
APPENDICES

Appendix. Supplemental Tables: Resident Characteristics at Baseline: By Type of Facility

Table S.1. All Treatment, Control, and Other Remaining NYS Facilities

	Treatment Facilities (N = 14)			Control Facilities (N = 11)			All Other NYS Facilities (N = 609)		
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Outcomes									
Death in a hospital	2852	579	20.3	2978	441	14.8***	119 486	37 111	31.1***
Self-reported moderate-to-severe pain	1844	235	12.7	1851	218	11.8	78 176	6363	8.1***
Depressive symptoms	2768	358	12.9	2909	329	11.3	116 477	18 398	15.8***
	Sample Size	Mean	SD	Sample Size	Mean	SD	Sample Size	Mean	SD
No. of hospitalizations in the last 90 days	1907	0.34	0.69	1930	0.29*	0.62	74 055	0.44***	0.77
Risk Factors									
	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Length of stay									
Cumulative days in facility	2852	542.8	722.4	2978	508.6	665.3	119 486	532.1	762.7
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Cumulative days in facility is more than 100 days	2852	1844	64.7	2978	1874	62.9	119 486	70 734	59.2***
Demographic characteristics									
	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Age	2852	86.0	8.9	2978	86.2	9.0	119 486	84.7***	9.7
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Male	2852	1039	36.4	2978	1048	35.2	119 486	45 724	38.3*
White	2852	2710	95.0	2978	2774	93.2**	119 486	97 424	81.5***
African American	2852	108	3.8	2978	153	5.1*	119 486	14 650	12.3***
Hispanic	2852	1	0.04	2978	18	0.6*	119 486	3077	2.6***
Asian	2852	11	0.4	2978	11	0.4	119 486	2146	1.8***
Native-American/other/unknown	2852	22	0.8	2978	22	0.7	119 486	2188	1.8***

	Treatment Facilities (N = 14)			Control Facilities (N = 11)			All Other NYS Facilities (N = 609)		
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Married	2801	779	27.8	2931	777	26.5	117 711	29 301	24.9***
Needs and interpreter	2851	28	1.0	2978	32	1.1	119 373	7498	6.3***
Functioning	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Sum of activities of daily living (range: 0-40)	2852	30.7	6.9	2978	30.0***	6.7	119 486	31.9***	7.3
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Independence in daily decision making	2852	664	23.3	2978	694	23.3	119 486	27 897	23.4
Bladder/bowel function									
Catheter	2852	164 380	13.3	2978	335	11.3*	119 486	16 652	13.9
Incontinent	2765	2093	75.7	2907	2237	77.0	116 392	96 062	79.1***
Mood and behavior									
Potential indicators of psychosis	2768	147	5.3	2909	131	4.5	116 460	2727	2.3***
Verbally aggressive	2768	242	8.7	2909	294	10.1	116 469	7489	6.4***
Active diagnoses	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
No. diagnoses	2852	4.6	2.3	2978	4.2***	2.1	119,476	4.7**	2.3
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Any cardiovascular dx ^a	2852	2382	83.5	2978	2309	77.5***	119 486	101 528	85.0*
Any musculoskeletal dx	2852	252	8.8	2978	199	6.7**	119 486	7527	6.3***
Any neurological dx	2852	1832	64.2	2978	1976	66.4	119 486	77 787	65.1
Heart failure	2789	830	29.8	2917	870	29.8	115 659	33 560	29.0
Multidrug resistant organism	2789	89	3.2	2917	54	1.9***	115 659	2048	1.8***
Pneumonia	2852	248	8.7	2978	206	6.9*	119 486	10 703	9.0
Septicemia	2789	60	2.2	2917	41	1.4*	115 659	2784	2.4
Urinary tract infection	2852	355	12.5	2978	340	11.4	119 479	13 438	11.3*
Diabetes mellitus	2852	755	25.0	2978	752	25.3	119 486	38 872	32.5***

	Treatment Facilities (N = 14)			Control Facilities (N = 11)			All Other NYS Facilities (N = 609)		
	Denominator	Numerator	%	Denominator	Numerator	%	Denominator	Numerator	%
Alzheimer's disease	2789	270	9.7	2917	340	11.7*	115 659	12 719	11.0*
Non-Alzheimer's dementia	2789	1288	46.2	2917	1395	47.8	115 659	54 241	46.9
Asthma/chronic obstructive pulmonary disease/chronic lung dx	2852	687	24.1	2978	630	21.2**	119 486	33 151	27.7***
Health conditions									
Self-reported pain	2759	283	10.3	2904	295	10.2	116 316	8296	7.1***
Staff-assessed pain	2759	88	3.2	2904	94	3.2	116 316	2713	2.3
Vomiting	2768	109	3.9	2909	94	3.2	116 476	3324	2.9***
Internal bleeding	2852	2567	2.4	2978	39	1.3**	119 478	1456	1.2***
Swallowing and nutrition									
Any swallowing disorder	2852	267	9.4	2966	267	9.0	119 428	8168	6.8***
Feeding tube or IV feeding	2852	154	5.4	2975	174	5.9	119 475	16 992	14.2***
Weight loss without physician orders	2829	402	14.2	2935	482	16.4*	117 650	18 816	16.0**
Skin conditions									
Pressure ulcer (stage 2 or higher)	2852	356	12.5	2978	356	12.0	119 466	21 886	18.3***
Foot infection	2852	23	0.8	2978	21	0.7	119 470	1021	0.9
Diabetic foot ulcer	2852	13	0.5	2978	12	0.4	119 470	816	0.7
Open lesion	2852	85	3.0	2978	86	2.9	119 470	3046	2.6
Surgical wound	2852	150	5.3	2978	125	4.2	119 470	6516	5.5
Treatments									
Suctioning	2852	19	0.7	2977	63	2.1***	119 431	4146	3.5***
Ventilator	2852	2	0.1	2977	42	1.4***	119 431	2433	2.0***
Oxygen	2852	941	33.0	2977	776	26.1***	119 431	40 650	34.0
Dialysis	2852	59	2.1	2977	68	2.3	119 431	4026	3.4***
Tracheostomy	2789	15	0.5	2916	61	2.1***	115 604	3332	2.9***
Radiation	2852	5	0.2	2977	4	0.1	119 424	323	0.3

