-corrected	**.16378**	**.03094**	**5.2934**	**0.000**	**.103136**	**.224417**
Robust	**.16378**	**.03909**	**4.1892**	**0.000**	**.087152**	**.240401**

tau_cl = .1962060649416344 and tau_bc = .1637765439140821

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18843**	**.03099**	**6.0808**	**0.000**	**.127696**	**.249167**
Bias-corrected	**.17205**	**.03099**	**5.5522**	**0.000**	**.111318**	**.232789**
Robust	**.17205**	**.03912**	**4.3985**	**0.000**	**.095386**	**.24872**

tau_cl = .1884317480025857 and tau_bc = .17205306067126

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18947**	**.03087**	**6.1369**	**0.000**	**.128955**	**.249977**
Bias-corrected	**.15735**	**.03087**	**5.0967**	**0.000**	**.096841**	**.217863**
Robust	**.15735**	**.03879**	**4.0561**	**0.000**	**.081318**	**.233386**

tau_cl = .1894663000784931 and tau_bc = .1573519851972378

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20802**	**.03056**	**6.8062**	**0.000**	**.148114**	**.267918**
Bias-corrected	**.20402**	**.03056**	**6.6754**	**0.000**	**.144117**	**.263921**
Robust	**.20402**	**.03842**	**5.3107**	**0.000**	**.128724**	**.279314**

tau_cl = .2080160652690211 and tau_bc = .2040190184920903

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20169**	**.03083**	**6.5426**	**0.000**	**.141269**	**.262109**
Bias-corrected	**.1899**	**.03083**	**6.1601**	**0.000**	**.129478**	**.250318**
Robust	**.1899**	**.03894**	**4.8764**	**0.000**	**.113573**	**.266224**

tau_cl = .2016889269871172 and tau_bc = .1898981247823031

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.25572**	**.03087**	**8.2827**	**0.000**	**.195211**	**.316237**
Bias-corrected	**.25311**	**.03087**	**8.1979**	**0.000**	**.192593**	**.313618**
Robust	**.25311**	**.03895**	**6.4985**	**0.000**	**.176768**	**.329443**

tau_cl = .2557239740267505 and tau_bc = .2531052400590852

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1921**	**.03091**	**6.2145**	**0.000**	**.131512**	**.252681**
Bias-corrected	**.18832**	**.03091**	**6.0925**	**0.000**	**.12774**	**.248909**
Robust	**.18832**	**.03901**	**4.8279**	**0.000**	**.111871**	**.264778**

tau_cl = .192096685206252 and tau_bc = .1883244244127127

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15875**	**.03152**	**5.0362**	**0.000**	**.096967**	**.22053**
Bias-corrected	**.17049**	**.03152**	**5.4086**	**0.000**	**.108708**	**.23227**
Robust	**.17049**	**.03992**	**4.2703**	**0.000**	**.092238**	**.24874**

tau_cl = .1587486034163703 and tau_bc = .17048883962525

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18516**	**.03099**	**5.9741**	**0.000**	**.124411**	**.245902**
Bias-corrected	**.17747**	**.03099**	**5.7261**	**0.000**	**.116723**	**.238213**
Robust	**.17747**	**.03918**	**4.5292**	**0.000**	**.100671**	**.254265**

tau_cl = .1851566008090231 and tau_bc = .1774676548675416

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14859**	**.03106**	**4.7835**	**0.000**	**.087708**	**.209471**
Bias-corrected	**.18183**	**.03106**	**5.8535**	**0.000**	**.120944**	**.242707**
Robust	**.18183**	**.03915**	**4.6438**	**0.000**	**.105085**	**.258566**

tau_cl = .1485891989104857 and tau_bc = .1818257096133493

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.25741**	**.03069**	**8.3874**	**0.000**	**.197259**	**.317562**
Bias-corrected	**.24261**	**.03069**	**7.9050**	**0.000**	**.182454**	**.302757**
Robust	**.24261**	**.03873**	**6.2633**	**0.000**	**.166687**	**.318524**

tau_cl = .2574105017247348 and tau_bc = .2426055070377515

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14658**	**.03109**	**4.7153**	**0.000**	**.085654**	**.207514**
Bias-corrected	**.11479**	**.03109**	**3.6927**	**0.000**	**.053865**	**.175724**
Robust	**.11479**	**.03926**	**2.9243**	**0.003**	**.037854**	**.191735**

tau_cl = .1465841702429316 and tau_bc = .1147947629292503

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13632**	**.03017**	**4.5177**	**0.000**	**.077178**	**.19546**
Bias-corrected	**.12472**	**.03017**	**4.1334**	**0.000**	**.065584**	**.183865**
Robust	**.12472**	**.03781**	**3.2990**	**0.001**	**.050625**	**.198824**

tau_cl = .1363188793879999 and tau_bc = .1247243188868197

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18653**	**.03078**	**6.0612**	**0.000**	**.126215**	**.246851**
Bias-corrected	**.15286**	**.03078**	**4.9671**	**0.000**	**.092544**	**.21318**
Robust	**.15286**	**.03889**	**3.9304**	**0.000**	**.076635**	**.229088**

tau_cl = .1865327832206276 and tau_bc = .1528615718066249

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17721**	**.03115**	**5.6883**	**0.000**	**.116152**	**.238274**
Bias-corrected	**.21347**	**.03115**	**6.8519**	**0.000**	**.152406**	**.274528**
Robust	**.21347**	**.03944**	**5.4128**	**0.000**	**.13617**	**.290763**

tau_cl = .1772132321398203 and tau_bc = .2134666056999777

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20066**	**.03098**	**6.4770**	**0.000**	**.139941**	**.261385**
Bias-corrected	**.17229**	**.03098**	**5.5613**	**0.000**	**.111573**	**.233016**
Robust	**.17229**	**.039**	**4.4181**	**0.000**	**.095862**	**.248727**

tau_cl = .2006627981277234 and tau_bc = .172294484262693

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18411**	**.03097**	**5.9442**	**0.000**	**.123403**	**.244815**
Bias-corrected	**.19587**	**.03097**	**6.3239**	**0.000**	**.135163**	**.256575**
Robust	**.19587**	**.03908**	**5.0124**	**0.000**	**.11928**	**.272458**

tau_cl = .1841086154004188 and tau_bc = .195869234012207

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14347**	**.03084**	**4.6520**	**0.000**	**.083026**	**.203922**
Bias-corrected	**.16245**	**.03084**	**5.2673**	**0.000**	**.102003**	**.2229**
Robust	**.16245**	**.03888**	**4.1781**	**0.000**	**.086245**	**.238659**

tau_cl = .1434737495128502 and tau_bc = .1624516431406846

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14621**	**.03118**	**4.6893**	**0.000**	**.0851**	**.207323**
Bias-corrected	**.13931**	**.03118**	**4.4679**	**0.000**	**.078197**	**.200421**
Robust	**.13931**	**.03946**	**3.5300**	**0.000**	**.061961**	**.216657**

tau_cl = .1462116341795081 and tau_bc = .1393089901753228

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23377**	**.03109**	**7.5196**	**0.000**	**.172841**	**.294705**
Bias-corrected	**.23463**	**.03109**	**7.5473**	**0.000**	**.1737**	**.295565**
Robust	**.23463**	**.03933**	**5.9661**	**0.000**	**.157552**	**.311713**

tau_cl = .2337731139227799 and tau_bc = .2346326276169748

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2052**	**.03136**	**6.5439**	**0.000**	**.14374**	**.26666**
Bias-corrected	**.24004**	**.03136**	**7.6550**	**0.000**	**.178584**	**.301503**
Robust	**.24004**	**.03957**	**6.0662**	**0.000**	**.162486**	**.317601**

tau_cl = .2052000705011778 and tau_bc = .2400433429438635

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22764**	**.03117**	**7.3041**	**0.000**	**.166559**	**.28873**
Bias-corrected	**.25957**	**.03117**	**8.3284**	**0.000**	**.198486**	**.320657**
Robust	**.25957**	**.03924**	**6.6144**	**0.000**	**.182655**	**.336488**

tau_cl = .2276444700328284 and tau_bc = .2595714538597349

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1784**	**.03099**	**5.7575**	**0.000**	**.117672**	**.239138**
Bias-corrected	**.18845**	**.03099**	**6.0817**	**0.000**	**.127718**	**.249184**
Robust	**.18845**	**.03905**	**4.8258**	**0.000**	**.111913**	**.264989**

tau_cl = .1784048667982461 and tau_bc = .1884510239055999

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16285**	**.03111**	**5.2354**	**0.000**	**.101887**	**.223821**
Bias-corrected	**.23603**	**.03111**	**7.5880**	**0.000**	**.175067**	**.297001**
Robust	**.23603**	**.03921**	**6.0193**	**0.000**	**.159179**	**.312889**

tau_cl = .1628540751244145 and tau_bc = .236034147304963

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.11633**	**.03091**	**3.7630**	**0.000**	**.05574**	**.17692**
Bias-corrected	**.14747**	**.03091**	**4.7702**	**0.000**	**.086875**	**.208056**
Robust	**.14747**	**.0389**	**3.7911**	**0.000**	**.071228**	**.223703**

tau_cl = .1163300030893879 and tau_bc = .1474654842609198

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16644**	**.0307**	**5.4220**	**0.000**	**.106274**	**.226604**
Bias-corrected	**.17773**	**.0307**	**5.7900**	**0.000**	**.117569**	**.237898**
Robust	**.17773**	**.03872**	**4.5899**	**0.000**	**.101839**	**.253628**

