

MURC Wave 3 PD151 Supplementals

Exploring the Association Between Discharge Destination on Stroke Patient Outcomes

Table 1. *Demographic & Baseline Characteristics*

	Total (N=9596)	Home (N=6979)	Relative's Home (N=268)	Residential Care (N=255)	Nursing Home (N=530)	Other Hospital Department (N=1564)
Sex						
Male	5437 (56.7%)	4187 (60.0%)	89 (33.2%)	103 (40.4%)	201 (37.9%)	857 (54.8%)
Female	4159 (43.3%)	2792 (40.0%)	179 (66.8%)	152 (59.6%)	329 (62.1%)	707 (45.2%)
Age (years)						
Mean (SD)	69.9 (11.8)	68.6 (11.7)	73.7 (12.4)	77.1 (10.8)	78.7 (8.54)	71.0 (11.4)
Systolic Blood Pressure (mmHg)						
Mean (SD)	160 (27.3)	160 (26.9)	162 (29.6)	162 (30.7)	162 (28.7)	159 (27.1)
Stroke Subtype¹						
LACS	2769 (28.9%)	2177 (31.2%)	64 (23.9%)	50 (19.6%)	74 (14.0%)	404 (25.8%)
OTH	41 (0.4%)	35 (0.5%)	1 (0.4%)	2 (0.8%)	0 (0%)	3 (0.2%)
PACS	4135 (43.1%)	3120 (44.7%)	129 (48.1%)	114 (44.7%)	203 (38.3%)	569 (36.4%)
POCS	1220 (12.7%)	958 (13.7%)	27 (10.1%)	24 (9.4%)	40 (7.5%)	171 (10.9%)
TACS	1431 (14.9%)	689 (9.9%)	47 (17.5%)	65 (25.5%)	213 (40.2%)	417 (26.7%)
6 Month Mortality Status						
Alive	8727 (90.9%)	6570 (94.1%)	236 (88.1%)	224 (87.8%)	387 (73.0%)	1310 (83.8%)
Dead	869 (9.1%)	409 (5.9%)	32 (11.9%)	31 (12.2%)	143 (27.0%)	254 (16.2%)
Probability of Death or Dependence at 6 Months						
Mean (SD)	0.556 (0.221)	0.511 (0.206)	0.644 (0.208)	0.706 (0.199)	0.782 (0.181)	0.643 (0.214)
Probability of Death at 14 Days						
Mean (SD)	0.0652 (0.0783)	0.0514 (0.0605)	0.0740 (0.0789)	0.0984 (0.100)	0.145 (0.125)	0.0929 (0.0963)
Probability of Death at 6 Months						
Mean (SD)	0.172 (0.156)	0.142 (0.128)	0.209 (0.161)	0.271 (0.187)	0.353 (0.211)	0.225 (0.180)

¹ Lacunar stroke (LACS), Other (OTH), Partial anterior circulation stroke (PACS), Posterior circulation syndrome (POCS), Total anterior circulation stroke (TACS)

