SUPPLEMENTARY TABLE 1. Antibiotic susceptibilities of isolates in this study

| | Non-susceptible | | | | | | | |
|-------------------------|-------------------------|-------------------------|-----------------------------|---|---|---------------------------------------|--|--|
| | All patients (n=984) | ICU patients (n=205) | Non-ICU patients (n=779) | Received appropriate antibiotics (n=686) | Received inappropriate antibiotics (n=298) | ESBL-producing isolates (n=113) | | |
| Amikacin | 10% | 0% | 12% | 0% | 15% | 5% | | |
| Ampicillin | 100% | 100% | 100% | 100% | 100% | 100% | | |
| Amoxicillin/clavulanate | 19% | 19% | 19% | 8% | 52% | 100% | | |
| Cefazolin | 23% | 19% | 24% | 5% | 51% | 100% | | |
| Cefotaxime | 87% | 79% | 90% | 86% | 88% | 100% | | |
| Ceftazidime | 97% | 87% | 100% | 83% | 100% | 100% | | |
| Ceftriaxone | 77% | 50% | 84% | 50% | 84% | 100% | | |
| Cefuroxime | 23% | 24% | 22% | 7% | 60% | 100% | | |
| Cotrimoxazole | 26% | 31% | 24% | 16% | 51% | 76% | | |
| Ertapenem | 29% | 25% | 30% | 19% | 32% | 6% | | |
| Gentamicin | 8% | 6% | 8% | 4% | 16% | 35% | | |
| Levofloxacin | 14% | 11% | 14% | 6% | 30% | 38% | | |
| Meropenem | 6% | 50% | 5% | 0% | 8% | 4% | | |
| Piperacillin/tazobactam | 55% | 62% | 52% | 36% | 66% | 100% | | |
| Imipenem/cilastatin | 5% | 12% | 4% | 4% | 6% | 3% | | |
| Ticarcillin/clavulanate | 95% | 96% | 95% | 95% | 95% | 100% | | |

Abbreviations: ESBL = extended-spectrum beta-lactamase; ICU = intensive care unit

| Parameters | Total (n=205) | Appropriate empirical antibiotics (n=148) | Inappropriate or no empirical antibiotics (n=57) | P value |
|----------------------------|---------------------|--|--|---------|
| Age, y | 68.0 (58.0-78.0) | 67.5 (58.0-77.8) | 69.0 (58.5-79.5) | 0.491 |
| Age >65 y | 117 (57.1%) | 85 (57.4%) | 32 (56.1%) | 0.867 |
| Male sex | 132 (64.4%) | 97 (65.5%) | 35 (61.4%) | 0.579 |
| Admitting department | | | | 0.388 |
| Medicine | 116 (56.6%) | 79 (54.4%) | 37 (64.9%) | |
| Surgery | 68 (32.2%) | 52 (35.1%) | 16 (28.1%) | |
| Oncology | 3 (1.5%) | 3 (2.0%) | 0 | |
| Others | 18 (8.8%) | 14 (9.5%) | 4 (7.0%) | |
| Co-morbidities | | | | |
| Diabetes mellitus | 67 (32.7%) | 45 (30.4%) | 22 (38.6%) | 0.263 |
| Cirrhosis | 8 (3.9%) | 3 (2.0%) | 5 (8.8%) | 0.039 |
| CHF | 21 (10.2%) | 16 (10.8%) | 5 (8.8%) | 0.666 |
| CKD/ESRF | 20 (9.8%) | 8 (5.4%) | 12 (21.2%) | 0.001 |
| Haematological malignancy | 10 (4.9%) | 7 (4.7%) | 3 (5.3%) | 0.874 |
| Solid tumour | 50 (24.4%) | 41 (27.7%) | 9 (15.8%) | 0.075 |
| Steroid (30D) | 23 (11.2%) | 18 (12.2%) | 5 (8.8%) | 0.491 |
| Chemotherapy (30D) | 6 (2.9%) | 5 (3.4%) | 1 (1.8%) | 1.000 |
| Source of sepsis | | | | |
| Hepatobiliary | 88 (42.9%) | 69 (46.6%) | 19 (33.3%) | 0.085 |
| Gastrointestinal | 19 (9.3%) | 11 (7.4%) | 8 (14.0%) | 0.144 |
| Respiratory | 48 (23.4%) | 28 (18.9%) | 20 (35.1%) | 0.014 |
| Urosepsis | 30 (14.6%) | 23 (15.5%) | 7 (12.3%) | 0.554 |
| Musculoskeletal | 5 (2.4%) | 4 (2.7%) | 1 (1.8%) | 1.000 |
| Neurological | 1 (0.5%) | 1 (0.7%) | 0 | 1.000 |
| Others or unknown | 14 (6.8%) | 12 (8.1%) | 2 (3.5%) | 0.242 |
| CVC usage | 116 (56.6%) | 82 (55.4%) | 34 (59.6%) | 0.583 |
| Prior antibiotic use (30D) | 168 (82.0%) | 118 (79.7%) | 50 (87.7%) | 0.183 |
| Septic shock | 169 (82.4%) | 121 (81.8%) | 48 (84.2%) | 0.679 |
| Total SOFA score | 10.0 (7.00-13.00) | 9.0 (6.0-13.0) | 12.0 (8.0-14.0) | 0.016 |
| Supportive treatment | | | | |
| RRT | 68 (33.2%) | 48 (32.4%) | 20 (35.1%) | 0.718 |
| Mechanical ventilation | 123 (60.0%) | 76 (51.4%) | 47 (82.5%) | <0.001 |
| Vasopressor | 161 (78.5%) | 113 (76.4%) | 48 (84.2%) | 0.219 |
| Resistance | | | | |
| ESBL | 25 (12.2%) | 11 (7.4%) | 14 (24.6%) | 0.001 |
| Carbapenem | 3 (1.5%) | 1 (0.7%) | 2 (3.5%) | 0.188 |
| Outcome | . , | | . , | |
| 90-Day mortality | 71 (34.6%) | 37 (25.0%) | 34 (59.6%) | <0.001 |
| ICU mortality | 38 (18.5%) | 18 (12.2%) | 20 (35.1%) | < 0.001 |
| ICU LOS, d | 2.66 (1.36-6.78) | 2.58 (1.47-6.74) | 2.75 (1.03-7.13) | 0.379 |
| ICU ventilator days | 1.0 (0.00-5.00) | 1.0 (0.00-5.00) | 2.0 (1.0-4.0) | 0.026 |
| Hospital mortality | 66 (32.2%) | 34 (23.0%) | 32 (56.1%) | < 0.001 |
| Hospital LOS, d | 18.86 (10.09-42.93) | 19.62 (11.49-42.97) | 17.62 (4.12-45.06) | 0.209 |

SUPPLEMENTARY TABLE 2. Clinical characteristics and empirical antibiotics in ICU subgroup*

Abbreviations: CHF = congestive heart failure; CKD/ESRF = chronic kidney disease/end-stage renal failure; CVC = central venous catheter; ESBL = extended-spectrum beta-lactamase; ICU = intensive care unit; LOS = length of stay; RRT = renal replacement therapy (ie, intermittent or continuous replacement); SOFA = Sequential Organ Failure Assessment; Vasopressor = dopamine, adrenaline, noradrenaline

Data are presented as No. (%) or median (interquartile range)