tau_cl = .1664391641575094 and tau_bc = .1777334978678482

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16916**	**.03065**	**5.5198**	**0.000**	**.109096**	**.229227**
Bias-corrected	**.20446**	**.03065**	**6.6717**	**0.000**	**.144398**	**.264529**
Robust	**.20446**	**.03855**	**5.3034**	**0.000**	**.1289**	**.280027**

tau_cl = .169161310378513 and tau_bc = .2044635454631134

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20501**	**.031**	**6.6141**	**0.000**	**.14426**	**.265762**
Bias-corrected	**.2237**	**.031**	**7.2171**	**0.000**	**.162951**	**.284453**
Robust	**.2237**	**.03889**	**5.7519**	**0.000**	**.147475**	**.299929**

tau_cl = .2050111836042561 and tau_bc = .2237018176892889

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19886**	**.03057**	**6.5048**	**0.000**	**.138941**	**.258778**
Bias-corrected	**.20057**	**.03057**	**6.5606**	**0.000**	**.140647**	**.260485**
Robust	**.20057**	**.03836**	**5.2286**	**0.000**	**.125383**	**.275749**

tau_cl = .1988596219534884 and tau_bc = .2005660724989866

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17773**	**.03115**	**5.7066**	**0.000**	**.116691**	**.238779**
Bias-corrected	**.18911**	**.03115**	**6.0718**	**0.000**	**.128066**	**.250154**
Robust	**.18911**	**.03935**	**4.8060**	**0.000**	**.111988**	**.266233**

tau_cl = .1777348915657058 and tau_bc = .1891102816953207

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.11376**	**.03121**	**3.6454**	**0.000**	**.052595**	**.174921**
Bias-corrected	**.13824**	**.03121**	**4.4298**	**0.000**	**.077073**	**.199399**
Robust	**.13824**	**.0393**	**3.5174**	**0.000**	**.061209**	**.215263**

tau_cl = .1137580901126967 and tau_bc = .138236089630027

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20814**	**.03096**	**6.7219**	**0.000**	**.147451**	**.26883**
Bias-corrected	**.19483**	**.03096**	**6.2922**	**0.000**	**.134145**	**.255524**
Robust	**.19483**	**.03919**	**4.9720**	**0.000**	**.118031**	**.271639**

tau_cl = .2081404744553765 and tau_bc = .1948347289321646

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17271**	**.03086**	**5.5967**	**0.000**	**.11223**	**.233198**
Bias-corrected	**.16904**	**.03086**	**5.4776**	**0.000**	**.108553**	**.229521**
Robust	**.16904**	**.03886**	**4.3495**	**0.000**	**.092866**	**.245208**

tau_cl = .1727138691926484 and tau_bc = .1690369884709071

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19014**	**.03051**	**6.2316**	**0.000**	**.13034**	**.249948**
Bias-corrected	**.19281**	**.03051**	**6.3190**	**0.000**	**.133007**	**.252615**
Robust	**.19281**	**.03846**	**5.0136**	**0.000**	**.117435**	**.268187**

tau_cl = .1901441142981639 and tau_bc = .1928109595696696

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15314**	**.03084**	**4.9656**	**0.000**	**.092695**	**.213588**
Bias-corrected	**.13179**	**.03084**	**4.2731**	**0.000**	**.071339**	**.192233**
Robust	**.13179**	**.03888**	**3.3892**	**0.001**	**.055574**	**.207998**

tau_cl = .1531411938267411 and tau_bc = .1317859678829336

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23139**	**.03086**	**7.4968**	**0.000**	**.170892**	**.29188**
Bias-corrected	**.22498**	**.03086**	**7.2893**	**0.000**	**.164488**	**.285475**
Robust	**.22498**	**.03899**	**5.7705**	**0.000**	**.148566**	**.301397**

tau_cl = .2313858561342386 and tau_bc = .2249813130838447

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14489**	**.03108**	**4.6613**	**0.000**	**.083968**	**.205813**
Bias-corrected	**.17983**	**.03108**	**5.7853**	**0.000**	**.118906**	**.240751**
Robust	**.17983**	**.03932**	**4.5730**	**0.000**	**.102755**	**.256902**

tau_cl = .1448904953417696 and tau_bc = .1798283370740137

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1896**	**.03083**	**6.1501**	**0.000**	**.12918**	**.250029**
Bias-corrected	**.14925**	**.03083**	**4.8412**	**0.000**	**.088826**	**.209675**
Robust	**.14925**	**.03879**	**3.8477**	**0.000**	**.073223**	**.225278**

tau_cl = .1896041939417046 and tau_bc = .1492504899042615

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1192**	**.03098**	**3.8476**	**0.000**	**.058477**	**.179914**
Bias-corrected	**.09919**	**.03098**	**3.2018**	**0.001**	**.038472**	**.159908**
Robust	**.09919**	**.03903**	**2.5411**	**0.011**	**.022686**	**.175694**

tau_cl = .119195732339449 and tau_bc = .0991899469113378

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1803**	**.03111**	**5.7958**	**0.000**	**.119326**	**.241267**
Bias-corrected	**.17074**	**.03111**	**5.4886**	**0.000**	**.10977**	**.231711**
Robust	**.17074**	**.03925**	**4.3497**	**0.000**	**.093806**	**.247676**

tau_cl = .1802965716369727 and tau_bc = .1707406280793293

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13214**	**.03105**	**4.2549**	**0.000**	**.071269**	**.193002**
Bias-corrected	**.10724**	**.03105**	**3.4532**	**0.001**	**.046371**	**.168104**
Robust	**.10724**	**.03917**	**2.7375**	**0.006**	**.030457**	**.184018**

tau_cl = .1321357495580742 and tau_bc = .1072375687244858

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20965**	**.03098**	**6.7672**	**0.000**	**.148933**	**.270375**
Bias-corrected	**.20132**	**.03098**	**6.4983**	**0.000**	**.140599**	**.262041**
Robust	**.20132**	**.03904**	**5.1572**	**0.000**	**.12481**	**.277831**

tau_cl = .2096537516172248 and tau_bc = .2013201540366936

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23593**	**.03048**	**7.7395**	**0.000**	**.176184**	**.295679**
Bias-corrected	**.21113**	**.03048**	**6.9258**	**0.000**	**.15138**	**.270875**
Robust	**.21113**	**.03829**	**5.5135**	**0.000**	**.136075**	**.28618**

tau_cl = .2359315933372272 and tau_bc = .2111273689779409

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15414**	**.03116**	**4.9471**	**0.000**	**.093074**	**.215215**
Bias-corrected	**.16309**	**.03116**	**5.2340**	**0.000**	**.102017**	**.224157**
Robust	**.16309**	**.03934**	**4.1458**	**0.000**	**.085986**	**.240187**

tau_cl = .1541446340115726 and tau_bc = .163086673577709

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16621**	**.03089**	**5.3809**	**0.000**	**.105665**	**.226745**
Bias-corrected	**.18171**	**.03089**	**5.8829**	**0.000**	**.121171**	**.242251**
Robust	**.18171**	**.03888**	**4.6742**	**0.000**	**.105516**	**.257906**

tau_cl = .1662052832180052 and tau_bc = .1817113292477188

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20648**	**.03062**	**6.7438**	**0.000**	**.146472**	**.266494**
Bias-corrected	**.21233**	**.03062**	**6.9347**	**0.000**	**.152318**	**.27234**
Robust	**.21233**	**.03855**	**5.5077**	**0.000**	**.13677**	**.287888**

tau_cl = .20648336335762 and tau_bc = .2123290329973315

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1113**	**.03104**	**3.5852**	**0.000**	**.050456**	**.172148**
Bias-corrected	**.10251**	**.03104**	**3.3020**	**0.001**	**.041662**	**.163354**
Robust	**.10251**	**.03916**	**2.6175**	**0.009**	**.025752**	**.179264**

tau_cl = .111301708004703 and tau_bc = .1025082763649152

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18009**	**.03078**	**5.8502**	**0.000**	**.119757**	**.240426**
Bias-corrected	**.16795**	**.03078**	**5.4558**	**0.000**	**.107615**	**.228284**
Robust	**.16795**	**.0387**	**4.3402**	**0.000**	**.092106**	**.243793**

tau_cl = .1800915023723064 and tau_bc = .1679495985717949

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18022**	**.03092**	**5.8291**	**0.000**	**.119622**	**.240815**
Bias-corrected	**.17599**	**.03092**	**5.6924**	**0.000**	**.115397**	**.23659**
Robust	**.17599**	**.03895**	**4.5183**	**0.000**	**.09965**	**.252337**

tau_cl = .1802183779700499 and tau_bc = .1759931700080415

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23459**	**.03086**	**7.6008**	**0.000**	**.174096**	**.295079**
Bias-corrected	**.19567**	**.03086**	**6.3399**	**0.000**	**.135182**	**.256164**
Robust	**.19567**	**.03884**	**5.0378**	**0.000**	**.119546**	**.2718**

tau_cl = .2345879201106982 and tau_bc = .1956730006727412

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20825**	**.03104**	**6.7091**	**0.000**	**.147416**	**.269093**
Bias-corrected	**.19295**	**.03104**	**6.2159**	**0.000**	**.132108**	**.253785**
Robust	**.19295**	**.03912**	**4.9325**	**0.000**	**.116277**	**.269616**

