

TWFE Sensitivity — Raw Console Summaries

Joe White

November 03, 2025

SCENARIO: pre_pandemic_2017_2019

SAMPLE: with_anticipation

[info] rows=256,622 | CCNs=7665

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 256,622

Fixed-effects: cms_certification_number: 7,665, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.026325	0.005731	-4.593	0.00005446048450 ***
government	0.008672	0.008706	0.996	0.32605797637793
non_profit	-0.003100	0.009292	-0.334	0.74067153345991
chain	0.015920	0.004201	3.790	0.00057101422752 ***
beds	-0.000665	0.000190	-3.498	0.00129652801477 **
occupancy_rate	-0.002574	0.000300	-8.575	0.00000000040214 ***
pct_medicare	0.001153	0.000496	2.323	0.02609967078567 *
pct_medicaid	0.000040	0.000123	0.324	0.74761759836355
cm_q_state_2	-0.003599	0.003146	-1.144	0.26040709248842
cm_q_state_3	-0.003353	0.004044	-0.829	0.41260343060507
cm_q_state_4	-0.001922	0.006069	-0.317	0.75336314934964

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.412704 Adj. R2: 0.38694

Within R2: 0.001066

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 253,536

Fixed-effects: cms_certification_number: 7,652, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.059429	0.021936	-2.709	0.0103681854932 *
government	0.047559	0.038144	1.247	0.2207389017343

```

non_profit      0.008437    0.028701    0.294 0.7705200330186
chain           0.042178    0.014887    2.833 0.0075965174478 **
beds            -0.000170    0.000477   -0.356 0.7240170695232
occupancy_rate -0.003919    0.000516   -7.592 0.0000000066803 ***
pct_medicare    0.001680    0.000945    1.777 0.0841900992054 .
pct_medicaid   0.000133    0.000369    0.362 0.7194368085673
cm_q_state_2    0.009955    0.006386    1.559 0.1280135464638
cm_q_state_3    0.014805    0.008010    1.848 0.0730329561619 .
cm_q_state_4    0.022263    0.009691    2.297 0.0277070003012 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.371845      Adj. R2: 0.789787
                  Within R2: 0.003535

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OUTCOME: lpn_hppd (level)

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OLS estimation, Dep. Var.: lpn_hppd
Observations: 256,622
Fixed-effects: cms_certification_number: 7,665, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.0111417   0.008020   -1.389 0.173535873536735
government    -0.0146189   0.012085   -1.210 0.234500261744094
non_profit    -0.0207511   0.013254   -1.566 0.126421262693665
chain         -0.0069694   0.005912   -1.179 0.246422571084772
beds          -0.0007710   0.000210   -3.665 0.000811940142849 ***
occupancy_rate -0.0034022   0.000364   -9.353 0.000000000047364 ***
pct_medicare   0.0014869   0.000472    3.148 0.003355631671476 **
pct_medicaid  -0.0000072   0.000156   -0.046 0.963551084666761
cm_q_state_2   -0.0017198   0.002845   -0.605 0.549373479999908
cm_q_state_3   -0.0031377   0.003624   -0.866 0.392553106177610
cm_q_state_4   0.0014657   0.004456    0.329 0.744150678863269
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.195721      Adj. R2: 0.696941
                  Within R2: 0.007662

```

OUTCOME: lpn_hppd (log)

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OLS estimation, Dep. Var.: ln_lpn
Observations: 253,399
Fixed-effects: cms_certification_number: 7,634, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.007184   0.010703   -0.671 0.50651463666140
government    -0.023613   0.017907   -1.319 0.19585926668159
non_profit    -0.021497   0.020147   -1.067 0.29327663233434
chain         -0.012194   0.007941   -1.536 0.13363384921242

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beds          -0.000551   0.000275  -2.002  0.05306757268147 .
occupancy_rate -0.003101   0.000351  -8.842  0.00000000019164 ***
pct_medicare   0.001320   0.000671   1.967  0.05719384975549 .
pct_medicaid -0.000058   0.000242  -0.240  0.81188006297970
cm_q_state_2   0.005149   0.003880   1.327  0.19305311571613
cm_q_state_3   0.008110   0.004742   1.710  0.09606742908855 .
cm_q_state_4   0.013816   0.005487   2.518  0.01652318817521 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.218922      Adj. R2: 0.788925
                  Within R2: 0.005259

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OUTCOME: cna_hppd (level)

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OLS estimation, Dep. Var.: cna_hppd
Observations: 256,622
Fixed-effects: cms_certification_number: 7,665, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.048504   0.013825  -3.508  0.0012589360884370 **
government      0.009755   0.020038   0.487  0.6294045949491716
non_profit     -0.006571   0.023597  -0.278  0.7822924853630044
chain          -0.024377   0.010256  -2.377  0.0230605131389895 *
beds           -0.001879   0.000396  -4.741  0.0000349772829952 ***
occupancy_rate -0.005267   0.000524 -10.052  0.0000000000074058 ***
pct_medicare    0.002429   0.000800   3.036  0.0045022067352143 **
pct_medicaid  -0.000233   0.000253  -0.918  0.3647817114066046
cm_q_state_2    0.001451   0.004188   0.346  0.7310457019895509
cm_q_state_3    0.007702   0.005502   1.400  0.1703717893849376
cm_q_state_4    0.007211   0.007270   0.992  0.3280185876397645
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.370439      Adj. R2: 0.627278
                  Within R2: 0.005642

```

OUTCOME: cna_hppd (log)

```

OLS estimation, Dep. Var.: ln_cna
Observations: 256,403
Fixed-effects: cms_certification_number: 7,664, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.029691   0.006990  -4.24793  0.0001514986019776 ***
government      0.004115   0.010312   0.39902  0.6923027343941697
non_profit     -0.000054   0.011405  -0.00474  0.9962416625197652
chain          -0.013032   0.004978  -2.61776  0.0129873346084975 *
beds           -0.000710   0.000155  -4.58271  0.0000561948565842 ***
occupancy_rate -0.001957   0.000194 -10.06296  0.0000000000071923 ***

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```

pct_medicare      0.000895    0.000342    2.62104 0.0128837690428305 *
pct_medicaid    -0.000067    0.000130   -0.51652 0.6087398006733749
cm_q_state_2      0.003721    0.002001    1.85950 0.0713795383059251 .
cm_q_state_3      0.008822    0.002335    3.77729 0.0005915007359209 ***
cm_q_state_4      0.009360    0.002861    3.27126 0.0024100220958427 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.133584      Adj. R2: 0.727362
                  Within R2: 0.006611

```

OUTCOME: total_hppd (level)

```

OLS estimation, Dep. Var.: total_hppd
Observations: 256,622
Fixed-effects: cms_certification_number: 7,665, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.08597    0.019198  -4.478 0.0000767510407513 ***
government      0.00381    0.026504   0.144 0.8865749760402450
non_profit     -0.03042    0.034059  -0.893 0.3778509659023068
chain          -0.01543    0.014134  -1.091 0.2825700660849799
beds           -0.00331    0.000650  -5.098 0.0000119141584465 ***
occupancy_rate -0.01124    0.000981 -11.461 0.0000000000002131 ***
pct_medicare    0.00507    0.001394   3.637 0.0008788073665611 ***
pct_medicaid  -0.00020    0.000371  -0.538 0.5938654507626122
cm_q_state_2    -0.00387    0.007550  -0.512 0.6116522625612657
cm_q_state_3     0.00121    0.010256   0.118 0.9066243484756895
cm_q_state_4     0.00675    0.014511   0.466 0.6444507785196041
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.855979      Adj. R2: 0.443296
                  Within R2: 0.004536

```

OUTCOME: total_hppd (log)

```

OLS estimation, Dep. Var.: ln_total
Observations: 256,520
Fixed-effects: cms_certification_number: 7,665, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.026062    0.006280  -4.150 0.0002019579195395278 ***
government     -0.002852    0.008885  -0.321 0.7501619824047027763
non_profit     -0.003287    0.010251  -0.321 0.7504177096218498377
chain          -0.005082    0.004268  -1.191 0.2418328733753461468
beds           -0.000742    0.000143  -5.190 0.0000090402818647552 ***
occupancy_rate -0.002603    0.000193 -13.497 0.0000000000000019493 ***
pct_medicare    0.001037    0.000342   3.029 0.0045920096708091636 **
pct_medicaid  -0.000021    0.000114  -0.183 0.8557251666586394023

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cm_q_state_2    0.004505    0.001719    2.621 0.0128832066474654627 *
cm_q_state_3    0.008225    0.002027    4.057 0.0002644801345540953 ***
cm_q_state_4    0.010402    0.002490    4.177 0.0001866030756160370 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.118151      Adj. R2: 0.741477
                  Within R2: 0.012805

```

SAMPLE: without_anticipation_I

[info] rows=252,976 | CCNs=7664

OUTCOME: rn_hppd (level)

```

OLS estimation, Dep. Var.: rn_hppd
Observations: 252,976
Fixed-effects: cms_certification_number: 7,664, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.032495	0.007300	-4.451	0.00008307713867 ***
government	0.006392	0.009493	0.673	0.50514429142935
non_profit	-0.005469	0.009877	-0.554	0.58330123033418
chain	0.015840	0.004246	3.730	0.00067600457012 ***
beds	-0.000669	0.000197	-3.402	0.00168842451899 **
occupancy_rate	-0.002596	0.000311	-8.335	0.00000000079215 ***
pct_medicare	0.001201	0.000507	2.370	0.02344174522441 *
pct_medicaid	0.000027	0.000123	0.218	0.82857189658548
cm_q_state_2	-0.003619	0.003171	-1.141	0.26150702772339
cm_q_state_3	-0.002943	0.004115	-0.715	0.47921739637399
cm_q_state_4	-0.001340	0.006177	-0.217	0.82947767787616

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.415321      Adj. R2: 0.38492
                  Within R2: 0.001054

```

OUTCOME: rn_hppd (log)

```

OLS estimation, Dep. Var.: ln_rn
Observations: 249,968
Fixed-effects: cms_certification_number: 7,651, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.083084	0.029183	-2.847	0.0073362862356 **
government	0.029423	0.036928	0.797	0.4309592714339
non_profit	-0.006173	0.029350	-0.210	0.8346299194630
chain	0.042571	0.015657	2.719	0.0101224126000 *
beds	-0.000165	0.000492	-0.335	0.7392669870262
occupancy_rate	-0.003949	0.000524	-7.542	0.00000000077363 ***
pct_medicare	0.001789	0.000958	1.867	0.0703414200544 .

pct_medicaid	0.000120	0.000361	0.331	0.7424257963918
cm_q_state_2	0.009155	0.006401	1.430	0.1614712465319
cm_q_state_3	0.015573	0.007987	1.950	0.0592416547536 .
cm_q_state_4	0.023413	0.009670	2.421	0.0207954963054 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.369561 Adj. R2: 0.791615
 Within R2: 0.003704

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 252,976

Fixed-effects: cms_certification_number: 7,664, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.015309	0.010420	-1.469	0.150698916837718
government	-0.011975	0.012680	-0.944	0.351412392779857
non_profit	-0.012235	0.012428	-0.985	0.331623221043813
chain	-0.009631	0.006016	-1.601	0.118367857080705
beds	-0.000721	0.000216	-3.335	0.002027316944598 **
occupancy_rate	-0.003431	0.000374	-9.168	0.000000000078154 ***
pct_medicare	0.001550	0.000482	3.215	0.002801803822487 **
pct_medicaid	-0.000017	0.000161	-0.106	0.916053160045655
cm_q_state_2	-0.001453	0.002872	-0.506	0.616010188995011
cm_q_state_3	-0.003243	0.003689	-0.879	0.385362080065707
cm_q_state_4	0.001207	0.004493	0.269	0.789851861359499

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.195972 Adj. R2: 0.697648
 Within R2: 0.007637

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 249,778

Fixed-effects: cms_certification_number: 7,633, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.010949	0.013699	-0.799	0.42954357448311
government	-0.020436	0.017962	-1.138	0.26296471932892
non_profit	-0.013248	0.020107	-0.659	0.51428608049145
chain	-0.014044	0.007994	-1.757	0.08770402295099 .
beds	-0.000503	0.000282	-1.785	0.08289979565621 .
occupancy_rate	-0.003095	0.000347	-8.914	0.00000000015704 ***
pct_medicare	0.001407	0.000689	2.042	0.04876816101980 *
pct_medicaid	-0.000040	0.000241	-0.168	0.86778403248278
cm_q_state_2	0.005755	0.003867	1.488	0.14564737712846

```

cm_q_state_3    0.008180    0.004772    1.714 0.09531802987920 .
cm_q_state_4    0.013655    0.005449    2.506 0.01700925828916 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.217676      Adj. R2: 0.791738
                  Within R2: 0.005226

```

OUTCOME: cna_hppd (level)

```

OLS estimation, Dep. Var.: cna_hppd
Observations: 252,976
Fixed-effects: cms_certification_number: 7,664, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.062873	0.017680	-3.556	0.0011026594809049 **
government	0.012646	0.022699	0.557	0.5809983528370404
non_profit	0.002858	0.023305	0.123	0.9030996032637068
chain	-0.027703	0.010700	-2.589	0.0139293436407483 *
beds	-0.001900	0.000414	-4.586	0.0000556475820584 ***
occupancy_rate	-0.005311	0.000534	-9.938	0.0000000000099731 ***
pct_medicare	0.002437	0.000814	2.993	0.0050366931169618 **
pct_medicaid	-0.000213	0.000260	-0.821	0.4171895518970470
cm_q_state_2	0.001604	0.004221	0.380	0.7061724254144849
cm_q_state_3	0.007294	0.005606	1.301	0.2017204589321130
cm_q_state_4	0.006363	0.007476	0.851	0.4005397141135534

