STaTa®

Statistics/Data Analysis

_____

```
      name:  <unnamed>
       log:  /gpfs/scratch/azc211/ny_mergers/logs/fe_util_hhi_20190314.smcl
  log type:  smcl
 opened on:  14 Mar 2019, 12:32:37
```

```
1 .
2 .
3 . quietly {
4 . *****************************************
5 . * RUN PROGRAM
6 . *****************************************
7 .
8 .
9 . * Treatent/Control data
10. *****************************************
11. use "`proj_dir'/data_hospclean/ny_treatcontrol_Feb 12.dta", clear
12.
13. keep year cnty post_*
14. tostring cnty, replace
15.
16. tempfile treatcontrol
17. save `treatcontrol', replace
18.
19.
20. * Market-level exposure data
21. *****************************************
22. use "`proj_dir'/data_analytic/market_exposure.dta", clear
23.
24. merge m:1 cnty year using `treatcontrol', keep(3) nogen
25.
26. rename id ahaid
27.
28. tempfile cov
29. save `cov', replace
30.
31. * HCUP NY SID SUPP
32. *****************************************
33. use "`proj_dir'/data_hospclean/hhi_ny_sid_supp_hosp.dta", clear
34.
35. label var year ""
36. label var avg_hhisys_cnty "HHI (sys, cnty avg)"
37.
38. replace cnty="3636049" if ahaid=="6212320" & cnty=="3636043"
39.
40. *****************************************
41. * Merge on covariates
42. merge 1:1 ahaid year using `cov', keep(3) nogen
43.
44. *****************************************
45. * Prep outcome variables
46.
47. * Discharges
48. * Counts
49. local y_ds_cnts "discharges1 discharges2 discharges3 discharges4 discharges5"
50.
51. * Proportions
52. foreach var of local y_ds_cnts {
53. gen `var'_pr = `var' / discharges
54.
```

```stata
55. * Generate log outcomes for counts
56. gen `var'_lg = log(`var' + 1)
57. }
58. qui ds discharges*_lg
59. local y_ds_logs `r(varlist)'
60. qui ds discharges*_pr
61. local y_ds_props `r(varlist)'
62.
63. * Service utilizations
64. * Totals
65. local y_util_totals "u_ed u_mhsa u_newbn u_cath u_nucmed u_observation u_organacq u_
  > othimplants u_radtherapy"
66.
67. local y_util_cnts
68. foreach var of local y_util_totals {
69. forvalues i=1/5 {
70. * Counts
71. local y_util_cnts "`y_util_cnts' `var'`i'"
72.
73. * Proportions
74. gen `var'`i'_pr = `var'`i' / `var'
75.
76. * Generate log outcomes for counts
77. gen `var'`i'_lg = log(`var'`i' + 1)
78. }
79. }
80. qui ds u_*_lg
81. local y_util_logs `r(varlist)'
82. qui ds u_*_pr
83. local y_util_props `r(varlist)'
84.
85. ********************************************
86. * Bin average county system HHI into terciles
87. _pctile avg_hhisys_cnty if year == 2006, nquantiles(3)
88. local q1 = `r(r1)'
89. local q2 = `r(r2)'
90.
91. assert avg_hhisys_cnty != .
92. gen avg_hhisys_cnty_T = 1 if avg_hhisys_cnty <= `q1'
93. replace avg_hhisys_cnty_T = 2 if avg_hhisys_cnty > `q1' & avg_hhisys_cnty <= `q2'
94. replace avg_hhisys_cnty_T = 3 if avg_hhisys_cnty > `q2'
95. assert avg_hhisys_cnty_T != .
96. label var avg_hhisys_cnty_T "Cnty avg. HHI sys tercile"
97.
98. noisily di ""

99. noisily di in red "* * * avg_hhisys_cnty terciles for 2006 * * "
  * * * avg_hhisys_cnty terciles for 2006 * *
100 noisily di ""

101 noisily di in red "... Tercile 1: " %6.3f `q1'
  ... Tercile 1:  0.249
102 noisily di in red "... Tercile 2: " %6.3f `q2'
  ... Tercile 2:  0.436
103 noisily di ""

104
105 * Save data in dump for scp to local
106 * save "dump/hhi_ny_sid_supp_hosp.dta", replace
107
```

```
108
109 *********************************************
110 * Run models
111 *********************************************
112 encode `panelvar', gen(`panelvar_id')
113 xtset `panelvar_id' year, yearly
114
115 *********************************************
116 * Discharge models
117 noisily di in red "* * * DISCHARGES * * *"
 * * * DISCHARGES * * *
118 *********************************************
119 * Discharge log counts
120 local models
121 local i 1
122 foreach yvar of local y_ds_logs {
123 local model "m_`yvar'"
124 local models `models' `model'
125 local title: word `i' of `pay_labels'
126 local ++i
127
128 qui xtreg `yvar' `xvars', fe vce(cluster `cluster_var')
129 estimates store `model', title(`title')
130 }
131 noisily estout `models', title(Discharges (log counts)) cells(b(star fmt(2)) se(par
  > fmt(2))) legend label varlabels(_cons Constant)
```

Discharges (log counts)
_____
                     _____

                          Medicare   Medicaid   PrivIns   SelfPay
  >   NoCharge
                            b/se   b/se   b/se   b/se
  >   b/se
_____
                     _____
post_anytarget=0   0.00   0.00   0.00   0.00
  >   0.00
                           (.)   (.)   (.)   (.)
