**Supplementary material**

**Table S1** The 32 variables used to calculate propensity score in the logistic regression model

| Category                                  | Variables                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------|
| **Patient characteristics**               | 1) Age, 2) sex                                                            |
| **Illness severity**                      | 3) SIRS score, 4) SOFA score, 5) APACHE II score, 6) JAAM DIC score, 7) ISTH overt DIC score, 8) positive blood culture |
| **9) Source of ICU admission**            | Emergency department/ward/other hospital                                    |
| **Pre-existing condition**                | 10) Liver insufficiency, 11) chronic heart failure, 12) chronic respiratory disorder, 13) chronic hemodialysis, 14) immunocompromised |
| **New organ dysfunction**                 | 15) Respiratory, 16) cardiovascular, 17) renal, 18) hepatic, 19) coagulation |
| **20) ICU characteristics**              | Closed ICU/open ICU/other                                                   |
| **21) Primary source of infection**       | Abdomen/lung/urinary tract/bone+soft tissue/central nervous system/other+unknown |
| **22) Causal microorganisms**             | Gram-positive bacteria/Gram-negative bacteria/mixed organisms/other/unknown |
| **Anticoagulant therapy not for DIC**     | 23) Nafamostat mesilate for renal replacement therapy, 24) heparin for venous thromboembolism prophylaxis, 25) warfarin, 26) anti-platelet drugs, 27) others |
| **Other therapeutic interventions**       | 28) Immunoglobulin, 29) low-dose steroid, 30) renal replacement therapy, 31) PMX-DHP, 32) surgical intervention |

*SIRS* Systemic Inflammatory Response Syndrome; *SOFA* Sequential Organ Failure Assessment; *APACHE* Acute Physiology and Chronic Health Evaluation; *JAAM* Japanese Association for Acute Medicine; *DIC* disseminated intravascular coagulation; *ISTH* International Society on Thrombosis and Hemostasis; *ICU* intensive care unit; *PMX-DHP* polymyxin B direct hemoperfusion