```

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Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.371228      Adj. R2: 0.627162
                  Within R2: 0.005605

```

OUTCOME: cna_hppd (log)

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OLS estimation, Dep. Var.: ln_cna
Observations: 252,770
Fixed-effects: cms_certification_number: 7,663, year_month: 36
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.036688	0.007904	-4.641	0.0000471507755916 ***
government	0.003388	0.011081	0.306	0.7615910339371641
non_profit	0.003217	0.011390	0.282	0.7792844921513055
chain	-0.014509	0.004979	-2.914	0.0061820505482841 **
beds	-0.000710	0.000160	-4.428	0.0000889574339327 ***
occupancy_rate	-0.001974	0.000194	-10.181	0.0000000000052841 ***
pct_medicare	0.000911	0.000343	2.653	0.0119251838975124 *
pct_medicaid	-0.000034	0.000132	-0.254	0.8007274432820088
cm_q_state_2	0.003608	0.001990	1.813	0.0783569310276669 .
cm_q_state_3	0.008508	0.002347	3.625	0.0009100602000923 ***
cm_q_state_4	0.008791	0.002918	3.012	0.0047904987739633 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.132816 Adj. R2: 0.729813
Within R2: 0.00666

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 252,976

Fixed-effects: cms_certification_number: 7,664, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.110677	0.024326	-4.550	0.00006199655664264 ***
government	0.007062	0.028223	0.250	0.80386915537610693
non_profit	-0.014846	0.032516	-0.457	0.65079270277534040
chain	-0.021494	0.014358	-1.497	0.14336584968740007
beds	-0.003289	0.000676	-4.867	0.00002395535369500 ***
occupancy_rate	-0.011338	0.001006	-11.267	0.00000000000034142 ***
pct_medicare	0.005187	0.001426	3.637	0.00088019852931707 ***
pct_medicaid	-0.000203	0.000381	-0.535	0.59620710867745708
cm_q_state_2	-0.003468	0.007603	-0.456	0.65114992709207575
cm_q_state_3	0.001108	0.010454	0.106	0.91620625342857964
cm_q_state_4	0.006229	0.014840	0.420	0.67725580710302236

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.860298 Adj. R2: 0.442094
Within R2: 0.004485

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 252,885

Fixed-effects: cms_certification_number: 7,664, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.034039457	0.007323	-4.64811	0.0000462205184649090 ***
government	-0.000092194	0.008821	-0.01045	0.9917206094708890252
non_profit	0.000200107	0.010145	0.01972	0.9843757480139403437
chain	-0.006834169	0.004188	-1.63177	0.1116937541535839573
beds	-0.000721727	0.000147	-4.90545	0.0000213390196566608 ***
occupancy_rate	-0.002620778	0.000193	-13.60337	0.000000000000015461 ***
pct_medicare	0.001074563	0.000347	3.09252	0.0038835366557413600 **
pct_medicaid	-0.000000512	0.000116	-0.00442	0.9964962336954883426
cm_q_state_2	0.004534247	0.001701	2.66599	0.0115388469665724455 *
cm_q_state_3	0.008244360	0.002009	4.10352	0.0002311564672117095 ***
cm_q_state_4	0.010329605	0.002521	4.09720	0.0002354562681597010 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.117021 Adj. R2: 0.745589
Within R2: 0.013056

SAMPLE: without_anticipation_II

[info] rows=254,776 | CCNs=7665

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 254,776

Fixed-effects: cms_certification_number: 7,665, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.028526	0.006175	-4.620	0.00005032910651 ***
government	0.004453	0.009218	0.483	0.63202077797870
non_profit	-0.006334	0.009725	-0.651	0.51913942189386
chain	0.015543	0.004239	3.667	0.00080870213662 ***
beds	-0.000653	0.000194	-3.371	0.00184029297527 **
occupancy_rate	-0.002583	0.000306	-8.438	0.00000000059118 ***
pct_medicare	0.001204	0.000503	2.395	0.02212368019796 *
pct_medicaid	0.000032	0.000122	0.260	0.79644718665470
cm_q_state_2	-0.003569	0.003152	-1.132	0.26514812366528
cm_q_state_3	-0.003211	0.004099	-0.783	0.43869061433071
cm_q_state_4	-0.001820	0.006155	-0.296	0.76923374015295

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.414055 Adj. R2: 0.385861

Within R2: 0.001058

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 251,721

Fixed-effects: cms_certification_number: 7,652, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.068875	0.023645	-2.913	0.0061987451543 **
government	0.020970	0.037939	0.553	0.5839618049333
non_profit	-0.004384	0.029250	-0.150	0.8817236225209
chain	0.041899	0.015016	2.790	0.0084660055968 **
beds	-0.000099	0.000487	-0.203	0.8401535991551
occupancy_rate	-0.003940	0.000522	-7.543	0.0000000077237 ***
pct_medicare	0.001822	0.000951	1.917	0.0634376464504 .
pct_medicaid	0.000138	0.000364	0.380	0.7059592725675
cm_q_state_2	0.009480	0.006414	1.478	0.1483624446365
cm_q_state_3	0.015087	0.008049	1.874	0.0692390631936 .
cm_q_state_4	0.022372	0.009677	2.312	0.0267958916238 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.37115 Adj. R2: 0.790289
 Within R2: 0.003607

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd
 Observations: 254,776
 Fixed-effects: cms_certification_number: 7,665, year_month: 36
 Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.014484	0.008691	-1.667	0.104513732099798
government	-0.012514	0.012569	-0.996	0.326269272238772
non_profit	-0.017404	0.013148	-1.324	0.194201933473871
chain	-0.007558	0.005957	-1.269	0.212868099568137
beds	-0.000735	0.000212	-3.461	0.001434596673713 **
occupancy_rate	-0.003431	0.000368	-9.323	0.000000000051355 ***
pct_medicare	0.001517	0.000477	3.182	0.003062281576256 **
pct_medicaid	-0.000018	0.000156	-0.114	0.909977631242475
cm_q_state_2	-0.001760	0.002839	-0.620	0.539372798434603
cm_q_state_3	-0.003303	0.003653	-0.904	0.372154175568118
cm_q_state_4	0.001107	0.004482	0.247	0.806277930740479

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.195997 Adj. R2: 0.696915
 Within R2: 0.007685

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn
 Observations: 251,561
 Fixed-effects: cms_certification_number: 7,634, year_month: 36
 Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.008718	0.011827	-0.737	0.46594418502919
government	-0.022991	0.018689	-1.230	0.22684055169030
non_profit	-0.017982	0.020223	-0.889	0.37996731036146
chain	-0.012244	0.008055	-1.520	0.13749361541308
beds	-0.000487	0.000282	-1.728	0.09278739039910 .
occupancy_rate	-0.003092	0.000343	-9.013	0.00000000011964 ***
pct_medicare	0.001371	0.000682	2.010	0.05213321888404 .
pct_medicaid	-0.000075	0.000241	-0.310	0.75856884982735
cm_q_state_2	0.005035	0.003892	1.294	0.20424525760066
cm_q_state_3	0.007750	0.004759	1.629	0.11238655610756
cm_q_state_4	0.012936	0.005463	2.368	0.02354563982149 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.218777 Adj. R2: 0.789612

Within R2: 0.005192

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 254,776

Fixed-effects: cms_certification_number: 7,665, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.05873	0.015304	-3.838	0.0004981814370352 ***
government	0.00965	0.021459	0.449	0.6558696853156620
non_profit	-0.00318	0.023841	-0.134	0.8944949287409156
chain	-0.02387	0.010511	-2.271	0.0294204146971520 *
beds	-0.00188	0.000404	-4.653	0.0000455098285938 ***
occupancy_rate	-0.00531	0.000530	-10.011	0.0000000000082275 ***
pct_medicare	0.00246	0.000804	3.056	0.0042745286036797 **
pct_medicaid	-0.00020	0.000254	-0.787	0.4364195816851948
cm_q_state_2	0.00164	0.004184	0.393	0.6967063438655525
cm_q_state_3	0.00769	0.005549	1.386	0.1745017552377856
cm_q_state_4	0.00648	0.007421	0.873	0.3887998113947781

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.371045 Adj. R2: 0.627073

Within R2: 0.005659

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 254,562

Fixed-effects: cms_certification_number: 7,664, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.034782	0.007459	-4.663	0.000044194635508 ***
government	0.001553	0.010681	0.145	0.885259137751773
non_profit	0.001411	0.011361	0.124	0.901847104775311
chain	-0.012531	0.005014	-2.499	0.017299042853660 *
beds	-0.000710	0.000157	-4.510	0.000069802004520 ***
occupancy_rate	-0.001961	0.000195	-10.062	0.000000000007219 ***
pct_medicare	0.000915	0.000341	2.685	0.011019597742659 *
pct_medicaid	-0.000045	0.000130	-0.348	0.729772211071175
cm_q_state_2	0.003702	0.001994	1.856	0.071859597265160 .
cm_q_state_3	0.008777	0.002332	3.763	0.000615850632957 ***
cm_q_state_4	0.008940	0.002914	3.068	0.004145534837677 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.133591 Adj. R2: 0.727539

Within R2: 0.006649

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 254,776

Fixed-effects: cms_certification_number: 7,665, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.101739	0.021012	-4.8420	0.00002583445149775 ***
government	0.001585	0.027857	0.0569	0.95494894971691635
non_profit	-0.026922	0.034428	-0.7820	0.43948393259410645
chain	-0.015883	0.014350	-1.1069	0.27590296379175216
beds	-0.003268	0.000660	-4.9498	0.00001867002309086 ***
occupancy_rate	-0.011320	0.000994	-11.3877	0.000000000000025442 ***
pct_medicare	0.005178	0.001407	3.6805	0.00077811555901732 ***
pct_medicaid	-0.000186	0.000371	-0.5016	0.61910071506306619
cm_q_state_2	-0.003685	0.007538	-0.4889	0.62798121449168254
cm_q_state_3	0.001177	0.010370	0.1135	0.91026746779571321
cm_q_state_4	0.005763	0.014772	0.3902	0.69878164516688912

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.858379 Adj. R2: 0.442587

Within R2: 0.004538

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 254,677

Fixed-effects: cms_certification_number: 7,665, year_month: 36

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.031354	0.006806	-4.606	0.0000523480556289035 ***
government	-0.001512	0.008719	-0.173	0.8633443652343804064
non_profit	-0.002053	0.010404	-0.197	0.8446740553958903552
chain	-0.005100	0.004282	-1.191	0.2416546156388942324
beds	-0.000726	0.000145	-5.004	0.0000158439273068992 ***
occupancy_rate	-0.002609	0.000193	-13.485	0.0000000000000020006 ***
pct_medicare	0.001064	0.000345	3.085	0.0039574959045441012 **
pct_medicaid	-0.000013	0.000113	-0.112	0.9118006989657027050
cm_q_state_2	0.004533	0.001708	2.654	0.0118809563912008372 *
cm_q_state_3	0.008272	0.002007	4.122	0.0002192333539252505 ***
cm_q_state_4	0.010192	0.002517	4.049	0.0002708098911481125 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.117889 Adj. R2: 0.742595

Within R2: 0.012913

SCENARIO: pandemic_2020q2_2024q2

SAMPLE: with_anticipation

[info] rows=363,450 | CCNs=7506

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 363,450

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.008733	0.006775	-1.2890	0.203330
government	0.017864	0.013576	1.3158	0.194226
non_profit	0.054990	0.021246	2.5883	0.012597 *
chain	-0.000251	0.007199	-0.0348	0.972338
beds	-0.000395	0.000332	-1.1899	0.239716
occupancy_rate	-0.001753	0.000952	-1.8421	0.071397 .
pct_medicare	0.002940	0.002115	1.3900	0.170698
pct_medicaid	0.000323	0.000262	1.2327	0.223453
cm_q_state_2	-0.011162	0.006918	-1.6134	0.112952
cm_q_state_3	-0.021049	0.019133	-1.1001	0.276551
cm_q_state_4	-0.026321	0.030635	-0.8592	0.394348

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 2.88334 Adj. R2: 0.039152

Within R2: 3.773e-5

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 359,974

Fixed-effects: cms_certification_number: 7,504, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.049630	0.020460	-2.4257	0.0189283263928141 *
government	-0.013387	0.045603	-0.2935	0.7703169562475729
non_profit	0.137689	0.043865	3.1389	0.0028435219926399 **
chain	0.005059	0.019962	0.2534	0.8009689989147291
beds	-0.000848	0.000316	-2.6797	0.0099507136515187 **
occupancy_rate	-0.004164	0.000426	-9.7660	0.0000000000003544 ***
pct_medicare	0.001949	0.000638	3.0570	0.0035844221417300 **
pct_medicaid	0.000374	0.000266	1.4095	0.1648721566562259
cm_q_state_2	-0.000452	0.004958	-0.0911	0.9277691180973039
cm_q_state_3	0.007978	0.006153	1.2967	0.2006844545808311
cm_q_state_4	0.020874	0.007738	2.6976	0.0094964183927652 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.4136 Adj. R2: 0.723093
 Within R2: 0.00584

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 363,450

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.013124	0.008012	1.6379	0.10771434
government	0.009724	0.013132	0.7405	0.46244718
non_profit	0.011918	0.016032	0.7434	0.46073252
chain	0.000570	0.007842	0.0726	0.94237938
beds	-0.000162	0.000173	-0.9329	0.35533057
occupancy_rate	-0.003619	0.000244	-14.8101	< 2.2e-16 ***
pct_medicare	0.000906	0.000366	2.4757	0.01672967 *
pct_medicaid	-0.000085	0.000116	-0.7317	0.46773966
cm_q_state_2	-0.001455	0.002603	-0.5589	0.57870058
cm_q_state_3	0.003918	0.003382	1.1585	0.25215528
cm_q_state_4	0.016296	0.004475	3.6419	0.00064213 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.373034 Adj. R2: 0.374411

Within R2: 0.004182

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 360,967

Fixed-effects: cms_certification_number: 7,490, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.010128	0.010617	0.9540	0.3446947536
government	0.014084	0.019150	0.7355	0.4654932263
non_profit	0.001866	0.028912	0.0645	0.9487951622
chain	0.008565	0.010719	0.7991	0.4280231364
beds	0.000098	0.000261	0.3748	0.7093996842
occupancy_rate	-0.003299	0.000261	-12.6515	< 2.2e-16 ***
pct_medicare	0.000768	0.000433	1.7731	0.0823071269 .
pct_medicaid	-0.000168	0.000160	-1.0480	0.2996716435
cm_q_state_2	0.007962	0.003199	2.4892	0.0161769450 *
cm_q_state_3	0.017918	0.004288	4.1791	0.0001173895 ***
cm_q_state_4	0.030514	0.005480	5.5684	0.0000010171 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.272123 Adj. R2: 0.69026

Within R2: 0.007089

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 363,450

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.010368	0.016090	-0.6443	0.52230311263551976
government	-0.041590	0.024803	-1.6769	0.09981343535487952 .
non_profit	0.125273	0.033147	3.7793	0.00041992978125483 ***
chain	-0.033694	0.015388	-2.1896	0.03325039291677820 *
beds	-0.001168	0.000287	-4.0683	0.00016805306028260 ***
occupancy_rate	-0.005070	0.000480	-10.5533	0.000000000000002545 ***
pct_medicare	-0.000109	0.000731	-0.1492	0.88196842468822678
pct_medicaid	-0.000019	0.000215	-0.0871	0.93095695812977031
cm_q_state_2	-0.005808	0.006693	-0.8677	0.38968600971630563
cm_q_state_3	0.004145	0.009437	0.4393	0.66235613660464565
cm_q_state_4	0.016081	0.011680	1.3767	0.17473448596625621

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 1.17057 Adj. R2: 0.161532

Within R2: 8.38e-4

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 362,706

Fixed-effects: cms_certification_number: 7,503, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.00954084	0.008423	-1.1327	0.2627325379145692419
government	-0.03719830	0.016911	-2.1997	0.0324777709531576045 *
non_profit	0.05431236	0.016075	3.3787	0.0014185843404702400 **
chain	-0.01635591	0.008517	-1.9203	0.0605296744152224522 .
beds	-0.00041467	0.000122	-3.4015	0.0013260785713841130 **
occupancy_rate	-0.00175057	0.000152	-11.5183	0.0000000000000011197 ***
pct_medicare	0.00000292	0.000274	0.0107	0.9915402316997281584
pct_medicaid	0.00006248	0.000107	0.5844	0.5615736179366297431
cm_q_state_2	0.00669417	0.002225	3.0091	0.0040966619506004410 **
cm_q_state_3	0.01537110	0.002933	5.2410	0.0000032172424836965 ***
cm_q_state_4	0.02270854	0.003595	6.3163	0.0000000704070769596 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.182508 Adj. R2: 0.64808

Within R2: 0.005361

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 363,450

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.00598	0.021399	-0.279	0.78116710479621
government	-0.01400	0.033150	-0.422	0.67456575243486
non_profit	0.19218	0.049168	3.909	0.00027974257056 ***
chain	-0.03338	0.020599	-1.620	0.11148134194388
beds	-0.00172	0.000529	-3.262	0.00199937158549 **
occupancy_rate	-0.01044	0.001307	-7.988	0.00000000017383 ***
pct_medicare	0.00374	0.002304	1.622	0.11118468516017
pct_medicaid	0.00022	0.000395	0.557	0.58031560284137
cm_q_state_2	-0.01843	0.012126	-1.519	0.13494014143156
cm_q_state_3	-0.01299	0.024332	-0.534	0.59592009377132
cm_q_state_4	0.00606	0.036464	0.166	0.86876299278723

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 3.27991 Adj. R2: 0.072546

Within R2: 4.673e-4

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 362,967

Fixed-effects: cms_certification_number: 7,505, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.008417	0.006872	-1.225	0.226364312305
government	-0.012003	0.012478	-0.962	0.340721200322
non_profit	0.050108	0.015398	3.254	0.002042396833 **
chain	-0.008485	0.006663	-1.274	0.208703385800
beds	-0.000493	0.000114	-4.325	0.000072911167 ***
occupancy_rate	-0.002566	0.000149	-17.183	< 2.2e-16 ***
pct_medicare	0.000413	0.000248	1.667	0.101777308126
pct_medicaid	0.000025	0.000083	0.306	0.760787162127
cm_q_state_2	0.004978	0.002091	2.381	0.021117186264 *
cm_q_state_3	0.013586	0.002759	4.925	0.000009627850 ***
cm_q_state_4	0.023285	0.003703	6.287	0.000000078121 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.169238 Adj. R2: 0.630965

Within R2: 0.011142

SAMPLE: without_anticipation_I

[info] rows=358,770 | CCNs=7506

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd
Observations: 358,770
Fixed-effects: cms_certification_number: 7,506, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.013652	0.007753	-1.761	0.084392 .
government	0.019001	0.014273	1.331	0.189126
non_profit	0.054015	0.022264	2.426	0.018912 *
chain	-0.002436	0.007557	-0.322	0.748549
beds	-0.000400	0.000337	-1.188	0.240560
occupancy_rate	-0.001750	0.000974	-1.796	0.078467 .
pct_medicare	0.003015	0.002166	1.392	0.169988
pct_medicaid	0.000332	0.000264	1.257	0.214733
cm_q_state_2	-0.011456	0.006970	-1.644	0.106509
cm_q_state_3	-0.021386	0.019333	-1.106	0.273915
cm_q_state_4	-0.026993	0.030929	-0.873	0.386980

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 2.90203 Adj. R2: 0.038806
Within R2: 3.78e-5

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn
Observations: 355,438
Fixed-effects: cms_certification_number: 7,504, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.064546	0.023409	-2.7573	0.0081149688440715 **
government	-0.020422	0.045727	-0.4466	0.6570861788478487
non_profit	0.134761	0.044274	3.0438	0.0037190227720985 **
chain	-0.001037	0.020923	-0.0496	0.9606587235737496
beds	-0.000821	0.000311	-2.6369	0.0111183847494497 *
occupancy_rate	-0.004168	0.000428	-9.7466	0.0000000000003786 ***
pct_medicare	0.002022	0.000643	3.1429	0.0028117496022900 **
pct_medicaid	0.000375	0.000268	1.4000	0.1676732322906611
cm_q_state_2	-0.001079	0.004898	-0.2203	0.8265532425352592
cm_q_state_3	0.007510	0.006187	1.2138	0.2305185832551655
cm_q_state_4	0.019513	0.007727	2.5253	0.0147768788700429 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.411872 Adj. R2: 0.724736
Within R2: 0.005921

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd
Observations: 358,770

Fixed-effects: cms_certification_number: 7,506, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.003631	0.008844	0.411	0.68313648
government	0.013509	0.013225	1.021	0.31194399
non_profit	0.015790	0.016750	0.943	0.35038286
chain	-0.002576	0.008236	-0.313	0.75575080
beds	-0.000159	0.000175	-0.907	0.36867245
occupancy_rate	-0.003613	0.000243	-14.851	< 2.2e-16 ***
pct_medicare	0.000963	0.000370	2.602	0.01217746 *
pct_medicaid	-0.000070	0.000118	-0.594	0.55506631
cm_q_state_2	-0.001331	0.002574	-0.517	0.60740101
cm_q_state_3	0.003579	0.003411	1.049	0.29910294
cm_q_state_4	0.016074	0.004492	3.579	0.00077917 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.374414 Adj. R2: 0.373557

Within R2: 0.00412

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 356,393

Fixed-effects: cms_certification_number: 7,490, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.001099	0.011892	0.0925	0.9267089533
government	0.018260	0.019748	0.9246	0.3595909710
non_profit	0.007035	0.030951	0.2273	0.8211252836
chain	0.005661	0.011432	0.4952	0.6226477945
beds	0.000110	0.000267	0.4109	0.6829178372
occupancy_rate	-0.003297	0.000258	-12.7567	< 2.2e-16 ***
pct_medicare	0.000862	0.000442	1.9499	0.0568052343 .
pct_medicaid	-0.000134	0.000160	-0.8381	0.4059541617
cm_q_state_2	0.008285	0.003180	2.6052	0.0120614336 *
cm_q_state_3	0.017695	0.004286	4.1282	0.0001384896 ***
cm_q_state_4	0.030227	0.005471	5.5246	0.0000011876 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.270956 Adj. R2: 0.692519

Within R2: 0.007114

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 358,770

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.02835816	0.018427	-1.5390	0.130118232129612488
government	-0.04079895	0.025059	-1.6281	0.109791625406294460
non_profit	0.13130742	0.034708	3.7832	0.000414898482535022 ***
chain	-0.03766056	0.015977	-2.3571	0.022372146857251224 *
beds	-0.00119041	0.000290	-4.1057	0.000148957257605072 ***
occupancy_rate	-0.00510916	0.000489	-10.4505	0.0000000000000035743 ***
pct_medicare	-0.00007214	0.000740	-0.0975	0.922724692888402642
pct_medicaid	-0.00000848	0.000217	-0.0392	0.968916522011669556
cm_q_state_2	-0.00644627	0.006727	-0.9582	0.342550940315383246
cm_q_state_3	0.00307697	0.009549	0.3222	0.748620147947043346
cm_q_state_4	0.01441916	0.011871	1.2146	0.230222203796385555

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.17708 Adj. R2: 0.160335
Within R2: 8.468e-4

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna
Observations: 358,112
Fixed-effects: cms_certification_number: 7,503, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.017083	0.009087	-1.8800	0.0659455416249599691 .
government	-0.040082	0.017241	-2.3248	0.0241836519772471378 *
non_profit	0.053120	0.015702	3.3830	0.0014008220209923150 **
chain	-0.015520	0.008748	-1.7741	0.0821336935764941933 .
beds	-0.000418	0.000121	-3.4505	0.0011461787254961175 **
occupancy_rate	-0.001743	0.000152	-11.4390	0.0000000000000014411 ***
pct_medicare	0.000022	0.000276	0.0786	0.9376946128175390749
pct_medicaid	0.000068	0.000107	0.6401	0.5250433941319534448
cm_q_state_2	0.006297	0.002208	2.8520	0.0062997968773398682 **
cm_q_state_3	0.014959	0.002917	5.1287	0.0000047584917566730 ***
cm_q_state_4	0.021730	0.003633	5.9804	0.0000002347535933265 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.179838 Adj. R2: 0.654994
Within R2: 0.00548

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd
Observations: 358,770
Fixed-effects: cms_certification_number: 7,506, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.038378	0.024191	-1.586	0.11894272745259

government	-0.008289	0.032973	-0.251	0.80254951611223
non_profit	0.201113	0.051578	3.899	0.00028821086936 ***
chain	-0.042673	0.021194	-2.013	0.04947246826841 *
beds	-0.001749	0.000537	-3.259	0.00201588507546 **
occupancy_rate	-0.010473	0.001336	-7.839	0.00000000029509 ***
pct_medicare	0.003906	0.002347	1.664	0.10228212052207
pct_medicaid	0.000254	0.000395	0.643	0.52346008191334
cm_q_state_2	-0.019233	0.012155	-1.582	0.11987779872798
cm_q_state_3	-0.014730	0.024535	-0.600	0.55096577217161
cm_q_state_4	0.003500	0.036834	0.095	0.92467989412316

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 3.30033 Adj. R2: 0.071958

Within R2: 4.669e-4

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 358,367

Fixed-effects: cms_certification_number: 7,505, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.018238	0.007095	-2.571	0.01317542925 *
government	-0.012208	0.012619	-0.967	0.33800701650
non_profit	0.049585	0.014931	3.321	0.00168131664 **
chain	-0.010056	0.006665	-1.509	0.13762775685
beds	-0.000493	0.000114	-4.325	0.00007281942 ***
occupancy_rate	-0.002555	0.000148	-17.250	< 2.2e-16 ***
pct_medicare	0.000446	0.000248	1.798	0.07818216225 .
pct_medicaid	0.000032	0.000083	0.386	0.70092639183
cm_q_state_2	0.004959	0.002055	2.413	0.01951042616 *
cm_q_state_3	0.013500	0.002717	4.969	0.00000826621 ***
cm_q_state_4	0.022555	0.003688	6.115	0.00000014491 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.16546 Adj. R2: 0.642084

Within R2: 0.011616

SAMPLE: without_anticipation_II

[info] rows=361,137 | CCNs=7506

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 361,137

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

Estimate	Std. Error	t value	Pr(> t)
----------	------------	---------	----------

post	-0.011636	0.007323	-1.589	0.118359
government	0.017535	0.013884	1.263	0.212481
non_profit	0.052356	0.021695	2.413	0.019517 *
chain	-0.001445	0.007255	-0.199	0.842930
beds	-0.000408	0.000333	-1.226	0.225840
occupancy_rate	-0.001749	0.000964	-1.815	0.075564 .
pct_medicare	0.002989	0.002142	1.396	0.169027
pct_medicaid	0.000329	0.000263	1.250	0.217159
cm_q_state_2	-0.011218	0.006954	-1.613	0.113001
cm_q_state_3	-0.021105	0.019235	-1.097	0.277812
cm_q_state_4	-0.026670	0.030790	-0.866	0.390533

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 2.89253 Adj. R2: 0.038982
Within R2: 3.773e-5

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 357,739

Fixed-effects: cms_certification_number: 7,504, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.059901	0.021316	-2.8102	0.00705030408642337 **
government	-0.025170	0.045062	-0.5586	0.57895319855627447
non_profit	0.132146	0.044239	2.9871	0.00435461435918167 **
chain	0.001452	0.020315	0.0715	0.94330290534898809
beds	-0.000861	0.000314	-2.7459	0.00836467622203410 **
occupancy_rate	-0.004149	0.000432	-9.6035	0.000000000000061614 ***
pct_medicare	0.001985	0.000641	3.0994	0.00318121602164212 **
pct_medicaid	0.000370	0.000265	1.3941	0.16946166514103456
cm_q_state_2	-0.000337	0.004907	-0.0687	0.94551466707414700
cm_q_state_3	0.008384	0.006190	1.3545	0.18166842768222066
cm_q_state_4	0.020480	0.007733	2.6484	0.01079224111966856 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.412874 Adj. R2: 0.723803
Within R2: 0.005879

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 361,137

Fixed-effects: cms_certification_number: 7,506, year_month: 51

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.006224	0.008287	0.7511	0.45611053
government	0.013623	0.013376	1.0185	0.31335652