  >   (.)
post_anytarget=1   0.02   0.09   0.07   0.05
  >   0.03
                          (0.03)   (0.09)   (0.06)   (0.09)
  >   (0.39)
year=2006   0.00   0.00   0.00   0.00
  >   0.00
                           (.)   (.)   (.)   (.)
  >   (.)
year=2007   -0.04*   -0.04   0.02   0.06
  >   0.29
                          (0.02)   (0.03)   (0.02)   (0.04)
  >   (0.32)
year=2008   -0.02   -0.00   -0.03   0.01
  >   -0.10
                          (0.02)   (0.04)   (0.03)   (0.06)
  >   (0.50)
year=2009   -0.04   0.04   -0.05   -0.07
  >   0.50
                          (0.03)   (0.04)   (0.03)   (0.06)
  >   (0.34)
year=2010   -0.11*   0.00   -0.17***   -0.17*
  >   -0.09
                          (0.05)   (0.05)   (0.04)   (0.08)
  >   (0.74)
year=2011   -0.08   0.05   -0.15**   -0.25**
  >   -0.18
                          (0.04)   (0.05)   (0.05)   (0.09)
  >   (0.93)
year=2012   -0.11**   -0.00   -0.19***   -0.26**
  >   0.41
                          (0.04)   (0.05)   (0.05)   (0.08)
  >   (0.67)
```

| | | | | |
|---|---|---|---|---|
| Constant | 7.89*** | 6.85*** | 7.48*** | 5.43*** |
| >       2.71*** | | | | |
| | (0.02) | (0.03) | (0.03) | (0.05) |
| >       (0.46) | | | | |

_____

_____

* p<0.05, ** p<0.01, *** p<0.001

```
132
133 ******************************************
134 * Discharge proportions
135 local models
136 local i 1
137 foreach yvar of local y_ds_props {
138 local model "m_`yvar'"
139 local models `models' `model'
140 local title: word `i' of `pay_labels'
141 local ++i
142
143 qui xtreg `yvar' `xvars', fe vce(cluster `panelvar_id')
144 estimates store `model', title(`title')
145 }
146 * Output model estimates
147 noisily estout `models', title(Discharges (proportions)) cells(b(star fmt(2)) se(par
  >  fmt(2))) legend label varlabels(_cons Constant)
```

Discharges (proportions)
_____

_____

	Medicare	Medicaid	PrivIns	SelfPay
> NoCharge	b/se	b/se	b/se	b/se
> b/se				

_____

post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.01	0.00	0.01	-0.00
> 0.00				
	(0.01)	(0.01)	(0.01)	(0.01)
> (0.00)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.01*	-0.00	0.01*	0.01
> 0.00				
	(0.00)	(0.00)	(0.00)	(0.00)
> (0.00)				
year=2008	-0.00	0.00	-0.00	0.00
> -0.00				
	(0.00)	(0.00)	(0.01)	(0.00)
> (0.00)				
year=2009	-0.01	0.01*	-0.01	-0.00
> 0.00				
	(0.01)	(0.00)	(0.01)	(0.00)
> (0.00)				
year=2010	-0.00	0.01*	-0.02*	-0.00
> -0.00				
	(0.01)	(0.01)	(0.01)	(0.00)
> (0.00)				
year=2011	0.00	0.03***	-0.02**	-0.01**
> -0.00				
	(0.01)	(0.01)	(0.01)	(0.01)
> (0.00)				
year=2012	0.01	0.02***	-0.03**	-0.02**
> 0.00				
	(0.01)	(0.01)	(0.01)	(0.01)
> (0.00)				
Constant	0.43***	0.18***	0.31***	0.05***
> 0.01***				

```
                                 (0.00)        (0.00)        (0.00)        (0.00)
  >      (0.00)
```
_____
_____
 * p<0.05, ** p<0.01, *** p<0.001
```
148
149
150 *********************************************
151 * Service utilization models
152 *********************************************
153 noisily di in red "* * * SERVICE UTILIZATIONS * * *"
 * * * SERVICE UTILIZATIONS * * *
154 *********************************************
155 * Utilization log counts
156 local i 1
157 foreach yvar of local y_util_logs {
158 local model "m_`yvar'"
159 local title: word `i' of `pay_labels'
160 if `i'==5 {
161 local i 1
162 }
163 else {
164 local ++i
165 }
166
167 qui xtreg `yvar' `xvars', fe vce(cluster `panelvar_id')
168 estimates store `model', title(`title')
169 }
170 * Output model estimates
171 * Medicaid services
172 noisily di in red ". . . Medicaid services . . ."
173 . . Medicaid services . . .