Figure 2. Patient Characteristics: Histogram of Age

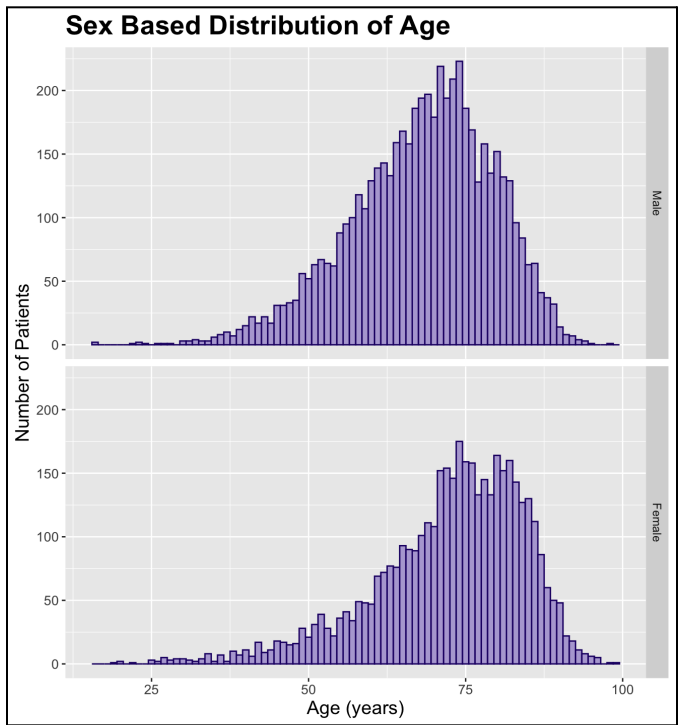


Figure 3. Treemap Visualization of Discharge Destination and 6 Month Mortality

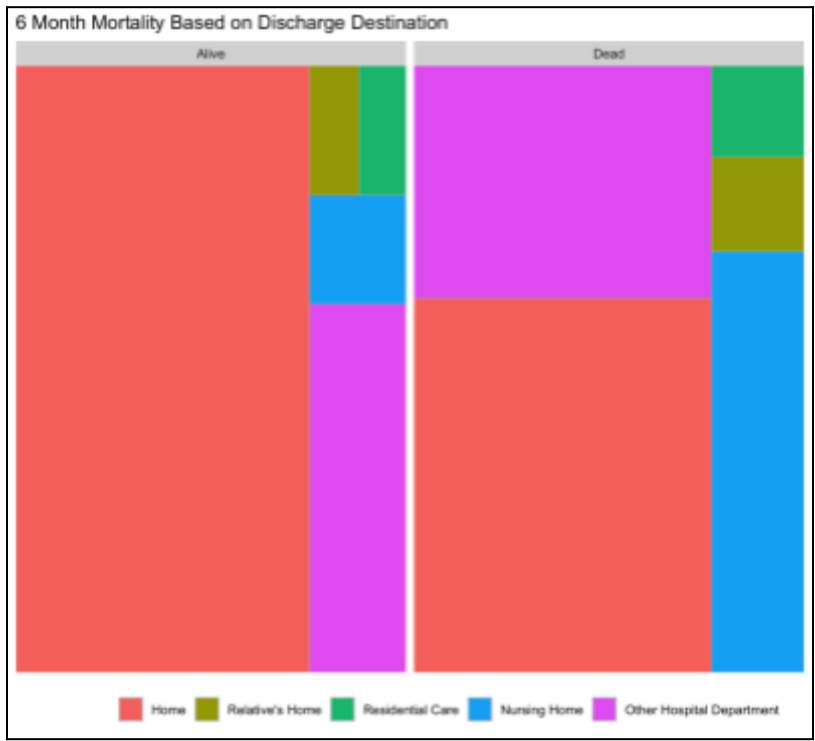


Figure 4. Initial Kaplan Meier (KM) Survival Curve by Discharge Destination

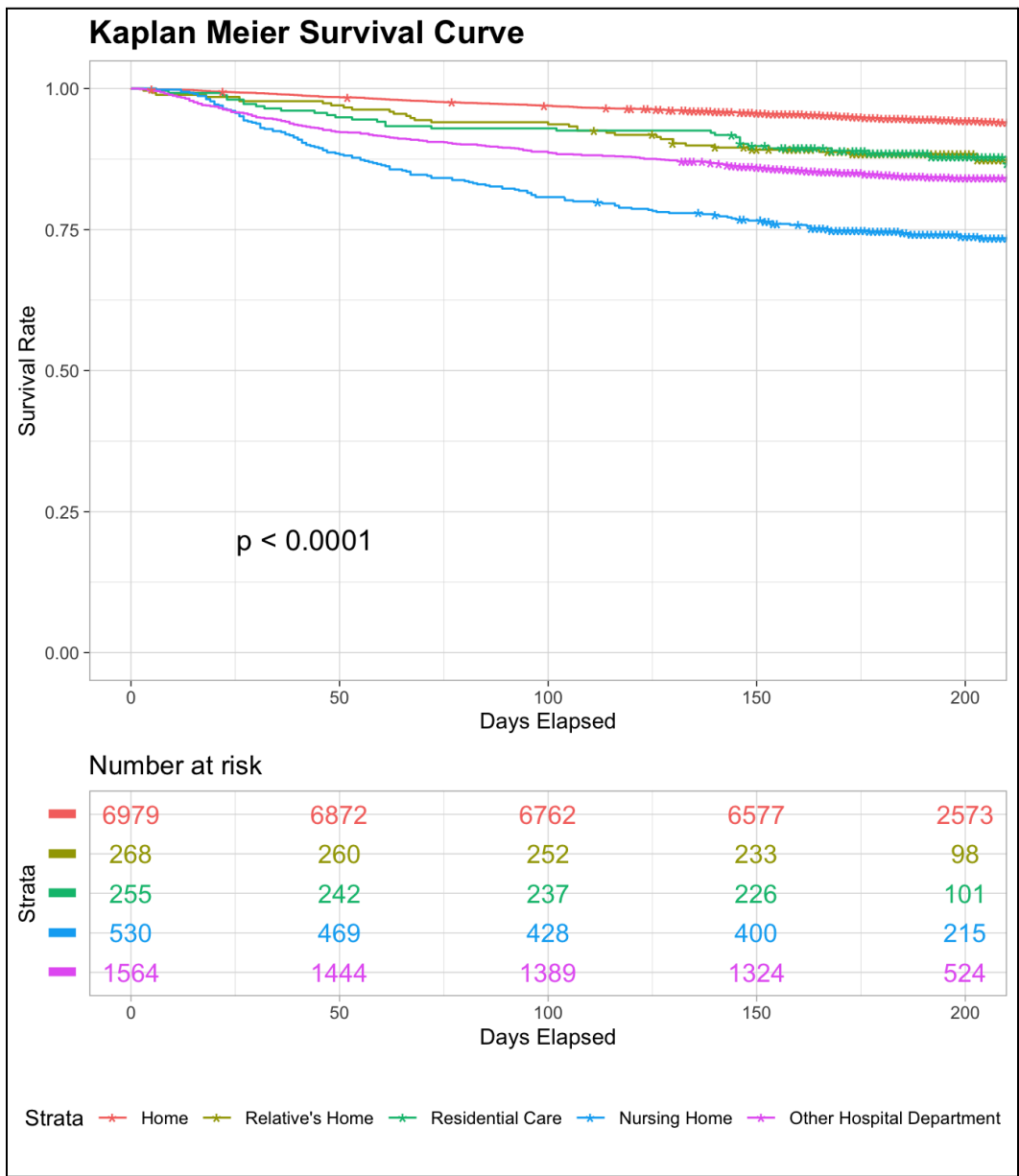