tau_cl = .208254551164373 and tau_bc = .1929466308110932

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1799**	**.031**	**5.8035**	**0.000**	**.119146**	**.24066**
Bias-corrected	**.15083**	**.031**	**4.8658**	**0.000**	**.090077**	**.211591**
Robust	**.15083**	**.03912**	**3.8562**	**0.000**	**.07417**	**.227498**

tau_cl = .1799026666567443 and tau_bc = .150834013461008

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17592**	**.03059**	**5.7498**	**0.000**	**.11595**	**.23588**
Bias-corrected	**.1483**	**.03059**	**4.8472**	**0.000**	**.088336**	**.208266**
Robust	**.1483**	**.0385**	**3.8519**	**0.000**	**.072841**	**.223761**

tau_cl = .1759154439778285 and tau_bc = .1483010484334955

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17953**	**.03089**	**5.8126**	**0.000**	**.118991**	**.240061**
Bias-corrected	**.14816**	**.03089**	**4.7971**	**0.000**	**.087625**	**.208695**
Robust	**.14816**	**.03898**	**3.8006**	**0.000**	**.071754**	**.224566**

tau_cl = .1795257992098414 and tau_bc = .1481600093839006

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15023**	**.03026**	**4.9649**	**0.000**	**.090926**	**.209539**
Bias-corrected	**.17603**	**.03026**	**5.8176**	**0.000**	**.116728**	**.235342**
Robust	**.17603**	**.0381**	**4.6209**	**0.000**	**.10137**	**.2507**

tau_cl = .1502325368946913 and tau_bc = .1760349641408538

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21468**	**.03085**	**6.9579**	**0.000**	**.15421**	**.275158**
Bias-corrected	**.19054**	**.03085**	**6.1755**	**0.000**	**.130071**	**.251019**
Robust	**.19054**	**.03893**	**4.8947**	**0.000**	**.114245**	**.266844**

tau_cl = .2146843233322215 and tau_bc = .1905448213688032

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23341**	**.03074**	**7.5936**	**0.000**	**.173161**	**.293649**
Bias-corrected	**.20102**	**.03074**	**6.5399**	**0.000**	**.140776**	**.261264**
Robust	**.20102**	**.03859**	**5.2090**	**0.000**	**.125383**	**.276656**

tau_cl = .2334052687938311 and tau_bc = .2010199099431702

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19235**	**.03052**	**6.3029**	**0.000**	**.132533**	**.252158**
Bias-corrected	**.27921**	**.03052**	**9.1494**	**0.000**	**.219402**	**.339027**
Robust	**.27921**	**.03852**	**7.2490**	**0.000**	**.203721**	**.354708**

tau_cl = .1923459258928233 and tau_bc = .2792146781152951

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15549**	**.03099**	**5.0171**	**0.000**	**.094749**	**.216237**
Bias-corrected	**.13831**	**.03099**	**4.4626**	**0.000**	**.077562**	**.199051**
Robust	**.13831**	**.03909**	**3.5378**	**0.000**	**.061685**	**.214929**

tau_cl = .1554931345540354 and tau_bc = .1383066897319623

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14022**	**.03098**	**4.5268**	**0.000**	**.07951**	**.200935**
Bias-corrected	**.16146**	**.03098**	**5.2124**	**0.000**	**.100748**	**.222172**
Robust	**.16146**	**.03894**	**4.1462**	**0.000**	**.085135**	**.237784**

tau_cl = .1402222243218603 and tau_bc = .161459944262333

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16461**	**.03081**	**5.3436**	**0.000**	**.104236**	**.224993**
Bias-corrected	**.17139**	**.03081**	**5.5636**	**0.000**	**.111014**	**.23177**
Robust	**.17139**	**.03881**	**4.4164**	**0.000**	**.09533**	**.247453**

tau_cl = .1646144734063455 and tau_bc = .1713915897098559

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19746**	**.03045**	**6.4848**	**0.000**	**.137782**	**.257144**
Bias-corrected	**.15521**	**.03045**	**5.0971**	**0.000**	**.095526**	**.214889**
Robust	**.15521**	**.03831**	**4.0517**	**0.000**	**.080129**	**.230287**

tau_cl = .1974630307431653 and tau_bc = .1552075502982007

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18929**	**.03088**	**6.1300**	**0.000**	**.128771**	**.249818**
Bias-corrected	**.24148**	**.03088**	**7.8198**	**0.000**	**.180952**	**.302**
Robust	**.24148**	**.03892**	**6.2042**	**0.000**	**.165191**	**.317761**

tau_cl = .1892941537307706 and tau_bc = .2414760508345353

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17098**	**.03071**	**5.5680**	**0.000**	**.110792**	**.231162**
Bias-corrected	**.12585**	**.03071**	**4.0982**	**0.000**	**.065661**	**.18603**
Robust	**.12585**	**.0388**	**3.2434**	**0.001**	**.049798**	**.201893**

tau_cl = .1709771753803579 and tau_bc = .1258454258640995

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2394**	**.03123**	**7.6663**	**0.000**	**.178192**	**.3006**
Bias-corrected	**.2128**	**.03123**	**6.8147**	**0.000**	**.151598**	**.274006**
Robust	**.2128**	**.03941**	**5.3995**	**0.000**	**.135558**	**.290047**

tau_cl = .2393963997205901 and tau_bc = .2128023797790775

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19581**	**.03087**	**6.3434**	**0.000**	**.135313**	**.256316**
Bias-corrected	**.16567**	**.03087**	**5.3669**	**0.000**	**.105167**	**.226171**
Robust	**.16567**	**.03893**	**4.2551**	**0.000**	**.089359**	**.241979**

tau_cl = .1958145019930271 and tau_bc = .1656690916420303

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21758**	**.03069**	**7.0890**	**0.000**	**.15742**	**.277731**
Bias-corrected	**.23457**	**.03069**	**7.6426**	**0.000**	**.17441**	**.294721**
Robust	**.23457**	**.03876**	**6.0512**	**0.000**	**.158591**	**.310541**

tau_cl = .217575574789862 and tau_bc = .2345657303490043

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12074**	**.03072**	**3.9306**	**0.000**	**.060534**	**.180948**
Bias-corrected	**.10312**	**.03072**	**3.3569**	**0.001**	**.042913**	**.163326**
Robust	**.10312**	**.03876**	**2.6602**	**0.008**	**.027145**	**.179095**

tau_cl = .1207412739286156 and tau_bc = .1031195753862448

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21259**	**.03135**	**6.7824**	**0.000**	**.151158**	**.274029**
Bias-corrected	**.19743**	**.03135**	**6.2987**	**0.000**	**.135997**	**.258868**
Robust	**.19743**	**.03965**	**4.9790**	**0.000**	**.119713**	**.275152**

tau_cl = .2125934190648877 and tau_bc = .197432617456343

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs =	**75784**
BW type =	**Manual**
Kernel =	**Uniform**
VCE method =	**NN**

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19241**	**.03054**	**6.2993**	**0.000**	**.132543**	**.252275**
Bias-corrected	**.17894**	**.03054**	**5.8583**	**0.000**	**.119073**	**.238805**
Robust	**.17894**	**.03833**	**4.6688**	**0.000**	**.103821**	**.254058**

tau_cl = .192409093936476 and tau_bc = .1789390927960994

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs =	**75784**
BW type =	**Manual**
Kernel =	**Uniform**
VCE method =	**NN**

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1842**	**.03103**	**5.9366**	**0.000**	**.123385**	**.245011**
Bias-corrected	**.18252**	**.03103**	**5.8827**	**0.000**	**.121712**	**.243338**
Robust	**.18252**	**.03915**	**4.6616**	**0.000**	**.105783**	**.259267**

tau_cl = .1841977019530532 and tau_bc = .1825248595905578

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs =	**75784**
BW type =	**Manual**
Kernel =	**Uniform**
VCE method =	**NN**

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20263**	**.03064**	**6.6122**	**0.000**	**.142564**	**.262688**
Bias-corrected	**.21784**	**.03064**	**7.1085**	**0.000**	**.157774**	**.277897**
Robust	**.21784**	**.03867**	**5.6335**	**0.000**	**.142048**	**.293623**

tau_cl = .2026258517253154 and tau_bc = .2178355268315499

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18283**	**.03087**	**5.9227**	**0.000**	**.122328**	**.243334**
Bias-corrected	**.24389**	**.03087**	**7.9006**	**0.000**	**.183384**	**.304391**
Robust	**.24389**	**.03895**	**6.2619**	**0.000**	**.167552**	**.320223**

tau_cl = .1828308322369594 and tau_bc = .2438873890200739

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19724**	**.03075**	**6.4135**	**0.000**	**.136963**	**.257515**
Bias-corrected	**.20277**	**.03075**	**6.5933**	**0.000**	**.142491**	**.263043**
Robust	**.20277**	**.03881**	**5.2247**	**0.000**	**.126703**	**.278831**

tau_cl = .1972389202273916 and tau_bc = .2027671472633301

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21158**	**.03088**	**6.8515**	**0.000**	**.151052**	**.272099**
Bias-corrected	**.19854**	**.03088**	**6.4294**	**0.000**	**.138017**	**.259065**
Robust	**.19854**	**.03883**	**5.1130**	**0.000**	**.122434**	**.274648**