Note: Statistical significance is for comparison to treatment facilities: * P value < 0.05; ** P value < 0.01; *** P value < 0.001. ^a dx = diagnosis

Table S.2. Treatment Facilities With and Without Working PCTeams

	Facilities With Working PCTeams(N = 6)			Facilities With Nonworking PCTeams (N = 8)		
	Denominator	Numerator	%	Denominator	Numerator	%
Outcomes						
Death in a hospital	1256	244	19.4	1596	335	21.0
Self-reported moderate-to-severe pain	837	109	13.0	1007	126	12.5
Depressive symptoms	1226	165	13.5	1542	193	12.5
	Sample Size	Mean	SD	Sample Size	Mean	SD
No. of hospitalizations in the past 90 days	833	0.29	0.62	1074	0.38**	0.73
Risk Factors						
	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Length of Stay						
Cumulative days in facility	1256	574.8	740.4	1596	517.7*	707.0
	Denominator	Numerator	%	Denominator	Numerator	%
Cumulative days in facility is more than 100 days	1256	810	64.5	1596	1034	64.8
	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Demographic characteristics						
Age	1256	86.3	8.7	1596	85.9	9.1
	Denominator	Numerator	%	Denominator	Numerator	%
Male	1256	490	39.0	1596	549	34.4*
White	1256	1176	93.6	1596	1534	96.1**
African American	1256	59	4.7	1596	49	3.1*
Hispanic	1256	1	0.1	1596	0	0
Asian	1256	7	0.6	1596	4	0.3
Native-American/other/unknown	1256	13	1.0	1596	9	0.6
Married	1250	367	29.4	1551	412	26.6
Needs and interpreter	1256	25	2.0	1595	3	0.2***
	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Functioning						
Sum of activities of daily living (range: 0-40)	1256	30.4	6.4	1596	30.8	7.3
	Denominator	Numerator	%	Denominator	Numerator	%
Independence in daily decision making	1256	290	23.1	1596	374	23.4
	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
Bladder/bowel function						
Catheter	1256	164	13.1	1596	216	13.5
Incontinent	1224	912	74.5	1541	1181	76.6
Mood and behavior						

	Facilities With Working PCTeams(N = 6)			Facilities With Nonworking PCTeams (N = 8)		
	Denominator	Numerator	%	Denominator	Numerator	%
Potential indicators of psychosis	1226	97	7.9	1542	50	3.2***
Verbally aggressive	1226	107	8.7	1542	135	8.8
Active diagnoses	All Decedents With Data	Mean	SD	All Decedents With Data	Mean	SD
No. diagnoses	1256	4.6	2.5	1596	4.5	2.2
	Denominator	Numerator	%	Denominator	Numerator	%
Any cardiovascular dx ^a	1256	1031	82.1	1596	1351	84.7
Any musculoskeletal dx	1256	132	10.5	1596	120	7.5**
Any neurological dx	1256	825	65.7	1596	1007	63.1
Heart failure	1234	390	31.6	1555	440	28.3
Multidrug resistant organism	1234	48	3.9	1555	41	2.6
Pneumonia	1256	93	7.4	1596	155	9.7*
Septicemia	1234	26	2.1	1555	34	2.2
Urinary tract infection	1256	122	9.7	1596	233	14.6** *
Diabetes mellitus	1256	314	25.0	1596	441	27.6
Alzheimer's disease	1234	134	10.9	1555	136	8.8
Non-Alzheimer's dementia	1234	593	48.1	1555	695	44.7
Asthma/chronic obstructive pulmonary disease/chronic lung dx	1256	297	23.7	1596	390	24.4
Health conditions						
Self-reported pain	1220	128	10.5	1539	155	10.1
Staff-assessed pain	1220	33	2.7	1539	55	3.6
Vomiting	1226	42	3.4	1542	67	4.4
Internal bleeding	1256	25	2.0	1596	42	2.6
Swallowing and nutrition						
Any swallowing disorder	1256	169	13.5	1596	98	6.1***
Feeding tube or IV feeding	1256	88	7.0	1596	66	4.1***
Weight loss without physician orders	1248	149	11.9	1581	253	16.0**
Skin conditions						
Pressure ulcer (stage 2 or higher)	1256	142	11.3	1596	214	13.4
Foot infection	1256	10	0.8	1596	13	0.8
Diabetic foot ulcer	1256	4	0.3	1596	9	0.6
Open lesion	1256	48	3.8	1596	37	2.3*
Surgical wound	1256	79	6.3	1596	71	4.5*
Treatments						
Suctioning	1256	7	0.6	1596	12	0.8
Ventilator	1256	0	0	1596	2	0.1

	Facilities With Working PCTeams(N = 6)			Facilities With Nonworking PCTeams (N = 8)		
	Denominator	Numerator	%	Denominator	Numerator	%
Oxygen	1256	439	35.0	1596	502	31.5*
Dialysis	1256	26	2.1	1596	33	2.1
Tracheostomy	1234	7	0.6	1555	8	0.5
Radiation	1256	1	0.1	1596	4	0.3

Note: Statistical significance is for comparison to treatment facilities: * *P* value < 0.05; ** *P* value < 0.01; *** *P* value < 0.001.

^a dx = diagnosis