**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 treatment  N=328 | Death following a decision to forgo life-sustaining treatment  N=191 | p-value |
| Country/Center factors | | | |
| Region, n(%)  Americas1  Asia2  Europe3  Middle East4  Africa5  Oceania6 | 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 income  Low income  Lower-middle income  Upper-middle income | 139 (42.4%)  3 (0.9%)  54 (16.5%)  132 (40.2%) | 165 (86.4%)  0  1 (0.5%)  25 (13.1%) | <0.01 |
| Academic status of the Hospital, n(%)  Teaching Hospital  Non-teaching Hospital | 283 (86.3%)  45 (13.7%) | 161 (84.3%)  30 (15.7%) | 0.6 |
| ICU8 funding, n(%)  Mixed  Private  public | 8 (2.4%)  47 (14.3%)  273 (83.2%) | 7 (3.4%)  23 (12%)  161 (84.3%) | 0.6 |
| ICU8 type, n(%)  Medical  Mixed  Surgical | 40 (12.2%)  260 (79.3%)  28 (8.5%) | 40 (20.9%)  130 (68.1%)  21 (11%) | 0.01 |
| Structure of the ICU8  Open 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(%)  Medical  Surgical elective  Surgical 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 disease  Respiratory disease  Other  Neurological disease  Abdominal disease  Post-operative care  Septic 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(%)  Primary  Catheter-related  Respiratory  Abdominal  Urinary  Skin  Other | 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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Description générée automatiquement

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