Figure 5. Forest Plot of Cox Proportional Hazards

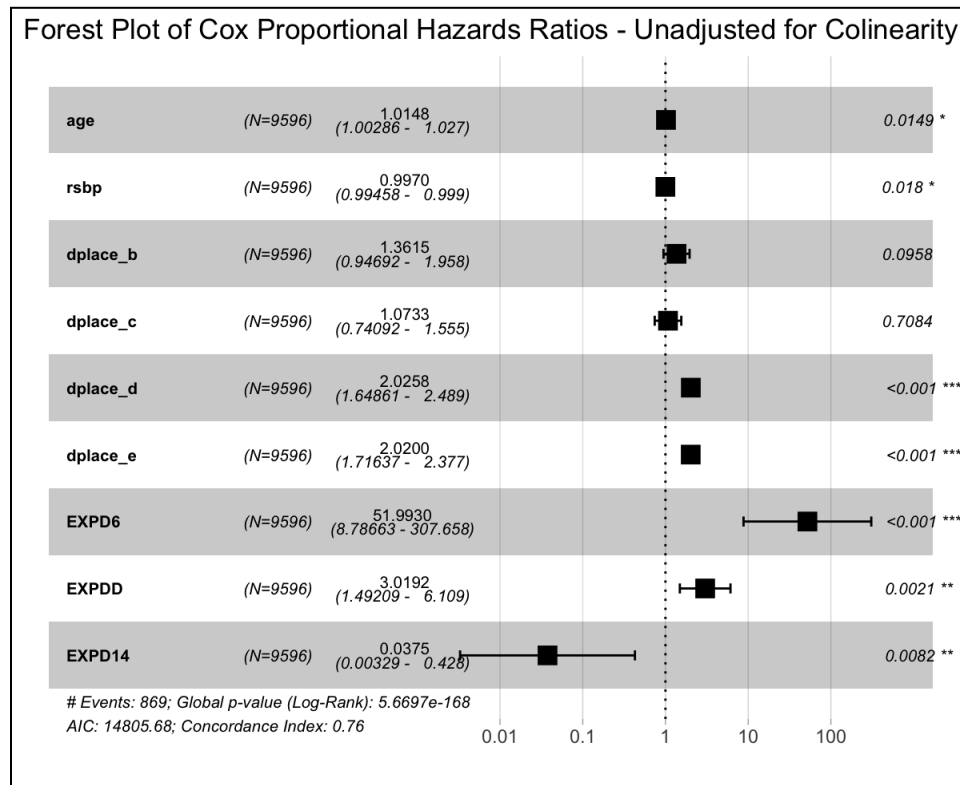


Table 2. Correlation of Trial Data Calculated Probability Values

	EXPD14	EXPDD	EXPD6
EXPD14	1	0.73819414	0.92771974
EXPDD	0.73819414	1	0.86104393
EXPD6	0.92771974	0.86104393	1

Figure 6. Forest Plot of Cox Proportional Hazards - Removed Variables Due to Collinearity