tau_cl = .2115755166842064 and tau_bc = .1985412073445332

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16488**	**.03105**	**5.3096**	**0.000**	**.104016**	**.225741**
Bias-corrected	**.19833**	**.03105**	**6.3869**	**0.000**	**.137469**	**.259194**
Robust	**.19833**	**.03917**	**5.0640**	**0.000**	**.121569**	**.275093**

tau_cl = .1648786816963366 and tau_bc = .1983312400088835

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19297**	**.03094**	**6.2378**	**0.000**	**.132339**	**.253607**
Bias-corrected	**.18684**	**.03094**	**6.0395**	**0.000**	**.126205**	**.247472**
Robust	**.18684**	**.03918**	**4.7690**	**0.000**	**.110052**	**.263626**

tau_cl = .192973156984408 and tau_bc = .1868385706543449

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19092**	**.03054**	**6.2516**	**0.000**	**.13106**	**.25077**
Bias-corrected	**.17383**	**.03054**	**5.6920**	**0.000**	**.113973**	**.233682**
Robust	**.17383**	**.03848**	**4.5171**	**0.000**	**.098404**	**.249251**

tau_cl = .1909150309002143 and tau_bc = .1738275533025444

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17874**	**.03082**	**5.7997**	**0.000**	**.118337**	**.239146**
Bias-corrected	**.20058**	**.03082**	**6.5083**	**0.000**	**.140177**	**.260986**
Robust	**.20058**	**.03894**	**5.1507**	**0.000**	**.124256**	**.276907**

tau_cl = .1787414809955408 and tau_bc = .2005815122920467

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18309**	**.03107**	**5.8930**	**0.000**	**.122195**	**.243983**
Bias-corrected	**.18395**	**.03107**	**5.9207**	**0.000**	**.123057**	**.244845**
Robust	**.18395**	**.03929**	**4.6822**	**0.000**	**.106949**	**.260953**

tau_cl = .1830890655528492 and tau_bc = .1839511816115191

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16829**	**.03056**	**5.5077**	**0.000**	**.108404**	**.228181**
Bias-corrected	**.13841**	**.03056**	**4.5299**	**0.000**	**.078525**	**.198302**
Robust	**.13841**	**.03837**	**3.6074**	**0.000**	**.063211**	**.213617**

tau_cl = .1682927482097512 and tau_bc = .1384138667590378

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19736**	**.0308**	**6.4076**	**0.000**	**.136994**	**.257734**
Bias-corrected	**.23085**	**.0308**	**7.4948**	**0.000**	**.170481**	**.291221**
Robust	**.23085**	**.03882**	**5.9469**	**0.000**	**.154768**	**.306935**

tau_cl = .1973637299911388 and tau_bc = .2308511726901088

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16823**	**.03094**	**5.4379**	**0.000**	**.107598**	**.228871**
Bias-corrected	**.14877**	**.03094**	**4.8086**	**0.000**	**.08813**	**.209403**
Robust	**.14877**	**.03903**	**3.8114**	**0.000**	**.072265**	**.225268**

tau_cl = .1682348392978383 and tau_bc = .1487666517050457

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20473**	**.031**	**6.6047**	**0.000**	**.143974**	**.265481**
Bias-corrected	**.20958**	**.031**	**6.7611**	**0.000**	**.148824**	**.270332**
Robust	**.20958**	**.03913**	**5.3565**	**0.000**	**.132893**	**.286263**

tau_cl = .2047276930202315 and tau_bc = .209578060979311

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18877**	**.03097**	**6.0942**	**0.000**	**.128057**	**.249476**
Bias-corrected	**.18845**	**.03097**	**6.0840**	**0.000**	**.127741**	**.24916**
Robust	**.18845**	**.03909**	**4.8206**	**0.000**	**.11183**	**.265071**

tau_cl = .1887662120175264 and tau_bc = .1884505577054369

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13937**	**.03086**	**4.5156**	**0.000**	**.078877**	**.199862**
Bias-corrected	**.15246**	**.03086**	**4.9398**	**0.000**	**.091969**	**.212954**
Robust	**.15246**	**.03882**	**3.9271**	**0.000**	**.07637**	**.228553**

tau_cl = .13936924531572 and tau_bc = .1524613079809569

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1202**	**.03058**	**3.9314**	**0.000**	**.060277**	**.180129**
Bias-corrected	**.1138**	**.03058**	**3.7221**	**0.000**	**.053876**	**.173729**
Robust	**.1138**	**.03854**	**2.9530**	**0.003**	**.038269**	**.189337**

tau_cl = .1202030529193507 and tau_bc = .1138028792342993

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1444**	**.03072**	**4.7005**	**0.000**	**.084187**	**.204605**
Bias-corrected	**.14734**	**.03072**	**4.7962**	**0.000**	**.087127**	**.207544**
Robust	**.14734**	**.03879**	**3.7985**	**0.000**	**.071313**	**.223357**

tau_cl = .1443959890348196 and tau_bc = .1473353601882081

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12034**	**.03061**	**3.9313**	**0.000**	**.060345**	**.18034**
Bias-corrected	**.11154**	**.03061**	**3.6437**	**0.000**	**.051543**	**.171538**
Robust	**.11154**	**.03854**	**2.8940**	**0.004**	**.036**	**.187081**

tau_cl = .1203426600523017 and tau_bc = .1115406057374457

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1373**	**.03107**	**4.4193**	**0.000**	**.076407**	**.198191**
Bias-corrected	**.15293**	**.03107**	**4.9223**	**0.000**	**.092034**	**.213818**
Robust	**.15293**	**.03906**	**3.9154**	**0.000**	**.076374**	**.229477**

tau_cl = .1372989608389616 and tau_bc = .1529255906225444

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19796**	**.03043**	**6.5051**	**0.000**	**.138318**	**.25761**
Bias-corrected	**.2131**	**.03043**	**7.0026**	**0.000**	**.153458**	**.272749**
Robust	**.2131**	**.03826**	**5.5705**	**0.000**	**.138124**	**.288083**

tau_cl = .1979639008513914 and tau_bc = .2131037241947524

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19955**	**.03098**	**6.4404**	**0.000**	**.138821**	**.260277**
Bias-corrected	**.23549**	**.03098**	**7.6002**	**0.000**	**.174758**	**.296213**
Robust	**.23549**	**.03889**	**6.0553**	**0.000**	**.159264**	**.311707**

tau_cl = .1995492570022179 and tau_bc = .2354854534924016

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17737**	**.03092**	**5.7367**	**0.000**	**.116771**	**.237971**
Bias-corrected	**.1723**	**.03092**	**5.5728**	**0.000**	**.111704**	**.232903**
Robust	**.1723**	**.03896**	**4.4227**	**0.000**	**.095946**	**.248661**

tau_cl = .1773709544509074 and tau_bc = .1723034681554054

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1413**	**.03055**	**4.6250**	**0.000**	**.081421**	**.20118**
Bias-corrected	**.12472**	**.03055**	**4.0824**	**0.000**	**.064845**	**.184604**
Robust	**.12472**	**.03842**	**3.2463**	**0.001**	**.049422**	**.200027**

tau_cl = .1413004649134564 and tau_bc = .1247246195362095

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16168**	**.03078**	**5.2535**	**0.000**	**.101363**	**.222004**
Bias-corrected	**.17485**	**.03078**	**5.6814**	**0.000**	**.11453**	**.235171**
Robust	**.17485**	**.03863**	**4.5264**	**0.000**	**.09914**	**.250561**

tau_cl = .1616834043879862 and tau_bc = .1748505948348793

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16351**	**.03093**	**5.2862**	**0.000**	**.102888**	**.22414**
Bias-corrected	**.14858**	**.03093**	**4.8033**	**0.000**	**.08795**	**.209202**
Robust	**.14858**	**.03891**	**3.8187**	**0.000**	**.072318**	**.224834**

tau_cl = .1635142515524421 and tau_bc = .1485761857370562

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16**	**.03054**	**5.2383**	**0.000**	**.100133**	**.219862**
Bias-corrected	**.14327**	**.03054**	**4.6905**	**0.000**	**.083402**	**.203132**
Robust	**.14327**	**.03844**	**3.7274**	**0.000**	**.067934**	**.2186**

tau_cl = .1599976902530216 and tau_bc = .1432670281828905

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18861**	**.03118**	**6.0495**	**0.000**	**.127503**	**.249717**
Bias-corrected	**.15651**	**.03118**	**5.0199**	**0.000**	**.095402**	**.217616**
Robust	**.15651**	**.03928**	**3.9849**	**0.000**	**.079529**	**.233488**

tau_cl = .1886102917542303 and tau_bc = .1565088293955341

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12695**	**.03108**	**4.0851**	**0.000**	**.066039**	**.187855**
Bias-corrected	**.10972**	**.03108**	**3.5306**	**0.000**	**.048808**	**.170623**
Robust	**.10972**	**.03916**	**2.8017**	**0.005**	**.032962**	**.186469**

tau_cl = .1269469257199489 and tau_bc = .1097156951427678

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17604**	**.03093**	**5.6911**	**0.000**	**.115416**	**.236673**
Bias-corrected	**.18217**	**.03093**	**5.8890**	**0.000**	**.121539**	**.242796**
Robust	**.18217**	**.03898**	**4.6740**	**0.000**	**.105778**	**.258557**

