

**Technical Appendix**

The following tables describe the output of the regressions created in the 2015 NHATS database for each of the primary outcomes in this study. Negative binomial regressions were chosen because all three outcomes modelled counts of discrete events and coefficients are reported as incidence rate ratios. The NHATS sample was limited to individuals who received help with two or more ADLs during the survey year and were enrolled in fee-for-service Medicare.

Primary Study Results

*Negative Binomial Regression Output: Hospitalization Rate*

	<b>SCO 1</b>	<b>SCO 2</b>	<b>SCO 3</b>	<b>PACE</b>	<b>MMP</b>
Number of observations (NHATS)	493	493	493	493	399
F Statistics	F(13, 43) = 2.90 p = 0.00	F(12, 44) = 2.79 p = 0.01	F(10, 46) = 2.58 p = 0.01	F(13, 43) = 2.90 p = 0.01	F(7, 48) = 1.05 p = 0.41
Independent Variables (Incidence Rate Ratios)					
Age	1.01	1.01	1.01	1.01	1.00
Sex	0.84	0.85	0.90	0.84	0.97
Non-White	1.26	N/A	N/A	1.26	N/A
Education (High School Graduate or More)	1.81	1.72	N/A	1.81	N/A
Non-English Speaking	1.22	1.25	1.17	1.22	1.13
Lives in Residential Care	0.97	0.96	1.01	0.97	N/A
Lives Alone	0.91	0.90	0.85	0.91	N/A
Count of Chronic Conditions	1.11	1.11	N/A	1.11	1.14
Count of ADLs	1.02	1.02	1.01	1.02	1.05
Cognitive Impairment	0.63	0.64	0.60	0.63	0.74
Count of IADLs	1.16	1.16	1.15	1.16	N/A
Died During Survey Year	1.70	1.66	1.64	1.70	N/A
Medicaid Enrollee	1.43	1.51	1.37	1.43	1.24
Constant	0.09	0.11	0.34	0.09	0.25

*Negative Binomial Regression Output: ED Visit Rate*

	<b>SCO 1</b>	<b>SCO 2</b>	<b>SCO 3</b>	<b>PACE</b>	<b>MMP</b>
Number of observations (NHATS)	493	493	493	493	399
F Statistics	F(13, 43) = 2.42 p = 0.01	F(12, 44) = 2.60 p = 0.01	F(10, 46) = 1.91 p = 0.07	F(13, 43) = 2.42 p = 0.01	F(7, 48) = 1.74 p = 0.12
Independent Variables (Incidence Rate Ratios)					
Age	1.01	1.01	1.01	1.01	1.01
Sex	1.22	1.22	1.25	1.22	1.45
Non-White	1.06	N/A	N/A	1.06	N/A
Education (High School Graduate or More)	1.27	1.26	N/A	1.27	N/A
Non-English Speaking	1.43	1.43	1.41	1.43	1.34
Lives in Residential Care	1.47	1.46	1.48	1.47	N/A
Lives Alone	0.93	0.93	0.90	0.93	N/A
Count of Chronic Conditions	1.10	1.10	N/A	1.10	1.09
Count of ADLs	1.01	1.01	1.02	1.01	1.03
Cognitive Impairment	0.83	0.84	0.78	0.83	0.94
Count of IADLs	1.07	1.07	1.06	1.07	N/A
Died During Survey Year	1.05	1.05	1.07	1.05	N/A
Medicaid Enrollee	1.23	1.25	1.24	1.23	1.14
Constant	0.22	0.22	0.41	0.22	0.25

