**Supplementary Table 1: Characteristics of patients with ICU-acquired CRKP pneumonia.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variables** | **Total****(*n*=76)** | **With BSI** **(*n*=18)** | **Without BSI** **(*n*=58)** | **Statistics** | ***P* values** |
| Demographics Age (years)MaleSeverity at infection onset APACHE II score SOFA score Septic shockFeverUrinary tract infection Laboratory testsLeukocyte (×109/L)Neutrophil (×109/L)Lymphocyte (×109/L)Platelet (×109/L)PCT (ng/ml)CRP (mg/L)Outcome28-day mortality | 70.50 (62.25, 80.00)66 (86.8)15.00 (11.25, 21.00)5.00 (3.00, 9.75)42 (55.3)63 (82.9)12 (15.8)12.79 (10.48, 19.19)11.05 (8.25, 17.82)0.63 (0.33, 0.99)142.00 (70.00, 198.75)0.86 (0.25, 3.62)110.00 (35.48, 171.00)27 (35.5) | 67.00 (63.75, 74.75)17 (94.4)25.50 (17.75, 31.00)9.50 (6.75, 12.00)15 (83.3)18 (100.0)8 (44.4)18.69 (10.90, 28.07)16.56 (8.54, 25.86)0.37 (0.16, 0.77)57.50 (21.50, 93.50)2.72 (0.84, 10.56)131.50 (86.23, 231.00)14 (77.8) | 73.00 (61.50, 81.00)49 (84.5)13.00 (10.00, 18.00)4.00 (3.00, 7.00)27 (46.6)45 (77.6)4 (6.9)12.40 (10.30, 18.43)10.59 (8.01, 16.87)0.71 (0.35, 1.04)159.00 (96.25, 209.75)0.39 (0.25, 2.93)94.15 (26.43, 160.25)13 (22.4) | 445.50∗0.480†136.00∗219.00∗7.517†4.867†11.878†381.00∗364.00∗340.50∗178.00∗288.50∗326.00∗18.383† | 0.3500.488<0.001<0.0010.0060.0310.0010.0850.0540.027<0.0010.0110.025<0.001 |

Data are presented as *n* (%) or median (Q1, Q3). ∗*U* values; †*χ*2 values. ICU: Intensive care unit; CRKP: Carbapenem-resistant *Klebsiella* pneumoniae; BSI: Bloodstream infection; APACHE II: Acute physiology and chronic health evaluation II; SOFA: Sequential organ failure assessment; PCT: Procalcitonin; CRP: C-reactive protein.

**Supplementary Table 2: Univariate and multivariate analysis of risk factor associated with 28-day mortality among patients with ICU-acquired CRKP pneumonia.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variables** | **Univariate analysis****OR 95% CI**  | ***P***  |  **Multivariate analysis****OR 95% CI** | ***P***  |
| Age (years)Fever Septic shockUrinary tract infection ICU within 1 monthLeukocyte (×109/L)Neutrophil (×109/L)Lymphocyte (×109/L)Platelet (×109/L)PCT (ng/ml)APACHE II scoreSOFA scoreSecondary CRKP-BSI | 1.0193.61813.7783.0800.8681.0321.0450.0640.9891.0271.1431.27612.115 | 0.988-1.0500.739-17.7253.632-52.2700.871-10.8960.313-2.4060.984-1.0810.991-1.1030.013-0.3030.982-0.9960.989-1.0661.059-1.2341.108-1.4703.399-43.187 | 0.2330.113<0.0010.0810.7860.1920.1030.0010.0020.1660.0010.001<0.001 | 7.9550.0711.0040.9971.12110.308 | 1.406-45.0000.008-0.6250.995-1.0140.876-1.1340.907-1.3851.339-79.381 | 0.0190.0170.386 0.9620.2910.025 |

APACHE II: Acute physiology and chronic health evaluation II; BSI: Bloodstream infection; CI: Confidence interval; CRKP: carbapenem resistant *Klebsiella pneumoniae*; ICU: Intensive care unit; OR: Odds ratio; PCT: Procalcitonin; SOFA: Sequential organ failure assessment.



**Supplementary Figure 1:** Kaplan-Meier survival was used to estimate the 28-day survival rate. (A) Cumulative survival rate of patients with or without secondary CRKP-BSI. (B) Cumulative survival rate of patients with or without septic shock. (C) Cumulative survival rate of patients who received colistin-included therapy and those who received colistin-excluded therapy in NBSI group. (D) Cumulative survival rate of patients who received colistin-included therapy and those who received colistin-excluded therapy in BSI group. BSI: Bloodstream infection; CRKP: Carbapenem resistant *Klebsiella pneumoniae*; NBSI: Non-bloodstream infection.