tau_cl = .176044274704509 and tau_bc = .1821675365640658

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18895**	**.03101**	**6.0929**	**0.000**	**.128168**	**.249728**
Bias-corrected	**.19072**	**.03101**	**6.1500**	**0.000**	**.129937**	**.251498**
Robust	**.19072**	**.03912**	**4.8748**	**0.000**	**.114038**	**.267398**

tau_cl = .1889480512404589 and tau_bc = .1907178147926061

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15883**	**.03086**	**5.1475**	**0.000**	**.098355**	**.219309**
Bias-corrected	**.14548**	**.03086**	**4.7147**	**0.000**	**.084999**	**.205953**
Robust	**.14548**	**.03876**	**3.7530**	**0.000**	**.069502**	**.22145**

tau_cl = .1588321137146522 and tau_bc = .1454760669294046

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13493**	**.03104**	**4.3467**	**0.000**	**.074087**	**.195767**
Bias-corrected	**.11298**	**.03104**	**3.6396**	**0.000**	**.052137**	**.173817**
Robust	**.11298**	**.03912**	**2.8881**	**0.004**	**.036306**	**.189647**

tau_cl = .1349270361765775 and tau_bc = .1129767246147821

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13003**	**.03063**	**4.2458**	**0.000**	**.070003**	**.190053**
Bias-corrected	**.12837**	**.03063**	**4.1917**	**0.000**	**.068348**	**.188398**
Robust	**.12837**	**.03868**	**3.3191**	**0.001**	**.052566**	**.20418**

tau_cl = .1300282208312638 and tau_bc = .128372914562533

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16739**	**.03071**	**5.4509**	**0.000**	**.107198**	**.227572**
Bias-corrected	**.12007**	**.03071**	**3.9100**	**0.000**	**.05988**	**.180253**
Robust	**.12007**	**.03872**	**3.1009**	**0.002**	**.044176**	**.195958**

tau_cl = .1673851046998607 and tau_bc = .1200668598739867

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20335**	**.03081**	**6.5992**	**0.000**	**.142955**	**.263746**
Bias-corrected	**.22376**	**.03081**	**7.2616**	**0.000**	**.163368**	**.284159**
Robust	**.22376**	**.03885**	**5.7597**	**0.000**	**.14762**	**.299908**

tau_cl = .2033502274698549 and tau_bc = .2237636841655331

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15626**	**.03064**	**5.1002**	**0.000**	**.096213**	**.216316**
Bias-corrected	**.14915**	**.03064**	**4.8678**	**0.000**	**.089094**	**.209198**
Robust	**.14915**	**.03858**	**3.8656**	**0.000**	**.073524**	**.224768**

tau_cl = .1562646298912114 and tau_bc = .1491460083161655

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15663**	**.03094**	**5.0626**	**0.000**	**.095992**	**.217272**
Bias-corrected	**.16831**	**.03094**	**5.4400**	**0.000**	**.107669**	**.228948**
Robust	**.16831**	**.03909**	**4.3056**	**0.000**	**.091692**	**.244925**

tau_cl = .1566319730459327 and tau_bc = .1683085950339773

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18525**	**.03094**	**5.9883**	**0.000**	**.124618**	**.245882**
Bias-corrected	**.13306**	**.03094**	**4.3014**	**0.000**	**.072433**	**.193697**
Robust	**.13306**	**.039**	**3.4120**	**0.001**	**.056628**	**.209501**

tau_cl = .1852499220194659 and tau_bc = .1330646682922634

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16813**	**.03124**	**5.3818**	**0.000**	**.106898**	**.229356**
Bias-corrected	**.18877**	**.03124**	**6.0426**	**0.000**	**.127541**	**.25**
Robust	**.18877**	**.03955**	**4.7729**	**0.000**	**.111252**	**.266288**

tau_cl = .1681270057001711 and tau_bc = .1887702486542366

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20012**	**.03075**	**6.5071**	**0.000**	**.139846**	**.260403**
Bias-corrected	**.16493**	**.03075**	**5.3626**	**0.000**	**.104647**	**.225204**
Robust	**.16493**	**.03875**	**4.2566**	**0.000**	**.088985**	**.240866**

tau_cl = .2001246337176781 and tau_bc = .1649258627539893

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.12941**	**.03094**	**4.1825**	**0.000**	**.068768**	**.190057**
Bias-corrected	**.11425**	**.03094**	**3.6926**	**0.000**	**.05361**	**.174899**
Robust	**.11425**	**.03897**	**2.9317**	**0.003**	**.037871**	**.190639**

tau_cl = .1294125158560746 and tau_bc = .1142547759413901

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14624**	**.03113**	**4.6978**	**0.000**	**.085227**	**.207254**
Bias-corrected	**.14236**	**.03113**	**4.5730**	**0.000**	**.081345**	**.203371**
Robust	**.14236**	**.03929**	**3.6233**	**0.000**	**.065351**	**.219365**

tau_cl = .1462406637720051 and tau_bc = .1423578943249595

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.24716**	**.03132**	**7.8912**	**0.000**	**.18577**	**.308545**
Bias-corrected	**.26837**	**.03132**	**8.5683**	**0.000**	**.206979**	**.329754**
Robust	**.26837**	**.03969**	**6.7618**	**0.000**	**.190578**	**.346154**

tau_cl = .24715785722492 and tau_bc = .2683661954570198

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19338**	**.03114**	**6.2093**	**0.000**	**.132341**	**.254422**
Bias-corrected	**.20391**	**.03114**	**6.5474**	**0.000**	**.142869**	**.26495**
Robust	**.20391**	**.03916**	**5.2077**	**0.000**	**.127166**	**.280652**

tau_cl = .1933812929032683 and tau_bc = .2039092195232115

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19949**	**.03087**	**6.4629**	**0.000**	**.13899**	**.259984**
Bias-corrected	**.18714**	**.03087**	**6.0629**	**0.000**	**.126643**	**.247637**
Robust	**.18714**	**.03887**	**4.8142**	**0.000**	**.110951**	**.263329**

tau_cl = .1994871046399567 and tau_bc = .1871399463634589

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16501**	**.03124**	**5.2817**	**0.000**	**.10378**	**.226249**
Bias-corrected	**.17692**	**.03124**	**5.6629**	**0.000**	**.115689**	**.238158**
Robust	**.17692**	**.03933**	**4.4989**	**0.000**	**.099846**	**.254002**

tau_cl = .1650143606339043 and tau_bc = .1769238340643824

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22244**	**.03094**	**7.1906**	**0.000**	**.16181**	**.283073**
Bias-corrected	**.23205**	**.03094**	**7.5012**	**0.000**	**.171418**	**.292681**
Robust	**.23205**	**.03889**	**5.9673**	**0.000**	**.155833**	**.308266**

tau_cl = .2224414005513609 and tau_bc = .2320494118553142

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21968**	**.03105**	**7.0761**	**0.000**	**.158835**	**.280533**
Bias-corrected	**.23718**	**.03105**	**7.6397**	**0.000**	**.176332**	**.298029**
Robust	**.23718**	**.03919**	**6.0521**	**0.000**	**.160371**	**.313991**

tau_cl = .2196839484035991 and tau_bc = .2371806871037734

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22429**	**.03101**	**7.2336**	**0.000**	**.163516**	**.28506**
Bias-corrected	**.27334**	**.03101**	**8.8154**	**0.000**	**.212565**	**.334109**
Robust	**.27334**	**.03914**	**6.9843**	**0.000**	**.196632**	**.350042**

tau_cl = .2242882463451679 and tau_bc = .2733371690524109

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19827**	**.03117**	**6.3602**	**0.000**	**.137172**	**.259372**
Bias-corrected	**.20464**	**.03117**	**6.5646**	**0.000**	**.143545**	**.265745**
Robust	**.20464**	**.03936**	**5.1993**	**0.000**	**.1275**	**.28179**

tau_cl = .19827194006848 and tau_bc = .2046449980775833

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18271**	**.03076**	**5.9393**	**0.000**	**.122415**	**.243003**
Bias-corrected	**.16197**	**.03076**	**5.2653**	**0.000**	**.101681**	**.222269**
Robust	**.16197**	**.03883**	**4.1717**	**0.000**	**.085876**	**.238074**

tau_cl = .1827093405477171 and tau_bc = .1619749657593275

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16468**	**.0302**	**5.4527**	**0.000**	**.105488**	**.22388**
Bias-corrected	**.15478**	**.0302**	**5.1247**	**0.000**	**.095583**	**.213974**
Robust	**.15478**	**.03801**	**4.0721**	**0.000**	**.08028**	**.229276**

tau_cl = .1646840668859113 and tau_bc = .1547782844972971

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22723**	**.03088**	**7.3576**	**0.000**	**.166702**	**.287767**
Bias-corrected	**.24105**	**.03088**	**7.8050**	**0.000**	**.180521**	**.301586**
Robust	**.24105**	**.03896**	**6.1877**	**0.000**	**.1647**	**.317408**

tau_cl = .2272343957674821 and tau_bc = .2410537565110644

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14255**	**.03098**	**4.6019**	**0.000**	**.081839**	**.203268**
Bias-corrected	**.0948**	**.03098**	**3.0604**	**0.002**	**.034088**	**.155517**
Robust	**.0948**	**.03918**	**2.4196**	**0.016**	**.018009**	**.171596**

tau_cl = .142553765221237 and tau_bc = .0948026360288168

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19831**	**.03129**	**6.3375**	**0.000**	**.136982**	**.259646**
Bias-corrected	**.17827**	**.03129**	**5.6968**	**0.000**	**.116934**	**.239597**
Robust	**.17827**	**.03949**	**4.5141**	**0.000**	**.100865**	**.255665**