Negative Binomial Regression Output: SNF Admission Rate

	SCO 1	SCO 2	SCO 3	PACE	MMP
Number of observations (NHATS)	493	493	493	493	399
F Statistics	F(13, 43) = 3.50 p = 0.00	F(12, 44) = 3.55 p = 0.00	F(10, 46) = 2.54 p = 0.02	F(13, 43) = 3.50 p = 0.00	F(7, 48) = 3.10 p = 0.01
Independent Variables (Incidence Rate Ratios)					
Age	1.03	1.03	1.03	1.03	1.05
Sex	0.56	0.56	0.62	0.56	0.58
Non-White	0.99	N/A	N/A	0.99	N/A
Education (High School Graduate or More)	2.34	2.34	N/A	2.34	N/A
Non-English Speaking	0.73	0.73	0.73	0.73	0.70
Lives in Residential Care	1.12	1.12	1.15	1.12	N/A
Lives Alone	1.24	1.24	1.19	1.24	N/A
Count of Chronic Conditions	1.15	1.15	N/A	1.15	1.18
Count of ADLs	1.10	1.10	1.07	1.10	1.06
Cognitive Impairment	0.65	0.64	0.58	0.65	0.85
Count of IADLs	1.23	1.23	1.23	1.23	N/A
Died During Survey Year	1.18	1.19	1.23	1.18	N/A
Medicaid Enrollee	1.79	1.79	1.53	1.79	1.45
Constant	0.00	0.00	0.01	0.00	0.00

Sensitivity Analysis Including Variable for Hispanic Ethnicity

*Negative Binomial Regression Output: Hospitalization Rate*

	<b>SCO 1</b>	<b>PACE</b>	<b>MMP</b>
Number of observations (NHATS)	493	493	399
F Statistics	F(14, 42) = 2.63 p = 0.01	F(14, 42) = 2.63 p = 0.01	F(8, 47) = 1.29 p = 0.27
Independent Variables (Incidence Rate Ratios)			
Age	1.01	1.01	1.01
Sex	0.84	0.84	0.98
Non-White	1.46	1.46	N/A
Education (High School Graduate or More)	1.70	1.70	N/A
Non-English Speaking	1.30	1.30	1.25
Lives in Residential Care	0.95	0.95	N/A
Lives Alone	0.90	0.90	N/A
Count of Chronic Conditions	1.11	1.11	1.13
Count of ADLs	1.02	1.02	1.06
Cognitive Impairment	0.62	0.62	0.73
Count of IADLs	1.16	1.16	N/A
Died During Survey Year	1.65	1.65	N/A
Medicaid Enrollee	1.47	1.47	1.34
Hispanic	0.44	0.44	0.51
Constant	0.08	0.08	0.22

*Negative Binomial Regression Output: ED Visit Rate*

	<b>SCO 1</b>	<b>PACE</b>	<b>MMP</b>
Number of observations (NHATS)	493	493	399
F Statistics	F(14, 42) = 2.29 p = 0.02	F(14, 42) = 2.29 p = 0.02	F(8, 47) = 1.71 p = 0.12
Independent Variables (Incidence Rate Ratios)			
Age	1.01	1.01	1.01
Sex	1.23	1.23	1.47
Non-White	1.14	1.14	N/A
Education (High School Graduate or More)	1.24	1.24	N/A
Non-English Speaking	1.47	1.47	1.41
Lives in Residential Care	1.45	1.45	N/A
Lives Alone	0.93	0.93	N/A
Count of Chronic Conditions	1.10	1.10	1.09
Count of ADLs	1.02	1.02	1.04
Cognitive Impairment	0.83	0.83	0.93
Count of IADLs	1.07	1.07	N/A
Died During Survey Year	1.04	1.04	N/A
Medicaid Enrollee	1.24	1.24	1.20
Hispanic	0.71	0.71	0.68
Constant	0.21	0.21	0.23

