

**Supplemental Table 1: Results of Validity Tests for Discharge Destination (nursing home) as a Surrogate of (unfavorable) Outcome Defined by the MRS at 3 and 12 Months Under Various Assumptions by Age Group Strata  $\geq 65$** 

Discharge Destinations	Positive Predictive Value (%)			Negative Predictive Value (%)			Positive Likelihood Ratio (95% CI)			Negative Likelihood Ratio (95% CI)		
	MRS 2-6	MRS 3-6	MRS 4-6	MRS 2-6	MRS 3-6	MRS 4-6	MRS 2-6	MRS 3-6	MRS 4-6	MRS 2-6	MRS 3-6	MRS 4-6
Outcome Defined by the MRS at 3mo Under Various Assumptions												
Home	25	15	12	14	22	40	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.3)	3.8 (2.7-5.3)	3.1 (2.4-4.0)	2.1 (1.7-2.5)
Relative's/friend's home	44	39	22	36	45	57	0.5 (0.1-1.2)	0.5 (0.2-1.3)	0.4 (0.1-1.2)	1.05 (0.9-1.11)	1.0 (0.9-1.0)	1.1 (1.0-1.1)
Rehabilitation facility	89	78	55	54	62	68	4.5 (2.8-7.4)	3.0 (2.1-4.3)	1.7 (1.3-2.2)	0.5 (0.4-0.6)	0.5 (0.4-0.6)	0.6 (0.5-0.8)
Nursing home	96	94	86	43	53	67	14 (3.5-58)	14 (4.3-43)	8.8 (4.1-19)	0.77 (0.7-0.8)	0.7 (0.6-0.8)	0.7 (0.6-0.7)
Any nursing home discharge	90	82	64	72	82	87	5.7 (3.6-8.9)	4.00 (2.9-5.4)	2.5 (2.0-3.0)	0.2 (0.2-0.3)	0.1 (0.1-0.3)	0.2 (0.1-0.3)
Outcome Defined by the MRS at 12mo Under Various Assumptions												
Home	29	19	17	17	26	24	0.2 (0.1-0.3)	0.20 (0.1-0.3)	0.3 (0.2-0.4)	2.9 (2.2-4.0)	2.5 (2.0-3.2)	1.8 (1.5-2.2)
Relative's/friend's home	53	41	35	37	46	58	0.6 (0.2-1.6)	0.61 (0.2-1.5)	0.77 (0.2-2.0)	1.0 (0.9-1.1)	1.0 (0.9-1.0)	1.0 (0.9-1.0)
Rehabilitation facility	83	72	49	51	60	64	2.8 (1.8-4.1)	2.27 (1.6-3.1)	1.37 (1.0-1.8)	0.5 (0.4-0.6)	0.6 (0.5-0.7)	0.8 (0.6-0.9)
Nursing home	96	92	82	43	54	66	14 (3.4-56)	9.82 (3.6-27)	6.2 (3.2-12)	0.7 (0.7-0.84)	0.7 (0.6-0.8)	0.7 (0.6-0.8)
Any nursing home discharge	86	78	58	68	78	81	3.7 (2.5-5.3)	3.0 (2.3-4.0)	1.9 (1.6-2.4)	0.3 (0.2-0.4)	0.2 (0.2-0.3)	0.3 (0.2-0.4)

**Supplemental Table 2: Results of Validity Tests for Discharge Destination (nursing home) as a Surrogate of (unfavorable) Outcome Defined by the MRS at 3 and 12 Months Under Various Assumptions by Age Group Strata  $< 65$** 

Discharge Destinations	Positive Predictive Value (%)			Negative Predictive Value (%)			Positive Likelihood Ratio (95% CI)			Negative Likelihood Ratio (95% CI)		
	MRS 2-6	MRS 3-6	MRS 4-6	MRS 2-6	MRS 3-6	MRS 4-6	MRS 2-6	MRS 3-6	MRS 4-6	MRS 2-6	MRS 3-6	MRS 4-6
Outcome Defined by the MRS at 3mo Under Various Assumptions												
Home	30	22	19	11	28	60	0.3 (0.2-0.5)	0.3 (0.18-0.42)	0.3 (0.1-0.5)	6.3 (3.5-11)	3.8 (2.6-5.5)	2.5 (1.9-3.2)
Relative's/friend's home	67	67	0	45	69	79	1.6 (0.1-1)	3.0 (0.3-33)	0.0 (0.03-9.9)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	1.0 (0.9-1.1)
Rehabilitation facility	89	71	37	64	78	88	6.7 (3.4-13)	3.6 (2.4-5.5)	2.2 (1.61-3.09)	0.4 (0.3-0.5)	0.4 (0.3-0.5)	0.5 (0.3-0.7)
Nursing home	90	80	70	46	62	81	7.2 (0.9-56)	6.1 (1.3-28)	8.7 (2.3-3)	0.9 (0.8-0.9)	0.9 (0.8-0.9)	0.8 (0.7-0.9)
Any nursing home discharge	89	72	41	69	83	93	6.8 (3.61-13)	3.8 (2.6-5.6)	2.6 (2.0-3.4)	0.4 (0.3-0.5)	0.31 (0.21-0.45)	0.3 (0.1-0.5)
Outcome Defined by the MRS at 12mo Under Various Assumptions												
Home	30	19	10	20	40	69	0.4 (0.3-0.5)	0.4 (0.2-0.6)	0.5 (0.3-0.8)	3.7 (2.4-5.8)	2.5 (1.8-3.5)	1.8 (1.4-2.5)
Relative's/friend's home	50	50	0	48	63	81	0.9 (0.1-15)	1.7 (0.1-27)	0.00 (0.04-1)	1.00 (0.97-1.03)	0.9 (0.9-1.0)	1.0 (0.9-1.0)
Rehabilitation facility	81	59	27	66	76	86	3.9 (2.3-6.5)	2.4 (1.7-3.5)	1.6 (1.1-2.3)	0.49 (0.38-0.62)	0.5 (0.4-0.7)	0.7 (0.5-1.0)
Nursing home	80	70	60	50	65	83	3.7 (0.8-17)	3.9 (1.1-15)	6.4 (1.9-22)	0.94 (0.88-1.00)	0.9 (0.8-1.0)	0.8 (0.7-0.9)
Any nursing home discharge	81	60	31	70	80	90	3.9 (2.4-6.2)	2.5 (1.8-3.6)	1.9 (1.4-2.6)	0.4 (0.3-0.5)	0.4 (0.3-0.6)	0.5 (0.3-0.7)