tau_cl = .1983139958351785 and tau_bc = .1782652832280291

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22171**	**.03085**	**7.1858**	**0.000**	**.161234**	**.282177**
Bias-corrected	**.20765**	**.03085**	**6.7304**	**0.000**	**.147183**	**.268125**
Robust	**.20765**	**.03886**	**5.3435**	**0.000**	**.131488**	**.28382**

tau_cl = .2217053365679931 and tau_bc = .2076537149614524

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21306**	**.03035**	**7.0191**	**0.000**	**.153565**	**.272551**
Bias-corrected	**.1541**	**.03035**	**5.0767**	**0.000**	**.094606**	**.213592**
Robust	**.1541**	**.0381**	**4.0447**	**0.000**	**.079427**	**.228772**

tau_cl = .2130576922418186 and tau_bc = .1540993624826115

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21493**	**.03131**	**6.8642**	**0.000**	**.153561**	**.276301**
Bias-corrected	**.20506**	**.03131**	**6.5489**	**0.000**	**.143689**	**.266429**
Robust	**.20506**	**.03962**	**5.1760**	**0.000**	**.127411**	**.282707**

tau_cl = .2149310810400493 and tau_bc = .2050590161907166

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14766**	**.03112**	**4.7452**	**0.000**	**.08667**	**.208649**
Bias-corrected	**.1357**	**.03112**	**4.3608**	**0.000**	**.074709**	**.196688**
Robust	**.1357**	**.03926**	**3.4567**	**0.001**	**.058757**	**.21264**

tau_cl = .147659557269435 and tau_bc = .1356988393677057

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21727**	**.03058**	**7.1040**	**0.000**	**.157323**	**.277207**
Bias-corrected	**.21951**	**.03058**	**7.1775**	**0.000**	**.159571**	**.279456**
Robust	**.21951**	**.0383**	**5.7315**	**0.000**	**.144448**	**.29458**

tau_cl = .2172650899369728 and tau_bc = .2195138442780262

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20083**	**.03069**	**6.5432**	**0.000**	**.140672**	**.260984**
Bias-corrected	**.20598**	**.03069**	**6.7110**	**0.000**	**.145822**	**.266134**
Robust	**.20598**	**.03865**	**5.3300**	**0.000**	**.130235**	**.281721**

tau_cl = .2008282294968922 and tau_bc = .2059776527858048

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15525**	**.03072**	**5.0531**	**0.000**	**.095034**	**.215471**
Bias-corrected	**.18171**	**.03072**	**5.9141**	**0.000**	**.121488**	**.241926**
Robust	**.18171**	**.03849**	**4.7205**	**0.000**	**.106262**	**.257152**

tau_cl = .1552522697147651 and tau_bc = .1817069901658215

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.22803**	**.03085**	**7.3906**	**0.000**	**.167555**	**.288499**
Bias-corrected	**.24748**	**.03085**	**8.0211**	**0.000**	**.187008**	**.307952**
Robust	**.24748**	**.03886**	**6.3682**	**0.000**	**.171313**	**.323647**

tau_cl = .2280268829185843 and tau_bc = .2474801356220269

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16393**	**.03119**	**5.2560**	**0.000**	**.102799**	**.225054**
Bias-corrected	**.17815**	**.03119**	**5.7120**	**0.000**	**.11702**	**.239275**
Robust	**.17815**	**.03938**	**4.5233**	**0.000**	**.100955**	**.25534**

tau_cl = .1639263501388086 and tau_bc = .1781473006153647

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19668**	**.03065**	**6.4176**	**0.000**	**.136615**	**.256749**
Bias-corrected	**.27108**	**.03065**	**8.8453**	**0.000**	**.211015**	**.331149**
Robust	**.27108**	**.03857**	**7.0277**	**0.000**	**.195479**	**.346685**

tau_cl = .196681599166368 and tau_bc = .2710820470115323

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23257**	**.03078**	**7.5568**	**0.000**	**.172248**	**.292887**
Bias-corrected	**.22574**	**.03078**	**7.3348**	**0.000**	**.165416**	**.286055**
Robust	**.22574**	**.03871**	**5.8316**	**0.000**	**.149867**	**.301604**

tau_cl = .2325674370476918 and tau_bc = .2257354255575592

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1757**	**.03069**	**5.7242**	**0.000**	**.115543**	**.235864**
Bias-corrected	**.15731**	**.03069**	**5.1249**	**0.000**	**.097148**	**.21747**
Robust	**.15731**	**.03858**	**4.0770**	**0.000**	**.081684**	**.232934**

tau_cl = .1757036397111733 and tau_bc = .1573093082588457

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18237**	**.03145**	**5.7984**	**0.000**	**.120724**	**.244011**
Bias-corrected	**.19418**	**.03145**	**6.1738**	**0.000**	**.132532**	**.255819**
Robust	**.19418**	**.03985**	**4.8728**	**0.000**	**.116074**	**.272278**

tau_cl = .1823677578604475 and tau_bc = .19417567206483

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14119**	**.03069**	**4.5998**	**0.000**	**.081027**	**.201348**
Bias-corrected	**.15481**	**.03069**	**5.0435**	**0.000**	**.094649**	**.214969**
Robust	**.15481**	**.03876**	**3.9937**	**0.000**	**.078835**	**.230783**

tau_cl = .1411878182061628 and tau_bc = .1548090307728671

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.15612**	**.03111**	**5.0187**	**0.000**	**.095148**	**.217086**
Bias-corrected	**.14814**	**.03111**	**4.7624**	**0.000**	**.087176**	**.209114**
Robust	**.14814**	**.03927**	**3.7723**	**0.000**	**.071175**	**.225115**

tau_cl = .1561170385048172 and tau_bc = .1481446765365035

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19719**	**.03088**	**6.3862**	**0.000**	**.136675**	**.257714**
Bias-corrected	**.17794**	**.03088**	**5.7628**	**0.000**	**.117423**	**.238462**
Robust	**.17794**	**.03897**	**4.5660**	**0.000**	**.101561**	**.254325**

tau_cl = .1971944310921572 and tau_bc = .1779426822595269

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18912**	**.03111**	**6.0789**	**0.000**	**.128144**	**.250098**
Bias-corrected	**.20738**	**.03111**	**6.6656**	**0.000**	**.1464**	**.268353**
Robust	**.20738**	**.0393**	**5.2773**	**0.000**	**.130359**	**.284394**

tau_cl = .189120843303499 and tau_bc = .2073765098130025

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18223**	**.03113**	**5.8543**	**0.000**	**.121223**	**.243245**
Bias-corrected	**.2059**	**.03113**	**6.6147**	**0.000**	**.144894**	**.266915**
Robust	**.2059**	**.03934**	**5.2333**	**0.000**	**.12879**	**.283019**

tau_cl = .1822339606314927 and tau_bc = .2059046249091807

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14552**	**.0305**	**4.7713**	**0.000**	**.085744**	**.205299**
Bias-corrected	**.09921**	**.0305**	**3.2527**	**0.001**	**.039428**	**.158983**
Robust	**.09921**	**.03828**	**2.5917**	**0.010**	**.02418**	**.174231**

tau_cl = .1455210519825414 and tau_bc = .0992056989534831

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14817**	**.03063**	**4.8375**	**0.000**	**.088138**	**.208203**
Bias-corrected	**.16744**	**.03063**	**5.4666**	**0.000**	**.107407**	**.227473**
Robust	**.16744**	**.03858**	**4.3400**	**0.000**	**.091824**	**.243057**

tau_cl = .1481703715667209 and tau_bc = .1674401314899114

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18472**	**.03102**	**5.9553**	**0.000**	**.123924**	**.245509**
Bias-corrected	**.18044**	**.03102**	**5.8175**	**0.000**	**.119651**	**.241236**
Robust	**.18044**	**.03906**	**4.6201**	**0.000**	**.103895**	**.256991**

tau_cl = .1847167737714699 and tau_bc = .1804434157929791

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1686**	**.03089**	**5.4580**	**0.000**	**.108054**	**.229142**
Bias-corrected	**.17428**	**.03089**	**5.6420**	**0.000**	**.113738**	**.234826**
Robust	**.17428**	**.03895**	**4.4749**	**0.000**	**.097948**	**.250616**

tau_cl = .1685982843559941 and tau_bc = .1742818320508377

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18012**	**.0309**	**5.8288**	**0.000**	**.119553**	**.240687**
Bias-corrected	**.16985**	**.0309**	**5.4964**	**0.000**	**.109282**	**.230415**
Robust	**.16985**	**.03889**	**4.3675**	**0.000**	**.093626**	**.246071**

tau_cl = .1801200636300564 and tau_bc = .1698487747303261

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17407**	**.03112**	**5.5942**	**0.000**	**.113085**	**.235058**
Bias-corrected	**.18995**	**.03112**	**6.1044**	**0.000**	**.128959**	**.250932**
Robust	**.18995**	**.03932**	**4.8309**	**0.000**	**.112882**	**.267009**

tau_cl = .1740715100545458 and tau_bc = .1899457150634589

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13352**	**.03063**	**4.3595**	**0.000**	**.07349**	**.193543**
Bias-corrected	**.16047**	**.03063**	**5.2396**	**0.000**	**.100444**	**.220497**
Robust	**.16047**	**.03855**	**4.1630**	**0.000**	**.084919**	**.236022**