```

non_profit      0.015579   0.016494   0.9445  0.34945897
chain           -0.000689   0.008003  -0.0861  0.93176310
beds            -0.000166   0.000175  -0.9501  0.34664710
occupancy_rate -0.003646   0.000245 -14.9004 < 2.2e-16 ***
pct_medicare    0.000933   0.000369   2.5263  0.01473802 *
pct_medicaid  -0.000089   0.000116  -0.7722  0.44361943
cm_q_state_2    -0.001487   0.002586  -0.5748  0.56800950
cm_q_state_3     0.003715   0.003363   1.1046  0.27462578
cm_q_state_4     0.016001   0.004445   3.5996  0.00073088 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.373766      Adj. R2: 0.374051
                  Within R2: 0.004218

```

OUTCOME: lpn_hppd (log)

```

OLS estimation, Dep. Var.: ln_lpn
Observations: 358,713
Fixed-effects: cms_certification_number: 7,490, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error   t value    Pr(>|t|)
post          0.004144   0.011030    0.3757  0.708762554
government    0.016809   0.019560    0.8594  0.394235024
non_profit    0.001683   0.029619    0.0568  0.954908032
chain         0.008072   0.011061    0.7298  0.468911627
beds          0.000101   0.000267    0.3795  0.705959473
occupancy_rate -0.003321  0.000260 -12.7793 < 2.2e-16 ***
pct_medicare   0.000823  0.000438    1.8805  0.065872581 .
pct_medicaid -0.000157  0.000159   -0.9842  0.329773328
cm_q_state_2    0.007998  0.003196    2.5023  0.015656360 *
cm_q_state_3    0.017865  0.004285    4.1690  0.000121340 ***
cm_q_state_4    0.030280  0.005445    5.5613  0.000001043 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.271456      Adj. R2: 0.691583
                  Within R2: 0.007203

```

OUTCOME: cna_hppd (level)

```

OLS estimation, Dep. Var.: cna_hppd
Observations: 361,137
Fixed-effects: cms_certification_number: 7,506, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error   t value    Pr(>|t|)
post         -0.023955   0.016874   -1.420  0.161925605009812373
government   -0.041030   0.024912   -1.647  0.105826746871298727
non_profit    0.130255   0.033609    3.876  0.000310474866116835 ***
chain        -0.034805   0.015631   -2.227  0.030500876061631099 *

```