174 local i 1
175 foreach util of local util_medicaid {
176 local models
177 forvalues p=1/5 {
178 local models `models' m_`util'`p'_lg
179 }
180 local title: word `i' of `util_medicaid_labels'
181 local ++i
182
183 noisily estout `models', title(Medicaid Service Util: `title' (log counts)) cells(b(
 > star fmt(2)) se(par fmt(2))) legend label varlabels(_cons Constant)
184 }
```

  Medicaid Service Util: Emergency Department (log counts)
_____

	Medicare	Medicaid	PrivIns	SelfPay
_____				
> NoCharge				
	b/se	b/se	b/se	b/se
> b/se				
_____
_____				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.23*	-0.09	-0.11	-0.07
> 0.07				
	(0.11)	(0.10)	(0.10)	(0.10)
> (0.37)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.04	0.03	0.06	0.08
> 0.60				
	(0.05)	(0.04)	(0.03)	(0.05)
> (0.35)				
year=2008	-0.00	0.10	0.06	0.06
> -0.03				

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	Medicare	Medicaid	PrivIns	SelfPay	NoCharge
	(0.09)	(0.09)	(0.09)	(0.10)	(0.63)
year=2009	-0.04	0.14	0.02	-0.02	0.82
	(0.12)	(0.11)	(0.12)	(0.12)	(0.45)
year=2010	-0.03	0.16	-0.04	-0.09	0.12
	(0.14)	(0.13)	(0.14)	(0.13)	(0.80)
year=2011	0.07	0.29*	0.06	-0.11	-0.06
	(0.11)	(0.12)	(0.12)	(0.12)	(0.95)
year=2012	0.14	0.29**	0.07	-0.10	0.70
	(0.10)	(0.11)	(0.11)	(0.12)	(0.72)
Constant	7.30***	5.86***	6.55***	4.84***	2.06***
	(0.07)	(0.07)	(0.07)	(0.08)	(0.52)

* p<0.05, ** p<0.01, *** p<0.001

Medicaid Service Util: Mental Health/Substance Abuse (log counts)

	Medicare	Medicaid	PrivIns	SelfPay	NoCharge
	b/se	b/se	b/se	b/se	b/se
post_anytarget=0	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
post_anytarget=1	0.12	0.03	0.04	-0.01	-0.27
	(0.10)	(0.13)	(0.13)	(0.12)	(0.22)
year=2006	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
year=2007	-0.00	-0.01	-0.01	0.02	0.08
	(0.04)	(0.04)	(0.04)	(0.06)	(0.36)
year=2008	0.02	-0.02	0.08	0.00	0.18
	(0.05)	(0.05)	(0.05)	(0.07)	(0.23)
year=2009	0.01	0.06	0.07	-0.04	0.42
	(0.06)	(0.06)	(0.06)	(0.08)	(0.25)
year=2010	-0.01	0.09	-0.00	-0.10	0.34
	(0.06)	(0.07)	(0.07)	(0.09)	(0.40)
year=2011	-0.05	0.06	0.03	-0.17	0.22
	(0.06)	(0.07)	(0.07)	(0.09)	(0.43)
year=2012	-0.09	0.05	-0.03	-0.27*	0.32
	(0.08)	(0.08)	(0.09)	(0.11)	(0.41)
Constant	3.63***	3.96***	3.54***	2.91***	

	NoCharge b/se	Medicare b/se	Medicaid b/se	PrivIns b/se	SelfPay b/se
> 0.74*		(0.04)	(0.04)	(0.04)	(0.06)
> (0.27)					

* p<0.05, ** p<0.01, *** p<0.001

Medicaid Service Util: Newborn (log counts)

	NoCharge b/se	Medicare b/se	Medicaid b/se	PrivIns b/se	SelfPay b/se
post_anytarget=0	0.00 (.)	0.00 (.)	0.00 (.)	0.00 (.)	0.00 (.)
post_anytarget=1	0.07 (0.20)	-0.05 (0.08)	0.15 (0.16)	0.18 (0.19)	-0.08 (0.14)
year=2006	0.00 (.)	0.00 (.)	0.00 (.)	0.00 (.)	0.00 (.)
year=2007	0.44 (0.28)	0.01 (0.02)	-0.05 (0.03)	-0.04 (0.02)	0.05 (0.04)
year=2008	0.36 (0.25)	-0.01 (0.03)	0.00 (0.06)	-0.02 (0.07)	0.08 (0.05)
year=2009	0.44 (0.27)	0.01 (0.04)	0.05 (0.06)	0.00 (0.06)	0.09 (0.05)
year=2010	0.30 (0.32)	-0.04 (0.03)	0.08 (0.06)	0.03 (0.06)	0.09 (0.07)
year=2011	0.31 (0.32)	-0.06 (0.04)	0.10 (0.08)	-0.00 (0.10)	-0.01 (0.08)
year=2012	0.12 (0.11)	-0.06 (0.04)	0.11 (0.10)	0.01 (0.11)	-0.05 (0.09)
Constant	-0.12 (0.20)	0.07* (0.03)	1.72*** (0.05)	1.75*** (0.06)	0.79*** (0.04)

* p<0.05, ** p<0.01, *** p<0.001
185 * Private insurance services

```
186 noisily di in red ". . . Private insurance services . . ."
187 . . Private insurance services . . .