tau_cl = .133516853328274 and tau_bc = .1604707852097818

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1419**	**.03042**	**4.6647**	**0.000**	**.082278**	**.201524**
Bias-corrected	**.12576**	**.03042**	**4.1341**	**0.000**	**.06614**	**.185385**
Robust	**.12576**	**.0382**	**3.2923**	**0.001**	**.050893**	**.200632**

tau_cl = .1419012664500769 and tau_bc = .1257625292132616

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16436**	**.03116**	**5.2742**	**0.000**	**.103279**	**.225431**
Bias-corrected	**.17339**	**.03116**	**5.5642**	**0.000**	**.112316**	**.234469**
Robust	**.17339**	**.03933**	**4.4082**	**0.000**	**.0963**	**.250485**

tau_cl = .1643550509384113 and tau_bc = .1733927336936176

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19042**	**.03067**	**6.2087**	**0.000**	**.130307**	**.250529**
Bias-corrected	**.17274**	**.03067**	**5.6323**	**0.000**	**.112629**	**.232852**
Robust	**.17274**	**.03864**	**4.4706**	**0.000**	**.097008**	**.248473**

tau_cl = .1904178405948187 and tau_bc = .1727407259627398

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.14809**	**.03085**	**4.8009**	**0.000**	**.087634**	**.208553**
Bias-corrected	**.1267**	**.03085**	**4.1075**	**0.000**	**.066244**	**.187163**
Robust	**.1267**	**.03891**	**3.2562**	**0.001**	**.050438**	**.202969**

tau_cl = .1480933003240352 and tau_bc = .1267034839243024

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17983**	**.03094**	**5.8132**	**0.000**	**.119201**	**.240466**
Bias-corrected	**.1891**	**.03094**	**6.1126**	**0.000**	**.128465**	**.24973**
Robust	**.1891**	**.03907**	**4.8400**	**0.000**	**.112522**	**.265672**

tau_cl = .1798337093487135 and tau_bc = .1890972901392161

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16868**	**.03121**	**5.4054**	**0.000**	**.107517**	**.229839**
Bias-corrected	**.14781**	**.03121**	**4.7367**	**0.000**	**.086649**	**.208971**
Robust	**.14781**	**.03935**	**3.7562**	**0.000**	**.070684**	**.224937**

tau_cl = .1686779412766555 and tau_bc = .1478102906798995

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16993**	**.03085**	**5.5087**	**0.000**	**.10947**	**.230393**
Bias-corrected	**.14897**	**.03085**	**4.8292**	**0.000**	**.088511**	**.209433**
Robust	**.14897**	**.03891**	**3.8288**	**0.000**	**.072713**	**.225231**

tau_cl = .1699316296439974 and tau_bc = .1489718989487301

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18777**	**.03081**	**6.0936**	**0.000**	**.127374**	**.248163**
Bias-corrected	**.20415**	**.03081**	**6.6250**	**0.000**	**.143751**	**.26454**
Robust	**.20415**	**.03886**	**5.2532**	**0.000**	**.127979**	**.280312**

tau_cl = .1877682689387257 and tau_bc = .2041453789661318

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16122**	**.03088**	**5.2202**	**0.000**	**.100691**	**.221757**
Bias-corrected	**.13929**	**.03088**	**4.5100**	**0.000**	**.078757**	**.199824**
Robust	**.13929**	**.03913**	**3.5593**	**0.000**	**.062589**	**.215992**

tau_cl = .1612243690365176 and tau_bc = .1392904011295286

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20854**	**.03096**	**6.7357**	**0.000**	**.147858**	**.269219**
Bias-corrected	**.16467**	**.03096**	**5.3188**	**0.000**	**.103989**	**.22535**
Robust	**.16467**	**.03896**	**4.2267**	**0.000**	**.088311**	**.241027**

tau_cl = .2085380314092617 and tau_bc = .1646693126035643

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21471**	**.03112**	**6.8995**	**0.000**	**.153718**	**.275706**
Bias-corrected	**.1744**	**.03112**	**5.6040**	**0.000**	**.113402**	**.23539**
Robust	**.1744**	**.03934**	**4.4328**	**0.000**	**.097287**	**.251506**

tau_cl = .2147123013023702 and tau_bc = .1743963879921466

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19831**	**.03098**	**6.4018**	**0.000**	**.137596**	**.259023**
Bias-corrected	**.16399**	**.03098**	**5.2940**	**0.000**	**.103279**	**.224707**
Robust	**.16399**	**.03912**	**4.1919**	**0.000**	**.087316**	**.24067**

tau_cl = .1983094149850331 and tau_bc = .1639930548858501

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.20563**	**.03087**	**6.6617**	**0.000**	**.145129**	**.266127**
Bias-corrected	**.19252**	**.03087**	**6.2371**	**0.000**	**.132022**	**.25302**
Robust	**.19252**	**.03876**	**4.9673**	**0.000**	**.116558**	**.268485**

tau_cl = .2056281720469997 and tau_bc = .1925212326491419

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2056**	**.03123**	**6.5839**	**0.000**	**.144391**	**.266799**
Bias-corrected	**.22366**	**.03123**	**7.1625**	**0.000**	**.162459**	**.284867**
Robust	**.22366**	**.03958**	**5.6502**	**0.000**	**.146079**	**.301248**

tau_cl = .2055950102785573 and tau_bc = .2236633066722788

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17371**	**.03056**	**5.6840**	**0.000**	**.113808**	**.233603**
Bias-corrected	**.17591**	**.03056**	**5.7559**	**0.000**	**.116008**	**.235804**
Robust	**.17591**	**.0384**	**4.5810**	**0.000**	**.100646**	**.251166**

tau_cl = .173705588879784 and tau_bc = .1759057080871571

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17186**	**.03109**	**5.5285**	**0.000**	**.110931**	**.232786**
Bias-corrected	**.1903**	**.03109**	**6.1216**	**0.000**	**.129368**	**.251223**
Robust	**.1903**	**.03921**	**4.8530**	**0.000**	**.113442**	**.267149**

tau_cl = .1718584364080016 and tau_bc = .1902954091115134

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.13939**	**.03063**	**4.5516**	**0.000**	**.07937**	**.199418**
Bias-corrected	**.16844**	**.03063**	**5.5002**	**0.000**	**.108419**	**.228467**
Robust	**.16844**	**.03866**	**4.3569**	**0.000**	**.092668**	**.244218**

tau_cl = .1393942862268887 and tau_bc = .1684432060706058

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.19855**	**.03104**	**6.3969**	**0.000**	**.137714**	**.259381**
Bias-corrected	**.2084**	**.03104**	**6.7144**	**0.000**	**.147568**	**.269235**
Robust	**.2084**	**.03917**	**5.3202**	**0.000**	**.131626**	**.285176**

tau_cl = .1985478019560105 and tau_bc = .2084010309554287

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18838**	**.03087**	**6.1015**	**0.000**	**.127867**	**.248893**
Bias-corrected	**.17076**	**.03087**	**5.5308**	**0.000**	**.110248**	**.231274**
Robust	**.17076**	**.03894**	**4.3851**	**0.000**	**.094437**	**.247084**

tau_cl = .1883802788916 and tau_bc = .1707609006325583

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.16913**	**.03093**	**5.4675**	**0.000**	**.108502**	**.229761**
Bias-corrected	**.16514**	**.03093**	**5.3386**	**0.000**	**.104515**	**.225774**
Robust	**.16514**	**.03891**	**4.2440**	**0.000**	**.088877**	**.241412**

tau_cl = .1691312570446826 and tau_bc = .1651444234717019

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.17427**	**.0307**	**5.6765**	**0.000**	**.114097**	**.234437**
Bias-corrected	**.18491**	**.0307**	**6.0231**	**0.000**	**.124737**	**.245077**
Robust	**.18491**	**.03872**	**4.7760**	**0.000**	**.109025**	**.260789**

tau_cl = .174266904979504 and tau_bc = .1849072784525561

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.2566**	**.03042**	**8.4350**	**0.000**	**.196975**	**.316221**
Bias-corrected	**.27301**	**.03042**	**8.9746**	**0.000**	**.21339**	**.332636**
Robust	**.27301**	**.03839**	**7.1117**	**0.000**	**.197771**	**.348255**

tau_cl = .2565982386677206 and tau_bc = .2730130823661057

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.23113**	**.03086**	**7.4905**	**0.000**	**.170654**	**.29161**
Bias-corrected	**.25886**	**.03086**	**8.3891**	**0.000**	**.198381**	**.319336**
Robust	**.25886**	**.03883**	**6.6668**	**0.000**	**.182757**	**.334961**

tau_cl = .2311322596669925 and tau_bc = .2588585944622537

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21457**	**.03086**	**6.9524**	**0.000**	**.154079**	**.275058**
Bias-corrected	**.21263**	**.03086**	**6.8897**	**0.000**	**.152145**	**.273124**
Robust	**.21263**	**.03893**	**5.4616**	**0.000**	**.136328**	**.28894**

tau_cl = .214568109387983 and tau_bc = .2126340853278634

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21752**	**.0307**	**7.0866**	**0.000**	**.157363**	**.277686**
Bias-corrected	**.23592**	**.0307**	**7.6859**	**0.000**	**.175758**	**.296081**
Robust	**.23592**	**.03871**	**6.0947**	**0.000**	**.160051**	**.311788**

tau_cl = .217524587414573 and tau_bc = .2359192086514668

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**		
Number of obs	**41656**	**34128**	Number of obs =	**75784**
Eff. Number of obs	**41656**	**34128**	BW type =	**Manual**
Order est. (p)	**4**	**4**	Kernel =	**Uniform**
Order bias (q)	**5**	**5**	VCE method =	**NN**
BW est. (h)	**0.500**	**0.500**		
BW bias (b)	**0.500**	**0.500**		
rho (h/b)	**1.000**	**1.000**		