```

beds          -0.001206    0.000290   -4.156 0.000126658803759057 ***
occupancy_rate -0.005121    0.000484  -10.576 0.0000000000000023611 ***
pct_medicare  -0.000080    0.000735   -0.109 0.913535176593800458
pct_medicaid -0.000027    0.000215   -0.125 0.900954283211962137
cm_q_state_2   -0.006159    0.006698   -0.920 0.362199987337087359
cm_q_state_3    0.003466    0.009474    0.366 0.716017181880444054
cm_q_state_4    0.015281    0.011736    1.302 0.198852520800164217
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.17374      Adj. R2: 0.160948
                  Within R2: 8.583e-4

```

OUTCOME: cna_hppd (log)

```

OLS estimation, Dep. Var.: ln_cna
Observations: 360,444
Fixed-effects: cms_certification_number: 7,503, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error   t value      Pr(>|t|)
post          -0.014945   0.008629   -1.7320 0.0894484114292245780 .
government    -0.040040   0.017046   -2.3490 0.0228150481350018614 *
non_profit     0.052089   0.015797    3.2973 0.0018013797535367626 **
chain         -0.014381   0.008577   -1.6767 0.0998388530632135091 .
beds          -0.000426   0.000122   -3.5027 0.0009801640476139340 ***
occupancy_rate -0.001758   0.000153  -11.5249 0.0000000000000010965 ***
pct_medicare   0.000018   0.000273    0.0643 0.9490018204654784295
pct_medicaid  0.000059   0.000106    0.5602 0.5778173765728821243
cm_q_state_2    0.006482   0.002219    2.9220 0.0052094028659868180 **
cm_q_state_3    0.015192   0.002932    5.1813 0.0000039630910704913 ***
cm_q_state_4    0.022365   0.003604    6.2061 0.0000001045732149021 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.18137      Adj. R2: 0.651058
                  Within R2: 0.005485

```

OUTCOME: total_hppd (level)

```

OLS estimation, Dep. Var.: total_hppd
Observations: 361,137
Fixed-effects: cms_certification_number: 7,506, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error   t value      Pr(>|t|)
post          -0.029367   0.022547   -1.302 0.19871541999291
government    -0.009873   0.033178   -0.298 0.76726853579518
non_profit     0.198190   0.050490    3.925 0.00026532529114 ***
chain         -0.036939   0.020675   -1.787 0.08006313588355 .
beds          -0.001780   0.000535   -3.330 0.00163557010236 **
occupancy_rate -0.010516   0.001324   -7.944 0.00000000020315 ***

```

```

pct_medicare      0.003841    0.002326    1.651 0.10491721701115
pct_medicaid     0.000213    0.000392    0.542 0.58988933005716
cm_q_state_2     -0.018864    0.012143   -1.553 0.12662281789175
cm_q_state_3     -0.013924    0.024389   -0.571 0.57061085449510
cm_q_state_4      0.004612    0.036584    0.126 0.90018643127447
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 3.28993      Adj. R2: 0.072264
                Within R2: 4.738e-4

```

OUTCOME: total_hppd (log)

```

OLS estimation, Dep. Var.: ln_total
Observations: 360,700
Fixed-effects: cms_certification_number: 7,505, year_month: 51
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.015672   0.006975  -2.247 0.029086846915 *
government    -0.013019   0.012586  -1.034 0.305930746989
non_profit     0.047148   0.015166   3.109 0.003098048790 **
chain         -0.007962   0.006578  -1.210 0.231825014731
beds          -0.000502   0.000114  -4.399 0.000057001907 ***
occupancy_rate -0.002570   0.000149 -17.205 < 2.2e-16 ***
pct_medicare   0.000430   0.000246   1.749 0.086404828528 .
pct_medicaid  0.000021   0.000082   0.257 0.797975641731
cm_q_state_2   0.005069   0.002090   2.425 0.018964806113 *
cm_q_state_3   0.013715   0.002752   4.983 0.000007882798 ***
cm_q_state_4   0.023043   0.003672   6.275 0.000000081533 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.167263      Adj. R2: 0.636824
                Within R2: 0.011502

```

SCENARIO: for_profit_only

SAMPLE: with_anticipation

```
[info] rows=464,794 | CCNs=6022
```

OUTCOME: rn_hppd (level)

```

OLS estimation, Dep. Var.: rn_hppd
Observations: 464,793
Fixed-effects: cms_certification_number: 6,021, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.024110   0.005452  -4.422 0.0000275695154 ***
chain          0.005241   0.004933   1.062 0.2909325975386
beds          -0.000561   0.000172  -3.264 0.0015605628825 **

```



```

occupancy_rate -0.002371    0.000196 -12.067      < 2.2e-16 ***
pct_medicare    0.001973    0.000289   6.830 0.0000000010124 ***
pct_medicaid   0.000100    0.000090   1.104 0.2726792966133
cm_q_state_2    -0.002624    0.002410  -1.089 0.2791513782321
cm_q_state_3     0.000343    0.003017   0.114 0.9096329382625
cm_q_state_4     0.008250    0.004287   1.924 0.0575213018831 .
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.208972      Adj. R2: 0.601352
                  Within R2: 0.010333

```

OUTCOME: rn_hppd (log)

```

OLS estimation, Dep. Var.: ln_rn
Observations: 459,754
Fixed-effects: cms_certification_number: 6,018, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.083843   0.017404   -4.82 0.000005935400261377 ***
chain           0.022159   0.015073    1.47 0.145043140096433876
beds           -0.000668   0.000298   -2.24 0.027733920122688546 *
occupancy_rate -0.003585   0.000389   -9.22 0.000000000000013062 ***
pct_medicare    0.003926   0.000655    5.99 0.000000042972602520 ***
pct_medicaid   0.000455   0.000260    1.75 0.084088836272808276 .
cm_q_state_2     0.014267   0.006056    2.36 0.020688772788489067 *
cm_q_state_3     0.029051   0.007340    3.96 0.000151754478751383 ***
cm_q_state_4     0.051707   0.009003    5.74 0.000000127315227467 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.451334      Adj. R2: 0.679799
                  Within R2: 0.007601

```

OUTCOME: lpn_hppd (level)

```

OLS estimation, Dep. Var.: lpn_hppd
Observations: 464,793
Fixed-effects: cms_certification_number: 6,021, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          0.001120   0.006341    0.177 0.86014883
chain         -0.013958   0.006128   -2.278 0.02513828 *
beds          -0.000168   0.000167   -1.006 0.31692727
occupancy_rate -0.003671   0.000248  -14.823 < 2.2e-16 ***
pct_medicare    0.000997   0.000341    2.923 0.00439291 **
pct_medicaid  -0.000293   0.000122   -2.398 0.01855008 *
cm_q_state_2    -0.001880   0.002566   -0.733 0.46572541
cm_q_state_3     0.002063   0.003109    0.664 0.50864047
cm_q_state_4     0.014762   0.003953    3.734 0.00033192 ***

```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.346281 Adj. R2: 0.382813
Within R2: 0.00663

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 460,314

Fixed-effects: cms_certification_number: 6,002, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.002401	0.008948	0.268	0.789022230313
chain	-0.008699	0.008377	-1.038	0.301887297628
beds	0.000202	0.000315	0.641	0.523056424726
occupancy_rate	-0.003495	0.000271	-12.886	< 2.2e-16 ***
pct_medicare	0.000448	0.000413	1.085	0.280738693578
pct_medicaid	-0.000591	0.000183	-3.234	0.001716045410 **
cm_q_state_2	0.006583	0.003453	1.907	0.059787424435 .
cm_q_state_3	0.014686	0.004065	3.613	0.000500345043 ***
cm_q_state_4	0.030415	0.005020	6.059	0.000000032195 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.270935 Adj. R2: 0.658757
Within R2: 0.01041

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 464,793

Fixed-effects: cms_certification_number: 6,021, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.046840	0.010391	-4.51	0.000019882 ***
chain	-0.038755	0.009558	-4.05	0.000107353 ***
beds	-0.000968	0.000305	-3.18	0.002045886 **
occupancy_rate	-0.004394	0.000360	-12.22	< 2.2e-16 ***
pct_medicare	0.001123	0.000532	2.11	0.037754200 *
pct_medicaid	-0.000710	0.000189	-3.75	0.000310860 ***
cm_q_state_2	0.005647	0.005541	1.02	0.310941962
cm_q_state_3	0.022739	0.006919	3.29	0.001452851 **
cm_q_state_4	0.035853	0.009261	3.87	0.000206182 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.05115 Adj. R2: 0.140474
Within R2: 0.001263

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna
Observations: 464,027
Fixed-effects: cms_certification_number: 6,018, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.024199	0.005554	-4.36	0.00003526994767811 ***
chain	-0.017964	0.005160	-3.48	0.00077504891149116 ***
beds	-0.000351	0.000154	-2.27	0.02563395772500955 *
occupancy_rate	-0.001631	0.000153	-10.66	< 2.2e-16 ***
pct_medicare	0.000255	0.000241	1.06	0.29192835503311032
pct_medicaid	-0.000368	0.000095	-3.87	0.00020577413813902 ***
cm_q_state_2	0.009138	0.002135	4.28	0.00004685506372019 ***
cm_q_state_3	0.021163	0.002567	8.24	0.000000000000136806 ***
cm_q_state_4	0.027779	0.003176	8.75	0.00000000000012565 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.175968 Adj. R2: 0.593621
Within R2: 0.007805

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd
Observations: 464,793
Fixed-effects: cms_certification_number: 6,021, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.069830	0.014722	-4.743	0.0000079538 ***
chain	-0.047472	0.013071	-3.632	0.0004699112 ***
beds	-0.001697	0.000503	-3.371	0.0011080619 **
occupancy_rate	-0.010435	0.000626	-16.672	< 2.2e-16 ***
pct_medicare	0.004093	0.000832	4.920	0.0000039434 ***
pct_medicaid	-0.000903	0.000283	-3.196	0.0019296147 **
cm_q_state_2	0.001143	0.008217	0.139	0.8897333544
cm_q_state_3	0.025145	0.010352	2.429	0.0171511029 *
cm_q_state_4	0.058864	0.014097	4.176	0.0000690740 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.42791 Adj. R2: 0.17249
Within R2: 0.003529

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total
Observations: 464,330
Fixed-effects: cms_certification_number: 6,020, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.021734	0.004839	-4.49	0.00002115827107744963 ***

```

chain          -0.012154    0.004456    -2.73  0.00768969736660407230 **
beds           -0.000393    0.000147    -2.68  0.00888594937310563382 **
occupancy_rate -0.002511    0.000148   -16.99          < 2.2e-16 ***
pct_medicare   0.000809    0.000222     3.65  0.00044358172295432392 ***
pct_medicaid  -0.000272    0.000082    -3.32  0.00131128836316580068 **
cm_q_state_2   0.007981    0.001903     4.19  0.00006456374361506987 ***
cm_q_state_3   0.018362    0.002338     7.85  0.000000000000865978972 ***
cm_q_state_4   0.028916    0.002906     9.95  0.00000000000000040621 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.160348      Adj. R2: 0.597836
                  Within R2: 0.017371

```

SAMPLE: without_anticipation_I

[info] rows=457,231 | CCNs=6003

OUTCOME: rn_hppd (level)

```

OLS estimation, Dep. Var.: rn_hppd
Observations: 457,230
Fixed-effects: cms_certification_number: 6,002, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post         -0.026181   0.005957  -4.395  0.0000304943219 ***
chain         0.004701   0.005069   0.928  0.3561595206543
beds          -0.000553   0.000173  -3.188  0.0019750202306 **
occupancy_rate -0.002395   0.000200 -11.966    < 2.2e-16 ***
pct_medicare   0.001979   0.000292   6.769  0.0000000013331 ***
pct_medicaid  0.000100   0.000091   1.095  0.2766107726689
cm_q_state_2   -0.002894   0.002456  -1.178  0.2417428731380
cm_q_state_3   0.000305   0.003080   0.099  0.9213336528924
cm_q_state_4   0.008299   0.004338   1.913  0.0589566431810 .
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.209596      Adj. R2: 0.600673
                  Within R2: 0.010339

```

OUTCOME: rn_hppd (log)