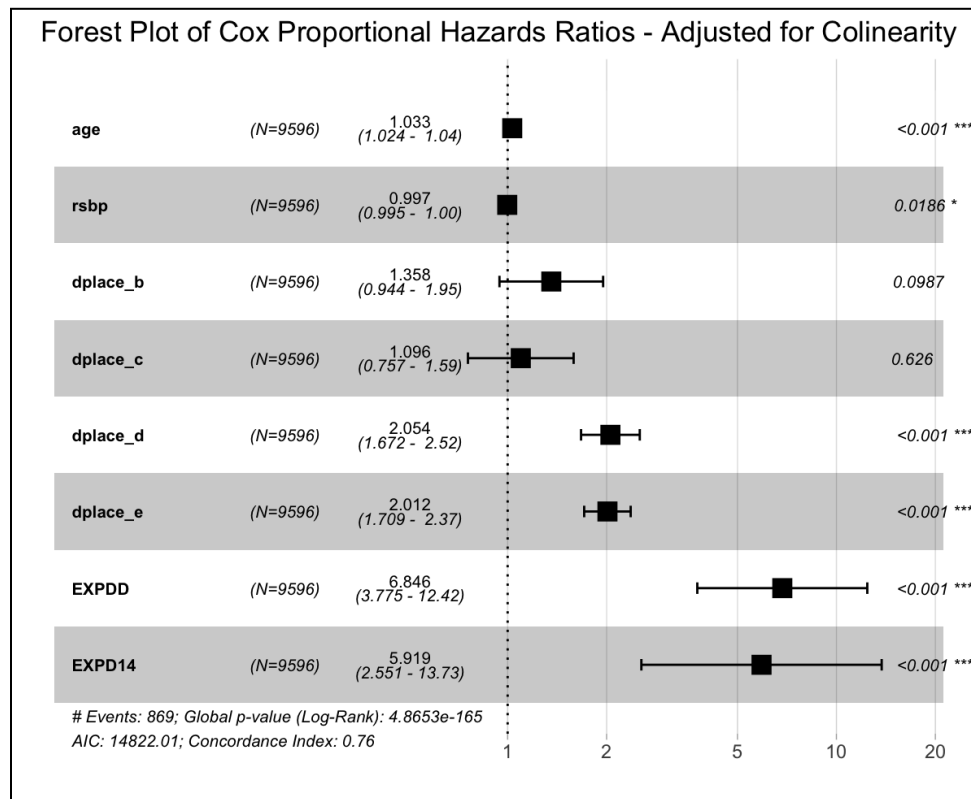


Table 3. Hazards ratios of Cox Regression Models

	<u>Unadjusted for Collinearity HR</u>		<u>Adjust for Collinearity HR</u>	
	<i>HR (95% CI)</i>	<i>P-value</i>	<i>HR (95% CI)</i>	<i>P-value</i>
Age	1.015 (1.003-1.027)	0.015	1.033 (1.024-1.041)	3.23E-13
Systolic Blood Pressure	0.997 (0.995-0.999)	0.018	0.997 (0.995-1.000)	0.019
Discharge Destination				
Relative's Home	1.362 (0.998-1.725)	0.096	1.358 (0.995-1.721)	0.099
Residential Care	1.073 (0.703-1.444)	0.708	1.096 (0.726-1.467)	0.626