188 local i 1
189 foreach util of local util_privins {
190 local models
191 forvalues p=1/5 {
192 local models `models' m_`util'`p'_lg
193 }
194 local title: word `i' of `util_privins_labels'
195 local ++i
196
197 noisily estout `models', title(Private Insurance Service Util: `title' (log counts))
  >  cell(b(star fmt(2)) se(par fmt(2)))  legend label varlabels(_cons Constant)
198 }
```

Private Insurance Service Util: Cardiac Cath. Lab (log counts)
_____

| > NoCharge | Medicare | Medicaid | PrivIns | SelfPay |
| | b/se | b/se | b/se | b/se |
> b/se				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.17*	0.01	-0.08	-0.05
> -0.11	(0.07)	(0.06)	(0.07)	(0.08)
> (0.17)				
year=2006	0.00	0.00	0.00	0.00
> 0.00	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.00	0.01	0.00	0.03
> 0.26	(0.04)	(0.04)	(0.04)	(0.04)
> (0.16)				
year=2008	0.02	0.07	0.05	0.03
> 0.26	(0.07)	(0.05)	(0.05)	(0.04)
> (0.16)				
year=2009	0.04	0.08	0.02	0.06
> 0.20	(0.07)	(0.04)	(0.06)	(0.04)
> (0.20)				
year=2010	0.02	0.07	0.02	0.02
> 0.33	(0.09)	(0.06)	(0.08)	(0.06)
> (0.34)				
year=2011	-0.05	0.01	-0.12	0.01
> 0.31	(0.10)	(0.07)	(0.09)	(0.06)
> (0.32)				
year=2012	-0.01	0.01	-0.07	-0.05
> 0.34	(0.09)	(0.06)	(0.08)	(0.07)
> (0.36)				
Constant	2.23***	1.51***	1.96***	1.14***
> 0.13	(0.06)	(0.04)	(0.05)	(0.03)
> (0.20)				

_____

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Nuclear Medicine (log counts)
_____

_____	Medicare	Medicaid	PrivIns	SelfPay
> NoCharge	b/se	b/se	b/se	b/se
> b/se				
_____

_____				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.02	0.07	-0.05	-0.05
> -0.04				
	(0.05)	(0.07)	(0.06)	(0.07)
> (0.27)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.05*	-0.04	-0.00	-0.01
> -0.11				
	(0.02)	(0.05)	(0.04)	(0.06)
> (0.16)				
year=2008	-0.09***	-0.01	-0.07	-0.02
> -0.38				
	(0.03)	(0.05)	(0.04)	(0.07)
> (0.46)				
year=2009	-0.16***	-0.03	-0.13*	-0.09
> 0.22				
	(0.04)	(0.05)	(0.06)	(0.08)
> (0.25)				
year=2010	-0.23***	-0.07	-0.29***	-0.22**
> -0.23				
	(0.05)	(0.06)	(0.07)	(0.08)
> (0.41)				
year=2011	-0.24***	-0.10	-0.26***	-0.25**
> -0.31				
	(0.04)	(0.06)	(0.05)	(0.08)
> (0.50)				
year=2012	-0.31***	-0.16*	-0.35***	-0.31***
> -0.29				
	(0.04)	(0.07)	(0.06)	(0.09)
> (0.39)				
Constant	4.83***	3.21***	4.03***	2.26***
> 0.85**				
	(0.03)	(0.04)	(0.04)	(0.05)
> (0.29)				
_____

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Observation (log counts)
_____

_____	Medicare	Medicaid	PrivIns	SelfPay
> NoCharge	b/se	b/se	b/se	b/se
> b/se				
_____

_____				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.38*	-0.09	0.15	0.06
> -0.27				
	(0.18)	(0.16)	(0.18)	(0.10)
> (0.25)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				

	Medicare	Medicaid	PrivIns	SelfPay	NoCharge
	(.)	(.)	(.)	(.)	(.)
year=2007	0.02	0.02	0.07	0.05	0.15
	(0.08)	(0.09)	(0.09)	(0.05)	(0.15)
year=2008	0.27*	0.26*	0.23	0.15	0.29
	(0.10)	(0.12)	(0.12)	(0.09)	(0.27)
year=2009	0.34**	0.29*	0.33*	0.11	0.20
	(0.12)	(0.13)	(0.13)	(0.09)	(0.18)
year=2010	0.73***	0.53**	0.55***	0.15	0.49
	(0.16)	(0.16)	(0.16)	(0.11)	(0.46)
year=2011	1.14***	0.61***	0.67***	0.34**	0.48
	(0.17)	(0.16)	(0.16)	(0.12)	(0.44)
year=2012	1.57***	0.82***	0.88***	0.38**	0.56
	(0.20)	(0.16)	(0.18)	(0.13)	(0.51)
Constant	0.81***	0.61***	0.85***	0.29***	-0.09
	(0.09)	(0.10)	(0.10)	(0.07)	(0.27)

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Organ Acquisition (log counts)

	Medicare	Medicaid	PrivIns	SelfPay	NoCharge
	b/se	b/se	b/se	b/se	b/se
post_anytarget=0	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
post_anytarget=1	0.06	0.01	0.01	0.04	0.00
	(0.06)	(0.03)	(0.02)	(0.03)	(.)
year=2006	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
year=2007	0.00	0.01	0.01	-0.02	0.00
	(0.01)	(0.01)	(0.01)	(0.02)	(.)
year=2008	-0.02	-0.00	-0.01	-0.04*	0.00
	(0.02)	(0.01)	(0.02)	(0.02)	(.)
year=2009	-0.02	-0.00	-0.02	-0.03	0.00
	(0.01)	(0.01)	(0.02)	(0.02)	(.)
year=2010	-0.03	0.00	-0.02	-0.01	0.00
	(0.02)	(0.02)	(0.02)	(0.02)	(.)
year=2011	-0.02	0.01	-0.01	-0.03	

>	0.00				
		(0.02)	(0.02)	(0.02)	(0.02)
>	(.)				
year=2012		-0.04	-0.02	-0.04	-0.01
>	0.00				
		(0.04)	(0.03)	(0.03)	(0.02)
>	(.)				