```

OLS estimation, Dep. Var.: ln_rn
Observations: 452,383
Fixed-effects: cms_certification_number: 6,000, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post         -0.091936   0.019024  -4.83  0.000005585618432445 ***
chain         0.019773   0.015569   1.27  0.207371124420038383
beds          -0.000643   0.000300  -2.14  0.035086613072087970 *
occupancy_rate -0.003643   0.000393  -9.26  0.000000000000010882 ***

```

pct_medicare	0.003939	0.000662	5.95	0.000000051040679923	***
pct_medicaid	0.000448	0.000264	1.70	0.092436140246981158	.
cm_q_state_2	0.013543	0.006046	2.24	0.027569547190831711	*
cm_q_state_3	0.029175	0.007374	3.96	0.000152714105183511	***
cm_q_state_4	0.052008	0.009009	5.77	0.000000112019311711	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.449576 Adj. R2: 0.681619
 Within R2: 0.007795

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 457,230

Fixed-effects: cms_certification_number: 6,002, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.001766	0.006974	-0.253	0.80066412
chain	-0.016696	0.006403	-2.607	0.01069840 *
beds	-0.000130	0.000167	-0.777	0.43933653
occupancy_rate	-0.003703	0.000249	-14.889	< 2.2e-16 ***
pct_medicare	0.001020	0.000345	2.955	0.00400227 **
pct_medicaid	-0.000297	0.000122	-2.429	0.01716537 *
cm_q_state_2	-0.001792	0.002560	-0.700	0.48572291
cm_q_state_3	0.001738	0.003139	0.554	0.58110584
cm_q_state_4	0.014626	0.003972	3.682	0.00039603 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.347903 Adj. R2: 0.381973
 Within R2: 0.006647

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 452,866

Fixed-effects: cms_certification_number: 5,984, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.000808	0.009875	-0.0818	0.934989918673
chain	-0.010518	0.008639	-1.2176	0.226610832943
beds	0.000242	0.000324	0.7461	0.457574036975
occupancy_rate	-0.003531	0.000271	-13.0167	< 2.2e-16 ***
pct_medicare	0.000474	0.000417	1.1358	0.259107442746
pct_medicaid	-0.000578	0.000186	-3.1044	0.002556601562 **
cm_q_state_2	0.006948	0.003458	2.0095	0.047514161731 *
cm_q_state_3	0.014494	0.004097	3.5377	0.000643668735 ***
cm_q_state_4	0.030583	0.005062	6.0422	0.000000034691 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.26967 Adj. R2: 0.661534
 Within R2: 0.010621

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd
 Observations: 457,230
 Fixed-effects: cms_certification_number: 6,002, year_month: 90
 Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.054478	0.011342	-4.803	0.000006275	***
chain	-0.041200	0.009853	-4.181	0.000067683	***
beds	-0.000935	0.000305	-3.062	0.002911895	**
occupancy_rate	-0.004467	0.000366	-12.210	< 2.2e-16	***
pct_medicare	0.001122	0.000538	2.088	0.039663628	*
pct_medicaid	-0.000734	0.000191	-3.843	0.000227927	***
cm_q_state_2	0.005227	0.005576	0.937	0.351083227	
cm_q_state_3	0.021960	0.007036	3.121	0.002429049	**
cm_q_state_4	0.035347	0.009480	3.729	0.000338000	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 1.05852 Adj. R2: 0.139041
 Within R2: 0.001278

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna
 Observations: 456,550
 Fixed-effects: cms_certification_number: 6,000, year_month: 90
 Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.027395	0.005972	-4.59	0.00001465155011947	***
chain	-0.018191	0.005285	-3.44	0.00088106957964837	***
beds	-0.000339	0.000156	-2.18	0.03217529227413089	*
occupancy_rate	-0.001657	0.000153	-10.80	< 2.2e-16	***
pct_medicare	0.000245	0.000243	1.01	0.31594415496592787	
pct_medicaid	-0.000373	0.000095	-3.91	0.00017814953969125	***
cm_q_state_2	0.008847	0.002126	4.16	0.00007279230852584	***
cm_q_state_3	0.020819	0.002570	8.10	0.000000000000268592	***
cm_q_state_4	0.027363	0.003217	8.51	0.00000000000039315	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.173506 Adj. R2: 0.60052
 Within R2: 0.008126

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 457,230

Fixed-effects: cms_certification_number: 6,002, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.082425	0.015994	-5.1535	0.0000015264 ***
chain	-0.053195	0.013428	-3.9615	0.0001498952 ***
beds	-0.001618	0.000503	-3.2152	0.0018168759 **
occupancy_rate	-0.010565	0.000636	-16.6148	< 2.2e-16 ***
pct_medicare	0.004122	0.000843	4.8873	0.0000044924 ***
pct_medicaid	-0.000932	0.000285	-3.2709	0.0015259683 **
cm_q_state_2	0.000541	0.008305	0.0651	0.9482225234
cm_q_state_3	0.024004	0.010593	2.2659	0.0258819126 *
cm_q_state_4	0.058272	0.014463	4.0292	0.0001176543 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 1.43754 Adj. R2: 0.171169

Within R2: 0.003543

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 456,847

Fixed-effects: cms_certification_number: 6,002, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.025309	0.005148	-4.92	0.00000400511007730031 ***
chain	-0.013587	0.004487	-3.03	0.00322212971958105122 **
beds	-0.000373	0.000148	-2.51	0.01380710947186464428 *
occupancy_rate	-0.002538	0.000148	-17.16	< 2.2e-16 ***
pct_medicare	0.000814	0.000225	3.62	0.00048252171869558511 ***
pct_medicaid	-0.000274	0.000083	-3.32	0.00131464652884825560 **
cm_q_state_2	0.007939	0.001870	4.25	0.00005326822571327289 ***
cm_q_state_3	0.018295	0.002324	7.87	0.000000000000795300667 ***
cm_q_state_4	0.028754	0.002920	9.85	0.000000000000000066659 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.156947 Adj. R2: 0.608756

Within R2: 0.018356

SAMPLE: without_anticipation_II

[info] rows=460,975 | CCNs=6011

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 460,971

Fixed-effects: cms_certification_number: 6,007, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.025504	0.005646	-4.518	0.00001914113337 ***
chain	0.004875	0.004977	0.979	0.33005772890263
beds	-0.000562	0.000173	-3.246	0.00165241686441 **
occupancy_rate	-0.002387	0.000199	-12.017	< 2.2e-16 ***
pct_medicare	0.001994	0.000291	6.856	0.000000000089835 ***
pct_medicaid	0.000102	0.000090	1.124	0.26387982024317
cm_q_state_2	-0.002683	0.002436	-1.101	0.27378948429453
cm_q_state_3	0.000355	0.003048	0.116	0.90759380570929
cm_q_state_4	0.008292	0.004326	1.917	0.05848116401352 .

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.209342 Adj. R2: 0.600912

Within R2: 0.010397

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 456,029

Fixed-effects: cms_certification_number: 6,004, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.088880	0.018014	-4.93	0.000003724302193260 ***
chain	0.020344	0.015223	1.34	0.184820077538757399
beds	-0.000667	0.000300	-2.23	0.028480379597700212 *
occupancy_rate	-0.003606	0.000392	-9.21	0.0000000000000014085 ***
pct_medicare	0.003959	0.000658	6.02	0.000000038977707967 ***
pct_medicaid	0.000457	0.000261	1.75	0.083243257533171272 .
cm_q_state_2	0.014223	0.006038	2.36	0.020690810670537605 *
cm_q_state_3	0.029651	0.007370	4.02	0.000120098805058747 ***
cm_q_state_4	0.052202	0.009021	5.79	0.000000105528788983 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.450544 Adj. R2: 0.680498

Within R2: 0.007726

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 460,971

Fixed-effects: cms_certification_number: 6,007, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.000596	0.006630	-0.0899	0.92857258
chain	-0.014607	0.006250	-2.3371	0.02167691 *
beds	-0.000160	0.000167	-0.9543	0.34253013
occupancy_rate	-0.003708	0.000249	-14.8906	< 2.2e-16 ***
pct_medicare	0.001002	0.000343	2.9198	0.00443649 **


```

pct_medicaid    -0.000295    0.000121   -2.4302  0.01709873 *
cm_q_state_2     -0.001981    0.002560   -0.7741  0.44093390
cm_q_state_3      0.001833    0.003105    0.5903  0.55648090
cm_q_state_4      0.014474    0.003934    3.6792  0.00040029 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.347169      Adj. R2: 0.382383
                  Within R2: 0.006684

```

OUTCOME: lpn_hppd (log)

```

OLS estimation, Dep. Var.: ln_lpn
Observations: 456,545
Fixed-effects: cms_certification_number: 5,988, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error   t value      Pr(>|t|)
post           0.000613   0.009311    0.0658  0.947673749301
chain          -0.008926   0.008479   -1.0527  0.295308472310
beds            0.000218   0.000322    0.6748  0.501557422799
occupancy_rate -0.003525   0.000272  -12.9602   < 2.2e-16 ***
pct_medicare    0.000459   0.000415    1.1062  0.271632834058
pct_medicaid   -0.000582   0.000185   -3.1515  0.002213539184 **
cm_q_state_2     0.006628   0.003456    1.9176  0.058369121591 .
cm_q_state_3     0.014689   0.004084    3.5970  0.000528172617 ***
cm_q_state_4     0.030304   0.005026    6.0292  0.000000036728 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.270437      Adj. R2: 0.660015
                  Within R2: 0.010535

```

OUTCOME: cna_hppd (level)

```

OLS estimation, Dep. Var.: cna_hppd
Observations: 460,971
Fixed-effects: cms_certification_number: 6,007, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error   t value      Pr(>|t|)
post          -0.051006   0.010819   -4.714  0.0000089151 ***
chain          -0.039003   0.009754   -3.999  0.0001312130 ***
beds           -0.000984   0.000306   -3.211  0.0018439202 **
occupancy_rate -0.004452   0.000363  -12.256   < 2.2e-16 ***
pct_medicare    0.001133   0.000534    2.121  0.0367040216 *
pct_medicaid   -0.000710   0.000190   -3.744  0.0003206395 ***
cm_q_state_2     0.005417   0.005564    0.974  0.3328934226
cm_q_state_3     0.022474   0.006982    3.219  0.0017968481 **
cm_q_state_4     0.035568   0.009369    3.796  0.0002677410 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

RMSE: 1.0549 Adj. R2: 0.139733
 Within R2: 0.001279

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 460,250

Fixed-effects: cms_certification_number: 6,004, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.025752	0.005756	-4.47	0.00002263483454687 ***
chain	-0.017283	0.005250	-3.29	0.00142775341261732 **
beds	-0.000361	0.000156	-2.31	0.02294229756712125 *
occupancy_rate	-0.001649	0.000154	-10.73	< 2.2e-16 ***
pct_medicare	0.000259	0.000241	1.08	0.28517920078771963
pct_medicaid	-0.000362	0.000095	-3.82	0.00024511759962406 ***
cm_q_state_2	0.008999	0.002129	4.23	0.00005716611445811 ***
cm_q_state_3	0.021195	0.002569	8.25	0.000000000000132763 ***
cm_q_state_4	0.027728	0.003200	8.66	0.00000000000018632 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.175057 Adj. R2: 0.596155

Within R2: 0.007961

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 460,971

Fixed-effects: cms_certification_number: 6,007, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.077106	0.015268	-5.0500	0.0000023303 ***
chain	-0.048735	0.013233	-3.6828	0.0003953135 ***
beds	-0.001705	0.000505	-3.3762	0.0010910621 **
occupancy_rate	-0.010548	0.000632	-16.6858	< 2.2e-16 ***
pct_medicare	0.004129	0.000837	4.9338	0.0000037281 ***
pct_medicaid	-0.000903	0.000282	-3.1966	0.0019253550 **
cm_q_state_2	0.000753	0.008272	0.0911	0.9276517281
cm_q_state_3	0.024662	0.010460	2.3577	0.0205778983 *
cm_q_state_4	0.058334	0.014254	4.0926	0.0000935877 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 1.43281 Adj. R2: 0.171822

Within R2: 0.00356

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 460,548

Fixed-effects: cms_certification_number: 6,006, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.023757	0.004991	-4.76	0.00000745521292353673 ***
chain	-0.012039	0.004472	-2.69	0.00847616167464016607 **
beds	-0.000396	0.000148	-2.68	0.00884441469602877291 **
occupancy_rate	-0.002529	0.000149	-17.02	< 2.2e-16 ***
pct_medicare	0.000823	0.000222	3.70	0.00036892630396142092 ***
pct_medicaid	-0.000268	0.000082	-3.27	0.00153000698698895128 **
cm_q_state_2	0.008064	0.001876	4.30	0.00004388067861841809 ***
cm_q_state_3	0.018622	0.002328	8.00	0.000000000000434296853 ***
cm_q_state_4	0.029036	0.002900	10.01	0.00000000000000030146 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.158734 Adj. R2: 0.603091
Within R2: 0.017919

SCENARIO: baseline_chain_2017q1

SAMPLE: with_anticipation

[info] rows=325,038 | CCNs=3825

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 325,038

Fixed-effects: cms_certification_number: 3,825, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.029670	0.006433	-4.6122	0.00001328576041441066 ***
government	-0.001618	0.010425	-0.1552	0.87700860786804069047
non_profit	0.035435	0.015866	2.2334	0.02802705973969308456 *
chain	0.001333	0.006881	0.1938	0.84680929981428443298
beds	-0.000944	0.000203	-4.6511	0.00001141701423872387 ***
occupancy_rate	-0.002086	0.000213	-9.7785	0.00000000000000091855 ***
pct_medicare	0.002187	0.000403	5.4286	0.00000048643954024942 ***
pct_medicaid	0.000069	0.000116	0.5898	0.55683861296115744199
cm_q_state_2	-0.002175	0.003022	-0.7196	0.47367808038813219440
cm_q_state_3	-0.000327	0.003890	-0.0842	0.93310437520171873871
cm_q_state_4	0.005466	0.005343	1.0229	0.30914791898774601764

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.396818 Adj. R2: 0.347741
Within R2: 0.002461

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 322,053
Fixed-effects: cms_certification_number: 3,824, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.096178	0.020255	-4.748	0.00000779612667 ***
government	0.020149	0.039173	0.514	0.60828322618434
non_profit	0.144037	0.046194	3.118	0.00245248452927 **
chain	0.021854	0.020267	1.078	0.28380537222306
beds	-0.001159	0.000409	-2.837	0.00563286448565 **
occupancy_rate	-0.003369	0.000469	-7.189	0.00000000019318 ***
pct_medicare	0.004372	0.000852	5.129	0.00000168759110 ***
pct_medicaid	0.000533	0.000336	1.586	0.11624786142019
cm_q_state_2	0.004586	0.006774	0.677	0.50012606753201
cm_q_state_3	0.012606	0.008289	1.521	0.13185967135932
cm_q_state_4	0.022902	0.010036	2.282	0.02486909287886 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.438008 Adj. R2: 0.67666
Within R2: 0.008275

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd
Observations: 325,038
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.005326	0.008144	0.6540	0.514781286
government	-0.024360	0.012494	-1.9497	0.054358305 .
non_profit	0.003180	0.019621	0.1621	0.871626075
chain	-0.009841	0.009561	-1.0293	0.306109855
beds	-0.000455	0.000236	-1.9285	0.056981751 .
occupancy_rate	-0.003029	0.000269	-11.2803	< 2.2e-16 ***
pct_medicare	0.002313	0.000526	4.4009	0.000029848 ***
pct_medicaid	-0.000041	0.000159	-0.2583	0.796739354
cm_q_state_2	0.000145	0.003130	0.0463	0.963175913
cm_q_state_3	0.005017	0.003990	1.2572	0.211982188
cm_q_state_4	0.015514	0.005201	2.9830	0.003683344 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.29096 Adj. R2: 0.450457
Within R2: 0.007226

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn
Observations: 322,411
Fixed-effects: cms_certification_number: 3,815, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.009604	0.012082	0.795	0.4288018591277614755
government	-0.019915	0.020596	-0.967	0.3361923226560685762
non_profit	-0.036721	0.037935	-0.968	0.3356625582597752011
chain	0.016146	0.013035	1.239	0.2187448311923721467
beds	-0.000186	0.000312	-0.594	0.5539208041408809624
occupancy_rate	-0.003170	0.000329	-9.640	0.0000000000000017778 ***
pct_medicare	0.002531	0.000615	4.118	0.0000853954511420959 ***
pct_medicaid	-0.000305	0.000195	-1.559	0.1225414350050392370
cm_q_state_2	0.007716	0.004285	1.801	0.0751299570348232248 .
cm_q_state_3	0.018331	0.005207	3.521	0.0006809787921850768 ***
cm_q_state_4	0.031534	0.006122	5.151	0.0000015427129666639 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.275931 Adj. R2: 0.645218

 Within R2: 0.009925

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 325,038

Fixed-effects: cms_certification_number: 3,825, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.029731	0.011438	-2.60	0.01093320269181171 *
government	-0.021566	0.019653	-1.10	0.27544832787188006
non_profit	0.097908	0.028436	3.44	0.00087856312906546 ***
chain	-0.034655	0.015082	-2.30	0.02391597943702198 *
beds	-0.001126	0.000401	-2.81	0.00611044867324535 **
occupancy_rate	-0.003367	0.000384	-8.77	0.000000000000011196 ***
pct_medicare	0.001837	0.000663	2.77	0.00680121182104214 **
pct_medicaid	-0.000715	0.000217	-3.30	0.00140702383908280 **
cm_q_state_2	0.009396	0.006277	1.50	0.13795827308425834
cm_q_state_3	0.025359	0.007989	3.17	0.00206367718004893 **
cm_q_state_4	0.029720	0.011186	2.66	0.00935115246937914 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.552804 Adj. R2: 0.363875