*Negative Binomial Regression Output: SNF Admission Rate*

	<b>SCO 1</b>	<b>PACE</b>	<b>MMP</b>
Number of observations (NHATS)	493	493	399
F Statistics	F(14, 42) = 4.02 p = 0.00	F(14, 42) = 4.02 p = 0.00	F(8, 47) = 4.14 p = 0.00
Independent Variables (Incidence Rate Ratios)			
Age	1.04	1.04	1.05
Sex	0.55	0.55	0.57
Non-White	1.25	1.25	N/A
Education (High School Graduate or More)	2.28	2.28	N/A
Non-English Speaking	0.76	0.76	0.76
Lives in Residential Care	1.06	1.06	N/A
Lives Alone	1.24	1.24	N/A
Count of Chronic Conditions	1.14	1.14	1.16
Count of ADLs	1.10	1.10	1.06
Cognitive Impairment	0.64	0.64	0.86
Count of IADLs	1.24	1.24	N/A
Died During Survey Year	1.15	1.15	N/A
Medicaid Enrollee	1.90	1.90	1.67
Hispanic	0.28	0.28	0.29
Constant	0.00	0.00	0.00

Sensitivity Analysis Excluding Decedents

*Negative Binomial Regression Output: Hospitalization Rate*

	<b>SCO 1</b>	<b>SCO 2</b>	<b>SCO 3</b>
Number of observations (NHATS)	399	399	399
F Statistics	F(12, 43) = 1.92 p = 0.06	F(11, 44) = 1.72 p = 0.10	F(9, 46) = 0.94 p = 0.50
Independent Variables (Incidence Rate Ratios)			
Age	1.01	1.01	1.00
Sex	0.97	1.01	1.04
Non-White	1.53	N/A	N/A
Education (High School Graduate or More)	2.40	2.11	N/A
Non-English Speaking	1.19	1.25	1.13
Lives in Residential Care	0.93	0.91	0.93
Lives Alone	0.96	0.94	0.91
Count of Chronic Conditions	1.13	1.12	N/A
Count of ADLs	1.04	1.04	1.01
Cognitive Impairment	0.67	0.68	0.66
Count of IADLs	1.17	1.16	1.15
Medicaid Enrollee	1.33	1.48	1.29
Constant	0.06	0.08	0.39

*Negative Binomial Regression Output: ED Visit Rate*

	<b>SCO 1</b>	<b>SCO 2</b>	<b>SCO 3</b>
Number of observations (NHATS)	399	399	399
F Statistics	F(12, 43) = 3.40 p = 0.00	F(11, 44) = 3.55 p = 0.00	F(9, 46) = 2.28 p = 0.03
Independent Variables (Incidence Rate Ratios)			
Age	1.01	1.01	1.01
Sex	1.43	1.44	1.47
Non-White	1.13	N/A	N/A
Education (High School Graduate or More)	1.42	1.38	N/A
Non-English Speaking	1.45	1.46	1.41
Lives in Residential Care	1.51	1.49	1.48
Lives Alone	0.94	0.93	0.92
Count of Chronic Conditions	1.10	1.10	N/A
Count of ADLs	1.02	1.02	1.02
Cognitive Impairment	0.87	0.88	0.82
Count of IADLs	1.06	1.06	1.05
Medicaid Enrollee	1.21	1.26	1.21
Constant	0.17	0.18	0.39



*Negative Binomial Regression Output: SNF Admission Rate*

	<b>SCO 1</b>	<b>SCO 2</b>	<b>SCO 3</b>
Number of observations (NHATS)	399	399	399
F Statistics	F(12, 43) = 2.76 p = 0.01	F(11, 44) = 2.87 p = 0.01	F(9, 46) = 2.75 p = 0.01
Independent Variables (Incidence Rate Ratios)			
Age	1.05	1.05	1.04
Sex	0.55	0.55	0.62
Non-White	1.13	N/A	N/A
Education (High School Graduate or More)	2.53	2.47	N/A
Non-English Speaking	0.78	0.79	0.78
Lives in Residential Care	1.67	1.66	1.54
Lives Alone	1.11	1.10	1.11
Count of Chronic Conditions	1.19	1.19	N/A
Count of ADLs	1.06	1.06	1.00
Cognitive Impairment	0.72	0.72	0.67
Count of IADLs	1.25	1.25	1.26
Medicaid Enrollee	1.69	1.74	1.50
Constant	0.00	0.00	0.01