

Title: Factors Associated with Functional Recovery Among Older ICU Survivors

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ONLINE DATA SUPPLEMENT

Table S1. Sensitivity of Significant Associations with Functional Recovery to Censoring under Assumptions of Missing at Random and Missing Not at Random					
Datasets Used in Model of Time to Functional Recovery within Six Months of ICU Admission (N=218* in each case)	Rate of Recovery Among 35 Decedents Censored by Death†	Hazard Ratios (<i>p</i> -value)			
		BMI	Self - Efficacy	Severe Hearing Impairment	Vision Impairment
All Person-Admissions with 35 decedents not imputed (results reported in manuscript)	0% among the 35 censored by death	1.07 (0.003)	1.05 (0.002)	0.38 (<0.001)	0.59 (0.031)
All 35 decedents set to non-recovery with censoring at six months	0% among the 35 censored by death	1.08 (<0.001)	1.05 (<0.001)	0.41 (<0.001)	0.58 (0.015)
MAR Imputations‡ of time to recovery and its occurrence	41% among the 35 censored by death	1.06 (0.021)	1.04 (0.008)	0.44 (0.005)	0.61 (0.032)
MNAR Imputations‡ of time to recovery and its occurrence (shift=0.8 and sigma=0.2)	55% among the 35 censored by death	1.06 (0.017)	1.04 (0.024)	0.47 (0.012)	0.61 (0.038)
MNAR Imputations‡ of time to recovery and its occurrence (shift=1.5 and sigma=0.5)	63% among the 35 censored by death	1.05 (0.029)	1.04 (0.021)	0.49 (0.012)	0.63 (0.049)
MNAR Imputations‡ of time to recovery and its occurrence (shift=2.0 and sigma=0.5)	69% among the 35 censored by death	1.05 (0.036)	1.03 (0.028)	0.50 (0.013)	0.62 (0.054)
All 35 decedents set to recovery at time of censoring by death	100% among the 35 censored by death	1.03 (0.118)	1.02 (0.077)	0.56 (0.015)	0.72 (0.114)

Abbreviations: MAR, missing at random; MNAR, missing not at random; ICU, intensive care unit

* The 218 ICU admissions were contributed by 186 participants.

† Among the 183 not censored by death, there was a fixed rate of recovery (62%) in all cases.

‡ Point estimates and *p*-values calculated with SAS PROC MIanalyze from ten imputations.

Table S2. Multivariable Associations of Potential Predictors of Functional Recovery Within Six Months of ICU Admission in Older Adults from All Admissions and First Admissions Only

Potential Predictor	Cause-Specific Proportional Hazards Models			
	All Admissions (N=218)		First Admissions (N=186)	
	HR (95% CI)	p-value	HR (95% CI)	p-value
Age (in years)	1.02 (0.97, 1.07)	0.454	1.00 (0.96, 1.05)	0.871
Female sex	0.59 (0.35, 0.99)	0.049	0.63 (0.40, 0.98)	0.042
Non-Hispanic white	1.24 (0.59, 2.63)	0.571	1.10 (0.58, 2.07)	0.778
Increase in Disability	0.80 (0.74, 0.88)	<0.001	0.82 (0.75, 0.89)	<0.001
Severe hearing impairment	0.38 (0.22, 0.66)	<0.001	0.39 (0.23, 0.67)	<0.001
Vision impairment	0.59 (0.37, 0.95)	0.031	0.64 (0.41, 0.98)	0.040
Body mass index, per unit increase	1.07 (1.03, 1.12)	0.003	1.06 (1.02, 1.10)	0.003
Functional self-efficacy, per point	1.05 (1.02, 1.08)	0.002	1.04 (1.01, 1.07)	0.006