 Within R2: 0.003099

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 324,742

Fixed-effects: cms_certification_number: 3,825, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
--	----------	------------	---------	----------

post	-0.016303	0.005777	-2.82	0.0058859744105502	**
government	-0.031059	0.013108	-2.37	0.0199748821446122	*
non_profit	0.046714	0.016319	2.86	0.0052386233228502	**
chain	-0.010540	0.006721	-1.57	0.1203871985447944	
beds	-0.000413	0.000181	-2.28	0.0251815995556952	*
occupancy_rate	-0.001225	0.000156	-7.86	0.0000000000085668	***
pct_medicare	0.000684	0.000310	2.21	0.0299376028325446	*
pct_medicaid	-0.000460	0.000110	-4.17	0.0000696958558067	***
cm_q_state_2	0.010088	0.002264	4.46	0.0000242126876762	***
cm_q_state_3	0.020204	0.002771	7.29	0.0000000001208849	***
cm_q_state_4	0.024954	0.003496	7.14	0.0000000002460678	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.161912 Adj. R2: 0.60687

Within R2: 0.007633

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 325,038

Fixed-effects: cms_certification_number: 3,825, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.054074	0.016425	-3.292	0.001426592707	**
government	-0.047544	0.022879	-2.078	0.040579841629	*
non_profit	0.136522	0.040258	3.391	0.001039668355	**
chain	-0.043163	0.022258	-1.939	0.055643643818	.
beds	-0.002525	0.000647	-3.900	0.000186364268	***
occupancy_rate	-0.008482	0.000653	-12.982	< 2.2e-16	***
pct_medicare	0.006337	0.001090	5.811	0.000000094928	***
pct_medicaid	-0.000688	0.000337	-2.038	0.044507664169	*
cm_q_state_2	0.007366	0.009811	0.751	0.454758628893	
cm_q_state_3	0.030048	0.012715	2.363	0.020297450445	*
cm_q_state_4	0.050699	0.017882	2.835	0.005666633968	**

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 1.03018 Adj. R2: 0.297808

Within R2: 0.004964

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 324,842

Fixed-effects: cms_certification_number: 3,825, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.016007	0.005074	-3.154	0.0021932866514025	**
government	-0.022653	0.008604	-2.633	0.0099856217994226	**

non_profit	0.046169	0.016007	2.884	0.0049189078595334	**
chain	-0.004632	0.005986	-0.774	0.4411061829423467	
beds	-0.000622	0.000167	-3.734	0.0003324681872850	***
occupancy_rate	-0.002110	0.000152	-13.905	< 2.2e-16	***
pct_medicare	0.001521	0.000287	5.300	0.0000008320581418	***
pct_medicaid	-0.000299	0.000095	-3.137	0.0023174292550630	**
cm_q_state_2	0.008742	0.001972	4.433	0.0000264576260226	***
cm_q_state_3	0.017622	0.002463	7.155	0.0000000002263816	***
cm_q_state_4	0.025206	0.003177	7.933	0.0000000000059571	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.147253 Adj. R2: 0.606812

Within R2: 0.017445

SAMPLE: without_anticipation_I

[info] rows=319,864 | CCNs=3824

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 319,864

Fixed-effects: cms_certification_number: 3,824, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.033160	0.007068	-4.6917	0.00000974416867093389	***
government	-0.004075	0.010856	-0.3754	0.70824550940919528408	
non_profit	0.033386	0.016183	2.0631	0.04202015448522158220	*
chain	-0.000730	0.007249	-0.1007	0.92001263519065590302	
beds	-0.000937	0.000202	-4.6327	0.00001226462620184453	***
occupancy_rate	-0.002107	0.000216	-9.7725	0.00000000000000094507	***
pct_medicare	0.002249	0.000404	5.5664	0.00000027165285413201	***
pct_medicaid	0.000065	0.000117	0.5589	0.57763209187100394981	
cm_q_state_2	-0.002566	0.003076	-0.8340	0.40652893878490914403	
cm_q_state_3	-0.000382	0.003959	-0.0964	0.92340683887932173413	
cm_q_state_4	0.005645	0.005424	1.0409	0.30074116586310001287	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.399518 Adj. R2: 0.34604

Within R2: 0.002468

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 317,008

Fixed-effects: cms_certification_number: 3,823, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.106022	0.022517	-4.708	0.0000091242003	***

government	0.009489	0.040423	0.235	0.8149468121874
non_profit	0.140732	0.047482	2.964	0.0038974171253 **
chain	0.016452	0.021437	0.767	0.4448418446506
beds	-0.001133	0.000410	-2.764	0.0069420924246 **
occupancy_rate	-0.003442	0.000470	-7.330	0.0000000001008 ***
pct_medicare	0.004526	0.000856	5.284	0.0000008886211 ***
pct_medicaid	0.000525	0.000339	1.548	0.1251467956415
cm_q_state_2	0.003993	0.006755	0.591	0.5559962935285
cm_q_state_3	0.013445	0.008251	1.629	0.1067592452362
cm_q_state_4	0.024356	0.009973	2.442	0.0165724288962 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.436213 Adj. R2: 0.678378

Within R2: 0.008527

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 319,864

Fixed-effects: cms_certification_number: 3,824, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.001542	0.009030	0.1707	0.864840537
government	-0.025709	0.012778	-2.0119	0.047252729 *
non_profit	0.006911	0.020168	0.3427	0.732658465
chain	-0.014432	0.010363	-1.3926	0.167213817
beds	-0.000416	0.000238	-1.7457	0.084313183 .
occupancy_rate	-0.003022	0.000268	-11.2598	< 2.2e-16 ***
pct_medicare	0.002403	0.000530	4.5363	0.000017812 ***
pct_medicaid	-0.000025	0.000157	-0.1611	0.872366674
cm_q_state_2	0.000161	0.003137	0.0515	0.959081941
cm_q_state_3	0.004747	0.004028	1.1784	0.241770595
cm_q_state_4	0.015113	0.005210	2.9010	0.004686365 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.291824 Adj. R2: 0.450428

Within R2: 0.007173

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 317,305

Fixed-effects: cms_certification_number: 3,814, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.008378	0.013378	0.626	0.5327780747568046094
government	-0.021725	0.021309	-1.020	0.3107277078245571644
non_profit	-0.033070	0.039389	-0.840	0.4033951644124386116


```

chain          0.015984    0.013937    1.147 0.2545217964286534684
beds           -0.000166    0.000316   -0.525 0.6010052740345919187
occupancy_rate -0.003170    0.000327   -9.693 0.00000000000000013822 ***
pct_medicare   0.002643    0.000617    4.281 0.0000467921230007114 ***
pct_medicaid  -0.000268    0.000198   -1.357 0.1780681948629861122
cm_q_state_2   0.008082    0.004308    1.876 0.0639123251276493415 .
cm_q_state_3   0.018151    0.005255    3.454 0.0008469724053580174 ***
cm_q_state_4   0.031403    0.006142    5.113 0.0000018026851711486 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.275281      Adj. R2: 0.646924
                  Within R2: 0.009927

```

OUTCOME: cna_hppd (level)

```

OLS estimation, Dep. Var.: cna_hppd
Observations: 319,864
Fixed-effects: cms_certification_number: 3,824, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.036844    0.012505   -2.95 0.00410371997052062 **
government    -0.022153    0.020124   -1.10 0.27392914896003040
non_profit     0.107416    0.028694    3.74 0.00032125157740050 ***
chain         -0.039869    0.016040   -2.49 0.01480191856205844 *
beds          -0.001095    0.000403   -2.72 0.00790776294505930 **
occupancy_rate -0.003381    0.000390   -8.67 0.000000000000018417 ***
pct_medicare   0.001921    0.000666    2.88 0.00491625977069962 **
pct_medicaid  -0.000703    0.000216   -3.25 0.00160811292982906 **
cm_q_state_2   0.008402    0.006376    1.32 0.19094522151871524
cm_q_state_3   0.024006    0.008118    2.96 0.00397557585458451 **
cm_q_state_4   0.028461    0.011417    2.49 0.01451906223367671 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.555066      Adj. R2: 0.362644
                  Within R2: 0.003129

```

OUTCOME: cna_hppd (log)

```

OLS estimation, Dep. Var.: ln_cna
Observations: 319,617
Fixed-effects: cms_certification_number: 3,824, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.018444    0.006178   -2.99 0.003658918423173 **
government    -0.032681    0.013337   -2.45 0.016229285792125 *
non_profit     0.049441    0.015708    3.15 0.002240269978600 **
chain         -0.011730    0.006924   -1.69 0.093752098128296 .
beds          -0.000405    0.000182   -2.22 0.028724234423210 *

```

```

occupancy_rate -0.001218    0.000156    -7.81 0.000000000010597 ***
pct_medicare    0.000720    0.000313     2.30 0.023580005482810 *
pct_medicaid  -0.000448    0.000111    -4.03 0.000119333565175 ***
cm_q_state_2    0.009485    0.002308     4.11 0.000087723337076 ***
cm_q_state_3    0.019592    0.002792     7.02 0.000000000430007 ***
cm_q_state_4    0.024209    0.003531     6.86 0.000000000894002 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.159333      Adj. R2: 0.61453
                Within R2: 0.007853

```

OUTCOME: total_hppd (level)

```

OLS estimation, Dep. Var.: total_hppd
Observations: 319,864
Fixed-effects: cms_certification_number: 3,824, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.068463   0.017877   -3.83 0.000238444159 ***
government    -0.051938   0.022777   -2.28 0.024978414147 *
non_profit     0.147713   0.040589    3.64 0.000458254929 ***
chain         -0.055031   0.023737   -2.32 0.022723980735 *
beds          -0.002447   0.000647   -3.78 0.000281923137 ***
occupancy_rate -0.008510   0.000664  -12.82 < 2.2e-16 ***
pct_medicare   0.006573   0.001094    6.01 0.000000040406 ***
pct_medicaid -0.000663   0.000334   -1.99 0.050162728800 .
cm_q_state_2    0.005998   0.009991    0.60 0.549845019675
cm_q_state_3    0.028371   0.012969    2.19 0.031321784217 *
cm_q_state_4    0.049219   0.018262    2.70 0.008409931377 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.03583      Adj. R2: 0.296744
                Within R2: 0.004978

```

OUTCOME: total_hppd (log)

```

OLS estimation, Dep. Var.: ln_total
Observations: 319,716
Fixed-effects: cms_certification_number: 3,824, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.018433   0.005271   -3.50 0.000736112257816 ***
government    -0.025155   0.008525   -2.95 0.004051270573175 **
non_profit     0.048477   0.015478    3.13 0.002350507783514 **
chain         -0.007157   0.006126   -1.17 0.245797932016229
beds          -0.000608   0.000167   -3.64 0.000454128004208 ***
occupancy_rate -0.002112   0.000152  -13.94 < 2.2e-16 ***
pct_medicare   0.001594   0.000289    5.52 0.000000325173839 ***

```

```

pct_medicaid    -0.000285    0.000096    -2.96 0.003885618028213 **
cm_q_state_2     0.008250    0.001996     4.13 0.000080945302741 ***
cm_q_state_3     0.017168    0.002473     6.94 0.0000000000601111 ***
cm_q_state_4     0.024631    0.003199     7.70 0.000000000017801 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.144402      Adj. R2: 0.616556
                Within R2: 0.018218

```

SAMPLE: without_anticipation_II

[info] rows=322,446 | CCNs=3825

OUTCOME: rn_hppd (level)

```

OLS estimation, Dep. Var.: rn_hppd
Observations: 322,446
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

                Estimate Std. Error t value      Pr(>|t|)
post            -0.030635   0.006677  -4.5881 0.00001458398801388744 ***
government      -0.004236   0.010610  -0.3992 0.69068313571407657925
non_profit       0.033198   0.016038   2.0700 0.04134687870687033667 *
chain            0.001455   0.007020   0.2073 0.83626006419114007340
beds            -0.000941   0.000203  -4.6308 0.00001235960145969458 ***
occupancy_rate  -0.002095   0.000214  -9.7923 0.00000000000000086025 ***
pct_medicare     0.002235   0.000404   5.5294 0.000000031778827199336 ***
pct_medicaid    0.000073   0.000116   0.6261 0.53286655321843534594
cm_q_state_2     -0.002286   0.003045  -0.7509 0.45470688776745693538
cm_q_state_3     -0.000274   0.003920  -0.0698 0.94449591278834399422
cm_q_state_4     0.005554   0.005381   1.0322 0.30477920326608537449
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.398186      Adj. R2: 0.346861
                Within R2: 0.00246

```

OUTCOME: rn_hppd (log)

```

OLS estimation, Dep. Var.: ln_rn
Observations: 319,516
Fixed-effects: cms_certification_number: 3,824, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

                Estimate Std. Error t value      Pr(>|t|)
post            -0.097161   0.021021  -4.622 0.00001278056082 ***
government       0.007737   0.039536   0.196 0.84529390813240
non_profit       0.140185   0.046973   2.984 0.00366816855123 **
chain            0.024001   0.020633   1.163 0.24784555446185
beds            -0.001143   0.000410  -2.789 0.00647026364610 **
occupancy_rate  -0.003403   0.000471  -7.230 0.00000000016043 ***

```

```

pct_medicare      0.004498    0.000857    5.251 0.00000101956483 ***
pct_medicaid     0.000543    0.000336    1.617 0.10947664503425
cm_q_state_2      0.004503    0.006756    0.667 0.50680428515762
cm_q_state_3      0.013389    0.008292    1.615 0.10991120270006
cm_q_state_4      0.023718    0.010013    2.369 0.02001867384245 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.437379      Adj. R2: 0.67729
                  Within R2: 0.008359

```

OUTCOME: lpn_hppd (level)

```

OLS estimation, Dep. Var.: lpn_hppd
Observations: 322,446
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value   Pr(>|t|)
post          0.003797   0.008537   0.4448 0.657563094
government    -0.024185   0.012741  -1.8982 0.060911682 .
non_profit     0.007538   0.019931   0.3782 0.706177521
chain         -0.010627   0.009828  -1.0813 0.282503298
beds          -0.000437   0.000237  -1.8467 0.068108317 .
occupancy_rate -0.003047   0.000269 -11.3356 < 2.2e-16 ***
pct_medicare   0.002356   0.000527   4.4710 0.000022877 ***
pct_medicaid  -0.000037   0.000157  -0.2386 0.811994029
cm_q_state_2   -0.000071   0.003126  -0.0228 0.981848942
cm_q_state_3    0.004827   0.004000   1.2066 0.230771336
cm_q_state_4    0.015171   0.005181   2.9279 0.004332772 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.291551      Adj. R2: 0.450201
                  Within R2: 0.007266