Constant		0.31***	0.22***	0.30***	0.04**
>	0.00				
		(0.01)	(0.01)	(0.01)	(0.01)
>	(.)				

_____
_____

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Other implants (log counts)
_____

		Medicare	Medicaid	PrivIns	SelfPay
	_____				
>	NoCharge	b/se	b/se	b/se	b/se
>	b/se				
	_____				
post_anytarget=0		0.00	0.00	0.00	0.00
>	0.00				
		(.)	(.)	(.)	(.)
>	(.)				
post_anytarget=1		-0.31**	-0.14	-0.25*	-0.09
>	0.27				
		(0.12)	(0.11)	(0.11)	(0.11)
>	(0.37)				
year=2006		0.00	0.00	0.00	0.00
>	0.00				
		(.)	(.)	(.)	(.)
>	(.)				
year=2007		0.01	0.08	0.06	0.06
>	0.04				
		(0.06)	(0.06)	(0.06)	(0.05)
>	(0.24)				
year=2008		0.08	0.23**	0.11	0.13*
>	-0.08				
		(0.09)	(0.07)	(0.09)	(0.06)
>	(0.35)				
year=2009		0.22	0.34***	0.21	0.12
>	0.28				
		(0.12)	(0.09)	(0.12)	(0.08)
>	(0.32)				
year=2010		0.37*	0.56***	0.33*	0.16
>	-0.07				
		(0.16)	(0.13)	(0.16)	(0.12)
>	(0.61)				
year=2011		0.42**	0.65***	0.37*	0.19
>	-0.07				
		(0.15)	(0.12)	(0.15)	(0.11)
>	(0.62)				
year=2012		0.46**	0.67***	0.38*	0.24
>	0.37				
		(0.15)	(0.13)	(0.15)	(0.12)
>	(0.56)				
Constant		4.44***	2.72***	4.11***	1.98***
>	0.66				
		(0.08)	(0.07)	(0.09)	(0.06)
>	(0.35)				

_____
_____

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Radiology/Chemotherapy (log counts)

	Medicare b/se	Medicaid b/se	PrivIns b/se	SelfPay b/se	NoCharge b/se
post_anytarget=0	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
post_anytarget=1	0.06	0.08	0.10	-0.05	-0.09
	(0.11)	(0.13)	(0.11)	(0.09)	(0.15)
year=2006	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
year=2007	-0.11*	-0.05	-0.09	-0.03	0.34
	(0.05)	(0.05)	(0.05)	(0.07)	(0.21)
year=2008	-0.09	0.07	-0.11*	0.01	0.03
	(0.05)	(0.06)	(0.05)	(0.06)	(0.05)
year=2009	-0.11*	-0.06	-0.20**	-0.03	0.02
	(0.05)	(0.05)	(0.07)	(0.06)	(0.05)
year=2010	-0.19*	-0.05	-0.23**	-0.07	0.14
	(0.07)	(0.06)	(0.08)	(0.07)	(0.17)
year=2011	-0.19*	-0.10	-0.22**	-0.09	0.32
	(0.07)	(0.06)	(0.08)	(0.08)	(0.33)
year=2012	-0.27**	-0.20**	-0.41***	-0.12	0.08
	(0.08)	(0.07)	(0.08)	(0.08)	(0.10)
Constant	2.57***	1.57***	2.15***	0.62***	-0.03
	(0.04)	(0.04)	(0.05)	(0.05)	(0.10)

* p<0.05, ** p<0.01, *** p<0.001

```
199
200 *******************************************
201 * Utiliztion proportions
202 local i 1
203 foreach yvar of local y_util_props {
204 local model "m_`yvar'"
205 local title: word `i' of `pay_labels'
206 if `i'==5 {
```

```
207 local i 1
208 }
209 else {
210 local ++i
211 }
212
213 qui xtreg `yvar' `xvars', fe vce(cluster `panelvar_id')
214 estimates store `model', title(`title')
215 }
216 * Output model estimates
217 * Medicaid services
218 noisily di in red ". . . Medicaid services . . ."
219 . . Medicaid services . . .
