Online Appendix Table 1

Estimated model: $QM_{i,t} = \alpha + \beta t + \gamma P_i + \delta P_i t + \sum_i \phi_i D_i$

		Physical Restraints	Short-term Pain	Pressure Ulcers	ADLs	Infections
Coefficients (P-value)						
β	***Time***	-0.33 (0.000)	-0.05 (0.796)	-0.07 (0.282)	-0.11 (0.369)	-0.17 (0.086)
γ	***Post-publication (yes = 1)***	-1.19 (0.033)	-3.14 (0.007)	0.33 (0.412)	0.26 (0.738)	-0.68 (0.279)
δ	***Time *Post-publication***	0.09 (0.410)	0.12 (0.604)	0.05 (0.557)	0.07 (0.634)	0.18 (0.136)
α	***Constant***	9.95 (0.000)	26.41 (0.000)	8.55 (0.000)	16.54 (0.000)	15.92 (0.000)
Number of observations		5104	3824	5104	4936	5004
Number of nursing homes (fixed effects)		647	554	647	639	641
R-squared		0.79	0.71	0.63	0.49	0.58
Adjusted R-squared		0.75	0.66	0.58	0.42	0.52

Online Appendix Table 2

Estimated model: $QM_{it} = \alpha + \beta t + \gamma P_i + \delta_1 P_i N_i + \delta_2 P_i N_i^2 + \sum_i \phi_i D_i$

		Physical Restraints	Short-term Pain	Pressure Ulcers	ADLs	Infections
Coefficients (P-value)						
β	***Time***	-0.27 (0.000)	0.03 (0.802)	-0.04 (0.328)	-0.06 (0.404)	-0.06 (0.372)
γ	***Post-publication (yes = 1)***	-0.29 (0.426)	-2.28 (0.003)	0.52 (0.046)	0.95 (0.057)	0.28 (0.491)
δ_1	***Number of actions * Post-publication***	-0.37 (0.000)	-0.11 (0.632)	-0.00 (0.972)	-0.35 (0.013)	-0.14 (0.232)
δ_2	***Number of actions squared *Post-publication***	0.03 (0.000)	0.00 (0.934)	0.00 (0.910)	0.04 (0.003)	0.01 (0.181)
α	***Constant***	9.82 (0.000)	26.23 (0.000)	8.48 (0.000)	16.43 (0.000)	15.65 (0.000)
Number of observations		5104	3824	5104	4936	5004
Number of nursing homes (fixed effects)		647	554	647	639	641
R-squared		0.79	0.71	0.63	0.50	0.58
Adjusted R-squared		0.76	0.66	0.58	0.42	0.52

Online Appendix Table 3

Estimated model: $QM_{it} = \alpha + \beta t + \gamma P_i + \sum_{k=1}^{20} \delta_k P_i A_{ik} + \sum_i \phi_i D_i$

		Physical Restraints	Short-term Pain	Pressure Ulcers	ADLs	Infections
Coefficients (P-value)						
β	***Time***	-0.27 (0.000)	0.03 (0.815)	-0.04 (0.330)	-0.06 (0.400)	-0.05 (0.380)
γ	***Post-publication (yes = 1)***	-0.46 (0.196)	-2.57 (0.001)	0.67 (0.011)	1.17 (0.020)	0.49 (0.224)
δ_1	***Investigated reasons for scores * Post-publication***	-0.29 (0.387)	1.40 (0.048)	-0.23 (0.340)	-1.43 (0.002)	-0.65 (0.084)
δ_2	***Developed new care protocols * Post-publication***	-1.14 (0.003)	2.52 (0.004)	-0.50 (0.078)	0.84 (0.125)	0.35 (0.431)
δ_3	***Changed existing care protocols * Post-publication***	0.05 (0.898)	-2.13 (0.011)	0.47 (0.079)	0.26 (0.618)	0.17 (0.682)
δ_4	***Re-allocated staff from other activities to care related to this QM * Post-publication***	0.96 (0.137)	5.40 (0.004)	-0.16 (0.706)	1.25 (0.195)	1.06 (0.160)
δ_5	***Trained staff specifically for targeted QM * Post-publication***	1.06 (0.003)	-2.00 (0.009)	0.12 (0.657)	-0.46 (0.363)	-0.21 (0.605)
δ_6	***Changed medical director * Post-publication***	-7.12 (0.002)	-0.24 (0.955)	-3.58 (0.035)	-5.10 (0.114)	-1.51 (0.564)
δ_7	***Changed nursing director * Post-publication***	0.25 (0.712)	-1.67 (0.318)	1.36 (0.005)	1.82 (0.065)	0.21 (0.782)
δ_8	***Changed work organization to empower workers * Post-publication***	-0.30 (0.465)	-0.26 (0.772)	0.546 (0.073)	-0.083 (0.886)	0.48 (0.312)
δ_9	***Revised job descriptions * Post-publication***	1.12 (0.023)	0.22 (0.847)	-0.02 (0.951)	-0.35 (0.618)	-0.98 (0.079)

δ_{10}	***Hired more staff * Post-publication***	1.68 (0.003)	2.18 (0.112)	0.32 (0.439)	1.95 (0.018)	0.51 (0.437)
δ_{11}	***Contracted for more staff * Post-publication***	1.34 (0.218)	-0.54 (0.843)	-1.50 (0.057)	1.20 (0.437)	-2.27 (0.065)
δ_{12}	***Increased wages/benefits * Post-publication***	-1.57 (0.006)	-3.46 (0.013)	0.75 (0.073)	-0.29 (0.730)	1.16 (0.077)
δ_{13}	***Other initiatives to hire/retain staff * Post-publication***	-0.36 (0.500)	0.26 (0.816)	0.21 (0.600)	0.49 (0.525)	1.48 (0.018)
δ_{14}	***Increased private pay prices * Post-publication***	-3.25 (0.000)	-0.45 (0.793)	0.41 (0.448)	-1.88 (0.075)	-0.73 (0.386)
δ_{15}	***Started an organized quality improvement program * Post-publication***	0.93 (0.019)	-1.76 (0.054)	0.15 (0.597)	-0.14 (0.810)	0.46 (0.316)
δ_{16}	***Changed priorities of existing quality assurance or quality improvement program to focus on QMs * Post-publication***	-0.39 (0.221)	-0.15 (0.830)	-0.03 (0.911)	-0.20 (0.655)	-0.41 (0.256)
δ_{17}	***Changed the type of patient admitted * Post-publication***	0.91 (0.222)	8.49 (0.000)	0.29 (0.592)	0.59 (0.565)	1.40 (0.095)
δ_{18}	***Changed ownership * Post-publication***	8.50 (0.000)	-2.02 (0.593)	-0.82 (0.582)	1.20 (0.731)	-2.69 (0.275)
δ_{19}	***Requested help from the QIO * Post-publication***	-1.07 (0.002)	-0.73 (0.356)	-1.23 (0.000)	0.04 (0.935)	-0.64 (0.108)
δ_{20}	***Purchased new technology/equipment * Post-publication***	-0.43 (0.346)	0.02 (0.985)	0.48 (0.142)	0.03 (0.964)	-0.57 (0.266)
α	***Constant***	9.82 (0.000)	26.25 (0.000)	8.48 (0.000)	16.44 (0.000)	15.65 (0.000)

	Number of observations	5104	3824	5104	4936	5004
	Number of nursing homes (fixed effects)	647	554	647	639	641
	R-squared	0.79	0.72	0.64	0.50	0.58
	Adjusted R-squared	0.76	0.67	0.58	0.42	0.52