```

OUTCOME: lpn_hppd (log)

```

OLS estimation, Dep. Var.: ln_lpn
Observations: 319,848
Fixed-effects: cms_certification_number: 3,815, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value   Pr(>|t|)
post          0.008263   0.012602   0.656 0.5137028599083879321
government    -0.020139   0.020951  -0.961 0.3390236921543933191
non_profit    -0.033898   0.038305  -0.885 0.3785667724714930626
chain          0.017203   0.013405   1.283 0.2027107027318675037
beds          -0.000170   0.000314  -0.543 0.5886743082436869390
occupancy_rate -0.003175   0.000329  -9.646 0.00000000000000017265 ***
pct_medicare   0.002587   0.000615   4.205 0.0000621320145237757 ***
pct_medicaid  -0.000289   0.000196  -1.473 0.1442187092733393516

```

```

cm_q_state_2    0.007627    0.004298    1.775 0.0793586546413336258 .
cm_q_state_3    0.018234    0.005235    3.483 0.0007711121208833037 ***
cm_q_state_4    0.031326    0.006129    5.112 0.0000018131781053564 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.275786      Adj. R2: 0.64573
                  Within R2: 0.009947

```

OUTCOME: cna_hppd (level)

```

OLS estimation, Dep. Var.: cna_hppd
Observations: 322,446
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.032954	0.011782	-2.80	0.006319978318976 **
government	-0.023725	0.019942	-1.19	0.237328112311117
non_profit	0.106173	0.028575	3.72	0.000353470658854 ***
chain	-0.034453	0.015445	-2.23	0.028213933703418 *
beds	-0.001128	0.000405	-2.78	0.006567091788443 **
occupancy_rate	-0.003387	0.000386	-8.78	0.000000000000107 ***
pct_medicare	0.001910	0.000664	2.88	0.004991331571283 **
pct_medicaid	-0.000697	0.000216	-3.23	0.001723938696902 **
cm_q_state_2	0.008904	0.006307	1.41	0.161505201547501
cm_q_state_3	0.025050	0.008001	3.13	0.002357570831234 **
cm_q_state_4	0.029240	0.011243	2.60	0.010893198241754 *

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.554047      Adj. R2: 0.363149
                  Within R2: 0.003156

```

OUTCOME: cna_hppd (log)

```

OLS estimation, Dep. Var.: ln_cna
Observations: 322,176
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.017301	0.005969	-2.90	0.0047193372567875 **
government	-0.033635	0.013384	-2.51	0.0137721046520601 *
non_profit	0.048890	0.016343	2.99	0.0035911581147954 **
chain	-0.009605	0.006851	-1.40	0.1644092093248678
beds	-0.000416	0.000183	-2.27	0.0256515873657276 *
occupancy_rate	-0.001221	0.000156	-7.84	0.00000000000092196 ***
pct_medicare	0.000725	0.000311	2.33	0.0219810349595158 *
pct_medicaid	-0.000447	0.000110	-4.05	0.0001084259072770 ***
cm_q_state_2	0.009892	0.002275	4.35	0.0000364124755143 ***
cm_q_state_3	0.020176	0.002767	7.29	0.0000000001206432 ***

```

cm_q_state_4    0.024742    0.003510    7.05 0.0000000003704139 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.161375      Adj. R2: 0.60848
                  Within R2: 0.007798

```

OUTCOME: total_hppd (level)

```

OLS estimation, Dep. Var.: total_hppd
Observations: 322,446
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.059792    0.016979  -3.522 0.000678955248 ***
government     -0.052146    0.022971  -2.270 0.025619579098 *
non_profit      0.146910    0.040943   3.588 0.000544066176 ***
chain          -0.043624    0.022712  -1.921 0.057964080101 .
beds           -0.002507    0.000651  -3.848 0.000223721464 ***
occupancy_rate -0.008529    0.000656 -13.001    < 2.2e-16 ***
pct_medicare    0.006502    0.001092   5.957 0.000000050431 ***
pct_medicaid  -0.000662    0.000333  -1.985 0.050260449934 .
cm_q_state_2    0.006547    0.009869   0.663 0.508826712461
cm_q_state_3    0.029603    0.012771   2.318 0.022741508808 *
cm_q_state_4    0.049965    0.017974   2.780 0.006634514347 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.03315      Adj. R2: 0.297252
                  Within R2: 0.005017

```

OUTCOME: total_hppd (log)

```

OLS estimation, Dep. Var.: ln_total
Observations: 322,276
Fixed-effects: cms_certification_number: 3,825, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

              Estimate Std. Error t value      Pr(>|t|)
post          -0.016770    0.005256  -3.191 0.0019593067541937 **
government     -0.025240    0.008615  -2.930 0.0043068973748133 **
non_profit      0.047457    0.016086   2.950 0.0040566283193262 **
chain          -0.003913    0.006097  -0.642 0.5226397672159808
beds           -0.000618    0.000168  -3.684 0.0003942823419307 ***
occupancy_rate -0.002110    0.000152 -13.904    < 2.2e-16 ***
pct_medicare    0.001576    0.000287   5.485 0.0000003827652615 ***
pct_medicaid  -0.000287    0.000095  -3.013 0.0033658687076001 **
cm_q_state_2    0.008538    0.001976   4.322 0.0000401919384830 ***
cm_q_state_3    0.017587    0.002453   7.169 0.0000000002121683 ***
cm_q_state_4    0.025019    0.003182   7.864 0.000000000082665 ***
---

```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 0.146807 Adj. R2: 0.608575
 Within R2: 0.0177

SCENARIO: baseline_nonchain_2017q1

SAMPLE: with_anticipation

[info] rows=246,632 | CCNs=2976

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 246,632

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.029372	0.008807	-3.335	0.0012452271181	**
government	-0.004571	0.011694	-0.391	0.6968096797295	
non_profit	-0.019269	0.016769	-1.149	0.2535928786563	
chain	-0.014973	0.011930	-1.255	0.2127451068947	
beds	-0.000893	0.000310	-2.879	0.0049989957652	**
occupancy_rate	-0.002529	0.000374	-6.771	0.0000000013213	***
pct_medicare	-0.000718	0.001710	-0.420	0.6756658853411	
pct_medicaid	-0.000274	0.000167	-1.644	0.1036319239108	
cm_q_state_2	-0.004001	0.007581	-0.528	0.5989892834815	
cm_q_state_3	-0.012221	0.020223	-0.604	0.5471650262589	
cm_q_state_4	-0.039601	0.058547	-0.676	0.5005394189340	

 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 RMSE: 3.54961 Adj. R2: 0.014457
 Within R2: 4.045e-5

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 243,757

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.064659	0.028629	-2.259	0.026355013311436	*
government	0.027265	0.042933	0.635	0.527024645180655	
non_profit	-0.027727	0.037546	-0.738	0.462164225805289	
chain	-0.035362	0.020793	-1.701	0.092506583743151	.
beds	-0.000738	0.000428	-1.725	0.087988001307469	.
occupancy_rate	-0.003869	0.000503	-7.698	0.000000000018001	***
pct_medicare	0.002413	0.000861	2.802	0.006233213908099	**
pct_medicaid	-0.000362	0.000388	-0.933	0.353165717313292	
cm_q_state_2	0.019323	0.007992	2.418	0.017645588512944	*

```

cm_q_state_3    0.038888    0.010305    3.774 0.000289530703363 ***
cm_q_state_4    0.064024    0.012415    5.157 0.000001504251353 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.45041      Adj. R2: 0.699542
                  Within R2: 0.007884

```

OUTCOME: lpn_hppd (level)

```

OLS estimation, Dep. Var.: lpn_hppd
Observations: 246,632
Fixed-effects: cms_certification_number: 2,976, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.000720	0.011239	-0.0640	0.949093161
government	-0.005907	0.015846	-0.3728	0.710190532
non_profit	0.001841	0.018434	0.0998	0.920690966
chain	-0.015975	0.008854	-1.8042	0.074575803 .
beds	-0.000143	0.000183	-0.7845	0.434821738
occupancy_rate	-0.002808	0.000245	-11.4538	< 2.2e-16 ***
pct_medicare	0.000348	0.000358	0.9712	0.334103941
pct_medicaid	-0.000195	0.000160	-1.2166	0.226970888
cm_q_state_2	0.004517	0.003002	1.5048	0.135923902
cm_q_state_3	0.009574	0.003490	2.7434	0.007353176 **
cm_q_state_4	0.021028	0.004574	4.5968	0.000014101 ***

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.275624      Adj. R2: 0.51553
                  Within R2: 0.006508

```

OUTCOME: lpn_hppd (log)

```

OLS estimation, Dep. Var.: ln_lpn
Observations: 244,389
Fixed-effects: cms_certification_number: 2,971, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	0.011292	0.016320	0.6919	0.490771312507388369
government	-0.009594	0.025569	-0.3752	0.708383996667715232
non_profit	-0.000485	0.033903	-0.0143	0.988622668243292368
chain	-0.027298	0.012571	-2.1716	0.032545767581928321 *
beds	0.000048	0.000412	0.1168	0.907286214761947152
occupancy_rate	-0.003513	0.000389	-9.0200	0.0000000000000034146 ***
pct_medicare	0.000318	0.000563	0.5639	0.574214189830545729
pct_medicaid	-0.000393	0.000270	-1.4553	0.149106480840821343
cm_q_state_2	0.010684	0.004958	2.1550	0.033864963045961392 *
cm_q_state_3	0.016429	0.005539	2.9661	0.003871580255339025 **
cm_q_state_4	0.030258	0.006923	4.3707	0.000033452452724753 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.284458 Adj. R2: 0.683207
Within R2: 0.009888

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 246,632

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.070703	0.020151	-3.5086	0.000708744341234 ***
government	-0.044211	0.030141	-1.4668	0.145961050513534
non_profit	-0.029168	0.030665	-0.9512	0.344084971965814
chain	-0.065804	0.014344	-4.5875	0.000014616958948 ***
beds	-0.000946	0.000349	-2.7099	0.008074282270968 **
occupancy_rate	-0.003116	0.000415	-7.4998	0.000000000045594 ***
pct_medicare	-0.000053	0.000738	-0.0718	0.942929634338686
pct_medicaid	-0.000766	0.000280	-2.7308	0.007617064991167 **
cm_q_state_2	0.015223	0.006307	2.4137	0.017841958807141 *
cm_q_state_3	0.036159	0.008297	4.3581	0.000035083353842 ***
cm_q_state_4	0.059456	0.009870	6.0239	0.000000037586057 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 1.22367 Adj. R2: 0.151247
Within R2: 8.127e-4

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 246,169

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.03089884	0.010755	-2.8731	0.00508168807587 **
government	-0.02993917	0.018396	-1.6275	0.10717002946853
non_profit	-0.01100842	0.013432	-0.8195	0.41466443148441
chain	-0.03441286	0.008002	-4.3007	0.00004350454195 ***
beds	-0.00040537	0.000144	-2.8118	0.00605984065809 **
occupancy_rate	-0.00130350	0.000212	-6.1560	0.00000002100307 ***
pct_medicare	0.00000596	0.000338	0.0176	0.98596921631293
pct_medicaid	-0.00031038	0.000150	-2.0707	0.04128780385309 *
cm_q_state_2	0.01035946	0.002967	3.4918	0.00074901232391 ***
cm_q_state_3	0.02306858	0.003607	6.3962	0.00000000720540 ***
cm_q_state_4	0.03244316	0.004437	7.3115	0.00000000010966 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.187185 Adj. R2: 0.635469
 Within R2: 0.007477

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 246,632

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.100795	0.028231	-3.570	0.000577428 ***
government	-0.054689	0.039994	-1.367	0.174931762
non_profit	-0.046597	0.043050	-1.082	0.282007713
chain	-0.096752	0.022868	-4.231	0.000056393 ***
beds	-0.001983	0.000569	-3.482	0.000772461 ***
occupancy_rate	-0.008453	0.000747	-11.315	< 2.2e-16 ***
pct_medicare	-0.000423	0.002028	-0.208	0.835377674
pct_medicaid	-0.001235	0.000398	-3.101	0.002581565 **
cm_q_state_2	0.015739	0.011415	1.379	0.171422430
cm_q_state_3	0.033512	0.023277	1.440	0.153467649
cm_q_state_4	0.040883	0.060500	0.676	0.500949955

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 3.86082 Adj. R2: 0.04402
 Within R2: 3.464e-4

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 246,341

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.023854	0.008481	-2.813	0.0060441327984983 **
government	-0.022421	0.013570	-1.652	0.1020050594639511
non_profit	-0.009018	0.011396	-0.791	0.4308310056022026
chain	-0.030348	0.006217	-4.881	0.0000045988802582 ***
beds	-0.000447	0.000132	-3.379	0.0010821315727689 **
occupancy_rate	-0.002201	0.000191	-11.504	< 2.2e-16 ***
pct_medicare	0.000341	0.000302	1.128	0.2624878815817178
pct_medicaid	-0.000302	0.000126	-2.401	0.0184475931369802 *
cm_q_state_2	0.009661	0.002639	3.661	0.0004263417711268 ***
cm_q_state_3	0.021028	0.003195	6.582	0.0000000031176891 ***
cm_q_state_4	0.033093	0.004041	8.188	0.0000000000017822 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.164704 Adj. R2: 0.647445
 Within R2: 0.015814

SAMPLE: without_anticipation_I

[info] rows=244,228 | CCNs=2976

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 244,228

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.034639	0.009724	-3.562	0.0005931906284 ***
government	-0.005032	0.012244	-0.411	0.6820693316831
non_profit	-0.020623	0.017169	-1.201	0.2328906078960
chain	-0.014680	0.011954	-1.228	0.2226743260385
beds	-0.000898	0.000314	-2.860	0.0052833422117 **
occupancy_rate	-0.002558	0.000382	-6.692	0.0000000018984 ***
pct_medicare	-0.000738	0.001741	-0.424	0.6724747810812
pct_medicaid	-0.000286	0.000170	-1.684	0.0956228384956 .
cm_q_state_2	-0.004294	0.007742	-0.555	0.5805265743883
cm_q_state_3	-0.012864	0.020556	-0.626	0.5330219215037
cm_q_state_4	-0.040912	0.059292	-0.690	0.4919860985376

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 3.567 Adj. R2: 0.014297

Within R2: 4.123e-5

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 241,420

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.082184	0.031081	-2.644	0.009678118126729 **
government	0.016862	0.043898	0.384	0.701812432884613
non_profit	-0.031708	0.038118	-0.832	0.407730043801424
chain	-0.033778	0.021127	-1.599	0.113408212917669
beds	-0.000750	0.000425	-1.763	0.081368622064427 .
occupancy_rate	-0.003889	0.000507	-7.669	0.00000000020688 ***
pct_medicare	0.002410	0.000869	2.774	0.006749059061638 **
pct_medicaid	-0.000386	0.000391	-0.989	0.325136690055969
cm_q_state_2	0.018700	0.007945	2.354	0.020792901538667 *
cm_q_state_3	0.037722	0.010255	3.678	0.000401590307007 ***
cm_q_state_4	0.061837	0.012340	5.011	0.000002726903215 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.448122 Adj. R2: 0.701492