220 local i 1
221 foreach util of local util_medicaid {
222 local models
223 forvalues p=1/5 {
224 local models `models' m_`util'`p'_pr
225 }
226 local title: word `i' of `util_medicaid_labels'
227 local ++i
228
229 noisily estout `models', title(Medicaid Service Util: `title' (proportions)) cells(b
  > (star fmt(2)) se(par fmt(2))) legend label varlabels(_cons Constant)
230 }
```

Medicaid Service Util: Emergency Department (proportions)
_____

		Medicare	Medicaid	PrivIns	SelfPay
> NoCharge		b/se	b/se	b/se	b/se
> b/se					
post_anytarget=0		0.00	0.00	0.00	0.00
> 0.00					
> (.)		(.)	(.)	(.)	(.)
post_anytarget=1		-0.02	0.01	0.01	-0.00
> 0.00					
> (0.00)		(0.02)	(0.01)	(0.01)	(0.01)
year=2006		0.00	0.00	0.00	0.00
> 0.00					
> (.)		(.)	(.)	(.)	(.)
year=2007		-0.01*	-0.00	0.01	0.01
> 0.00					
> (0.00)		(0.01)	(0.00)	(0.01)	(0.00)
year=2008		-0.01	0.00	0.00	0.00
> -0.00					
> (0.00)		(0.01)	(0.00)	(0.01)	(0.00)
year=2009		-0.01	0.01*	-0.00	-0.00
> 0.00					
> (0.00)		(0.01)	(0.00)	(0.01)	(0.00)
year=2010		-0.01	0.01	-0.00	-0.00
> -0.00					
> (0.01)		(0.01)	(0.01)	(0.01)	(0.00)
year=2011		-0.00	0.03***	-0.01	-0.02***
> -0.00					
> (0.00)		(0.01)	(0.01)	(0.01)	(0.00)
year=2012		0.00	0.02***	-0.02*	-0.02**
> 0.01					
> (0.01)		(0.01)	(0.01)	(0.01)	(0.01)
Constant		0.52***	0.15***	0.26***	0.06***

>	0.01**				
		(0.01)	(0.00)	(0.01)	(0.00)
>	(0.00)				

* p<0.05, ** p<0.01, *** p<0.001

Medicaid Service Util: Mental Health/Substance Abuse (proportions)

		Medicare	Medicaid	PrivIns	SelfPay
>	NoCharge				
		b/se	b/se	b/se	b/se
>	b/se				

		Medicare	Medicaid	PrivIns	SelfPay
post_anytarget=0		0.00	0.00	0.00	0.00
>	0.00				
		(.)	(.)	(.)	(.)
>	(.)				
post_anytarget=1		-0.01	-0.01	0.02	0.01
>	-0.00				
		(0.01)	(0.02)	(0.02)	(0.01)
>	(0.00)				
year=2006		0.00	0.00	0.00	0.00
>	0.00				
		(.)	(.)	(.)	(.)
>	(.)				
year=2007		0.01	0.02	-0.02	-0.01
>	-0.01				
		(0.02)	(0.02)	(0.02)	(0.02)
>	(0.01)				
year=2008		0.00	0.00	0.02	-0.02
>	-0.01				
		(0.02)	(0.02)	(0.02)	(0.02)
>	(0.01)				
year=2009		-0.01	0.03	0.02	-0.03
>	0.00				
		(0.01)	(0.02)	(0.02)	(0.02)
>	(0.01)				
year=2010		-0.00	0.05**	0.00	-0.04*
>	-0.00				
		(0.02)	(0.02)	(0.02)	(0.02)
>	(0.01)				
year=2011		0.01	0.03	0.00	-0.04*
>	-0.00				
		(0.02)	(0.02)	(0.02)	(0.02)
>	(0.01)				
year=2012		-0.01	0.06**	-0.01	-0.05**
>	-0.00				
		(0.02)	(0.02)	(0.02)	(0.02)
>	(0.01)				
Constant		0.25***	0.36***	0.24***	0.12***
>	0.01				
		(0.01)	(0.01)	(0.01)	(0.01)
>	(0.01)				

* p<0.05, ** p<0.01, *** p<0.001

Medicaid Service Util: Newborn (proportions)

		Medicare	Medicaid	PrivIns	SelfPay
>	NoCharge				
		b/se	b/se	b/se	b/se
>	b/se				

		Medicare	Medicaid	PrivIns	SelfPay
post_anytarget=0		0.00	0.00	0.00	0.00
>	0.00				
		(.)	(.)	(.)	(.)

	Medicare	Medicaid	PrivIns	SelfPay
> (.)				
post_anytarget=1	-0.00	0.05	-0.01	-0.03
> 0.00				
	(0.01)	(0.04)	(0.03)	(0.04)
> (0.00)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.00	-0.01	0.00	0.01*
> 0.00				
	(0.00)	(0.01)	(0.02)	(0.01)
> (0.00)				
year=2008	-0.01	0.03	-0.04**	0.02
> 0.00				
	(0.01)	(0.02)	(0.01)	(0.01)
> (0.00)				
year=2009	-0.01	0.02	-0.03*	0.02*
> 0.00				
	(0.01)	(0.02)	(0.01)	(0.01)
> (0.00)				
year=2010	-0.01	0.02	-0.03	0.03
> 0.00				
	(0.01)	(0.02)	(0.02)	(0.02)
> (0.00)				
year=2011	-0.01	0.06*	-0.03	-0.03
> 0.00				
	(0.01)	(0.03)	(0.04)	(0.02)
> (0.00)				
year=2012	-0.01	0.06	-0.04	-0.02
> 0.00				
	(0.01)	(0.03)	(0.03)	(0.03)
> (0.00)				
Constant	0.01	0.39***	0.49***	0.07***
> -0.00				
	(0.00)	(0.01)	(0.01)	(0.01)
> (0.00)				

```
 * p<0.05, ** p<0.01, *** p<0.001
231 * Private insurance services
232 noisily di in red ". . . Private insurance services . . ."
