

## Supplement File

## Appendix 1. Multivariable Logistic Regression Model for Complications

<b>Adjusted OR(95% CI) and P-value for each cofounders of Complication Outcome</b>		
	<b>Adjusted OR (95% CI)</b>	<b>Adjusted P value</b>
Age (per unit increase)	1.002(0.987-1.018)	0.7839
Oragnism(Staph. Aureus vs. Others)	1.035(0.755-1.418)	0.8323
Government Payer (Yes vs No)	1.097(0.865-1.392)	0.4442
Acute Infection (Active vs Treated)	1.177(0.815-1.698)	0.3846
WBC(per unit increase)	1.061(1.034-1.089)	<.0001
Hematocrit (per unit increase)	0.936(0.914-0.959)	<.0001
MELD Score (per unit increase)	1.107(1.075-1.140)	<.0001
Emergent Surgery Yes vs No	1.961(0.910-4.222)	0.0854
NYHA class > II (Yes vs No)	1.399(1.014-1.932)	0.0411
Tricuspid Valve Procedure		
Replacement vs Repair	0.991(0.771-1.275)	0.9453
Valvectomy vs Repair	0.860(0.504-1.467)	0.5799

Appendix 2. Hierarchical logistic regression model with a random intercept for site and P-value for Operative Mortality

<b>Adjusted OR(95% CL) from hierarchical model with a random intercept for site and P-value from Outcome=Operative Mortality</b>		
<b>Effect</b>	<b>Adjusted OR (95% CL)</b>	<b>Adjusted P value</b>
Age (per unit increase)	1.017(0.983-1.052)	0.3252
Oragnism(Staph. Aureus vs. Others)	0.685(0.339-1.384)	0.2909
Government Payer (Yes vs No)	1.113(0.606-2.045)	0.7302
Acute Infection (Active vs Treated)	1.126(0.405-3.128)	0.8203
WBC(per unit increase)	1.078(1.033-1.125)	0.0005
Hematocrit (per unit increase)	1.003(0.941-1.069)	0.9353
MELD Score (per unit increase)	1.033(0.984-1.084)	0.1935
Emergent Surgery Yes vs No	3.105(1.399-6.889)	0.0054
ECMO(Yes vs No)	16.548(4.545-60.252)	<.0001
NYHA class > II (Yes vs No)	1.117(0.563-2.218)	0.7516
Tricuspid Valve Procedure		
Replacement vs Repair	1.057(0.493-2.266)	0.8876
Valvectomy vs Repair	5.528(2.317-13.191)	0.0001
Hospital volume ( per unit increase)	0.944(0.897-0.994)	0.0276