Within R2: 0.008085

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 244,228

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.003704	0.012406	-0.2986	0.765950710
government	-0.002070	0.016270	-0.1272	0.899044968
non_profit	0.001682	0.018795	0.0895	0.928910296
chain	-0.017072	0.008997	-1.8975	0.061004617 .
beds	-0.000117	0.000180	-0.6499	0.517457025
occupancy_rate	-0.002843	0.000245	-11.6002	< 2.2e-16 ***
pct_medicare	0.000341	0.000363	0.9401	0.349724214
pct_medicaid	-0.000195	0.000162	-1.2048	0.231485988
cm_q_state_2	0.004692	0.002993	1.5678	0.120468814
cm_q_state_3	0.009281	0.003469	2.6756	0.008878103 **
cm_q_state_4	0.021310	0.004555	4.6784	0.000010266 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.276055 Adj. R2: 0.515712

Within R2: 0.006619

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn

Observations: 242,020

Fixed-effects: cms_certification_number: 2,971, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.008614	0.018278	0.47126	0.638606058739039861
government	-0.005178	0.026248	-0.19728	0.844061396186417956
non_profit	-0.000304	0.034744	-0.00874	0.993045660442356315
chain	-0.028693	0.012731	-2.25379	0.026664963225072072 *
beds	0.000088	0.000415	0.21155	0.832941719792319235
occupancy_rate	-0.003552	0.000390	-9.11425	0.0000000000000021788 ***
pct_medicare	0.000317	0.000573	0.55324	0.581488745634880844
pct_medicaid	-0.000380	0.000272	-1.39365	0.166894425398026264
cm_q_state_2	0.010937	0.004960	2.20514	0.030021899766164449 *
cm_q_state_3	0.016311	0.005522	2.95391	0.004013632216326801 **
cm_q_state_4	0.030970	0.006909	4.48229	0.000021907844277721 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.283391 Adj. R2: 0.685434

Within R2: 0.010139

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd

Observations: 244,228

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.082914	0.021950	-3.777	0.00028584351969 ***
government	-0.046798	0.031429	-1.489	0.14001768515545
non_profit	-0.035771	0.031333	-1.142	0.25666459232446
chain	-0.066317	0.014585	-4.547	0.00001710585051 ***
beds	-0.000926	0.000347	-2.671	0.00899318189484 **
occupancy_rate	-0.003192	0.000417	-7.653	0.00000000002227 ***
pct_medicare	-0.000111	0.000744	-0.149	0.88182916081225
pct_medicaid	-0.000813	0.000283	-2.877	0.00502767714562 **
cm_q_state_2	0.015522	0.006334	2.450	0.01622254686453 *
cm_q_state_3	0.036007	0.008353	4.311	0.00004188849136 ***
cm_q_state_4	0.059734	0.009949	6.004	0.00000004105685 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 1.22888 Adj. R2: 0.150479

Within R2: 8.413e-4

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 243,793

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.035529	0.011511	-3.087	0.00269953557177 **
government	-0.032518	0.018973	-1.714	0.09001837431677 .
non_profit	-0.013716	0.013665	-1.004	0.31823162588701
chain	-0.033579	0.008183	-4.104	0.00008992364796 ***
beds	-0.000397	0.000144	-2.750	0.00721981568197 **
occupancy_rate	-0.001338	0.000211	-6.340	0.00000000925848 ***
pct_medicare	-0.000038	0.000341	-0.112	0.91114893785403
pct_medicaid	-0.000333	0.000151	-2.203	0.03020028676721 *
cm_q_state_2	0.010525	0.002965	3.550	0.00061765031159 ***
cm_q_state_3	0.022967	0.003607	6.368	0.00000000818182 ***
cm_q_state_4	0.032616	0.004460	7.313	0.00000000010877 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.185854 Adj. R2: 0.639022

Within R2: 0.007738

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 244,228

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.121258	0.030867	-3.928	0.000168531	***
government	-0.053900	0.041210	-1.308	0.194264158	
non_profit	-0.054712	0.044052	-1.242	0.217506890	
chain	-0.098069	0.023084	-4.248	0.000052855	***
beds	-0.001941	0.000570	-3.404	0.000998903	***
occupancy_rate	-0.008593	0.000754	-11.395	< 2.2e-16	***
pct_medicare	-0.000508	0.002061	-0.247	0.805715184	
pct_medicaid	-0.001294	0.000401	-3.226	0.001756557	**
cm_q_state_2	0.015920	0.011543	1.379	0.171285798	
cm_q_state_3	0.032424	0.023608	1.373	0.173077141	
cm_q_state_4	0.040133	0.061261	0.655	0.514086028	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 3.87923 Adj. R2: 0.043711

Within R2: 3.544e-4

OUTCOME: total_hppd (log)

OLS estimation, Dep. Var.: ln_total

Observations: 243,961

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)	
post	-0.030153	0.009176	-3.286	0.0014552211239910	**
government	-0.019648	0.013826	-1.421	0.1587962161223396	
non_profit	-0.010527	0.011590	-0.908	0.3661826593546772	
chain	-0.029754	0.006189	-4.808	0.0000061680268784	***
beds	-0.000429	0.000133	-3.235	0.0017100452452281	**
occupancy_rate	-0.002234	0.000191	-11.711	< 2.2e-16	***
pct_medicare	0.000315	0.000306	1.029	0.3060719101543098	
pct_medicaid	-0.000318	0.000126	-2.515	0.0136922505474050	*
cm_q_state_2	0.010150	0.002569	3.952	0.0001552839863370	***
cm_q_state_3	0.021075	0.003144	6.704	0.0000000017944379	***
cm_q_state_4	0.033307	0.004012	8.302	0.0000000000010416	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.162167 Adj. R2: 0.654973

Within R2: 0.016627

SAMPLE: without_anticipation_II

[info] rows=245,417 | CCNs=2976

OUTCOME: rn_hppd (level)

OLS estimation, Dep. Var.: rn_hppd

Observations: 245,417

Fixed-effects: cms_certification_number: 2,976, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.033317	0.009242	-3.605	0.0005141633093 ***
government	-0.006392	0.011938	-0.535	0.5936896738464
non_profit	-0.020707	0.017000	-1.218	0.2264093748757
chain	-0.014800	0.012029	-1.230	0.2217793888303
beds	-0.000899	0.000312	-2.882	0.0049546873383 **
occupancy_rate	-0.002543	0.000378	-6.730	0.0000000015926 ***
pct_medicare	-0.000723	0.001731	-0.418	0.6769991223285
pct_medicaid	-0.000277	0.000168	-1.646	0.1032155770005
cm_q_state_2	-0.004005	0.007658	-0.523	0.6022946788408
cm_q_state_3	-0.012433	0.020353	-0.611	0.5428392481170
cm_q_state_4	-0.040143	0.058865	-0.682	0.4970421593371

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 3.55837 Adj. R2: 0.014376

Within R2: 4.097e-5

OUTCOME: rn_hppd (log)

OLS estimation, Dep. Var.: ln_rn

Observations: 242,582

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.081330	0.029471	-2.760	0.007023721235554 **
government	0.006698	0.042667	0.157	0.875622130725945
non_profit	-0.033852	0.037814	-0.895	0.373088587600636
chain	-0.034542	0.020899	-1.653	0.101898568006642
beds	-0.000737	0.000426	-1.730	0.087050724492663 .
occupancy_rate	-0.003859	0.000504	-7.658	0.000000000021712 ***
pct_medicare	0.002428	0.000865	2.808	0.006133470184081 **
pct_medicaid	-0.000370	0.000389	-0.952	0.343902940377021
cm_q_state_2	0.019494	0.007968	2.446	0.016394889737504 *
cm_q_state_3	0.038825	0.010320	3.762	0.000301350328936 ***
cm_q_state_4	0.063305	0.012396	5.107	0.000001848332330 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.449474 Adj. R2: 0.700279

Within R2: 0.008102

OUTCOME: lpn_hppd (level)

OLS estimation, Dep. Var.: lpn_hppd

Observations: 245,417

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.002219	0.011702	-0.190	0.850007047
government	-0.002869	0.016235	-0.177	0.860147946
non_profit	0.001872	0.018632	0.100	0.920178071
chain	-0.016621	0.008881	-1.871	0.064575149 .
beds	-0.000144	0.000184	-0.783	0.435705503
occupancy_rate	-0.002837	0.000245	-11.569	< 2.2e-16 ***
pct_medicare	0.000338	0.000361	0.935	0.352100032
pct_medicaid	-0.000195	0.000161	-1.212	0.228851190
cm_q_state_2	0.004422	0.002999	1.474	0.143908400
cm_q_state_3	0.009246	0.003467	2.667	0.009092978 **
cm_q_state_4	0.020907	0.004545	4.600	0.000013922 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.275822 Adj. R2: 0.515711
Within R2: 0.00659

OUTCOME: lpn_hppd (log)

OLS estimation, Dep. Var.: ln_lpn
Observations: 243,200
Fixed-effects: cms_certification_number: 2,971, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	0.010453	0.017083	0.6119	0.542175952392486948
government	-0.007420	0.026318	-0.2820	0.778634936961551727
non_profit	-0.001610	0.034824	-0.0462	0.963222333725083035
chain	-0.028014	0.012585	-2.2260	0.028539663383200700 *
beds	0.000064	0.000423	0.1517	0.879753582557584402
occupancy_rate	-0.003559	0.000392	-9.0873	0.000000000000024778 ***
pct_medicare	0.000313	0.000570	0.5499	0.583743192061268790
pct_medicaid	-0.000381	0.000270	-1.4123	0.161342121489433860
cm_q_state_2	0.010580	0.004973	2.1272	0.036167471843255590 *
cm_q_state_3	0.016180	0.005539	2.9209	0.004422099427726847 **
cm_q_state_4	0.030286	0.006896	4.3918	0.000030894780858647 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.283944 Adj. R2: 0.684373
Within R2: 0.010108

OUTCOME: cna_hppd (level)

OLS estimation, Dep. Var.: cna_hppd
Observations: 245,417
Fixed-effects: cms_certification_number: 2,976, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.077673	0.020842	-3.7268	0.000340255721819 ***

government	-0.048049	0.031050	-1.5475	0.125300870744256
non_profit	-0.032576	0.031018	-1.0503	0.296445435302167
chain	-0.066807	0.014383	-4.6449	0.000011696632853 ***
beds	-0.000964	0.000350	-2.7584	0.007050094679749 **
occupancy_rate	-0.003170	0.000416	-7.6169	0.000000000026351 ***
pct_medicare	-0.000070	0.000739	-0.0945	0.924927873677986
pct_medicaid	-0.000778	0.000281	-2.7701	0.006820842848736 **
cm_q_state_2	0.015306	0.006305	2.4278	0.017206179178114 *
cm_q_state_3	0.035772	0.008337	4.2908	0.000045135923048 ***
cm_q_state_4	0.059553	0.009917	6.0052	0.000000040793887 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 1.22625 Adj. R2: 0.150911

Within R2: 8.371e-4

OUTCOME: cna_hppd (log)

OLS estimation, Dep. Var.: ln_cna

Observations: 244,975

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.033921	0.010922	-3.1057	0.00254685395499 **
government	-0.033335	0.019047	-1.7502	0.08353720295433 .
non_profit	-0.012598	0.013541	-0.9304	0.35467538501063
chain	-0.033757	0.008021	-4.2088	0.00006118063812 ***
beds	-0.000414	0.000144	-2.8638	0.00522077962050 **
occupancy_rate	-0.001328	0.000212	-6.2735	0.00000001246780 ***
pct_medicare	-0.000011	0.000338	-0.0336	0.97324174237659
pct_medicaid	-0.000315	0.000150	-2.0973	0.03880035199921 *
cm_q_state_2	0.010323	0.002957	3.4906	0.00075195233385 ***
cm_q_state_3	0.022978	0.003612	6.3620	0.00000000839838 ***
cm_q_state_4	0.032673	0.004459	7.3279	0.00000000010158 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

RMSE: 0.186204 Adj. R2: 0.63805

Within R2: 0.007719

OUTCOME: total_hppd (level)

OLS estimation, Dep. Var.: total_hppd

Observations: 245,417

Fixed-effects: cms_certification_number: 2,976, year_month: 90

Standard-errors: Clustered (cms_certification_number & year_month)

	Estimate	Std. Error	t value	Pr(> t)
post	-0.113210	0.029301	-3.864	0.000211688 ***
government	-0.057309	0.040699	-1.408	0.162571467
non_profit	-0.051411	0.043712	-1.176	0.242677627

```

chain          -0.098228    0.022914   -4.287  0.000045821 ***
beds           -0.002007    0.000571   -3.515  0.000694603 ***
occupancy_rate -0.008550    0.000750  -11.396  < 2.2e-16 ***
pct_medicare   -0.000455    0.002049   -0.222  0.824769621
pct_medicaid  -0.001250    0.000400   -3.128  0.002381013 **
cm_q_state_2    0.015724    0.011460    1.372  0.173515932
cm_q_state_3    0.032585    0.023401    1.392  0.167247420
cm_q_state_4    0.040316    0.060808    0.663  0.509040038
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 3.87006      Adj. R2: 0.043867
                  Within R2: 3.534e-4

```

OUTCOME: total_hppd (log)

```

OLS estimation, Dep. Var.: ln_total
Observations: 245,143
Fixed-effects: cms_certification_number: 2,976, year_month: 90
Standard-errors: Clustered (cms_certification_number & year_month)

```

	Estimate	Std. Error	t value	Pr(> t)
post	-0.028441	0.008708	-3.266	0.00154886810215214 **
government	-0.021008	0.013750	-1.528	0.13007924349994973
non_profit	-0.010066	0.011516	-0.874	0.38441289294913239
chain	-0.029566	0.006123	-4.828	0.00000567897626831 ***
beds	-0.000450	0.000133	-3.389	0.00104642220094042 **
occupancy_rate	-0.002225	0.000192	-11.617	< 2.2e-16 ***
pct_medicare	0.000332	0.000303	1.097	0.27553168064827399
pct_medicaid	-0.000306	0.000126	-2.433	0.01699186811850637 *
cm_q_state_2	0.009997	0.002577	3.880	0.00019993483439642 ***
cm_q_state_3	0.021130	0.003159	6.689	0.00000000192474602 ***
cm_q_state_4	0.033336	0.004004	8.325	0.00000000000093366 ***

```

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Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
RMSE: 0.162464      Adj. R2: 0.653923
                  Within R2: 0.016534

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Done.