Additional file 3 **Multivariate Logistic Regression Analysis with Backward Elimination of Factors that may be Associated with Anterior Circulation Infarction**

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| **Independent Variable** | | **OR (95% CI)** | ***P* value** |
|  | **ACh** | 0.230 (0.11-0.32) | 0.132 |
|  | **CRP** | 8.178 (1.092-23.948) | 0.461 |
|  | **Pneumonia** | 0.035 (0.003-0.042) | 0.185 |
|  | **NIHSS** | 5.482 (1.488-30.326) | 0.151 |
|  | **FIB** | 0.218 (0.145-0.468) | 0.237 |

ACh, acetylcholine; CRP, C-reactive protein; NIHSS, National Institutes of Health Stroke Scale;

FIB, fibrinogen.