

## **Appendix: Supplemental Tables**

**Table A:** Univariate associations with pneumonia, obtained from chi-square analysis, that were used to determine which exposure variables would be entered into multivariate logistic regression. Variables having an association with pneumonia with p value of 0.10 or less (bolded) were included in the multivariable model.

<b>Characteristics</b>	<b>Relative Risk (95% Confidence Interval)</b>	<b>p value</b>
Age (years)		
< 60	1.0	--
60-75	1.4 (1.1 – 1.8)	<b>0.0202</b>
> 75	1.9 (1.5 – 2.5)	<b>&lt; 0.0001</b>
Male	1.3 (1.0 – 1.6)	<b>0.0348</b>
NIHSS (points)		
< 6	1.0	--
6 - 10	1.6 (1.1 – 2.4)	<b>0.0201</b>
11 - 15	2.7 (1.9 – 3.9)	<b>&lt;0.0001</b>
> 15	4.2 (3.1 – 5.5)	<b>&lt;0.0001</b>
Hemorrhagic stroke	1.3 (1.0 – 1.6)	<b>0.0326</b>
Mechanical ventilation during hospitalization	4.4 (3.5 – 5.4)	<b>&lt;0.0001</b>
History of prior stroke	0.8 (0.6 – 1.1)	0.1308
Coronary artery disease	1.5 (1.2 – 1.9)	<b>0.0004</b>
Atrial fibrillation	1.7 (1.4 – 2.2)	<b>&lt;0.0001</b>
Diabetes	0.7 (0.5 – 0.9)	<b>0.0114</b>
Heart failure	1.6 (1.0 – 2.5)	<b>0.0714</b>
Chronic obstructive pulmonary disease	1.6 (1.2 – 2.0)	<b>0.0016</b>
History of smoking	0.8 (0.6 – 1.0)	<b>0.0800</b>

**Table B:** Multivariable associations with pneumonia resulting from logistic regression model that includes age category, gender, NIHSS category, stroke type, mechanical ventilation, coronary artery disease, atrial fibrillation, diabetes, heart failure, chronic obstructive pulmonary disease, and history of smoking. Those characteristics having an association with pneumonia of 0.05 or less (bolded) were included in a final multivariable logistic regression.

<b>Characteristics</b>	<b>Odds ratio (95% confidence interval)</b>	<b>p value</b>
Age 60-75	1.1 (0.8 – 1.6)	<b>0.437</b>
Age over 75	1.9 (1.3 – 2.6)	<b>&lt;0.0001</b>
Male	1.6 (1.2 – 2.1)	<b>0.002</b>
NIHSS 6-10 points	1.5 (0.9 – 2.3)	0.100
NIHSS 11-15 pts	2.4 (1.5 – 3.8)	<b>&lt;0.0001</b>
NIHSS over 15 points	2.4 (1.6 – 3.5)	<b>&lt;0.0001</b>
Hemorrhagic stroke	1.1 (0.8 – 1.4)	0.682
Mechanical ventilation during hospitalization	4.8 (3.5 – 6.5)	<b>&lt;0.0001</b>
Coronary artery disease	1.5 (1.1 – 2.1)	<b>0.015</b>
Atrial fibrillation	1.4 (1.0 – 2.0)	<b>0.054</b>
Diabetes	0.7 (0.5 – 1.0)	<b>0.030</b>
Heart failure	1.2 (0.6 – 2.4)	0.623
Chronic obstructive pulmonary disease	1.5 (1.0 – 2.2)	<b>0.033</b>
History of smoking	0.9 (0.6 – 1.2)	0.459