Nursing Home	2.026 (1.820-2.232)	1.86E-11	2.054 (1.848-2.259)	6.86E-12
Other Hospital Dep.	2.020 (1.857-2.183)	2.65E-17	2.012 (1.849-2.174)	3.95E-17
Probability of Death or Dependence At 6 Month	51.993 (50.215-53.771)	1.33E-05	—	—
Probability of Death At 6 Months	3.019 (2.314-3.724)	0.002	6.846 (6.250-7.441)	2.40E-10
Probability of Death At 14 Days	0.038 (-2.396-2.471)	0.008	5.919 (5.077-6.760)	3.45E-05

Figure 7. *Survival Curve from Cox Model*

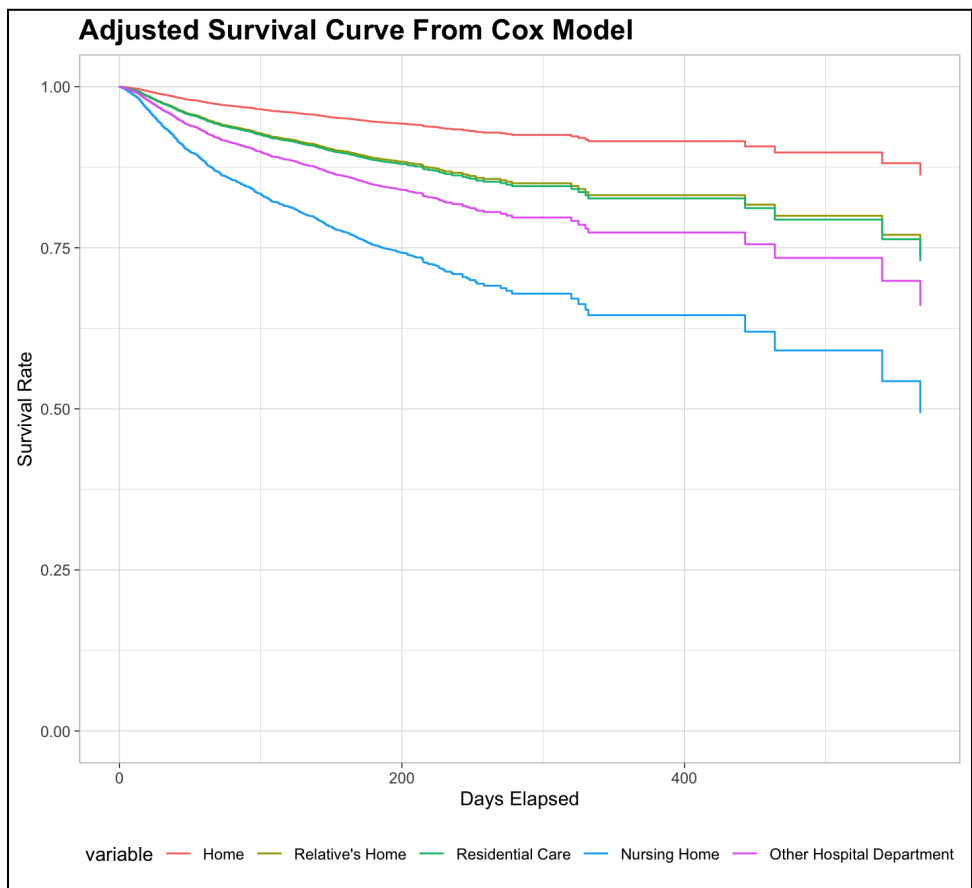


Figure 8. *Cox PH Assumption Schoenfeld Test*

