**Supplementary Materials:** Variability in Forgoing Life-Sustaining Treatment Practices in Critically Ill Patients with Hospital-acquired Bloodstream Infections: a Secondary Analysis of the EUROBACT-2 International Cohort

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**Supplementary Table 1. Characteristics of Patients Who Died in the Hospital with Hospital-acquired bloodstream infection: Center, Patient, and Pathogen Factors Stratified by Decisions to Forgo Life-Sustaining Treatment**

|  |  |  |  |
| --- | --- | --- | --- |
| N=519 | Death without decision to forgo life-sustaining treatmentN=328 | Death following a decision to forgo life-sustaining treatmentN=191 | p-value |
| Country/Center factors |
| Region, n(%)Americas1Asia2Europe3Middle East4Africa5Oceania6 | 8 (2.4%)59 (18%)138 (42.1%)68 (20.7%)51 (15.5%)4 (1.2%) | 9 (4.7%)51 (26.7%)113 (59.1%)5 (2.6%)0 (0%)13 (6.8%) | <0.01 |
| Current Health Expenditure as a Share of Gross Domestic Product (%), median (IQR) | 6.1 (5.3-7.8) | 9.9 (6.7-11.1) | <0.01 |
| Income of the country7, n(%)High incomeLow incomeLower-middle incomeUpper-middle income | 139 (42.4%)3 (0.9%)54 (16.5%)132 (40.2%) | 165 (86.4%)01 (0.5%)25 (13.1%) | <0.01 |
| Academic status of the Hospital, n(%)Teaching HospitalNon-teaching Hospital | 283 (86.3%)45 (13.7%) | 161 (84.3%)30 (15.7%) | 0.6 |
| ICU8 funding, n(%)MixedPrivatepublic | 8 (2.4%)47 (14.3%)273 (83.2%) | 7 (3.4%)23 (12%)161 (84.3%) | 0.6 |
| ICU8 type, n(%)MedicalMixedSurgical | 40 (12.2%)260 (79.3%)28 (8.5%) | 40 (20.9%)130 (68.1%)21 (11%) | 0.01 |
| Structure of the ICU8Open ICU, n(%)Closed ICU, n (%) | 101 (30.8%)227 (69.2%) | 40 (21.1%)150 (78.9%) | 0.02 |
| Patients per nurse ratio, median (IQR) | 2.3 (1.8-3) | 2 (1.1-2.9) | <0.01 |
| Patient factors |
| Age, median (IQR) | 64 (51-75) | 67 (58-76) | 0.047 |
| Sex, female, n(%) | 132 (40.2%) | 72 (37.7%) | 0.6 |
| Charlson Comorbidity Index, median (IQR) | 2 (1-4) | 2 (1-5) | 0.9 |
| Type of admission, n(%)MedicalSurgical electiveSurgical emergency | 241 (73.5%)26 (7.9%)61 (18.6%) | 144 (75.4%)13 (6.8%)34 (17.8%) | 0.9 |
| Diagnosis of admission, n(%)Cardiovascular diseaseRespiratory diseaseOtherNeurological diseaseAbdominal diseasePost-operative careSeptic shock | 32 (9.8%)70 (21.3%)58 (17.7%)91 (27.7%)13 (4%)59 (18%)5 (1.5%) | 16 (8.4%)43 (22.5%)32 (16.8%)70 (36.7%)2 (1.1%)25 (13.1%)3 (1.6%) | 0.18 |
| Source of the BSI9, n(%)PrimaryCatheter-relatedRespiratoryAbdominalUrinarySkinOther | 30 (9.2%)46 (14%)85 (25.9%)64 (19.5%)42 (12.8%)28 (8.5%)33 (10.1%) | 21 (11%)28 (14.7%)37 (19.4%)58 (30.4%)19 (10%)16 (8.4%)12 (6.3%) | 0.07 |
| SOFA10 on admission, median (IQR) | 11 (8-14) | 10 (7-13) | 0.7 |
| SAPSII11 on admission, median (IQR) | 49 (38-63) | 54 (44-69) | <0.01 |
| GCS12 on admission, median (IQR) | 13 (8-15) | 13 (6-15) | 0.16 |
| Mechanical ventilation on ICU8 admission, n(%) | 213 (65.1%) | 127 (66.5%) | 0.8 |
| Dialysis during ICU8, n(%) | 48 (14.6%) | 38 (19.9%) | 0.1 |
| Source control, n(%)-Not required-Required and completed-Required and not completed | 157 (47.9%)115 (25.1%)56 (17.1%) | 91 (47.6%)71 (37.2%)29 (15.2%) | 0.8 |
| Antibiotic was stopped as part of the for withdrawal of care, n(%) | 24 (11.1%) | 79 (48.5%) | <0.01 |
| Infectious factors |
| Gram-positive, n(%) | 98 (29.9%) | 61 (31.9%) | 0.6 |
| Gram-negative, n(%) | 203 (61.9%) | 113 (59.2%) | 0.6 |
| Fungus, n(%) | 42 (12.8%) | 23 (12%) | 0.9 |
| Polymicrobial, n(%) | 32 (9.76%) | 19 (9.9%) | 0.9 |

1 Americas Region: Canada, Mexico, Argentina; 2 Asia Region: China, India, Japan, South Korea, Malaysia, Singapore, Thailand, Taiwan, Bangladesh; 3 Europe Region: Belgium, Germany, Spain, France, United Kingdom, Greece, Croatia, Italy, Poland, Portugal, Romania, Russia, Switzerland, Ireland, Sweden; 4 Middle East Region: Iran, Qatar, United Arab Emirates, Iraq, Israel, Lebanon, Saudi Arabia, Syria; 5 Africa Region: Egypt, Libya, Morocco, Tunisia, Niger, Sudan, South Africa; 6 Oceania Region: Australia; 7 based on the World Bank Income Classifications; 8ICU, Intensive Care Unit; 9BSI, Bloodstream Infection;10SOFA, Sequential Organ Failure Assessment; 11SAPSII, Simplified Acute Physiology Score II; 12GCS: Glasgow Coma Scale

**Supplementary Figure 1. Consort Diagram**



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