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.21492**	**.03086**	**6.9639**	**0.000**	**.154434**	**.275413**
Bias-corrected	**.23248**	**.03086**	**7.5327**	**0.000**	**.171987**	**.292967**
Robust	**.23248**	**.03885**	**5.9837**	**0.000**	**.156329**	**.308625**

tau_cl = .2149236882673904 and tau_bc = .2324769779866074

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs =	**75784**
BW type =	**Manual**
Kernel =	**Uniform**
VCE method =	**NN**

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.18688**	**.03084**	**6.0587**	**0.000**	**.126424**	**.247333**
Bias-corrected	**.22793**	**.03084**	**7.3895**	**0.000**	**.167471**	**.28838**
Robust	**.22793**	**.03888**	**5.8630**	**0.000**	**.151732**	**.304119**

tau_cl = .1868789363361429 and tau_bc = .2279252283224196

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**4**	**4**
Order bias (q)	**5**	**5**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs =	**75784**
BW type =	**Manual**
Kernel =	**Uniform**
VCE method =	**NN**

Outcome: y_s. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1655**	**.03082**	**5.3697**	**0.000**	**.105092**	**.225909**
Bias-corrected	**.16715**	**.03082**	**5.4234**	**0.000**	**.106746**	**.227563**
Robust	**.16715**	**.03884**	**4.3033**	**0.000**	**.091023**	**.243287**

tau_cl = .1655008487618943 and tau_bc = .167154960982316

```
80.
81.
82. // collect simulation results
83. clear

84. set obs `S'
  Number of observations (_N) was 0, now 300.

85. qui{

86.
87. save "$dta_loc/pset4_simresults.dta", replace
  file C:/Users/yfkas/Dropbox (Personal)/ARE213/Pset4/pset4_simresults.dta saved

88.
89.
90.
  end of do-file
```

```
. do "$do_loc/02_q3_plot.do"

. /*
> Title:          02_q3_plot.do
> Purpose:        Question 3, PSet 4
>
> */
.
.
. use "$dta_loc/pset4_simresults.dta", clear

.
. // visualize ATEs cl and bc
. // sort tau_bc
. // gen sp = _n
. // line tau_bc tau_cl sp
. // sort tau_cl
. // gen sp2 = _n
. // line tau_bc tau_cl sp2
. // sort s
.
. // plot simulation results
. // tau estimate
. twoway (hist tau_cl, color(red%30)) ///
>            (hist tau_bc, color(blue%30)), ///
>            title("Distribution of ATE across simulations") ///
>            xtitle("ATE") ///
>            legend(order(1 "Convential" 2 "Bias-corrected" ) ///
>                        position(6) row(1))

. graph export "$do_loc/graphs/q3b_ate.png", ///
>         width(1200) height(900) ///
>         replace
file C:/Users/yfkas/Documents/GitHub/ARE213_Fall2023/PSet 4/Stata/graphs/q3b_ate.png
    saved as PNG format

.
.
. // Bias estimate
. twoway (hist bias_cl, color(red%30)) ///
>            (hist bias_bc, color(blue%30)), ///
>            title("Distribution of bias of ATE across simulations") ///
>            xtitle("Bias of ATE") ///
>            legend(order(1 "Convential" 2 "Bias-corrected" ) ///
>                        position(6) row(1))

. graph export "$do_loc/graphs/q3b_bias.png", ///
>         width(1200) height(900) ///
>         replace
file C:/Users/yfkas/Documents/GitHub/ARE213_Fall2023/PSet
    4/Stata/graphs/q3b_bias.png saved as PNG format

.
. ttest bias_cl == bias_bc // cannot reject null of equality of biases

Paired t test
```

Variable	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
bias_cl	**300**	**.0280447**	**.0017881**	**.0309703**	**.0245259**	**.0315635**
bias_bc	**300**	**.028228**	**.0022799**	**.0394887**	**.0237413**	**.0327146**
diff	**300**	**-.0001833**	**.0013844**	**.0239793**	**-.0029078**	**.0025412**

```
    mean(diff) = mean(bias_cl - bias_bc)                      t =  -0.1324
H0: mean(diff) = 0                              Degrees of freedom =      299

Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
Pr(T < t) = 0.4474         Pr(|T| > |t|) = 0.8947          Pr(T > t) = 0.5526
```

```
117
118 // get SD of tau
119 preserve

120         use "$dta_loc/pset4_trim2.dta", clear

121         count if win != .
    75,784

122         local N_reg = `r(N)'

123 restore

124 gen sd_tau_bc = se_tau_bc * sqrt(`N_reg')

125 gen sd_tau_cl = se_tau_cl * sqrt(`N_reg')

126
127 // Bias SD
128 twoway (hist sd_tau_cl, color(red%30)) ///
  >             (hist sd_tau_bc, color(blue%30)), ///
  >             title("Distribution of standard deviation of ATE across simulations") ///
  >             xtitle("Standard Deviation of ATE") ///
  >             legend(order(1 "Convential" 2 "Bias-corrected" ) ///
  >                         position(6) row(1))

129 graph export "$do_loc/graphs/q3b_sd.png", ///
  >         width(1200) height(900) ///
  >         replace
  file C:/Users/yfkas/Documents/GitHub/ARE213_Fall2023/PSet 4/Stata/graphs/q3b_sd.png
      saved as PNG format

130
131 ttest sd_tau_cl == sd_tau_bc // can reject null of equality of SDs

  Paired t test
```

Variable	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
sd_tau~l	**300**	**8.497125**	**.0037166**	**.0643737**	**8.489811**	**8.504439**
sd_tau~c	**300**	**10.71142**	**.0056266**	**.0974563**	**10.70035**	**10.7225**
diff	**300**	**-2.214298**	**.0021837**	**.037823**	**-2.218595**	**-2.21**

```
     mean(diff) = mean(sd_tau_cl - sd_tau_bc)                      t = -1.0e+03
 H0: mean(diff) = 0                               Degrees of freedom =      299

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000

132
133 gen mse_bc = sd_tau_bc^2 + bias_bc^2

134 gen mse_cl = sd_tau_cl^2 + bias_cl^2

135 twoway (hist mse_cl, color(red%30)) ///
  >             (hist mse_bc, color(blue%30)), ///
  >             title("Distribution of MSE of ATE across simulations") ///
  >             xtitle("MSE of ATE") ///
  >             legend(order(1 "Convential" 2 "Bias-corrected" ) ///
  >                         position(6) row(1))
```

```
136 // mechanical result. Don't export
137
138
139 // CI Coverage
140 gen ci_lb_cl = tau_cl - invnormal(0.975)*se_tau_cl

141 gen ci_ub_cl = tau_cl + invnormal(0.975)*se_tau_cl

142 gen ci_lb_bc = tau_bc - invnormal(0.975)*se_tau_bc

143 gen ci_ub_bc = tau_bc + invnormal(0.975)*se_tau_bc

144
145 preserve

146         use "$dta_loc/pset4_trim2.dta", clear

147         gen y = logwage

148         rdrobust y x, p(1) c(0.5) h(0.5) kernel(uniform) all // replicate 2a result
```

Sharp RD estimates using local polynomial regression.

Cutoff c = .5	Left of **c**	Right of **c**
Number of obs	**41656**	**34128**
Eff. Number of obs	**41656**	**34128**
Order est. (p)	**1**	**1**
Order bias (q)	**2**	**2**
BW est. (h)	**0.500**	**0.500**
BW bias (b)	**0.500**	**0.500**
rho (h/b)	**1.000**	**1.000**

Number of obs =	**75784**
BW type =	**Manual**
Kernel =	**Uniform**
VCE method =	**NN**

Outcome: y. Running variable: x.

Method	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Conventional	**.1552**	**.01161**	**13.3654**	**0.000**	**.132438**	**.177956**
Bias-corrected	**.15285**	**.01161**	**13.1630**	**0.000**	**.130088**	**.175606**
Robust	**.15285**	**.01737**	**8.7974**	**0.000**	**.118795**	**.1869**

```
149         local tau_cl_true = e(tau_cl)

150 restore

151
152 gen cov_cl = inrange(`tau_cl_true', ci_lb_cl, ci_ub_cl)

153 gen cov_bc = inrange(`tau_cl_true', ci_lb_bc, ci_ub_bc)

154 sum cov*
```

Variable	Obs	Mean	Std. dev.	Min	Max
cov_cl	**300**	**.8466667**	**.3609105**	**0**	**1**
cov_bc	**300**	**.87**	**.3368653**	**0**	**1**

```
155
156
```

```
157
158
159
  end of do-file

160
161 log close
        name:  <unnamed>
         log:  C:/Users/yfkas/Documents/GitHub/ARE213_Fall2023/PSet 4/Stata/pset4_logfil
  > e_q3.smcl
    log type:  smcl
   closed on:   4 Dec 2023, 22:55:30
-------------------------------------------------------------------------------
```