233 . . Private insurance services . . .
234 local i 1
235 foreach util of local util_privins {
236 local models
237 forvalues p=1/5 {
238 local models `models' m_`util'`p'_pr
239 }
240 local title: word `i' of `util_privins_labels'
241 local ++i
242
243 noisily estout `models', title(Private Insurance Service Util: `title' (proportions)
  > ) cell(b(star fmt(2)) se(par fmt(2)))  legend label varlabels(_cons Constant)
244 }
```

Private Insurance Service Util: Cardiac Cath. Lab (proportions)

	Medicare	Medicaid	PrivIns	SelfPay
> NoCharge				
	b/se	b/se	b/se	b/se
> b/se				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.12**	0.03	0.03	0.01
> -0.00				
	(0.04)	(0.02)	(0.02)	(0.01)

> (0.00)				
year=2006	0.00	0.00	0.00	0.00
> 0.00	(.)	(.)	(.)	(.)
> (.)				
year=2007	0.00	-0.02	0.00	0.01
> 0.00***	(0.03)	(0.03)	(0.03)	(0.01)
> (0.00)				
year=2008	-0.03	-0.01	0.02	0.01
> 0.00***	(0.04)	(0.02)	(0.03)	(0.01)
> (0.00)				
year=2009	0.01	-0.01	-0.04	0.02*
> 0.00	(0.04)	(0.02)	(0.03)	(0.01)
> (0.00)				
year=2010	0.02	-0.01	-0.02	0.01
> 0.00	(0.03)	(0.02)	(0.03)	(0.01)
> (0.00)				
year=2011	0.10**	-0.02	-0.08**	0.01
> 0.00	(0.03)	(0.02)	(0.03)	(0.01)
> (0.00)				
year=2012	0.04	-0.02	-0.05	0.01
> 0.00	(0.03)	(0.02)	(0.02)	(0.01)
> (0.00)				
Constant	0.52***	0.13***	0.29***	0.03***
> 0.00	(0.03)	(0.02)	(0.02)	(0.01)
> (0.00)				

_____

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Nuclear Medicine (proportions)
_____

_____

	Medicare	Medicaid	PrivIns	SelfPay
> NoCharge	b/se	b/se	b/se	b/se
> b/se				

_____

post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	0.01	0.01	-0.02	-0.00
> -0.00	(0.02)	(0.01)	(0.01)	(0.01)
> (0.00)				
year=2006	0.00	0.00	0.00	0.00
> 0.00	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.01	-0.00	0.01	0.00
> -0.00	(0.01)	(0.00)	(0.01)	(0.00)
> (0.00)				
year=2008	-0.01	0.01	0.00	0.00
> -0.00	(0.01)	(0.00)	(0.01)	(0.00)
> (0.00)				
year=2009	-0.02	0.01*	0.00	0.00
> 0.00	(0.01)	(0.00)	(0.01)	(0.00)
> (0.00)				
year=2010	-0.00	0.01*	-0.01	-0.00
> -0.00				

	Medicare b/se	Medicaid b/se	PrivIns b/se	SelfPay b/se	NoCharge b/se
	(0.01)	(0.00)	(0.01)	(0.00)	(0.00)
year=2011	-0.00	0.02**	-0.00	-0.01*	-0.00
	(0.01)	(0.01)	(0.01)	(0.00)	(0.00)
year=2012	-0.00	0.02**	-0.01	-0.01*	-0.00
	(0.01)	(0.01)	(0.01)	(0.01)	(0.00)
Constant	0.57***	0.11***	0.25***	0.04***	0.01*
	(0.01)	(0.00)	(0.01)	(0.00)	(0.00)

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Observation (proportions)

	Medicare b/se	Medicaid b/se	PrivIns b/se	SelfPay b/se	NoCharge b/se
post_anytarget=0	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
post_anytarget=1	-0.10	0.01	0.12**	-0.01	-0.01*
	(0.06)	(0.04)	(0.04)	(0.07)	(0.00)
year=2006	0.00	0.00	0.00	0.00	0.00
	(.)	(.)	(.)	(.)	(.)
year=2007	-0.07	0.00	0.06	0.01	-0.01
	(0.04)	(0.02)	(0.04)	(0.01)	(0.00)
year=2008	-0.02	0.02	-0.01	0.00	-0.01
	(0.04)	(0.02)	(0.05)	(0.02)	(0.01)
year=2009	-0.04	0.04	0.04	-0.02	-0.01*
	(0.05)	(0.03)	(0.05)	(0.02)	(0.00)
year=2010	0.01	0.02	-0.02	-0.02	-0.01
	(0.05)	(0.03)	(0.05)	(0.02)	(0.01)
year=2011	0.10	0.00	-0.08	-0.02	-0.01
	(0.06)	(0.03)	(0.06)	(0.02)	(0.01)
year=2012	0.13*	-0.02	-0.09	-0.03	0.00
	(0.06)	(0.03)	(0.06)	(0.02)	(.)
