Epidemiology and Infection

The updated Charlson comorbidity index is a useful predictor of mortality in patients with *Staphylococcus aureus* bacteraemia.

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Supplementary Material

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| Supplementary table S3. Univariate analysis between mortality and recorded variables. | | | |
|  | 30 days mortality | | *P* |
| No (n=192) | Yes (n=65) |
| Age (years), median (interquartile range) | 77.5 (17.8) | 81.3 (12.8) | 0.004 |
| Sex: male | 122 (63.5) | 45 (69.2) | 0.4 |
| Origin of bacteraemia: Community acquired | 71 (37.0) | 32 (49.2) | 0.08 |
| cCCIa, median (interquartile range) | 3 (3) | 3 (4) | 0.2 |
| cCCI ≥ 3 | 119 (62.0) | 42 (64.6) | 0.7 |
| uCCIa, median (interquartile range) | 2 (3) | 3 (3) | 0.14 |
| uCCI ≥ 4 | 59 (30.7) | 30 (46.2) | 0.02 |
| Previous invasive procedures | 119 (62.3) | 37 (56.9) | 0.4 |
| Vascular catheter | 112 (58.3) | 36 (55.4) | 0.7 |
| Central vascular catheter | 63 (32.8) | 14 (21.5) | 0.09 |
| Previous urinary bladder catheter | 75 (39.1) | 31 (47.7) | 0.222 |
| Previous admission (30 days) | 67 (34.9) | 20 (30.8) | 0.5 |
| Previous antibiotic treatment (30 days) | 61 (31.8) | 22 (33.8) | 0.8 |
| Immunosuppressant treatment | 41 (21.4) | 15 (23.1) | 0.8 |
| Previous surgery | 34 (17.7) | 9 (13.8) | 0.5 |
| Neutropenia | 7 (3.6) | 4 (6.2) | 0.5 |
| Focus: Pulmonary | 28 (14.6) | 18 (27.7) | 0.02 |
| Shock at presentation | 31 (16.1) | 33 (50.8) | < 0.0001 |
| DIC at presentation | 19 (9.9) | 17 (26.2) | 0.001 |
| ARDS at presentation | 23 (12.0) | 26 (40.0) | < 0.0001 |
| Pitt Bacteraemia Score, median (interquartile range) | 1 (3) | 3 (4) | < 0.0001 |
| Pitt Bacteraemia Score: ≥ 2 | 61 (31.9) | 39 (60.0) | < 0.0001 |
| Embolic phenomena | 27 (14.1) | 9 (13.8) | 1 |
| Persistent bacteraemia | 31 (16.1) | 18 (27.7) | 0.04 |
| Appropriate empirical antibiotic treatment | 138 (71.9) | 42 (64.6) | 0.3 |
| Methicillin resistant *S.aureus* | 55 (28.6) | 24 (37.5) | 0.2 |
| Vancomycin MIC > 1 | 29 (30.5) | 10 (27.8) | 0.8 |
| ICU admission during follow-up | 24 (12.5) | 9 (14.1) | 0.7 |
| Mechanical ventilation during follow-up | 19 (9.9) | 9 (14.1) | 0.4 |
| a To calculate CCI the following comorbid conditions were mutually exclusive: diabetes with chronic complications and diabetes without chronic complications; mild liver disease and moderate or severe liver disease; and any malignancy and metastatic solid tumour.  Abbreviations: cCCI= classical Charlson comorbidity index; uCCI= updated Charlson comorbidity index. DIC= disseminated intravascular coagulation. ARDS= acute respiratory distress syndrome. MIC= minimum inhibitory concentration. ICU= intensive care unit. | | | |