**SUPPLEMENTAL DIGITAL CONTENT**

**Table S1. Potential confounders included in the logistic regression modeling based on forwards stepwise selection.**

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| **Biomarker** | **Outcome**  | **Confounders** |
| TIMP-1 | Mortality | APACHE III score |
| TIMP-1 | ARDS | APACHE III score, source of infection, age |
| TIMP-1 | AKI | APACHE III score, age, race, immunocompromised state |
| TIMP-1 | Shock | APACHE III score |
| MMP-3 | Mortality | APACHE III score, race |
| MMP-3 | ARDS | APACHE III score, age, source of infection |
| MMP-3 | AKI | APACHE III score, age, source of infection, immunocompromised state |
| MMP-3 | Shock | APACHE III score, race, source of infection |
| MMP-9 | Mortality | APACHE III score |
| MMP-9 | ARDS | APACHE III score, age, source of infection |
| MMP-9 | AKI | APACHE III score, age, race, source of infection, immunocompromised state |
| MMP-9 | Shock | APACHE III score, race, source of infection |
| TIMP-1/MMP-3 | Mortality | APACHE III score |
| TIMP-1/MMP-3 | ARDS | APACHE III score, age, source of infection |
| TIMP-1/MMP-3 | AKI | APACHE III score, age, race, source of infection, immunocompromised state |
| TIMP-1/MMP-3 | Shock | APACHE III score, race, source of infection |
| TIMP-1/MMP-9 | Mortality | APACHE III score, race |
| TIMP-1/MMP-9 | ARDS | APACHE III score, age, source of infection |
| TIMP-1/MMP-9 | AKI | APACHE III score, age, race, source of infection, immunocompromised state |
| TIMP-1/MMP-9 | Shock | APACHE III score, race |

*Definition of abbreviations*: APACHE Acute Physiology, Age, and Chronic Health Evaluation