Constant	0.42***	0.15***	0.34***	0.06***	0.02**
	(0.04)	(0.02)	(0.04)	(0.01)	(0.00)

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Organ Acquisition (proportions)
_____

| _____ | Medicare | Medicaid | PrivIns | SelfPay |
| >   NoCharge | b/se | b/se | b/se | b/se |
> b/se				
_____				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	0.06	0.02	-0.06	0.00
> 0.00				
	(0.06)	(0.03)	(0.06)	(0.00)
> (.)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
year=2007	-0.05	0.03	0.03	-0.01
> 0.00				
	(0.03)	(0.01)	(0.03)	(0.01)
> (.)				
year=2008	-0.05	0.03*	0.03	-0.01
> 0.00				
	(0.07)	(0.01)	(0.08)	(0.01)
> (.)				
year=2009	0.04	0.01	-0.03	-0.01
> 0.00				
	(0.09)	(0.01)	(0.08)	(0.01)
> (.)				
year=2010	-0.03	0.03	-0.00	-0.01
> 0.00				
	(0.05)	(0.02)	(0.05)	(0.01)
> (.)				
year=2011	-0.06	0.03	0.01	-0.02
> 0.00				
	(0.04)	(0.02)	(0.05)	(0.01)
> (.)				
year=2012	-0.02	0.01	0.00	-0.01
>				
	(0.04)	(0.03)	(0.05)	(0.01)
>				
Constant	0.46***	0.13***	0.37***	0.01
> 0.00				
	(0.05)	(0.01)	(0.06)	(0.01)
> (.)				

_____
_____
* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Other implants (proportions)
_____

| _____ | Medicare | Medicaid | PrivIns | SelfPay |
| >   NoCharge | b/se | b/se | b/se | b/se |
> b/se				
_____				
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00				
	(.)	(.)	(.)	(.)
> (.)				
post_anytarget=1	-0.02	0.01	0.01	0.00
> 0.00				
	(0.02)	(0.01)	(0.02)	(0.00)
> (0.00)				
year=2006	0.00	0.00	0.00	0.00
> 0.00				

	(.)	(.)	(.)	(.)
> (.)
year=2007	-0.02	-0.00	0.03	-0.00
> -0.00
	(0.02)	(0.01)	(0.02)	(0.00)
> (0.00)
year=2008	-0.01	-0.00	0.01	-0.00
> -0.00
	(0.02)	(0.01)	(0.02)	(0.00)
> (0.00)
year=2009	-0.01	0.01	0.00	-0.00
> 0.00
	(0.02)	(0.01)	(0.02)	(0.00)
> (0.00)
year=2010	-0.01	0.01*	-0.01	-0.00
> -0.01
	(0.02)	(0.01)	(0.02)	(0.01)
> (0.00)
year=2011	-0.00	0.02***	-0.02	-0.00
> -0.01
	(0.02)	(0.01)	(0.01)	(0.01)
> (0.01)
year=2012	-0.01	0.02***	-0.02	-0.01
> 0.02
	(0.02)	(0.01)	(0.01)	(0.01)
> (0.02)
Constant	0.51***	0.08***	0.34***	0.03***
> 0.01*
	(0.01)	(0.00)	(0.01)	(0.00)
> (0.00)

_____

* p<0.05, ** p<0.01, *** p<0.001

Private Insurance Service Util: Radiology/Chemotherapy (proportions)
_____

	Medicare	Medicaid	PrivIns	SelfPay
> NoCharge
	b/se	b/se	b/se	b/se
> b/se
_____
post_anytarget=0	0.00	0.00	0.00	0.00
> 0.00
	(.)	(.)	(.)	(.)
> (.)
post_anytarget=1	0.00	-0.01	-0.00	0.01
> -0.00
	(0.03)	(0.02)	(0.02)	(0.01)
> (0.00)
year=2006	0.00	0.00	0.00	0.00
> 0.00
	(.)	(.)	(.)	(.)
> (.)
year=2007	0.02	-0.00	0.00	-0.00
> 0.00
	(0.03)	(0.02)	(0.02)	(0.01)
> (0.00)
year=2008	0.01	0.00	-0.00	0.00
> 0.00
	(0.02)	(0.02)	(0.02)	(0.01)
> (0.00)
year=2009	0.02	-0.01	-0.02	0.02
> 0.00
	(0.03)	(0.02)	(0.03)	(0.01)
> (0.00)
year=2010	0.01	-0.02	-0.01	0.00
> 0.00
	(0.03)	(0.02)	(0.03)	(0.01)
> (0.00)
year=2011	0.02	-0.02	0.00	0.00

```
>        0.01
                              (0.03)          (0.02)          (0.03)          (0.01)
>       (0.01)
year=2012                      0.06           -0.03           -0.02           -0.01
>        0.00
                              (0.03)          (0.02)          (0.02)          (0.01)
>       (0.00)
Constant                       0.50***         0.16***         0.28***         0.02***
>       -0.00
                              (0.02)          (0.01)          (0.02)          (0.00)
>       (0.00)
```
──
_____
```
 * p<0.05, ** p<0.01, *** p<0.001
245 *******************************************
246 * end quietly block
247 }

248
249
250 *******************************************

251 * Log close

252 log close
        name:  <unnamed>
         log:  /gpfs/scratch/azc211/ny_mergers/logs/fe_util_hhi_20190314.smcl
    log type:  smcl
   closed on:  14 Mar 2019, 12:34:36
```
──